Appendix A
NELR Fish Species Distribution Atlas

Appendix A:
New England Large Rivers Fish Species Distribution Atlas

Species distributions are provided for the sites sampled in the Maine Rivers survey of 2002-7 and the New England Large Rivers (NELR) fish assemblage assessment of 2008-9. Data from the 2008-9 National Rivers and Streams Assessment (NRSA) were also included given the direct overlap with NELR sampling sites. Combined, these surveys included 502 distinct sites sampled by boat or raft-mounted electrofishing (Figure A-1). Species that occurred in only a few locations were excluded from the maps, but all species encountered are included in the species narratives. The scope of the NELR fish assemblage assessment included all of the major mainstem rivers in New England Proper[1] and most of the raftable/boatable tributaries. The Winooski and Missisquoi Rivers in the Lake Champlain drainage of Vermont were also sampled and are considered to be outside of New England Proper. Nine (9) species were unique to this drainage and did not occur elsewhere in New England Proper (see Table 7 in Chapter 3).

The riverine fish assemblage of New England Proper included 60 species considered as native, three (3) as introduced of intercontinental origin, and 22 as introduced of intracontinental origin (Table A-1). Eight (8) native species are also listed as introduced of interstate/intrastate origin as they have been introduced to areas outside of their original ranges within New England Proper. Of the 78 species recorded in New England Proper, more than one-fourth are

Table A-1*. Occurrence of native, exotic, and introduced fish species within the 6 New England states (excludes L. Champlain drainage) for the NELR fish assemblage assessment, 2002-9.*

State/Native Status	Native (N)[a]	Exotic (E)	Introduced (IC)	Introduced (IS)
Connecticut	30	2	11	2
Maine	42	3	11	6
Massachusetts	33	2	14	1
New Hampshire[b]	33	2	14	2
Rhode Island	17	2	10	1
Vermont[b,c]	30	2	11	2
New England Proper Totals	51	3	22	7

[a] – N = native origin; E – introduced of intercontinental origin; IC – introduced of intracontinental origin; IS – introduced of interstate or intrastate origin.
[b] – Connecticut R. occurrences are credited to both New Hampshire and Vermont.
[c] – Does not include NELR collections in the Lake Champlain drainage.

[1] New England Proper includes the rivers that drain directly to the Atlantic Ocean. It excludes the portion of the Lake Champlain, Hudson-Hoosic, St. Francois, and Lake Memphremagog drainages in Vermont and Massachusetts (David Halliwell, personal communication).

introduced. The state-by-state totals reflected the proportion of non-wadeable river mileage (Table A-1). Maine had the highest native species count (42) which partly owes to the cold water assemblage species that occurred in northern and western Maine. It also had the highest number of introduced species of interstate/intrastate origin, a reflection of bringing those species from southern New England to Maine. Connecticut and New Hampshire had the highest number of introduced species of intracontinental origin (14), three species more than the other states. About one-third of the present-day fish species are introduced.

The depiction of the distribution of each fish species was done by the numbers of individuals collected per kilometer (km) where the size of the symbol corresponds to ranges in a species numbers/km. A brief description of the distributional status of each species accompanies each map and is based solely on this survey. Adding other riverine fish survey data would undoubtedly expand some of the species distributions shown herein and possibly and new species. New or questionable records are backed up by museum catalogue references. The order of presentation of the fish species follows that in Table 7. More detailed natural and life history information can be found in the various New England state fish texts that include Hartel et al. (2002), Langdon (2006), Whitworth (1996), and Libby (2013).

Sea Lamprey *(Petromyzon marinus)*

One of nine (9) anadromous species collected in the NELR surveys, sea lamprey occurred in the lower reaches of major mainstem rivers where spawning adults have access (Figure A-1). This species occurred in NELR samples as ammocoetes or emerging subadults given the timing of the sampling during mid-July to early October (Plate A-1).

American Brook Lamprey *(Lethenteron appendix)*

This native non-parasitic brook lamprey occurred at one location in the Seekonk R. (OSUM 110438, 110434[2]) and two locations in the Blackstone R. (OSUM 116079, 110435, 110436) Hartel et al. (2002) lists records for the Blackstone drainage and in low numbers, these locations being overlooked until the 1980s.

Longnose Gar *(Lepisosteus osseus)*

Longnose gar were collected only in the Winooski River (VT) and is one of the nine (9) species that were unique to the Lake Champlain drainage.

Bowfin (*Amia calva*)

Bowfin were collected in the Winooski River (VT) and the Taunton River (MA). This species is native to the Lake Champlain drainage, but not to New England Proper where it has been introduced. Hartel et al. (2002) cite occurrences in Massachusetts and evidence of successful

[2] Specimens deposited in the Ohio State University Museum of Biodiversity are listed with their catalogue number.

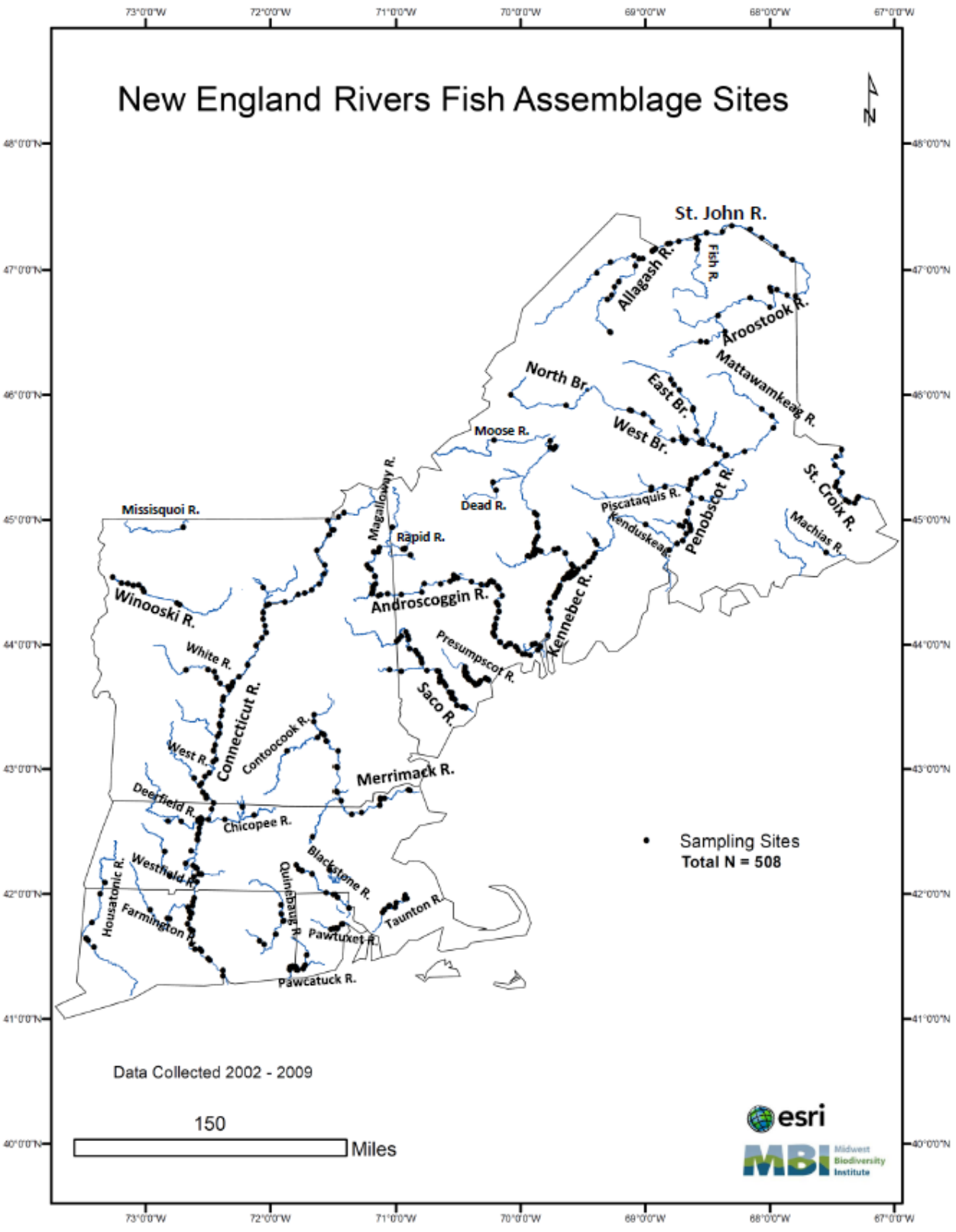


Figure A-1. *New England Large Rivers (NELR) fish assemblage assessment sampling sites 2002-9 with major rivers labeled.*

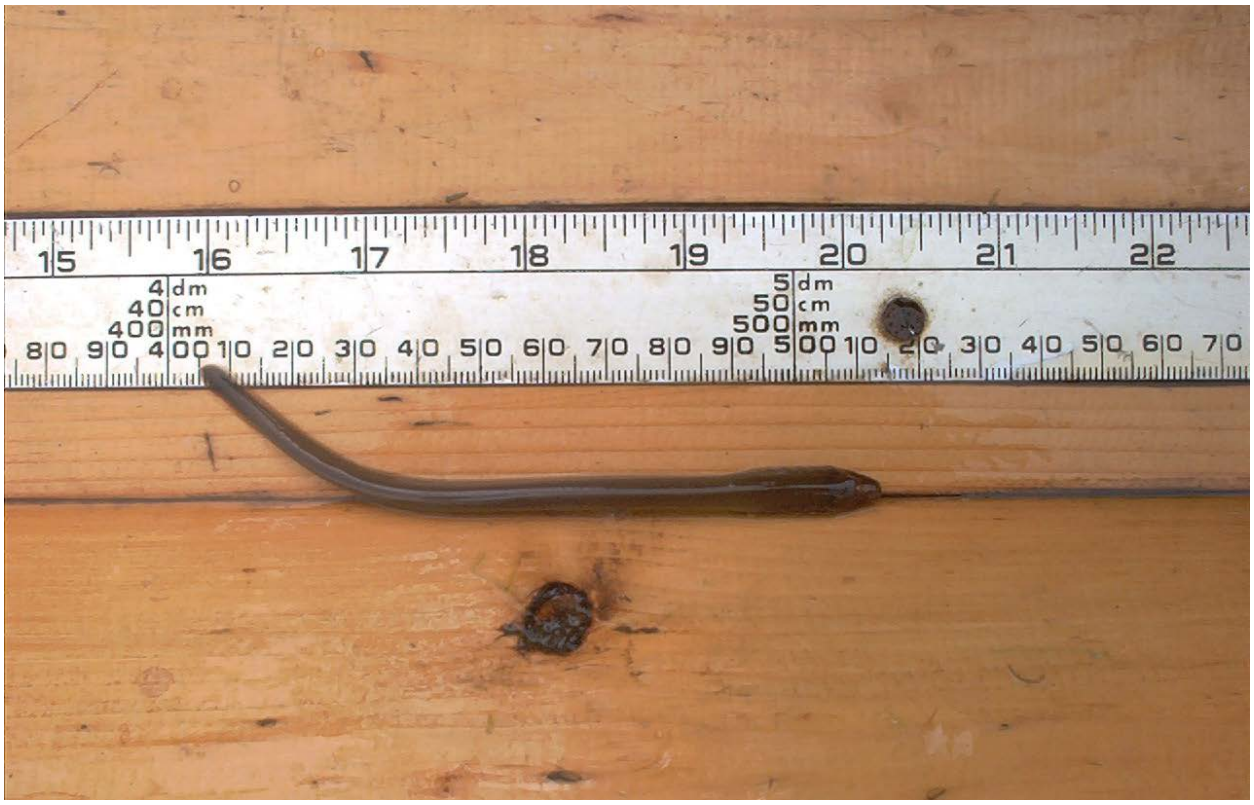


***Plate A-1**. Sea lamprey ammocoete collected in the lower Kennebec River at Sidney, ME in 2002.*

reproduction. The low numbers observed in the NELR survey likely indicate the comparative rarity of this species as is usually observed in electrofishing surveys in their native range.

Shortnose Sturgeon *(Acipenser brevirostrum)*

The federally listed shortnose sturgeon (Plate A-2) is one of nine (9) anadromous species encountered in the NELR survey being collected at a single location at the mouth of the Presumpscot River in 2006. It is known to be present in several coastal rivers including the Kennebec, Penobscot, Merrimac, and Connecticut Rivers. No collections were made in the Connecticut River downstream from Turners Falls (MA) in 2009 where a landlocked population is known to exist.

Atlantic Sturgeon *(Acipenser oxyrinchus)*

Another of the three federally listed fish species in New England, Atlantic sturgeon were collected as single individuals in the lower Kennebec River near Sidney, ME in 2005 and the lower Presumpscot River in 2006 (Plate A-2). This species generally occurs in the mid-channel of rivers and is therefore not particularly susceptible to capture by the NELR electrofishing methodology.



Plate A-2. *Shortnose sturgeon adult (upper) and Atlantic sturgeon (lower) collected in the lower Presumpscot River below Presumpscot Falls (ME) in 2006.*

American Eel *(Anguilla rostrata)*

American eel (Plate A-3) are very susceptible to capture by electrofishing and as such were common at many locations especially in the lower reaches of many NELR rivers. Of the rivers sampled where this species should naturally occur they were absent only from the six Housatonic River sites (Figure A-2). The highest abundances were observed in the lower Kennebec River downstream from the Lockwood Dam in Waterville, ME where multiple size/age classes were observed. American eel abundance generally declined in the upper reaches of most rivers and individuals that were collected were always large and presumably older adult fish. They were rare or absent from their historical range in the upper one-half of the Connecticut and Androscoggin Rivers, but they were at least present in the upper reaches of the Kennebec and Penobscot mainstems and branches, again as larger and mostly solitary individuals. The Maine portions of the St. John and Aroostook Rivers are upstream from natural barriers that are impassable for eels and other diadromous species.



Plate A-3. *American eel (Anguilla rostrata) collected in the West Branch Penobscot River downstream from Nesowadnahunk Falls, 2004.*

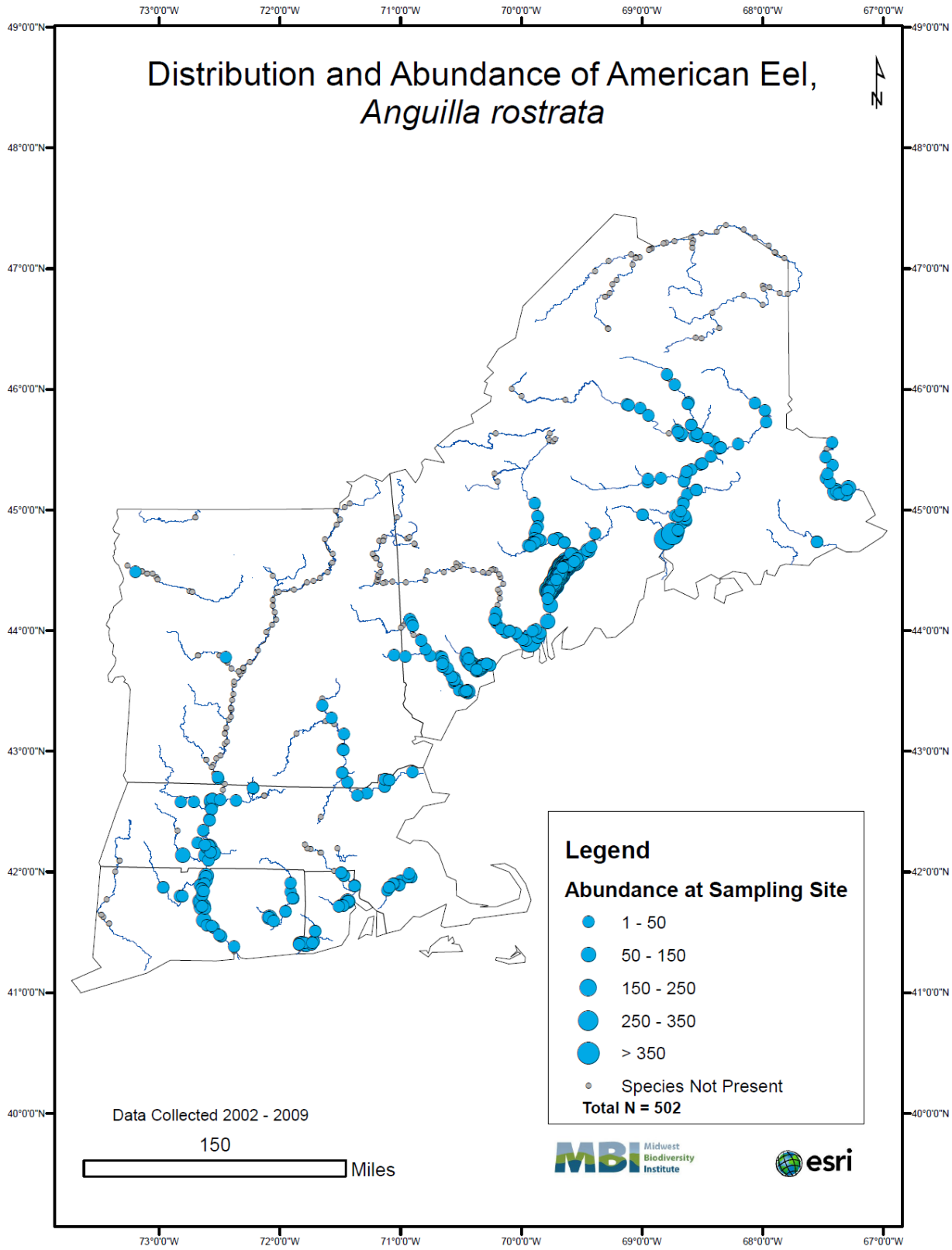


Figure A-2. *Distribution and relative numbers of American eel (Anguilla rostrata) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

Blueback Herring *(Alosa aestivalis)*

One of three species of river herring (Plate A-4) collected in the NELR surveys, blueback herring were common in the Kennebec River downstream from the Lockwood Dam, the Androscoggin River downstream from the Brunswick Dam, and in Merrymeeting Bay (Figure A-3). This species was collected in the lower Sebasticook River following the removal of the Ft. Halifax dam in Winslow, ME in 2008. The only other locations where this species was collected were in the Taunton and Shetucket Rivers. This diadromous species occurred in samples as young-of-the-year during their late summer-early fall outmigration.



Plate A-4*. Three species of river herring that occur in New England rivers. Upper: alewife (Alosa pseudoharengus); Middle: blueback herring (Alosa aestivalis); Lower: American shad (Alosa sapidissima). All fish shown are young-of-the-year. Photo courtesy of Jason Bartlett, Maine Dept. of Marine Resources.*

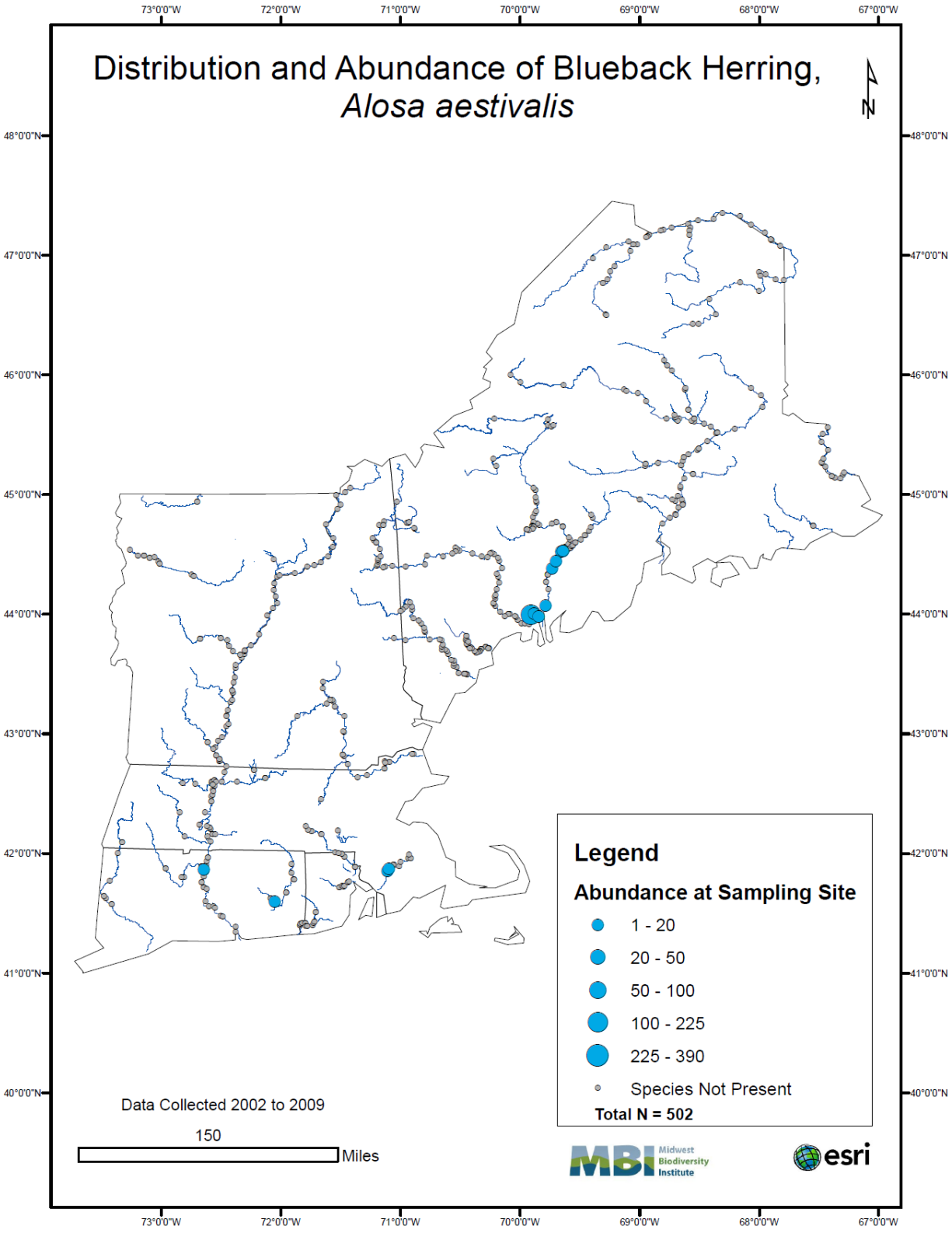


Figure A-3. *Distribution and relative numbers of blueback herring (Alosa aestivalis) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

Alewife *(Alosa pseudoharengus)*

Alewife (Plate A-3) were the most numerous in the Kennebec River downstream from the Lockwood Dam, the Androscoggin River downstream and immediately upstream from the Brunswick Dam, and Merrymeeting Bay (Figure A-4). This species was also collected in the lower Sebasticook River following the removal of the Ft. Halifax dam in 2008. It was more numerous than blueback herring, but almost always co-occurred with that species. It was geographically more widespread being collected in several Maine rivers, but only sporadically in the remainder of New England. Two landlocked populations were evident in the upper St. Croix and Rapid Rivers in Maine. Similar to blueback herring, this anadromous species occurred in samples as young-of-the-year during their late summer-early fall outmigration.

American Shad *(Alosa sapidissima)*

American shad (Plate A-3) were the most numerous in the Kennebec River downstream from the Lockwood Dam, the Androscoggin River downstream and immediately upstream from the Brunswick Dam, and in Merrymeeting Bay (Figure A-5). They were also both numerous and consistently present in the Connecticut River downstream from Turners Falls, MA and present at a few locations further upstream in New Hampshire. They were also collected in the Taunton and lower Merrimack Rivers in Massachusetts and the lower Saco and Presumpscot Rivers in Maine plus a single location in the lower Penobscot River in 2003. As with the other two river herring species, the anadromous American shad primarily occurred in samples as young-of-the-year during their late summer-early fall outmigration.

Gizzard Shad *(Dorosoma cepedianum)*

Gizzard shad (Plate A-5) recently (and naturally) invaded selected southern New England rivers from the lower Hudson River (Hartel et al. 2002). While it has become abundant in the lower Connecticut River none were collected in the NELR surveys. The reasoning for including it in the list of NELR fish species is that four large individuals were collected in the Kennebec River immediately downstream from the Lockwood Dam in 2000 (B. Kulik, personal communication). None have been observed in annual surveys of this reach since and it is thought that the collected fish were in American shad stockings that originated from the Connecticut River.



Plate A-5. *Adult gizzard shad (Dorosoma cepedianum) from the Scioto River (OH).*

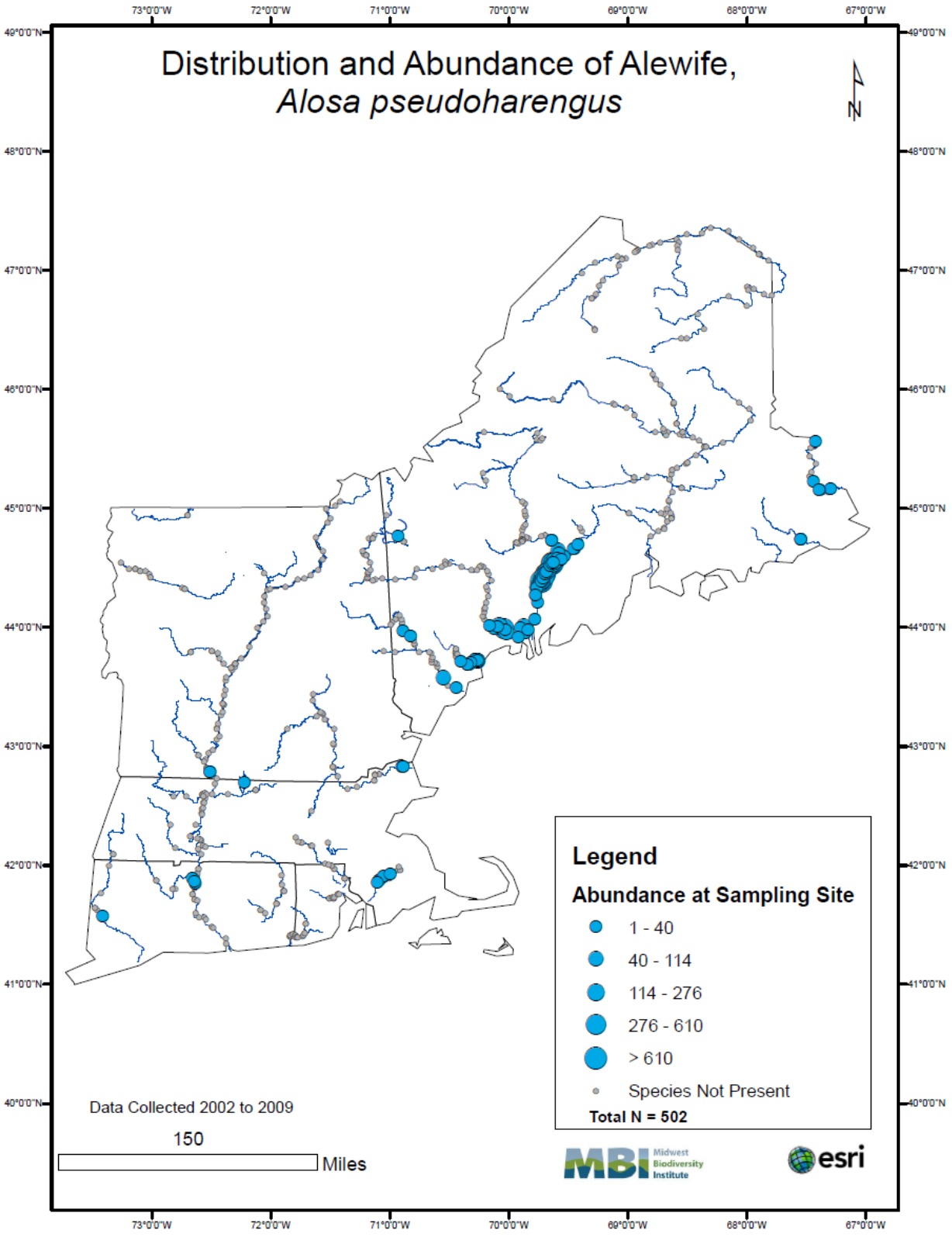


Figure A-4. *Distribution and relative numbers of alewife (Alosa pseudoharengus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

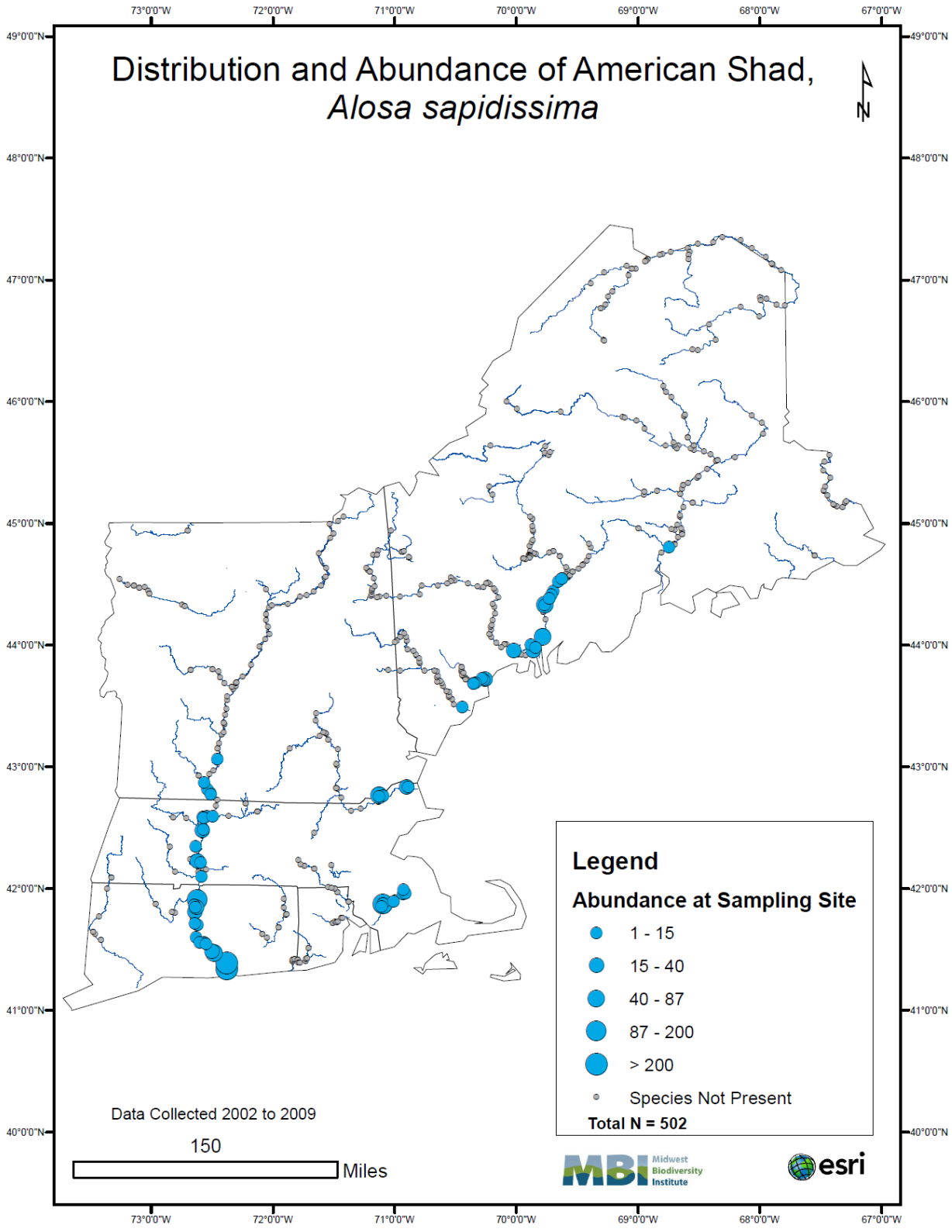


Figure A-5. *Distribution and relative numbers of American shad (Alosa sapidissima) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

Lake chub *(Couesius plumbeus)*

Lake chub (Plate A-6) are classified as a temperate stenotherm (Table 7). The geographic distribution in New England reflects this species preference for cool-cold water as it was most abundant in the St. John and Aroostook Rivers in northern Maine where it was consistently collected in high numbers (Figure A-6). Elsewhere its occurrence was patchy and in lower numbers. It was absent altogether from southern New England where it has likely been extirpated and restricted to disjunct populations in smaller, cooler streams (Hartel et al. 2002).



Plate A-6. *Adult lake chub (Couesius plumbeus) collected from the upper Androscoggin River in 2003.*

Common Carp *(Cyprinus carpio)*

This non-native species (Plate A-7) was the most widespread in the Housatonic, Connecticut, Quinebaug, Taunton, and Merrimack Rivers of southern New England (Figure A-7). It was sporadically collected in the lower Kennebec and Androscoggin Rivers and in Merrymeeting Bay where it occurred in larger numbers. Barriers to further expansion in Maine include dams, a cool-coldwater thermal regime, and good water quality. While it was occasionally observed upstream from the former Edwards Dam site, it has not become established in large numbers as it has in southern New England.

Eastern Silvery Minnow *(Hybognathus regius)*

The eastern silvery minnow was collected at a single location in the Winooski River in Vermont. It is native to selected rivers in New England Proper (Hartel et al. 2002).

Common Shiner *(Luxilis cornutus)*

Common shiner (Plate A-8) was one of the three most commonly occurring fish species in the NELR survey (Figure A-8). It occurred at nearly 85% of the sites sampled throughout New England being common in the cool-cold rivers of northern Maine and the thermally altered, warmer rivers of southern New England.

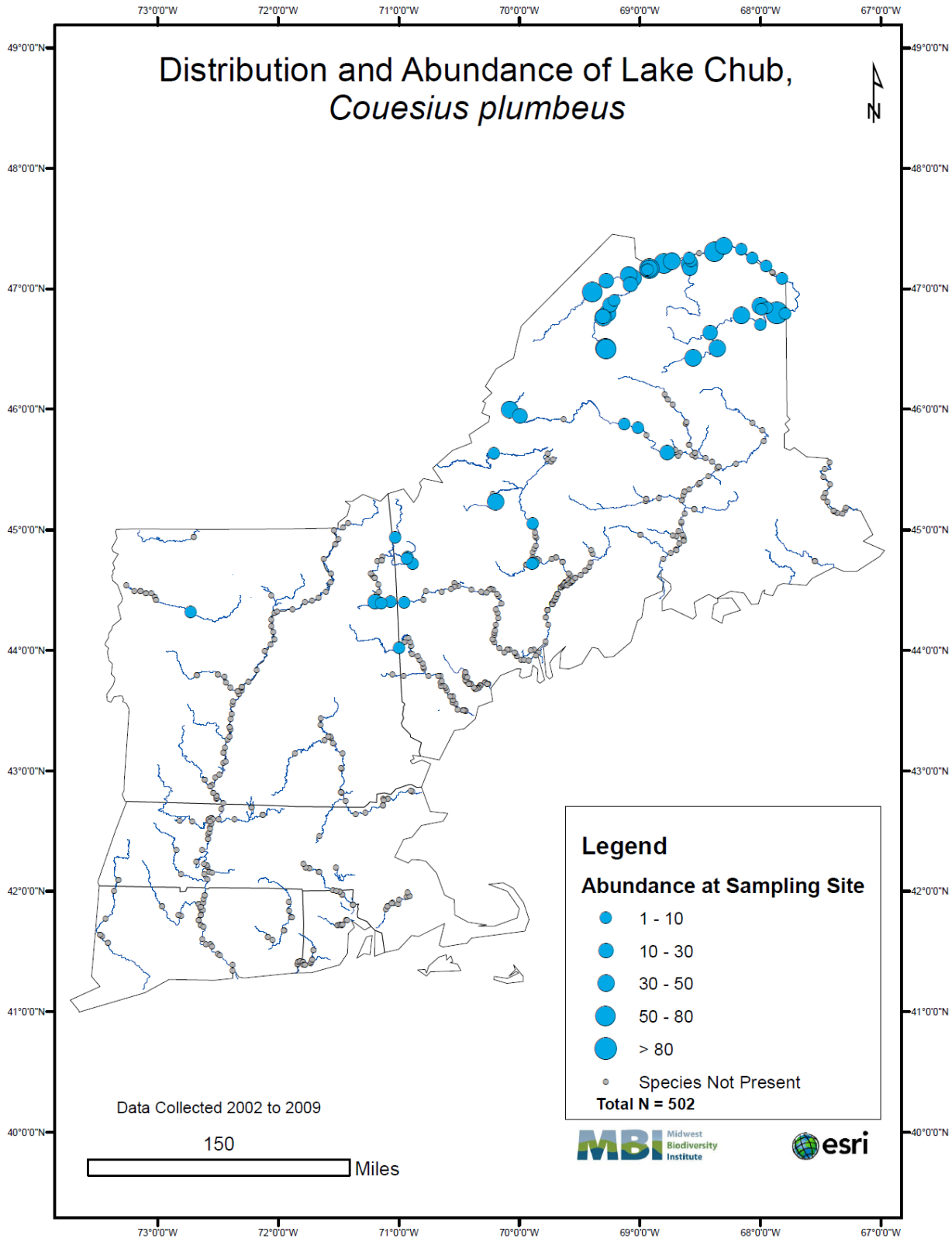


Figure A-6. *Distribution and relative numbers of lake chub (Couesius plumbeus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

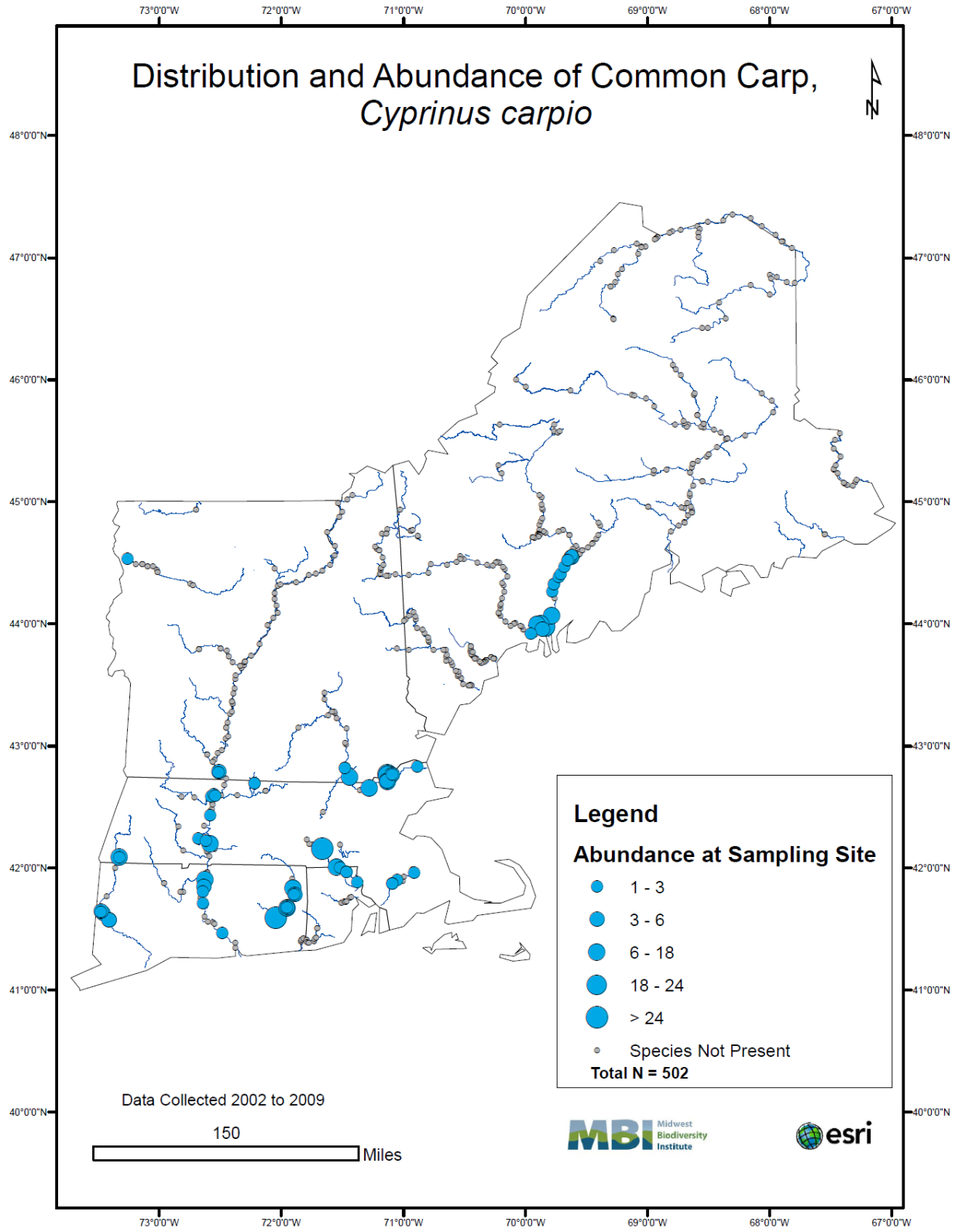


Figure A-7. *Distribution and relative numbers of common carp (Cyprinus carpio) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

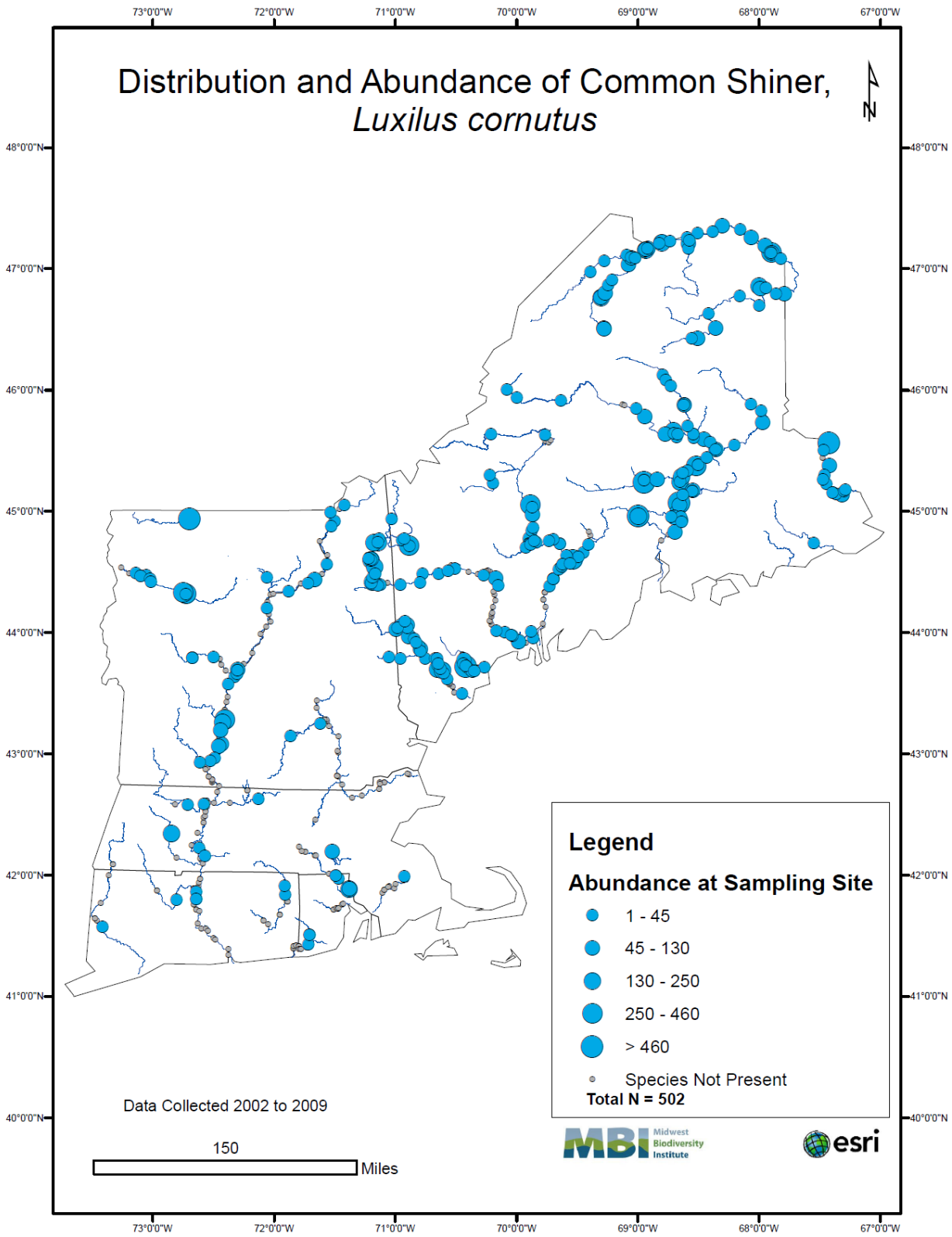


***Figure A-8**. Distribution and relative numbers of common shiner (Luxilis cornutus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*



***Plate A-7**. Adult common carp (Cyprinus carpio) collected from the lower Kennebec River at Richmond, ME in 2002.*

Golden Shiner *(Notemigonus crysoleucas)*

Golden shiner (Plate A-8) were common in NELR river samples in all except the St. John and Aroostook Rivers (Figure A-9) in northern Maine and the Housatonic River in western Connecticut. They occurred in the highest numbers in low gradient river reaches and impoundments.

Bridle Shiner *(Notropis bifrenatus)*

Bridle shiner were rare in NELR collections occurring at only five (5) widely scattered locations and with no more than 4 individuals in a sample. Both Hartel et al. (2002) and Langdon (2006) indicate that this species is declining throughout its native range in New England presumably in response to declining chemical and physical quality.

Blacknose Shiner *(Notropis heterolepis)*

Blacknose shiner were geographically uncommon, but occurred in good numbers at the sites where they were found (Figure A-10). All except one of the NELR locations where it occurred are in Maine. The Maine population is thought to be disjunct from its native range to the north and west (Langdon 2006).

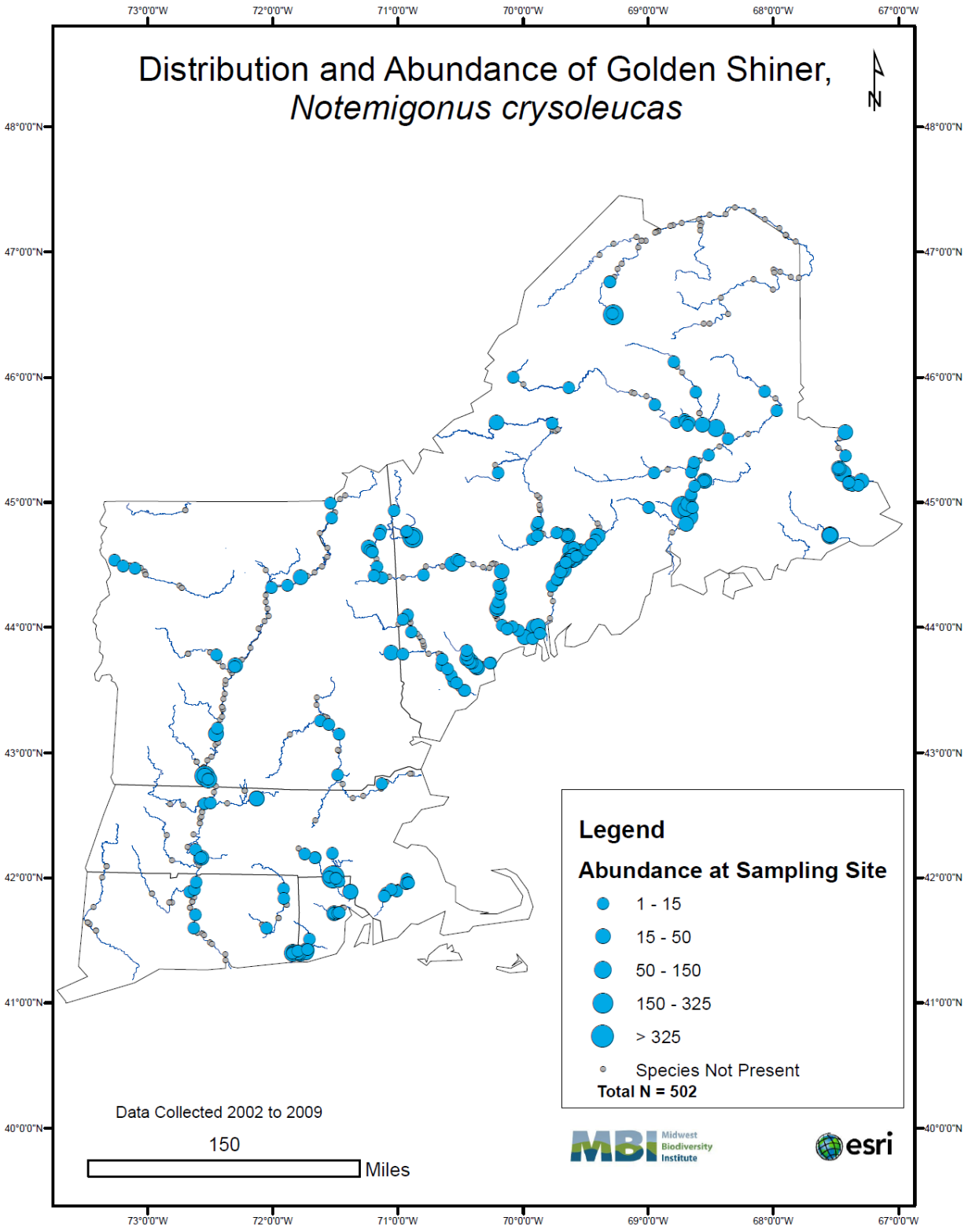


Figure A-9. *Distribution and relative numbers of golden shiner (Notemigonus crysoleucas) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

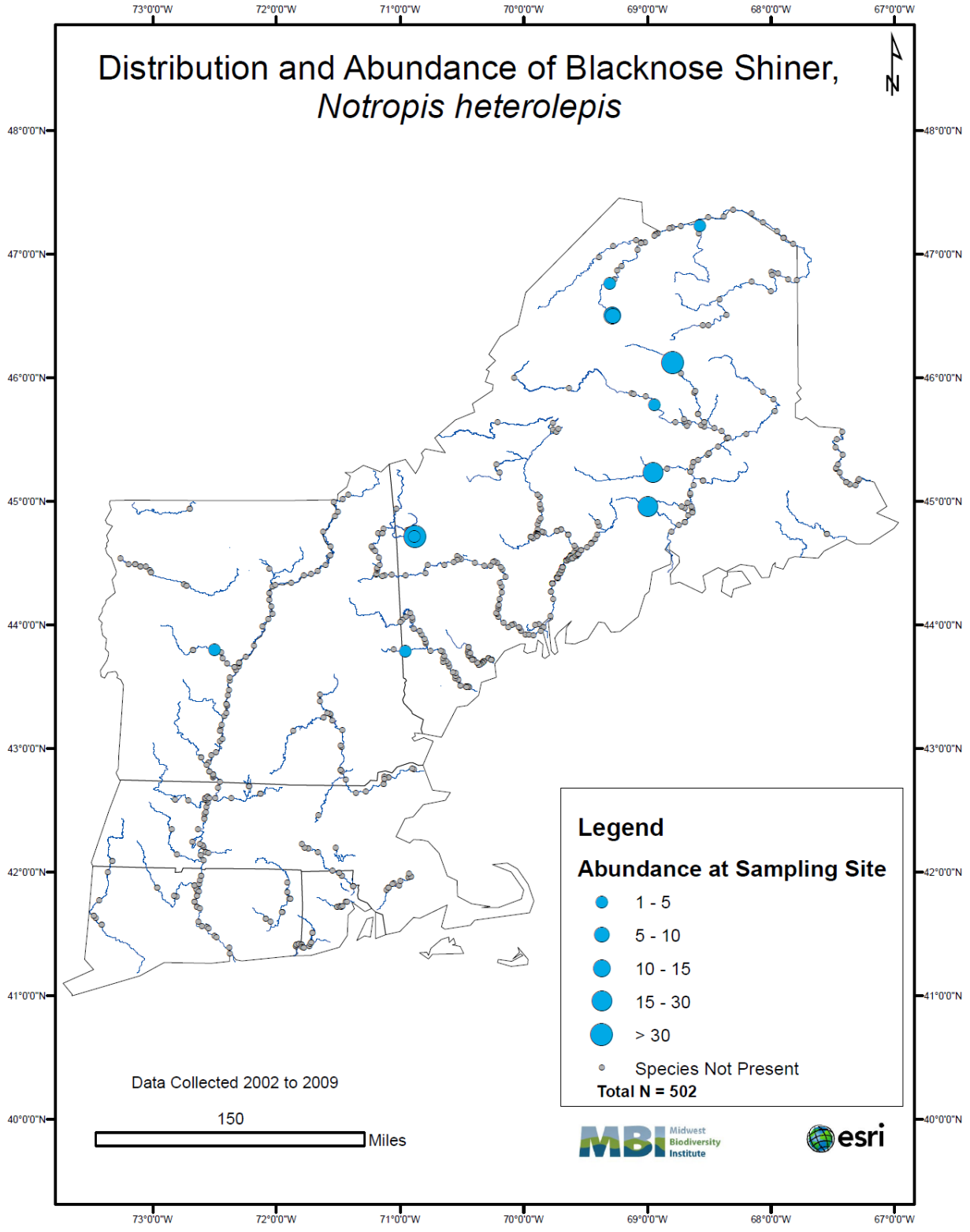


***Figure A-10**. Distribution and relative numbers of blacknose shiner (Notropis heterolepis) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*



***Plate A-8**. Adult common shiner (Luxilis cornutus; left) collected from the upper Androscoggin River (NH) in 2003 and adult golden shiner (Notemigonus crysoleucas; right) from the Cathance River (ME) in 2002.*

Spottail Shiner *(Notropis hudsonius)*

Spottail shiner (Plate A-9) were common in river samples south of latitude 45°N (Figure A-11) and were especially abundant in the lower Kennebec and Androscoggin Rivers (ME), the lower Merrimack River (MA), and the lower Connecticut River (CT and MA). Hartel et al. (2002) indicate this species is native to the Connecticut River drainage, but introduced elsewhere in New England mostly via bait bucket transfers.



***Plate A-9**. Spottail shiner (Notropis hudsonius) collected from the lower Kennebec River (ME) in 2002.*

Mimic Shiner *(Notropis volucellus)*

Mimic shiner were collected in the lower Winooski R. and the Missisquoi R. which is in their native range (Figure A-12). They were also collected in the Connecticut R. mainstem, the White R., and the upper Merrimack R. which is outside of their native range. Their introduction into New England Proper was via bait bucket transfers (Hartel et al. 2002).

Emerald Shiner *(Notropis atherinoides)*

Emerald shiner were collected exclusively from the Winooski R. which is within their native range. This species is eurythermal and is tolerant of turbid, enriched waters in its native range. It is widely used as bait thus it poses a potential threat for introduction into New England Proper lakes, rivers, and streams.

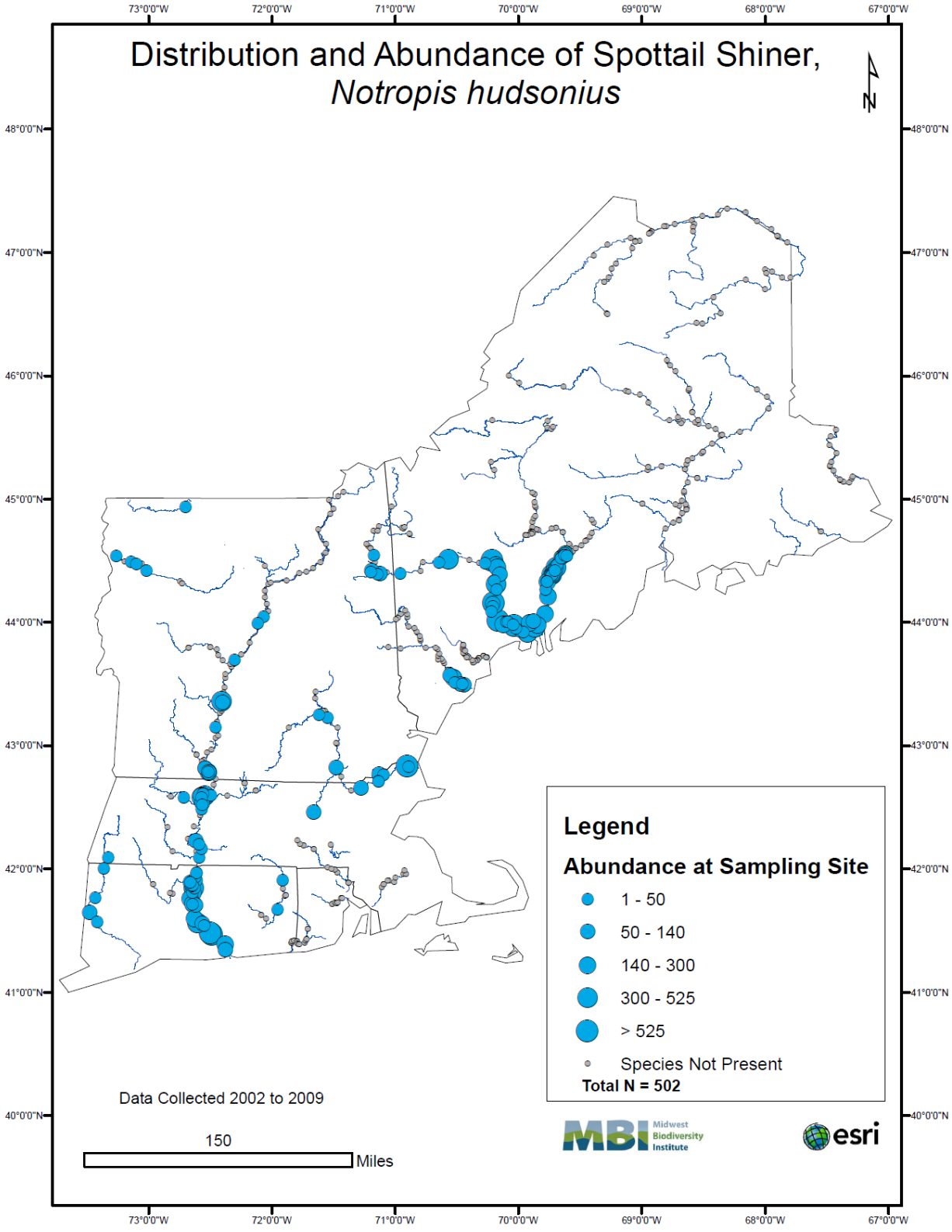


Figure A-11. *Distribution and relative numbers of spottail shiner (Notropis hudsonius) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

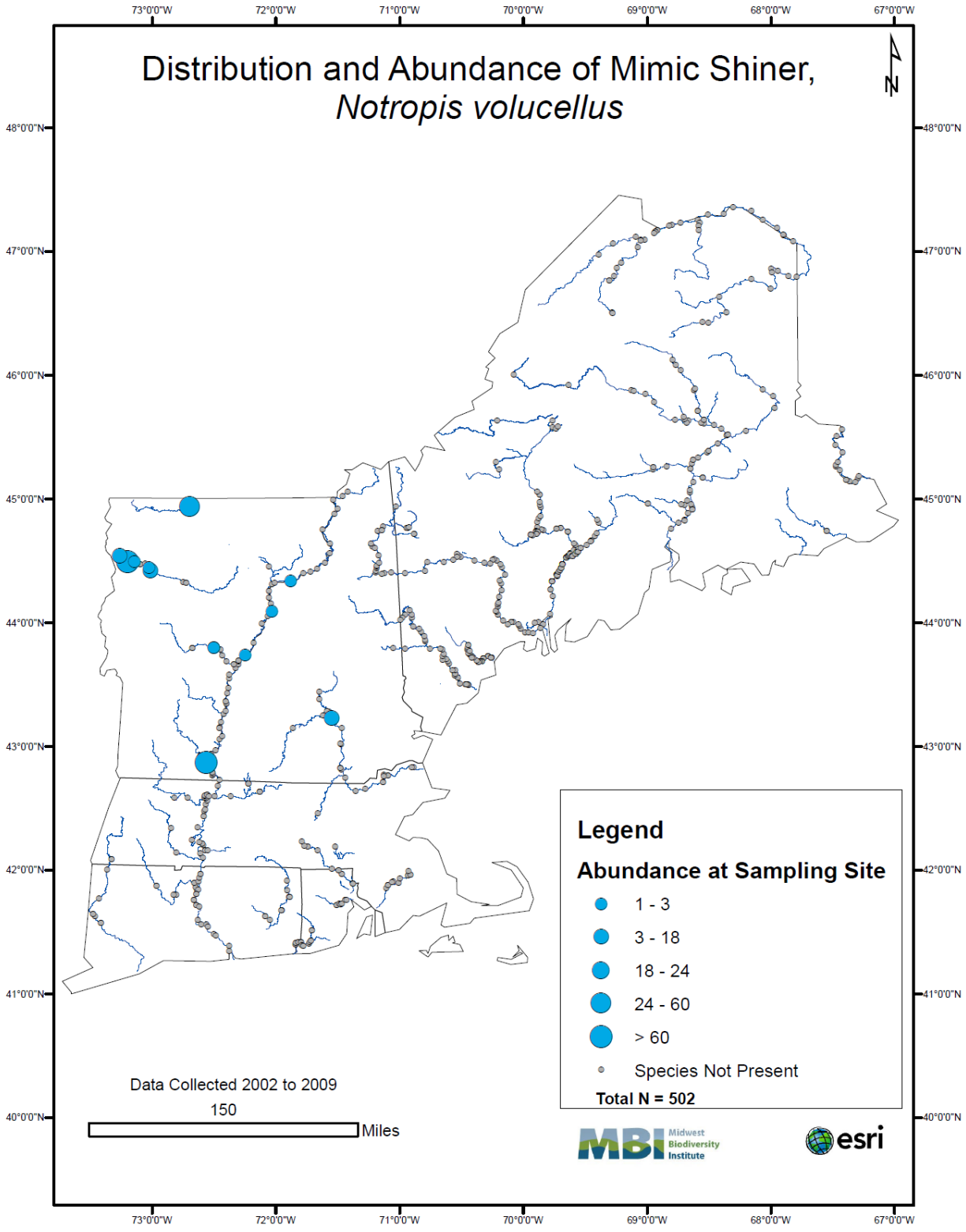


***Figure A-12**. Distribution and relative numbers of mimic shiner (Notropis volucellus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

Rosyface Shiner *(Notropis rubellus)*

Rosyface shiner (Figure A-13) were common in the lower Winooski R. and the Missisquoi R. which is within their known native range. Collections were also made in the White and West Rivers which is outside of the native range reported by Langdon (2006) in Vermont. However, these may well be native populations that have been overlooked given their occurrence in these non-wadeable rivers. Voucher specimens were deposited at the Ohio State University Museum of Biodiversity (OSUMB).

Spotfin Shiner *(Cyprinella spiloptera)*

Spotfin shiner were likewise collected exclusively from the Winooski R. which is within their native range. This species is eurythermal and is tolerant of turbid, enriched waters. Because it is not widely used as a bait fish it poses a lesser threat for introduction into New England Proper lakes, rivers, and streams.

Northern Redbelly Dace *(Chrosomus eos)*

Northern redbelly dace were restricted to sites generally north of latitude 45^{o}N and occurred in disjunct locations. This is one of the Cyprinids that were negatively correlated with the presence and abundance of smallmouth bass (Yoder et al. 2008). As such it occurred mostly outside of the range of that species in northern Maine (Allagash and Aroostook Rivers) and the upper Connecticut River (Figure A-14).

Northern Pearl Dace *(Margariscus nachtriebi)*

Pearl dace occurred in widely scattered locations in Maine and the Winooski R. (Figure A-15). Generally inhabitants of smaller streams most were likely transients from small tributary streams where they were more common.

Bluntnose Minnow *(Pimephales notatus)*

Bluntnose minnow were found in the Winooski and Missisquoi Rivers which are within their native range (Figure A-16). This species was also collected in the Housatonic R. where it was common and first reported in 1979 (Hartel et al. 2002). It was also collected at one location in the upper Connecticut R. The occurrence of this species in New England Proper is the likely result of bait bucket introductions (Hartel et al. 2002).

Fathead Minnow *(Pimephales promelas)*

Fathead minnow were found in disjunct locations primarily north of latitude 44^{o}N (Figure A-17). The occurrence of this species in northern Maine is the likely result of bait bucket introductions as they are native in New England Proper west of the Connecticut River drainage (Hartel et al. 2002).

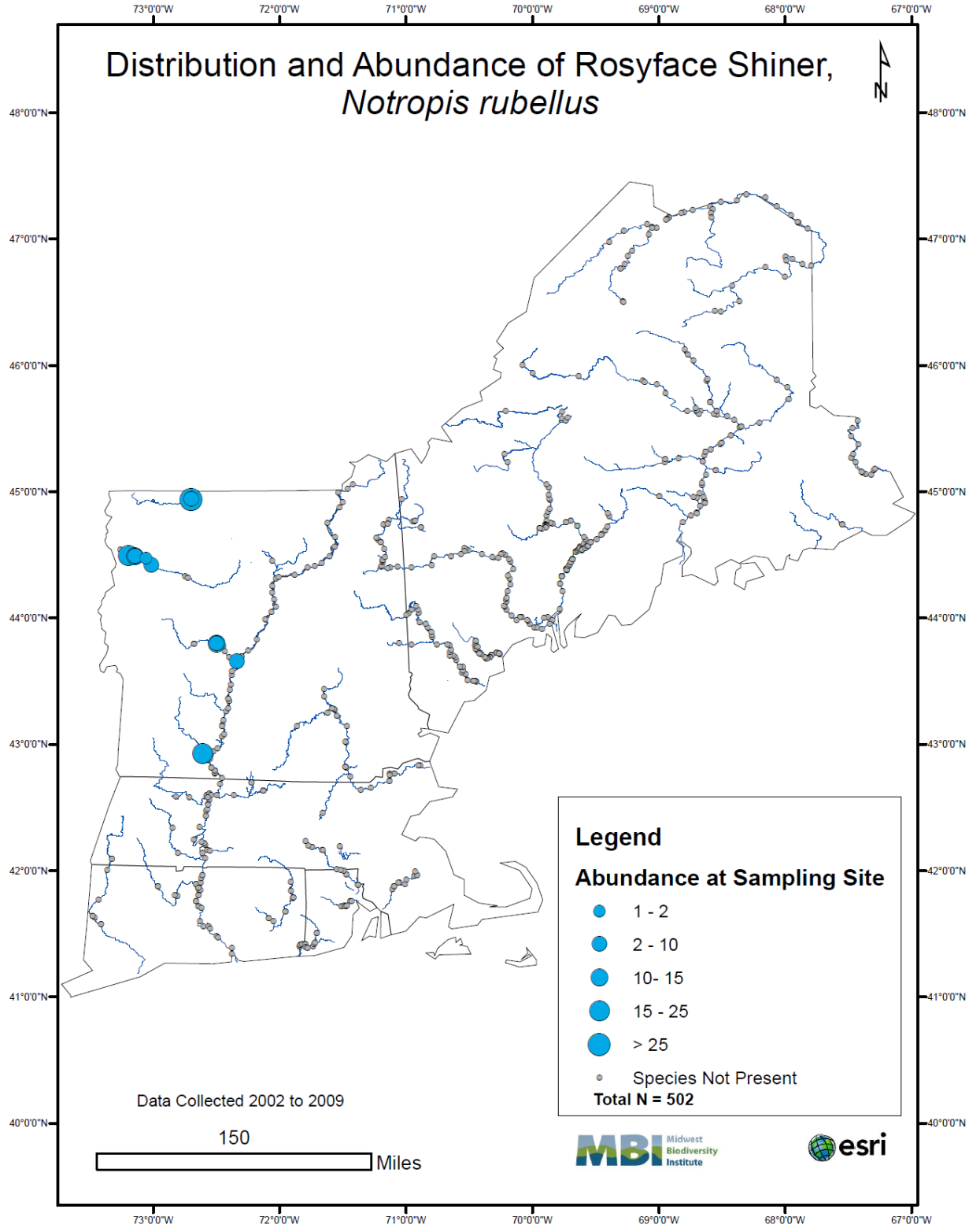


Figure A-13*. Distribution and relative numbers of rosyface shiner (Notropis rubellus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

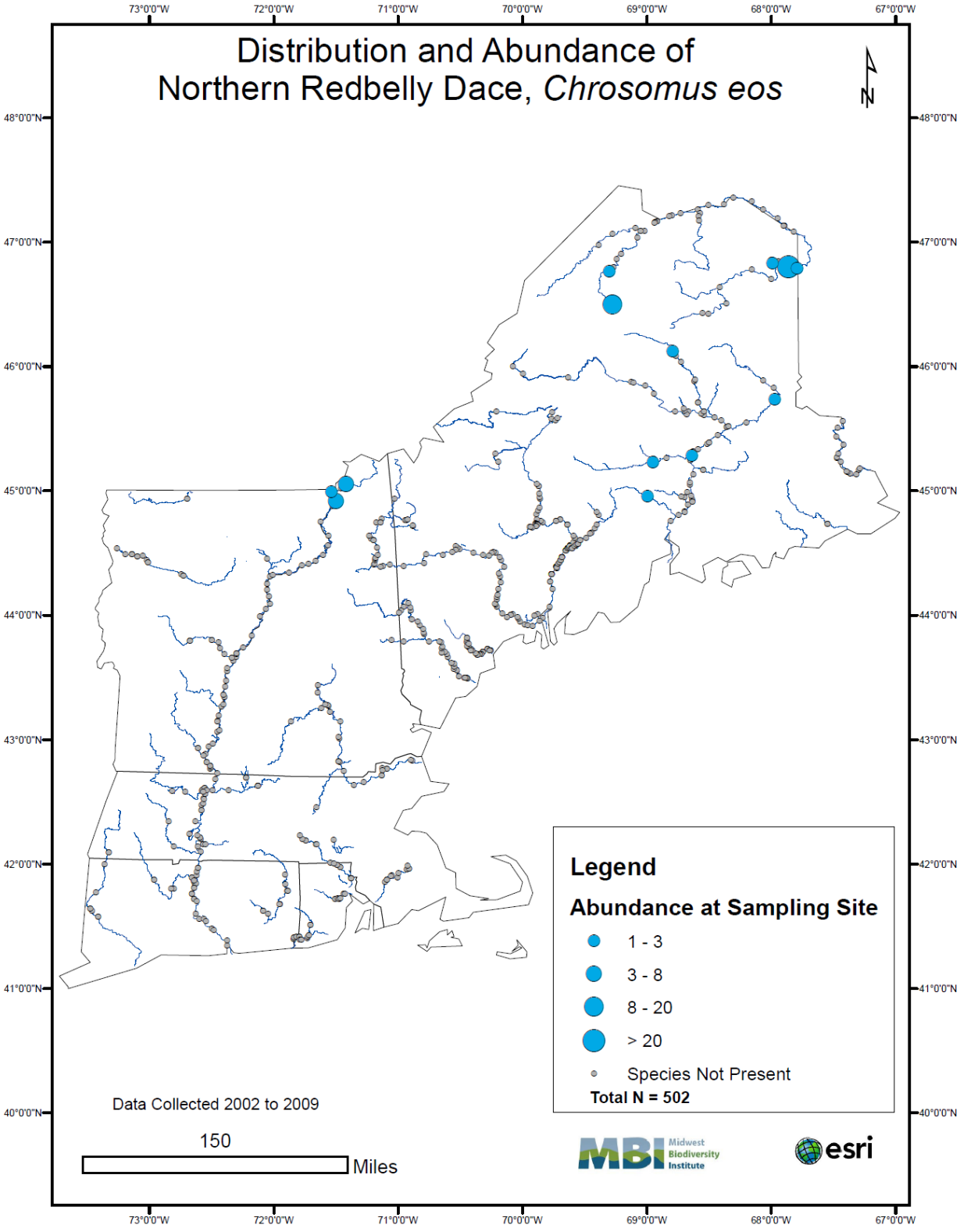


***Figure A-14**. Distribution and relative numbers of northern redbelly dace (Chrosomus eos) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

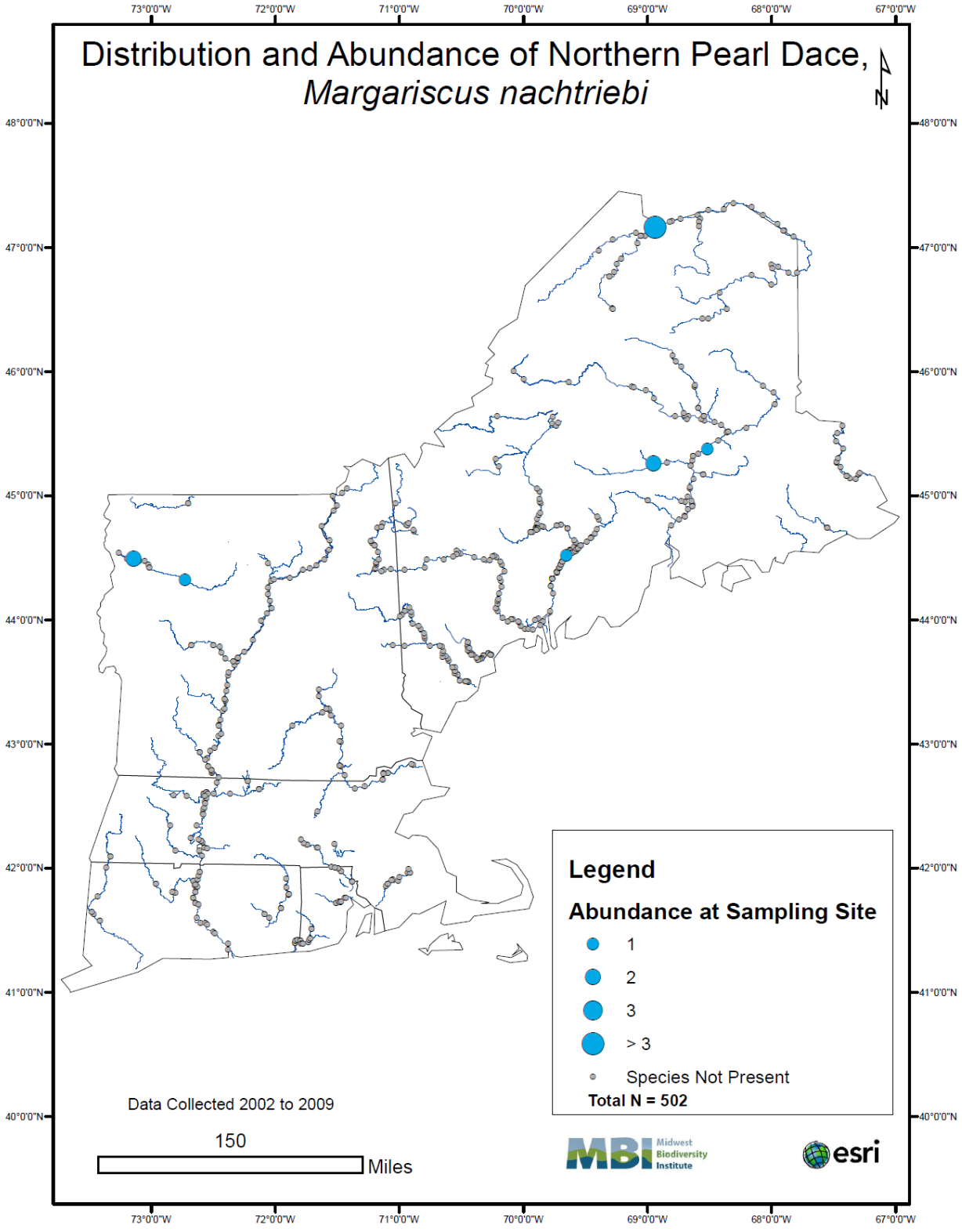


***Figure A-15**. Distribution and relative numbers of northern pearl dace (Margariscus nachtrebi) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

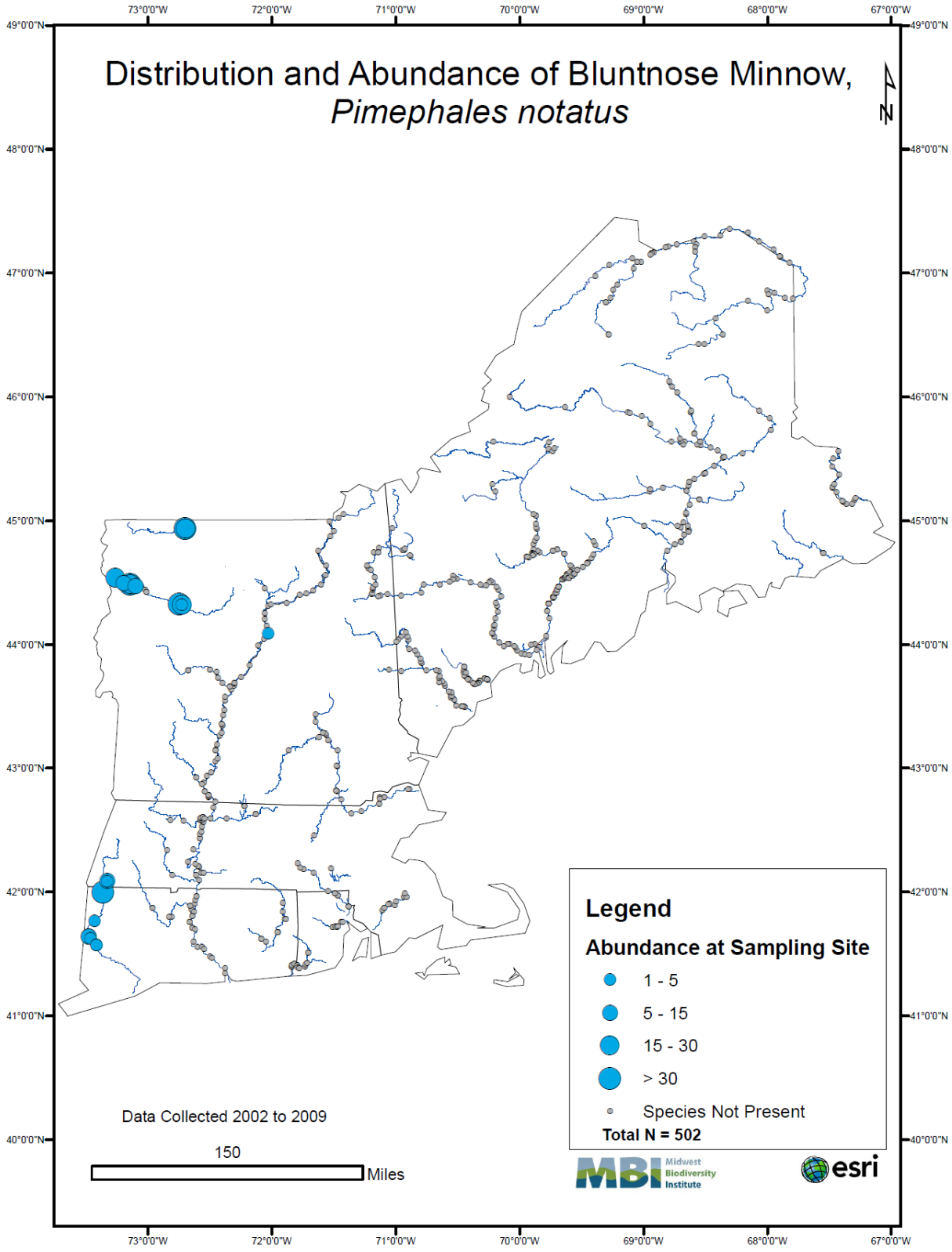


***Figure A-16**. Distribution and relative numbers of bluntnose minnow (Pimephales notatus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

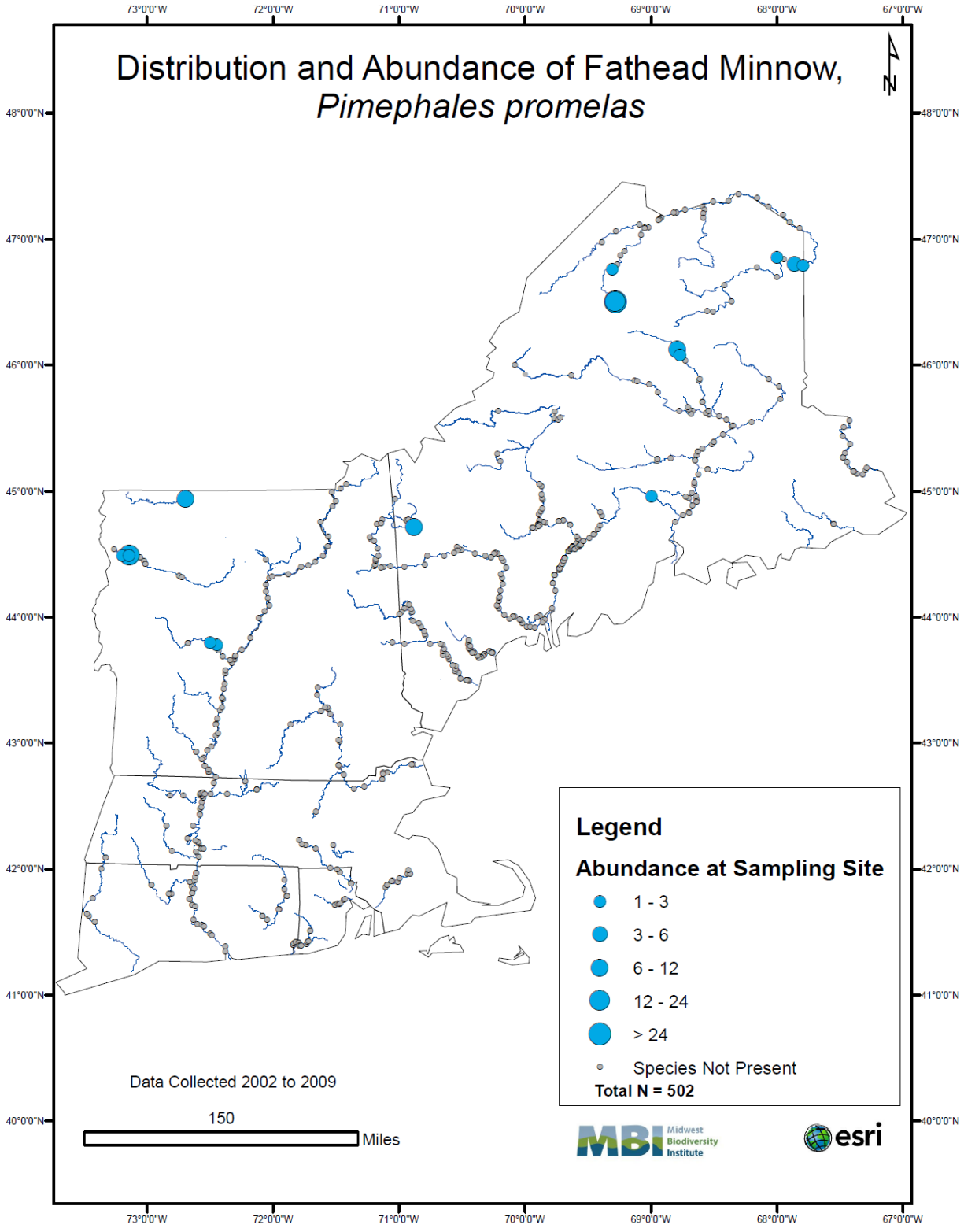


Figure A-17. *Distribution and relative numbers of fathead minnow (Pimephales promelas) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

Blacknose Dace *(Rhinichthys atratulus)*

Blacknose dace (Plate A-10) were both commonly occurring and abundant in river samples north of latitude 45°N (Figure A-18) in the St. John, Allagash, and Aroostook Rivers. They sporadically occurred south of this latitude in comparatively scattered locations. The most southerly occurrence was the Farmington River in Connecticut. It is quite common in smaller high gradient streams throughout New England (Hartel et al. 2002), but are seemingly more restricted in large rivers based on the NELR results. The popular notion is that this species is highly tolerant of pollution, but this may be based more on the western subspecies which was elevated to species status by Nelson et al. (2004), but then rescinded by Page et al. (2012). For NELR purposes it is classified as moderately intolerant, a fluvial specialist, and a temperate stenotherm (Table 7).

Longnose dace *(Rhinichthys cataractae)*

With one exception, longnose dace (Plate A-10) occurred west of longitude 70°W and south of latitude 45°N (Figure A-19). It was most abundant in the upper Androscoggin and upper Connecticut Rivers, but occurred in lesser numbers in several southern New England rivers.

Rudd *(Scardinius erythrophthalmus)*

This non-native species is included here because they occur in New England Proper mostly the result of recent bait bucket introductions. There was also a possible specimen from the lower Androscoggin R. that had rudd characteristics, but the identification was deemed inconclusive (K. Hartel, personal communication). Explicit prohibitions now exist for selling or possessing rudd in all of the New England states.

Creek Chub *(Semotilus atromaculatus)*

Creek chub (Plate A-11) were collected in NELR samples mostly north of latitude 44°N in the



Plate A-11. *Creek chub (Semotilus atromaculatus; upper) and fallfish (Semotilus corporalis; lower) collected from the upper Kennebec River (ME) in 2002.*

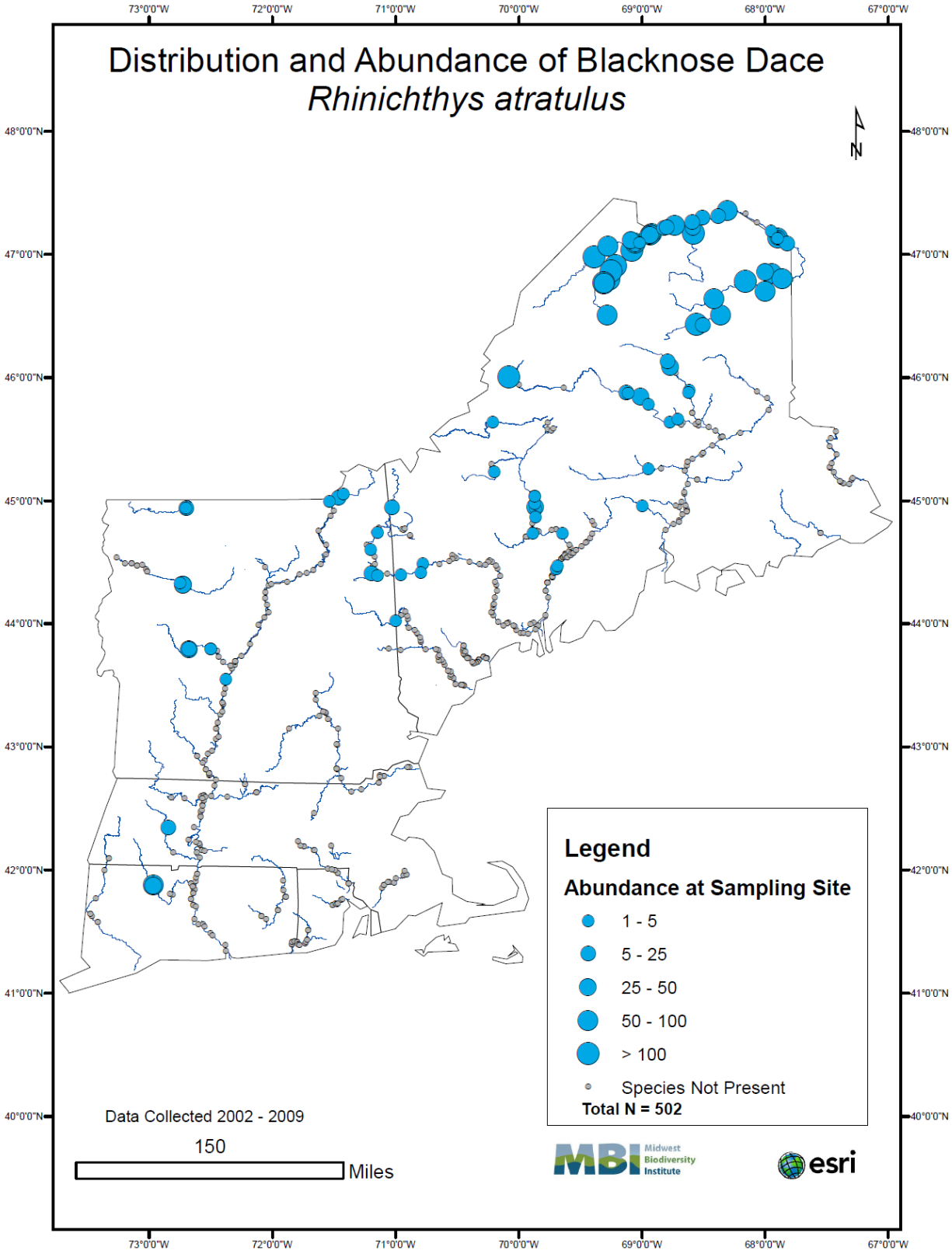


Figure A-18*. Distribution and relative numbers of blacknose dace (Rhinichthys atratulus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

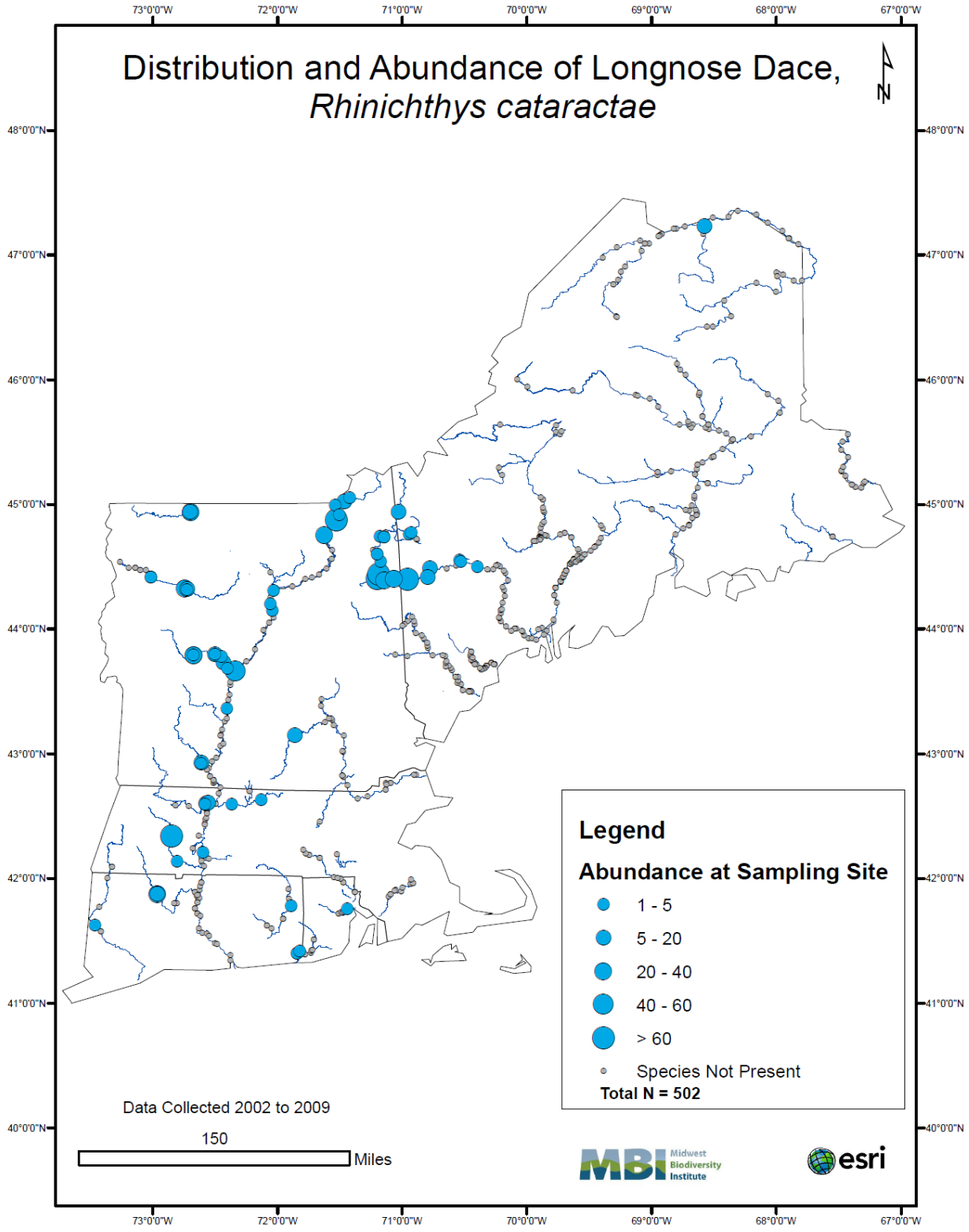


Figure A-19*. Distribution and relative numbers of longnose dace (Rhinichthys cataractae) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

lower St. John, Allagash, Aroostook, E., W., and N. Branches of the Penobscot, and the Kennebec Rivers in Maine (Figure A-20). It also occurred sporadically in other rivers farther south and west. Common in smaller streams, creek chub are considered to be tolerant of pollution and physical alterations, but this did not seem to hold for New England large rivers. It was most abundant in the cooler northern rivers even though it is classified as a temperate eurytherm.

Fallfish *(Semotilus corporalis)*

Fallfish (Plates A-11 and A-12) are one of the few species that were collected at virtually every NELR sampling site and in every sample (Figure A-21). They occurred as young-of-the-year, juvenile, and/or adult life stages and in every habitat from free-flowing moderate gradient to low gradient to impounded and in a wide range of water quality and thermal conditions. Very large adults (Plate A-12) were oftentimes found in the effluents of paper mills and municipal wastewater treatment facilities.



Plate A-12*. An adult fallfish (Semotilus corporalis) collected from a paper mill effluent mixing zone in the upper Androscoggin River (NH) in 2003.*

Longnose Sucker *(Catostomus catostomus)*

Longnose sucker (Plate A-13) were collected north of latitude 44°N and were most commonly collected in the St. John, Allagash, and East, West, and North Branches of the Penobscot R. (Figure A-22) reflecting this species preference for free-flowing, cool-cold waters. At locations south they were generally present in lower numbers except for one location in the upper White R. (VT). Most individuals collected were ≈12 inches in length, but large adults weighing nearly 3 pounds were collected in the Penobscot R. near Howland, ME and the upper Androscoggin R. downstream from Berlin, NH.

White Sucker *(Catostomus commersonii)*

White sucker (Plate A-14) occurred at 494 of the 502 sampling sites in the NELR fish assemblage survey (Figure A-23). Along with longnose sucker, this species comprises the adult white and longnose sucker biomass based metric of the Maine IBI which is indicative of the availability of

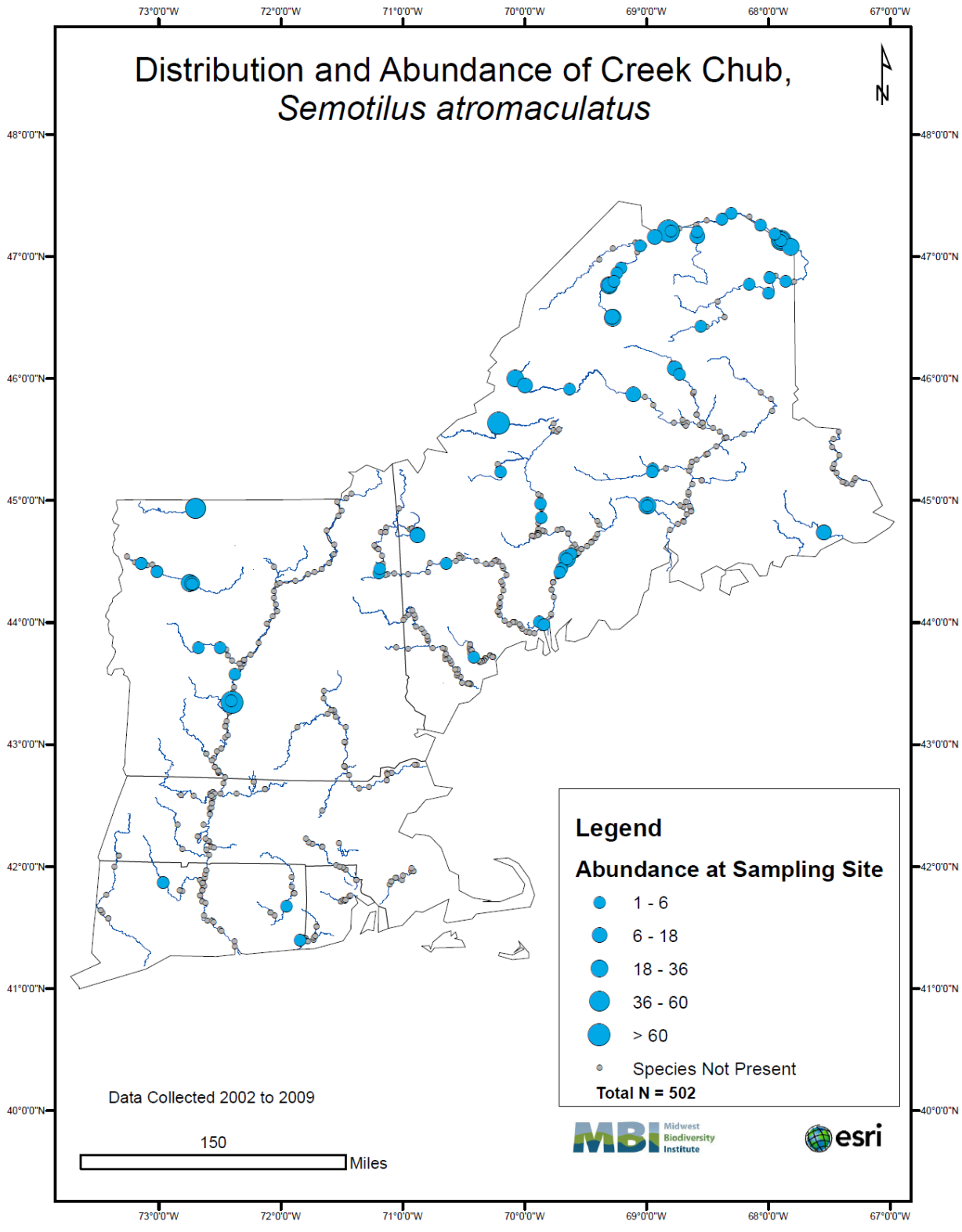


***Figure A-20**. Distribution and relative numbers of creek chub (Semotilus atromaculatus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

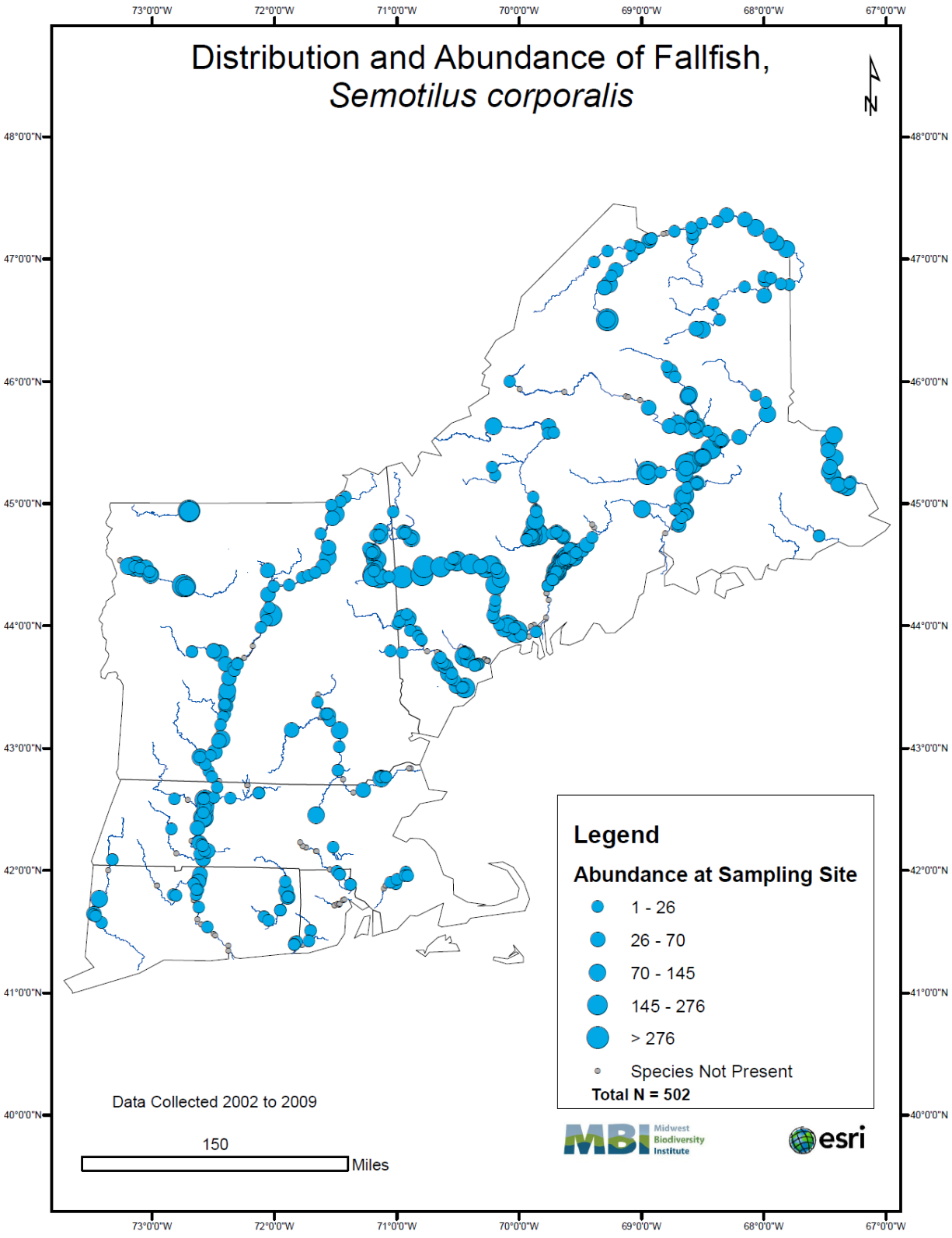


Figure A-21*. Distribution and relative numbers of fallfish (Semotilus corporalis) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

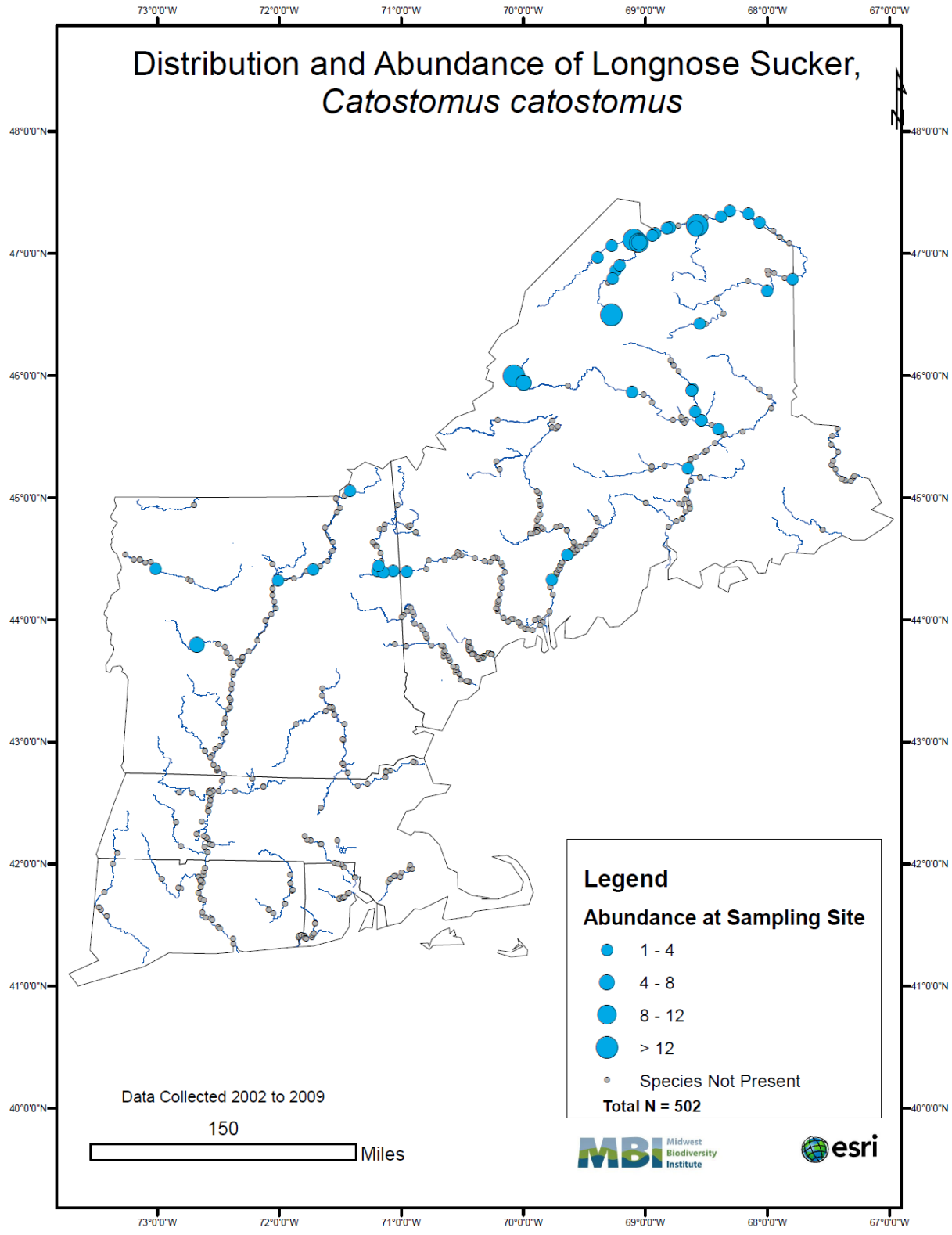


Figure A-22. *Distribution and relative numbers of longnose sucker (Catostomus catostomus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

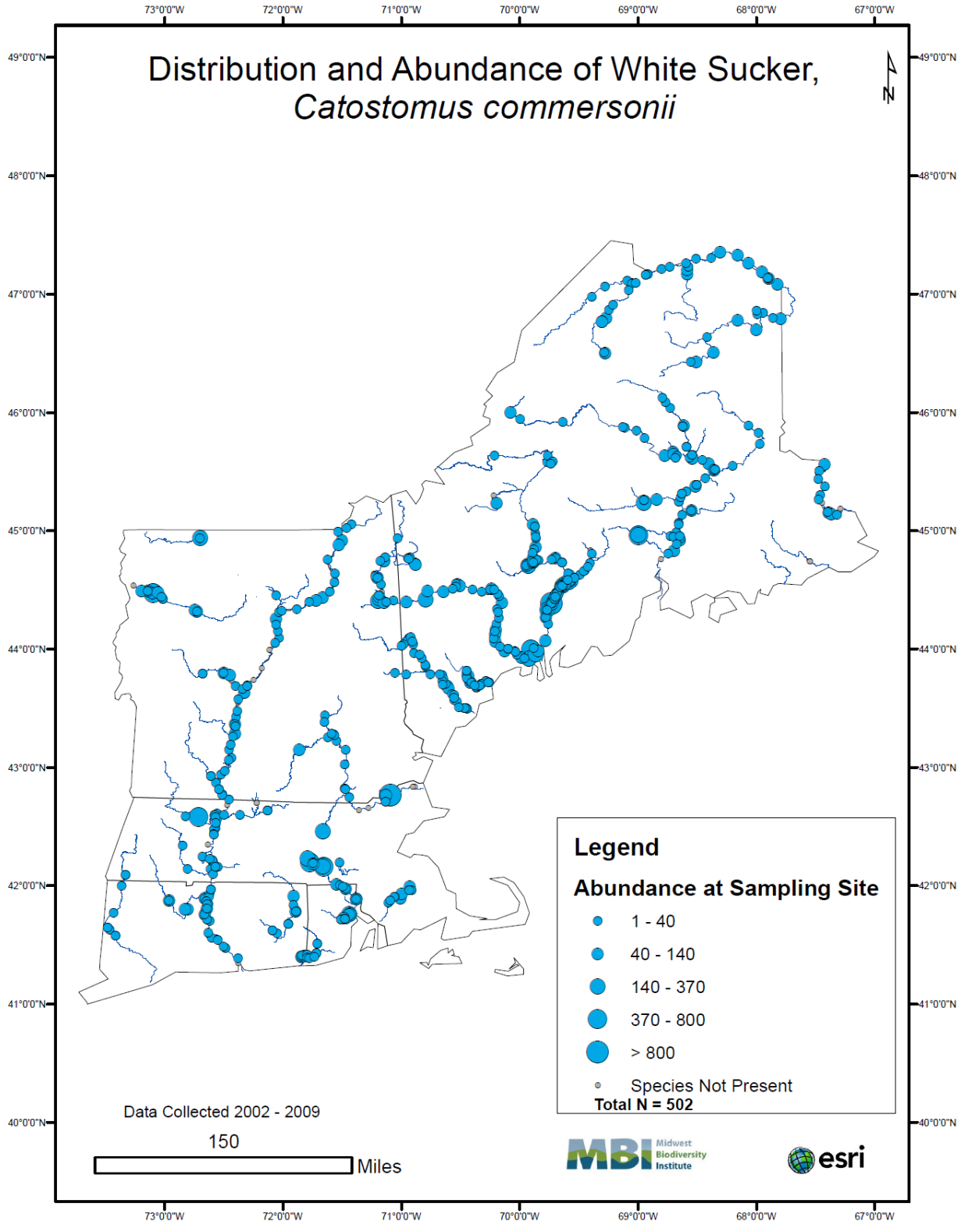


Figure A-23*. Distribution and relative numbers of white sucker (Catostomus commersonii) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

deep run habitat. Where this type of habitat was absent or underdeveloped this species tended to occur mostly as juveniles or young-of-the-year.



Plate A-13. *Longnose sucker (Catostomus catostomus) adult collected in the Penobscot R. at Howland, ME in 2004 (left) and a more typically sized individual with an eroded caudal fin collected from the St. John R. near Madawaska, ME in 2005 (right).*



Plate A-14. *Adult white sucker (Catostomus commersonii) collected in the Androscoggin R. near Jay, ME in 2003.*

Eastern Creek Chubsucker *(Erimyzon oblongus)*

Eastern creek chubsucker occurred in four river drainages in New England (Figure A-24); the upper Saco R. (ME and NH), the Wood R. (RI), the Millers R. (MA), and the Taunton R. (MA). The Old Course of the Saco River exemplified its preferred habitat having a low gradient, clear water, and abundant submergent aquatic vegetation. The individuals collected were quite large measuring more than 8-10 inches in length, larger than a typical stream specimen.

Silver Redhorse *(Moxostoma anisurum)*

Silver redhorse were collected at two locations in the lower Winooski R. below the fall line. This species is native to the Lake Champlain drainage and occurs west and south in the Great Lakes and Mississippi River basins (Langdon 2006).

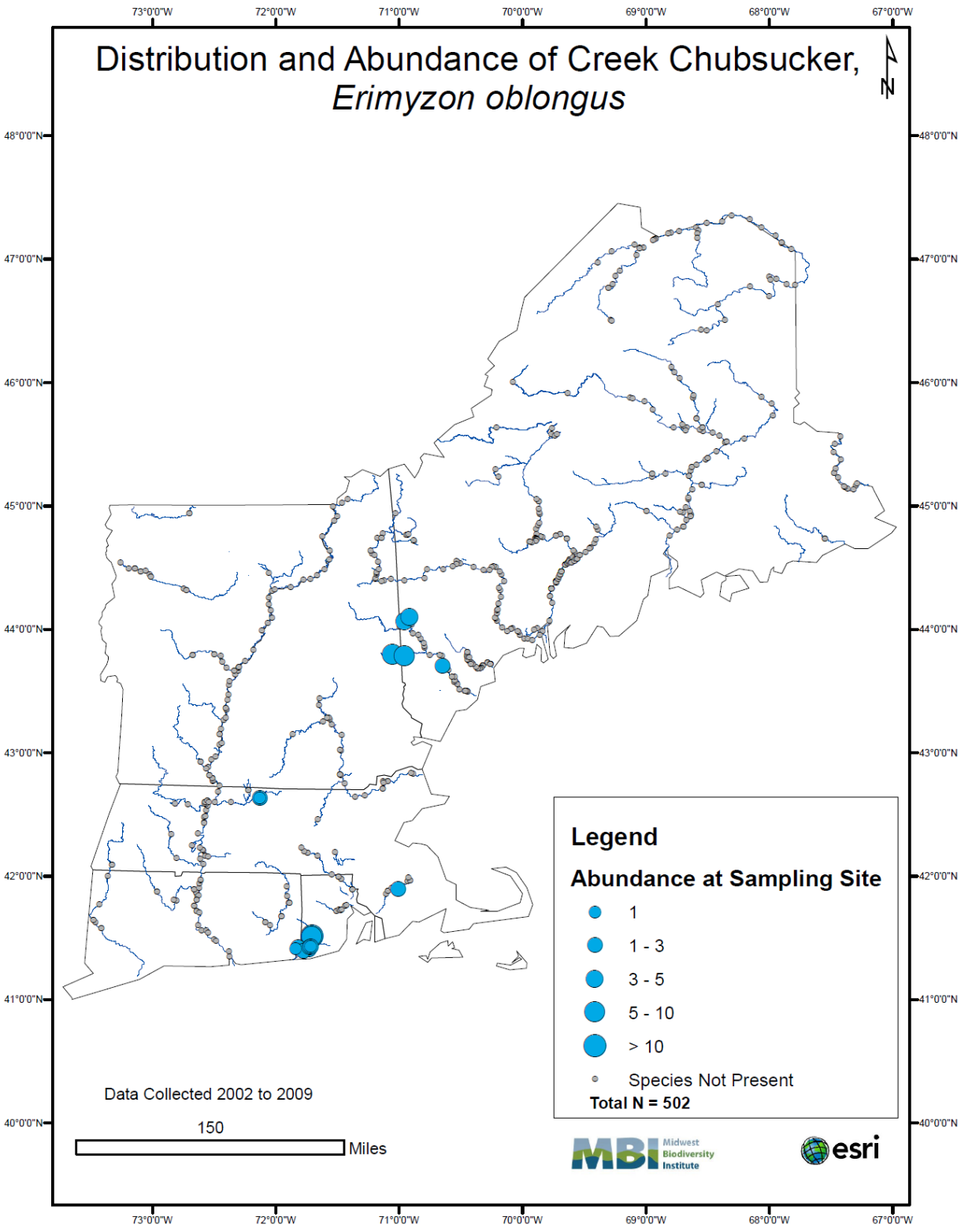


Figure A-24*. Distribution and relative numbers of Eastern creek chubsucker (Erimyzon oblongus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

Shorthead Redhorse *(Moxostoma macrolepidotum)*

Shorthead redhorse were collected at one location in the lower Winooski R. below the fall line. This species is native to the Lake Champlain drainage and occurs west and south in the Great Lakes and Mississippi River basins (Langdon 2006).

White Catfish *(Ameiurus catus)*

White catfish (Plate A-15) were found to be common in the lower Kennebec and Androscoggin Rivers and locally common in the lower Merrimack, Pawtuxet, and Pawcatuck Rivers. It also occurred sporadically in the lower Connecticut River (Figure A-25). It was introduced in southern New England in the early part of the 20th century and it has established reproducing populations (Hartel et al. 2002). Its presence in Maine illustrates the role that Merrymeeting Bay plays in harboring introduced fish species. The naturally turbid water and silty substrates are ideal for allowing tolerant generalists like white catfish to become established. Thus far the dispersal of white catfish in the Kennebec and Androscoggin Rivers has been limited by dams, but enhanced fish passage via dam removals and fish lifts could extend the range further upstream. However, water quality and cool-cold temperatures would likely limit the extent of their expansion provided those conditions are maintained.



Plate A-15. *Adult white catfish (Ameiurus catus) collected in the Kennebec R. in Waterville, ME in 2002.*

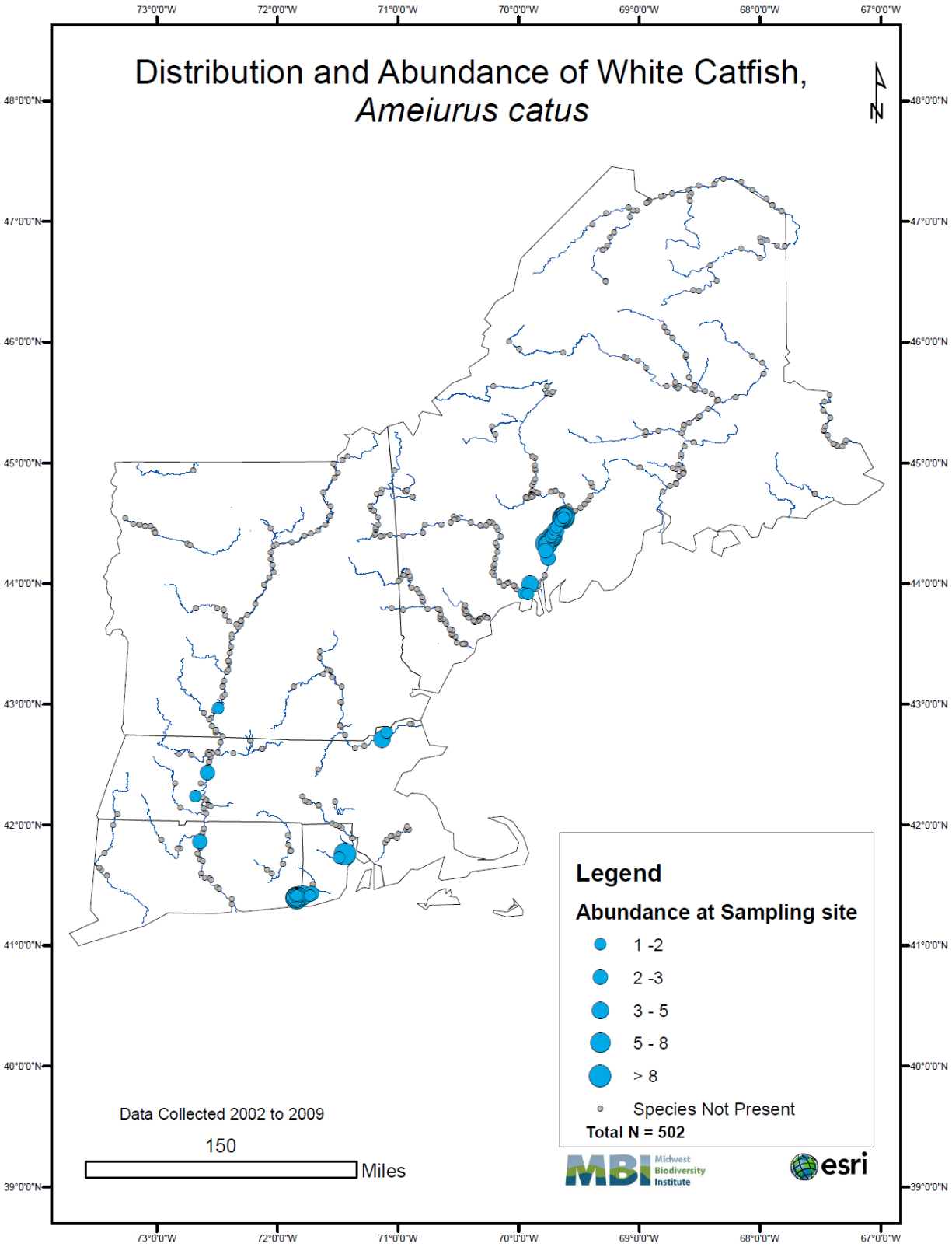


Figure A-25*. Distribution and relative numbers of white catfish (Ameiurus catus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

Yellow Bullhead *(Ameirus natalis)*

Yellow bullhead were introduced to New England Proper in the early 20th century and have become established in selected MA rivers (Hartel et al. 2002). This species was collected south of 43°N in the Merrimack, lower Connecticut, Blackstone, and Pawtuxet Rivers (Figure A-26).

Brown Bullhead *(Ameirus nebulosus)*

Brown bullhead (Plate A-16) are native to New England Proper and were generally common at NELR fish assemblage sampling sites (Figure A-27). They were the most abundant in the Allagash, lower Penobscot, Sebasticook, Ossipee, Blackstone, Pawcatuck, and Pawtuxet Rivers.



Plate A-16. *Adult brown bullhead (Ameiurus nebulosus) collected in the Kennebec R. in Waterville, ME in 2003 (upper). Ventral view showing dark pigmented barbels (lower) which distinguishes from yellow bullhead (Ameiurus natalis).*

Black Bullhead *(Ameiurus melas)*

Black bullhead were collected at three locations, two sites in the lower Connecticut (OSUM 77208) and a single site in the Taunton R. Hartel et al. (2002) confirm a single specimen from MA waters, but most previous claims were attributed to misidentified brown bullheads.

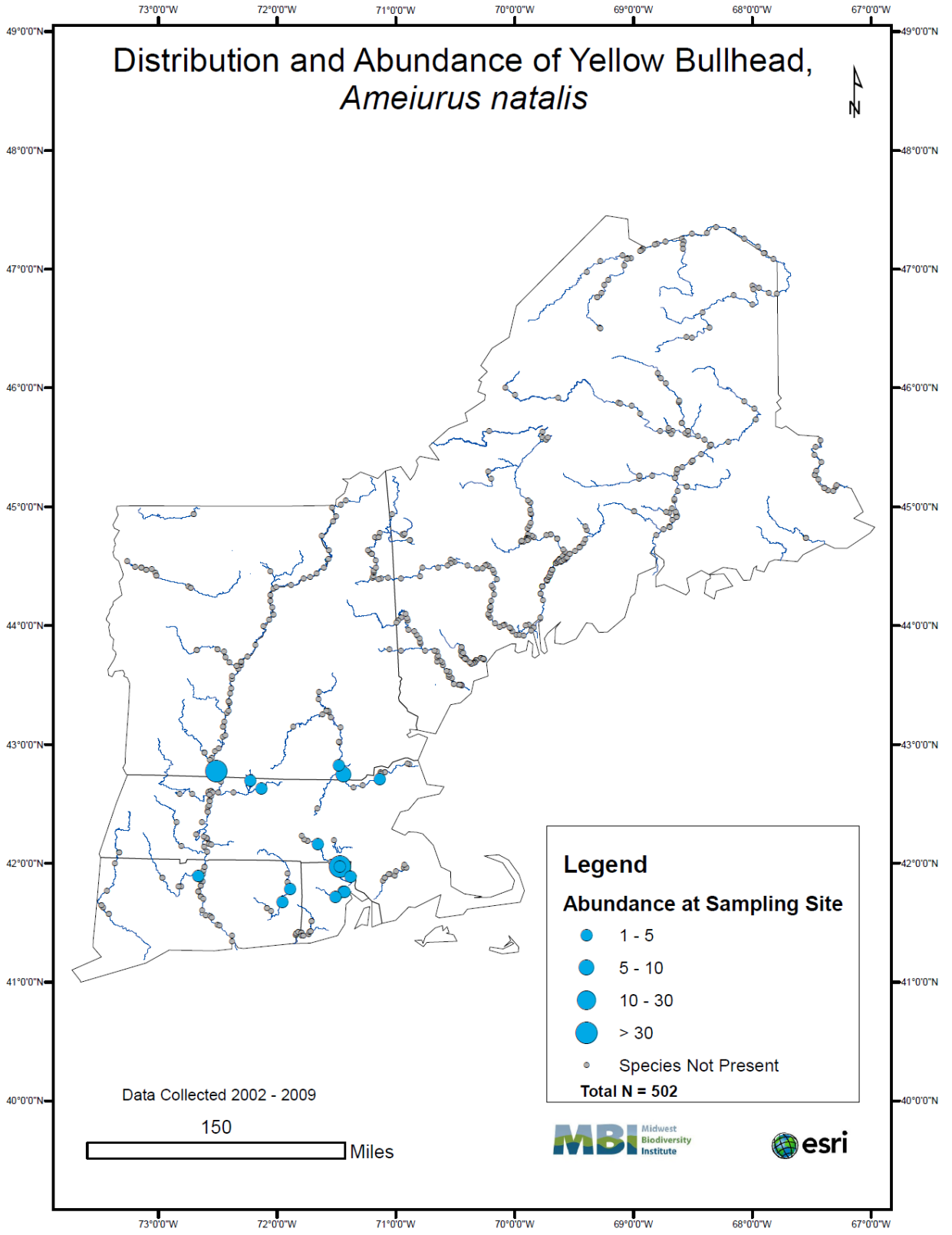


Figure A-26*. Distribution and relative numbers of yellow bullhead (Ameiurus natalis) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

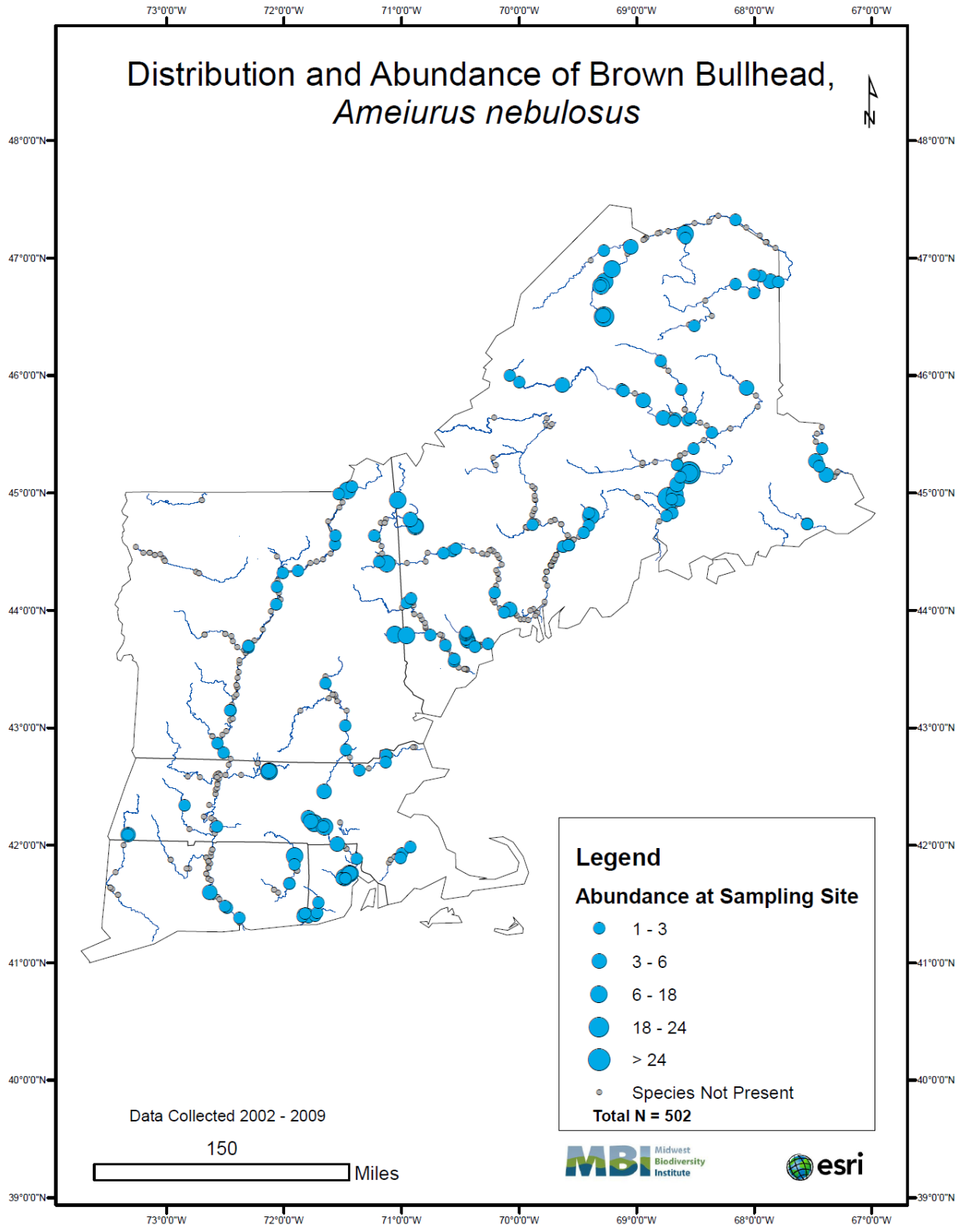


Figure A-27. *Distribution and relative numbers of brown bullhead (Ameiurus nebulosus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

Tadpole Madtom *(Noturus gyrinus)*

Tadpole madtom were collected only from the Merrimack R. in NH. Hartel et al. (2002) attribute occurrences of this species as introductions in MA, but also stated it was possible that the NH populations are disjunct relict populations of the Atlantic coastal plain population. It is listed in Table 7 as introduced and of intracontinental origin.

Margined Madtom *(Noturus insignis)*

Margined madtom were collected at multiple locations in the Merrimack R. and one location in the Contoocook R. in NH (Figure A-28). It is also considered as introduced in New England Proper (Hartel et al. 2002) with the possibility that the NH population is a disjunct relict of the Atlantic coastal plain population. It is listed in Table 7 as introduced of intracontinental origin.

Muskellunge *(Esox masquinongy)*

Muskellunge (Plate A-17) were mostly collected in the St. John R. where they have become firmly established (Figure A-29). It was also found at one location in the Housatonic R. The presence of this introduced species in Maine resulted from fish stocked in Lake Frontiere, Quebec that gained access to the St. John R. drainage in the 1960s. They are now firmly established in the upper lakes and mainstem of the St. John River. Efforts are being made to restrict this species from entering the Allagash and Fish Rivers where it is presently blocked by natural barriers. Hartel et al. (2002) described extensive stockings of hybrid muskellunge X northern pike (also known as tiger muskellunge) throughout MA. As a large piscivore, muskellunge pose a threat to native fish populations.



Plate A-17. *Adult muskellunge (Esox masquinongy) collected in the St. John R. at Ft. Kent, ME in 2005 (upper). A young-of-the-year muskellunge collected near Van Buren, ME in 2005 (lower).*

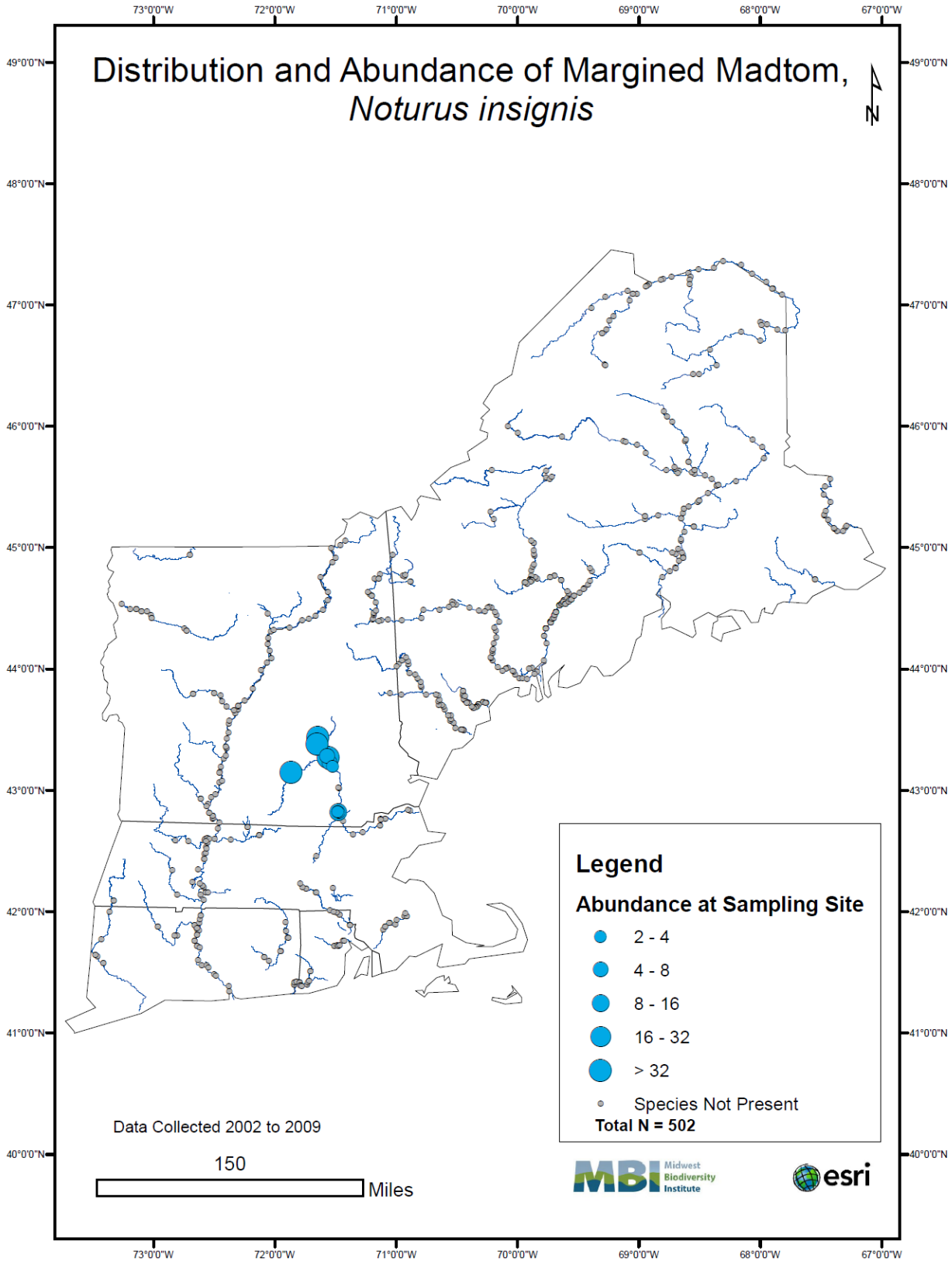


Figure A-28*. Distribution and relative numbers of margined madtom (Noturus insignis) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

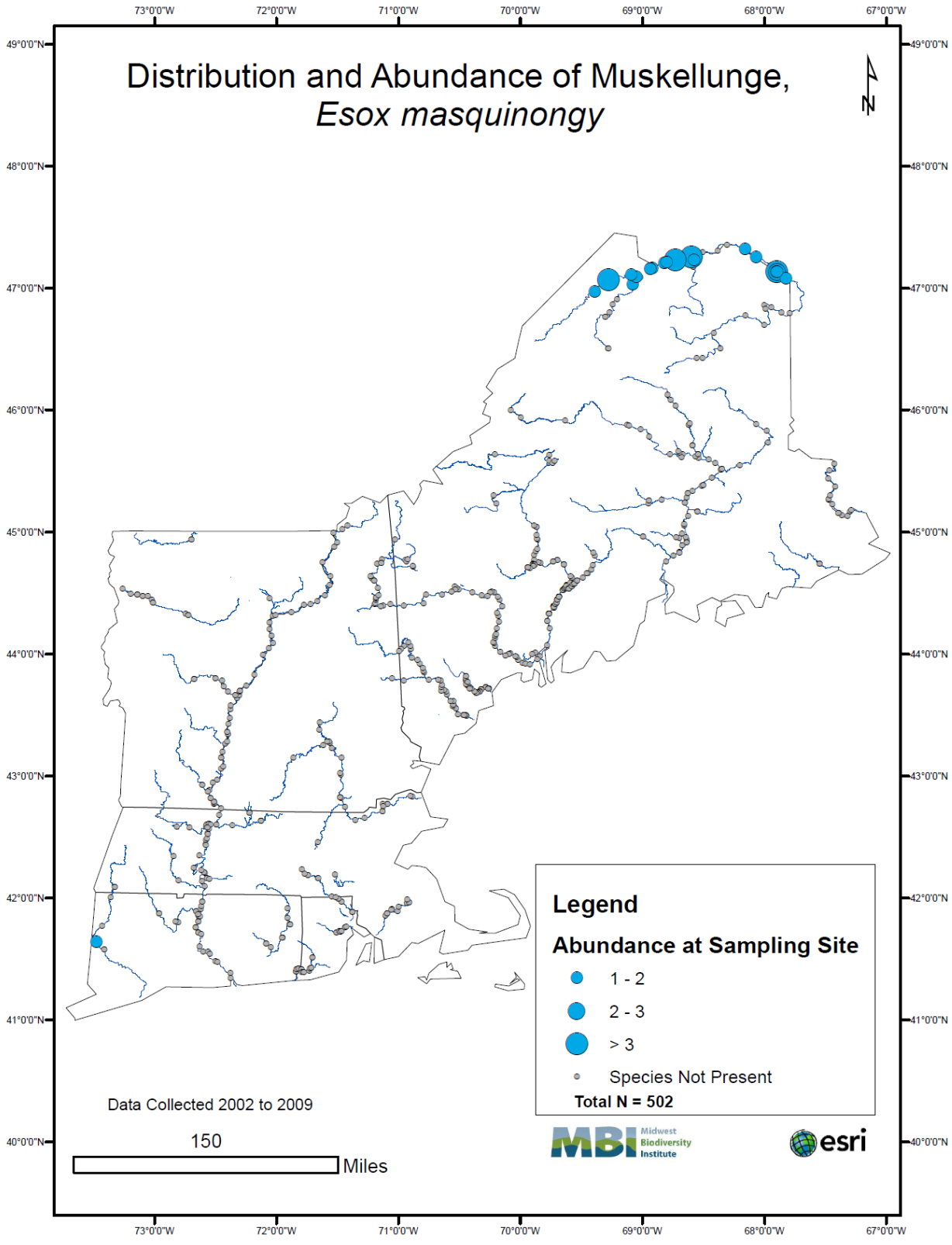


Figure A-29*. Distribution and relative numbers of muskellunge (Esox masquinongy) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

Northern Pike *(Esox lucius)*

Northern pike (Plate A-18) are a non-native species in New England Proper being introduced as a sport species at various times since the mid-19th century (Hartel et al. 2002). They were collected in the NELR survey at numerous locations in the Connecticut River mainstem, the upper Housatonic River, and the lower Winooski River where they are native (Figure A-30). This species was also collected in the Blackstone and Merrimack Rivers and at isolated locations in the lower Androscoggin and Kennebec Rivers in Maine. The Maine collections are of the most recent origin and emanate from illegal stockings in the Belgrade Lakes in the 1970s. Once established there they entered the Kennebec River via Mesalonskee Stream. Northern pike were also collected in the lower Sebasticook River following the removal of the Ft. Halifax dam raising concerns about their spread into the tributaries and lakes of the Sebasticook drainage. The Androscoggin collections likely emanated from stockings made in Sabattus Lake which made their way to the Androscoggin via Sabattus Stream. One of the more significant collections was at the mouth of the impounded Sabattus Stream (Livermore Falls dam) which



Plate A-18. *Adult northern pike (Esox lucius) collected in the Connecticut R. at N. Walpole, NH in 2008 (upper). Juvenile northern pike collected in the Sebasticook R. below Benton Falls, ME in 2011 (lower).*

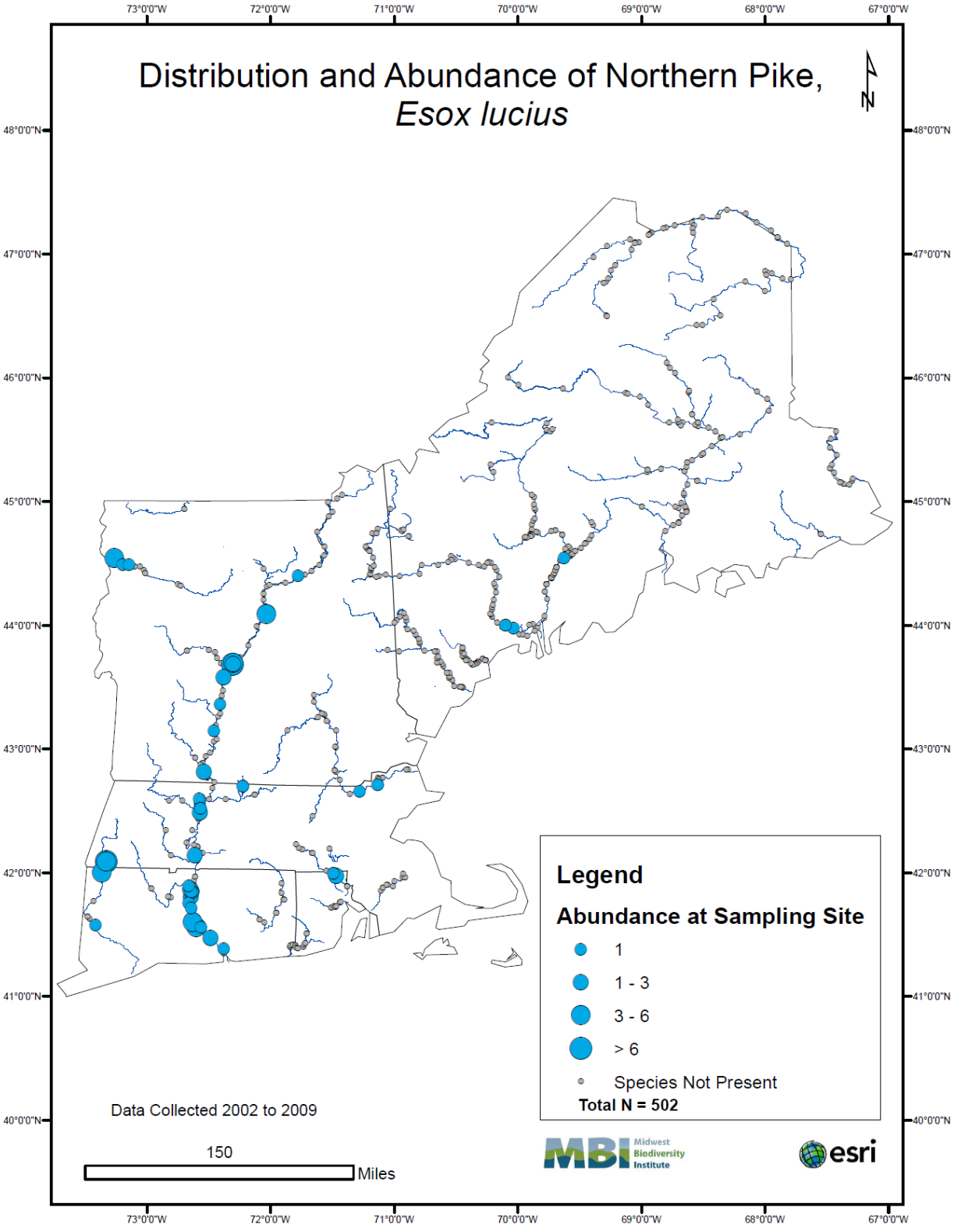


Figure A-30*. Distribution and relative numbers of northern pike (Esox lucius) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

which offers ideal habitat for northern pike. The collection of at least three year classes at this location is evidence of successful reproduction. Efforts are being made in Maine to eradicate northern pike.

Chain Pickerel *(Esox niger)*

Chain pickerel (Plate A-19) are one of only two native Escocids in New England Proper. Native to portions of southern New England they have been widely stocked outside of their original range (Hartel et al. 2002). In the NELR survey this species occurred generally south of latitude 46^{o}N where they preferred warmer, low gradient riverine habitats (Figure A-31). It was not collected in the Lake Champlain tributaries in Vermont. This species was common to numerous in most of the major rivers in Maine, New Hampshire, Massachusetts, and Rhode Island that offered their preferred habitat.



Plate A-19. *Adult chain pickerel (Esox niger) collected in the Penobscot R. at Orono, ME in 2004.*

Redfin Pickerel *(Esox americanus)*

Redfin pickerel (Plate A-20) were collected in southern New England most commonly in the Taunton, Pawtuxet, and Pawcatuck Rivers (Figure A-32). They were also collected in lesser numbers from the lower Connecticut, Farmington, Blackstone, and Merrimack Rivers. While native to parts of New England this species has been relocated outside of its indigenous range (Hartel et al. 2002).

Trout-perch *(Percopsis omiscomaycus)*

Trout-perch were restricted to the Winooski and Missisquoi Rivers in the Lake Champlain drainage of Vermont. Hartel et al. (2002) describe historical records from the Housatonic drainage in Massachusetts, but none were collected in the NELR surveys.

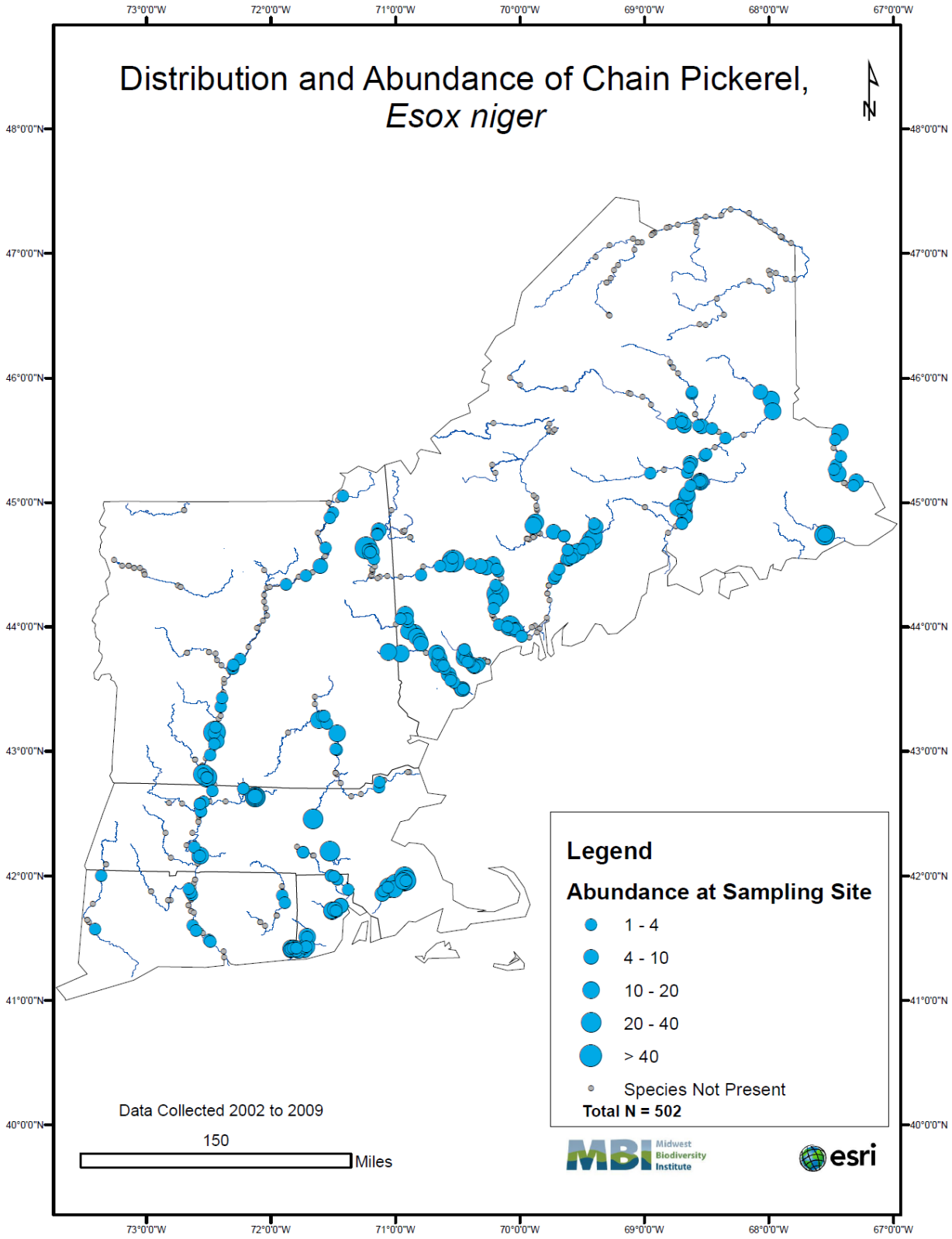


Figure A-31*. Distribution and relative numbers of chain pickerel (Esox niger) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

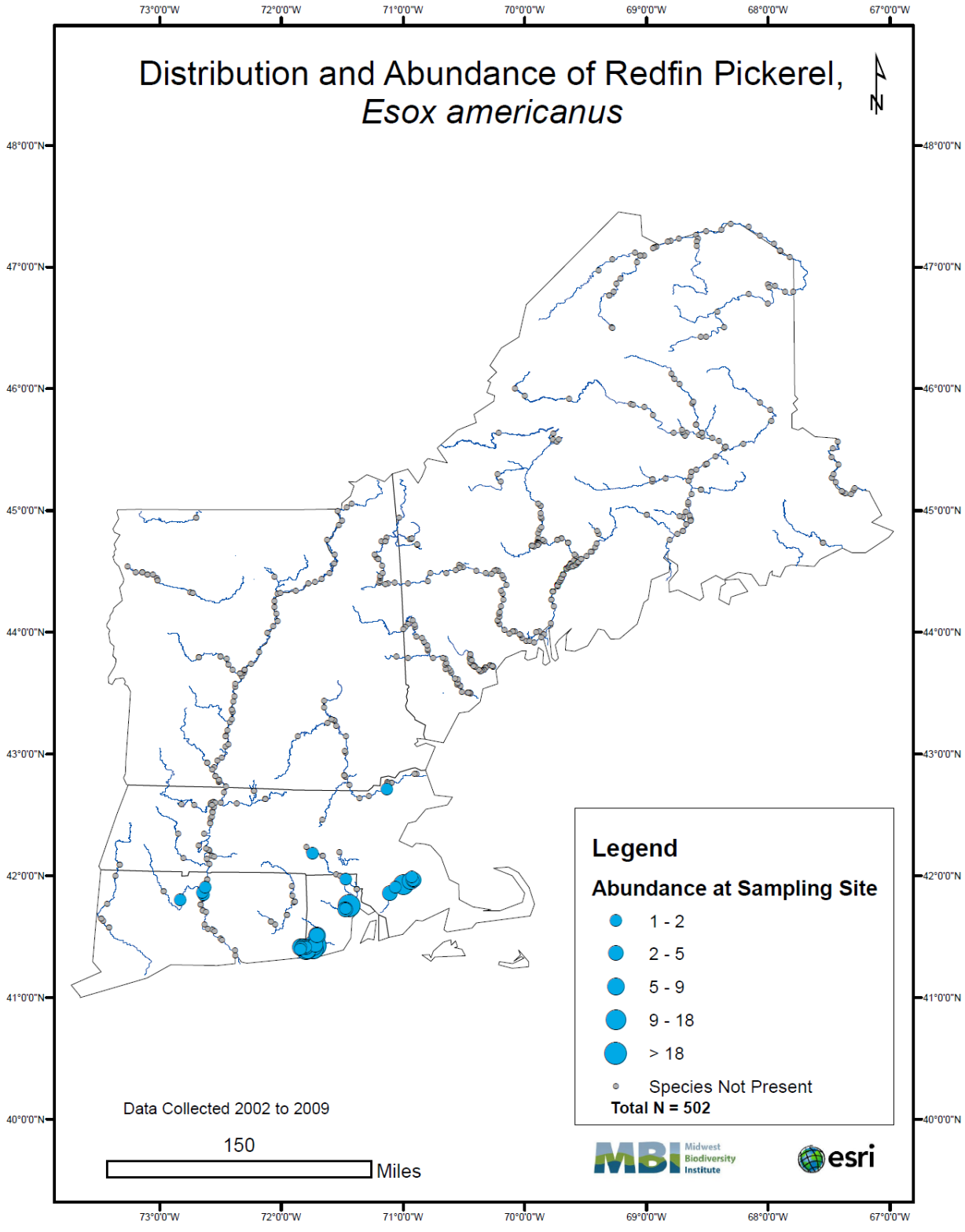


Figure A-32*. Distribution and relative numbers of redfin pickerel (Esox vermiculatus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*



Plate A-20. *Redfin pickerel (Esox vermiculatus) collected in the Taunton R. near Bridgewater, MA in 2008.*

Central Mudminnow *(Umbra limi)*

Central mudminnows were collected in the Connecticut River close to the confluence with the Farmington River. Hartel et al. (2002) describe other occurrences farther north in Massachusetts and that their introduction likely originated from the release of laboratory specimens at the University of Massachusetts in Amherst, MA. A single individual was also collected in the St. John R. at Ft. Kent, Maine and was likely the result of a bait bucket release.

Rainbow Smelt *(Osmerus mordax)*

Rainbow smelt were collected at six widely dispersed and isolated locations in Maine. They are native to New England Proper as an anadromous species that enters freshwater streams and rivers to spawn. Once numerous during their spring runs, the occurrence of smelt has declined due to declining water quality and dams (Hartel et al. 2002). They are widely stocked as forage for trout and salmon and landlocked populations exist especially in lakes that are managed for Salmonids.

Rainbow Trout *(Oncorhynchus mykiss)*

Rainbow trout (Plate A-21) are an introduced species of intracontinental origin that were collected in clusters of river segments primarily in western Maine, northern New Hampshire, central Vermont, and as far south as southwestern Rhode Island (Figure A-33). They were not collected *north* of latitude 45^{o}N where most of the native stenothermic species occurred. This species is widely stocked for recreational fishing and in areas where neither annual survival nor reproduction are expected. Naturalized populations occur sporadically throughout their above

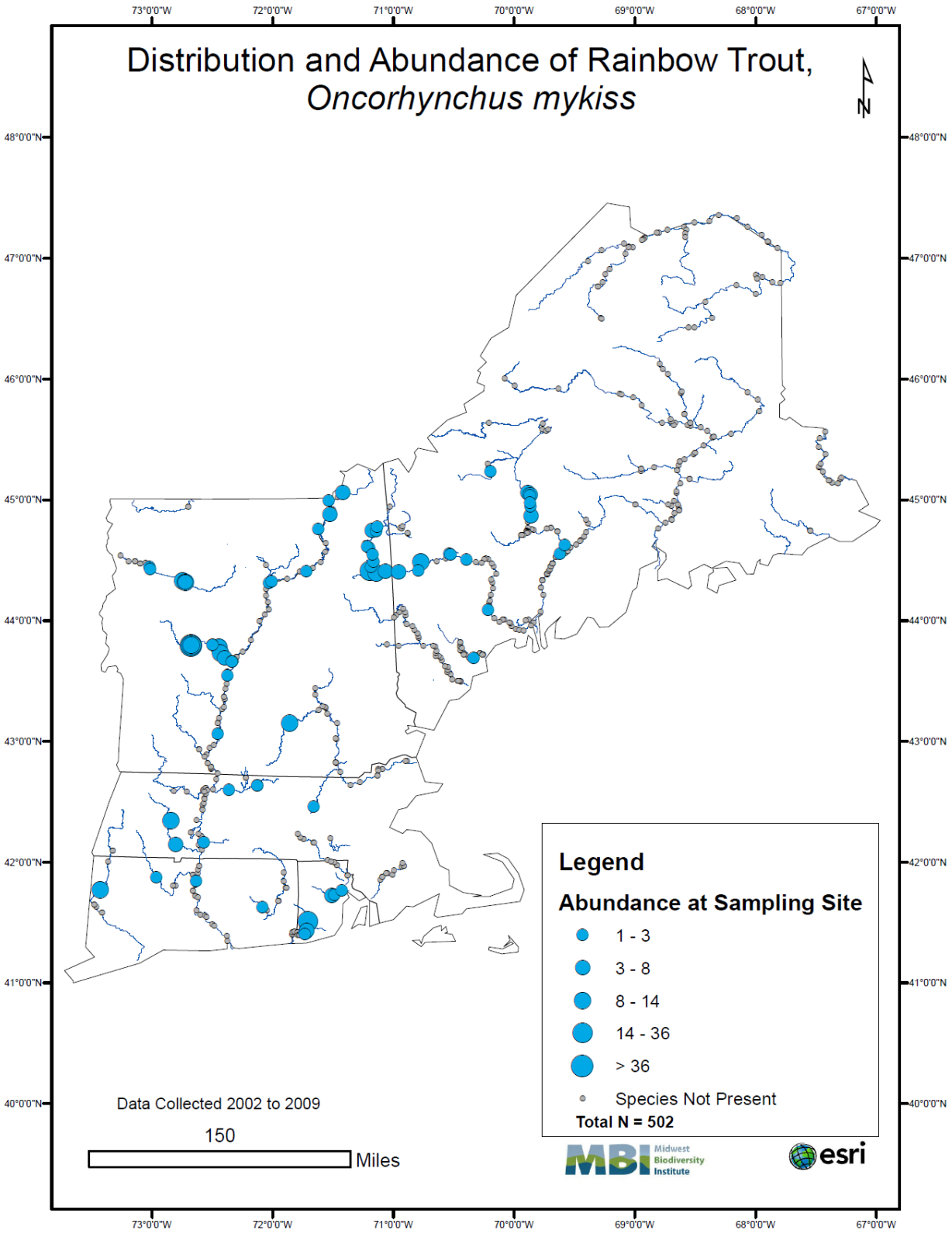


***Figure A-33**. Distribution and relative numbers of rainbow trout (Oncorhynchus mykiss) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*



Plate A-21. *Rainbow trout (Oncorhynchus mykiss) collected in the Androscoggin R. near Gorham, NH in 2003.*

described range and in rivers that are cold enough to support their life history requirements. This included the upper Androscoggin, upper Connecticut, upper Winooski, and White Rivers.

Atlantic Salmon *(Salmo salar)*

Atlantic salmon (Plate A-22) collected in the NELR survey included both the sea run and "landlocked" forms, the latter of which has been stocked extensively throughout New England. The distribution map for this species in the NELR survey separates sea run from hatchery origin fish (Figure A-34). In the earlier years of the NELR sampling hatchery origin fish were collected in rivers where sea run fish historically occurred and efforts to restore the latter in Maine have included ceasing maintenance stockings of hatchery origin fish. Collections of sea run fish were largely restricted to the Kennebec and Penobscot Rivers in Maine with single collections in the lower Saco and Connecticut Rivers.

Brown Trout *(Salmo trutta)*

Brown trout (Plate A-23) exhibited a geographic distribution in New England similar to rainbow trout (Figure A-35). This introduced species of intercontinental origin has likewise been widely stocked for recreational fishing. Similar to rainbow trout, this species was not collected *north* of latitude 45^{o}N where most of the native stenothermic species occurred. Likewise, it is widely stocked for recreational fishing and in areas where neither annual survival nor reproduction are expected. Emaciated individuals were collected in annual surveys of the lower Kennebec River that are evidence of the lack of annual carryover when thermal conditions are not satisfactory. Naturalized populations occur sporadically throughout their above described range and in rivers



Plate A-22. *Atlantic salmon (Salmo salar) of hatchery origin collected in the Androscoggin R. near Gorham, NH in 2003 (upper) and of sea run origin collected in the lower Penobscot River below the Great Falls dam in 2003.*

that are cold enough to support their life history requirements. This included the upper Androscoggin, upper Kennebec, upper Connecticut, upper Winooski, and White Rivers.

Brook Trout *(Salvelinus fontinalis)*

Brook trout (Plate A-23) are one of three native Salmonids that occurred in the NELR surveys (Figure A-36). Naturally reproducing populations occurred primarily north of 44-45^{o}N, but isolated populations south of this latitude were observed. This species occurs in smaller streams further south than they do in non-wadeable rivers in which they historically occurred, but from which they have been extirpated due to thermal and hydrological modifications. The populations in the upper Connecticut, upper Androscoggin, upper Kennebec, upper Penobscot, Androscoggin, and Allagash drainages are remnants. Even in these more northerly rivers brook trout need thermal refuges when mainstem temperatures warm above their preferred temperature range of 15-16^{o}C and certainly above their upper avoidance temperature of ≈20^{o}C. Evidence for this was observed in the Aroostook River where adults were collected only in the plumes of cold tributaries and seeps. One of these small tributaries harbored tens of young-of-the-year brook trout in a pool that was no more than one square meter and which

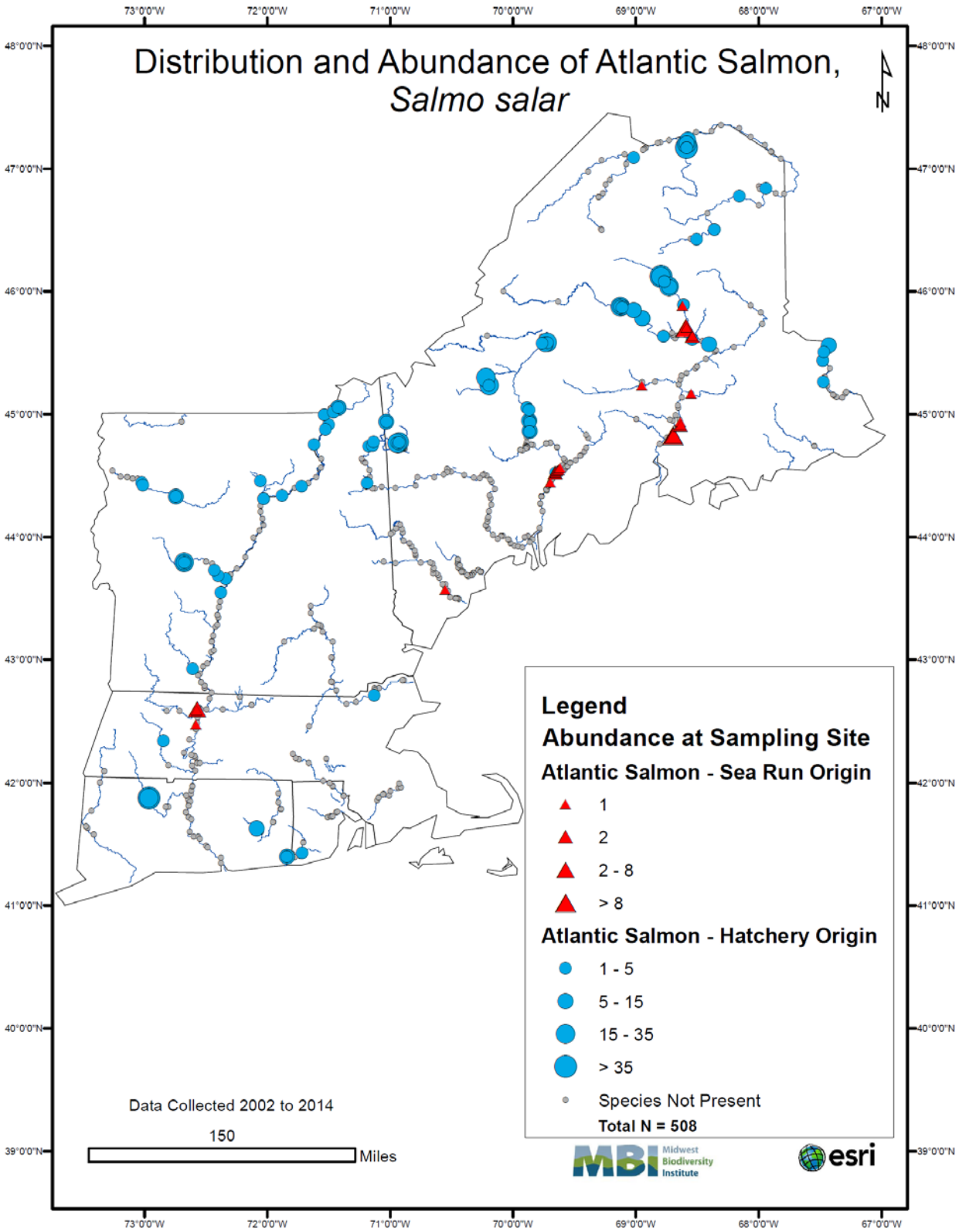


Figure A-34*. Distribution and relative numbers of Atlantic salmon (Salmo salar) collected at NELR fish sampling sites, 2002-9. Round symbols are of hatchery origin and triangles are sea run origin. Symbol size reflects ranges of relative numbers.*

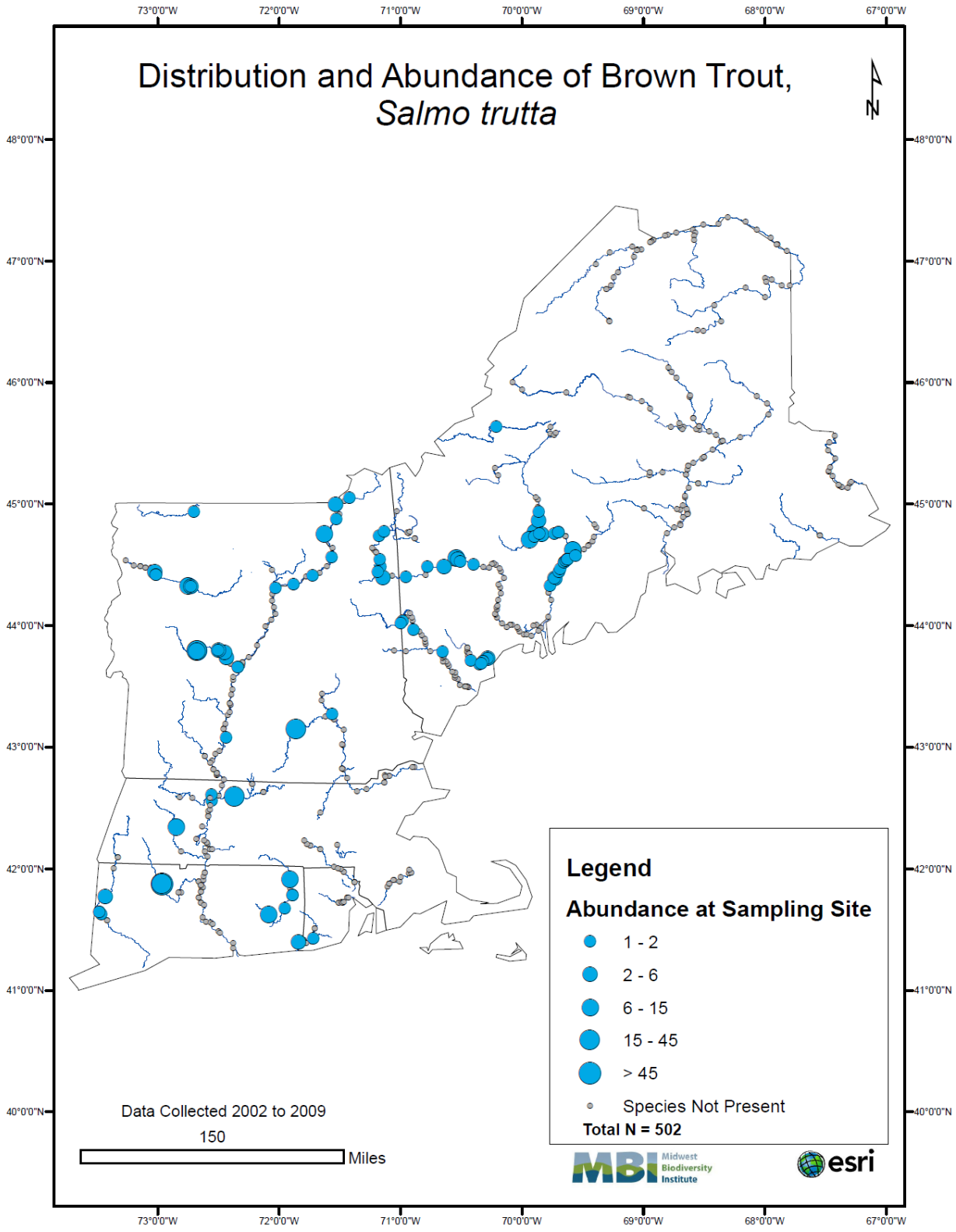


Figure A-35*. Distribution and relative numbers of brown trout (Salmo trutta) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

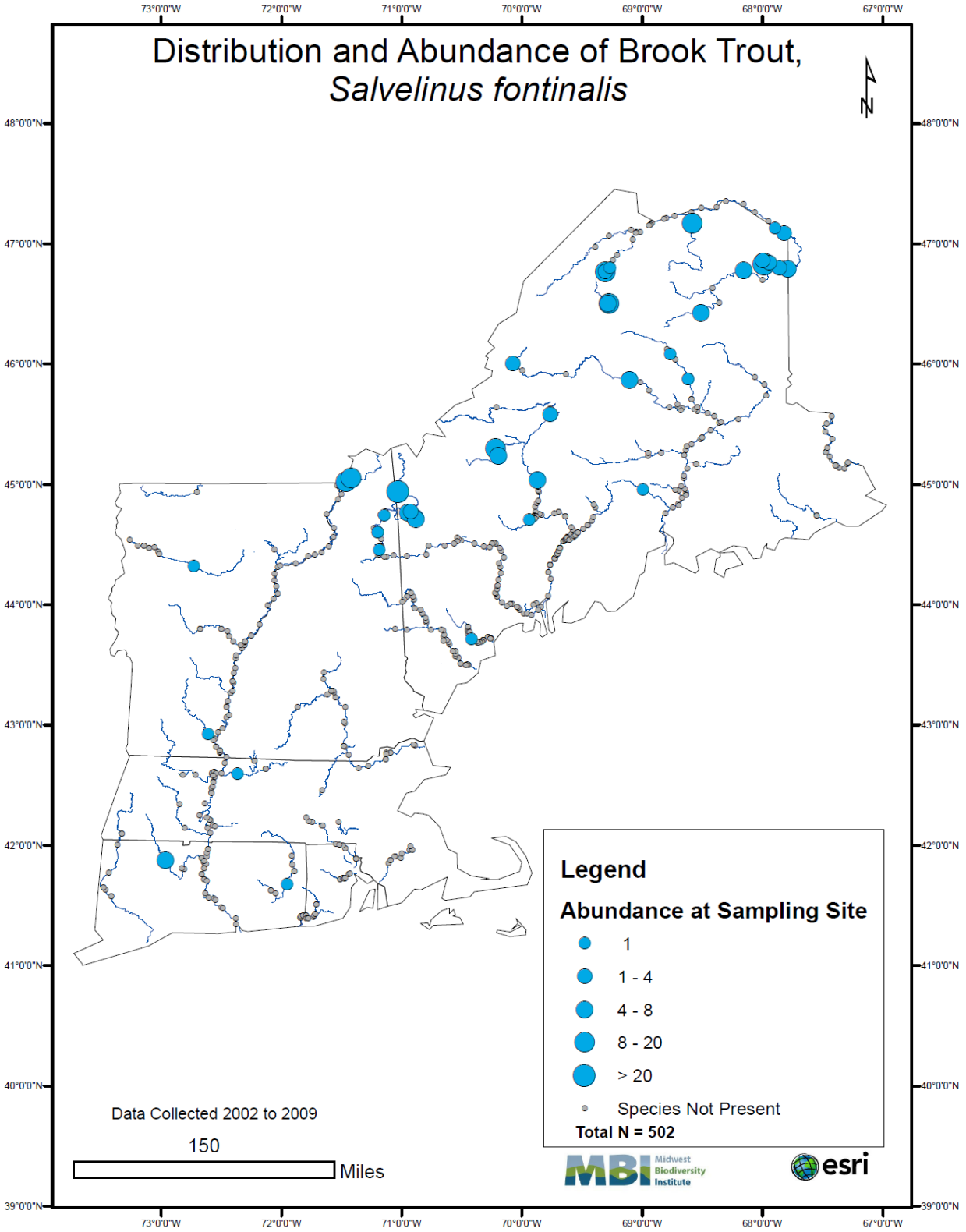


***Figure A-36**. Distribution and relative numbers of brook trout (Salvelinus fontinalis) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*



Plate A-23. *Brook trout (Salvelinus natalis) of native origin collected in the Rapid R. below Lower Richardson Lake (ME) in 2007 (upper) and young-of-the-year collected in an isolated spring next to the Aroostook River near Washburn, ME in 2005.*

was isolated from the mainstem (Plate A-24). In another instance, ≈100 adult brook trout were observed in the mouth of another small tributary (Plate A-24) that was impounded by the Caribou Dam. These fish were isolated by warm temperatures in the impounded mainstem and a collapsed railroad culvert approximately 100 meters upstream. Brook trout are also stocked for recreational fishing and in New England rivers where neither annual survival nor reproduction are expected.

Round Whitefish *(Prosopium cylindraceum)*

Round whitefish (Plate A-25) are one of the three native Salmonids collected in the NELR surveys. This species is a native, temperate stenotherm that was collected only in the northernmost portions of the Connecticut, Penobscot, Allagash, and St. John Rivers (Figure A-37).



Plate A-24. *Isolated brook trout refuges in the Aroostook River. Upper left is an isolated pool near Washburn, ME (upper left) where numerous young-of-the-year brook trout were observed and which is seasonally disconnected from the mainstem (upper right). An impounded and restricted tributary upstream from Caribou, ME in 2005 where ≈100 adults were observed (lower left) and which is blocked downstream by warm river temperatures and upstream by an impassable railraod culvert (lower right).*

Burbot *(Lota lota)*

Burbot (Plate A-26) are a native temperate stenotherm that occurred primarily north of latitude 44^{o}N (Figure A-38). This species was most abundant in the St. John and Aroostook Rivers in northern Maine and it was considered part of the cool-cold river native riverine fish assemblage. It was generally absent outside of Maine and northern New Hampshire with the exception of one location of the upper Merrimack River.

Atlantic Tomcod *(Microgadus tomcod)*

Atlantic tomcod are an estuarine species that occurred only in the tidal influenced portions of the Presumpscot and Pawcatuck Rivers in the NELR collections.

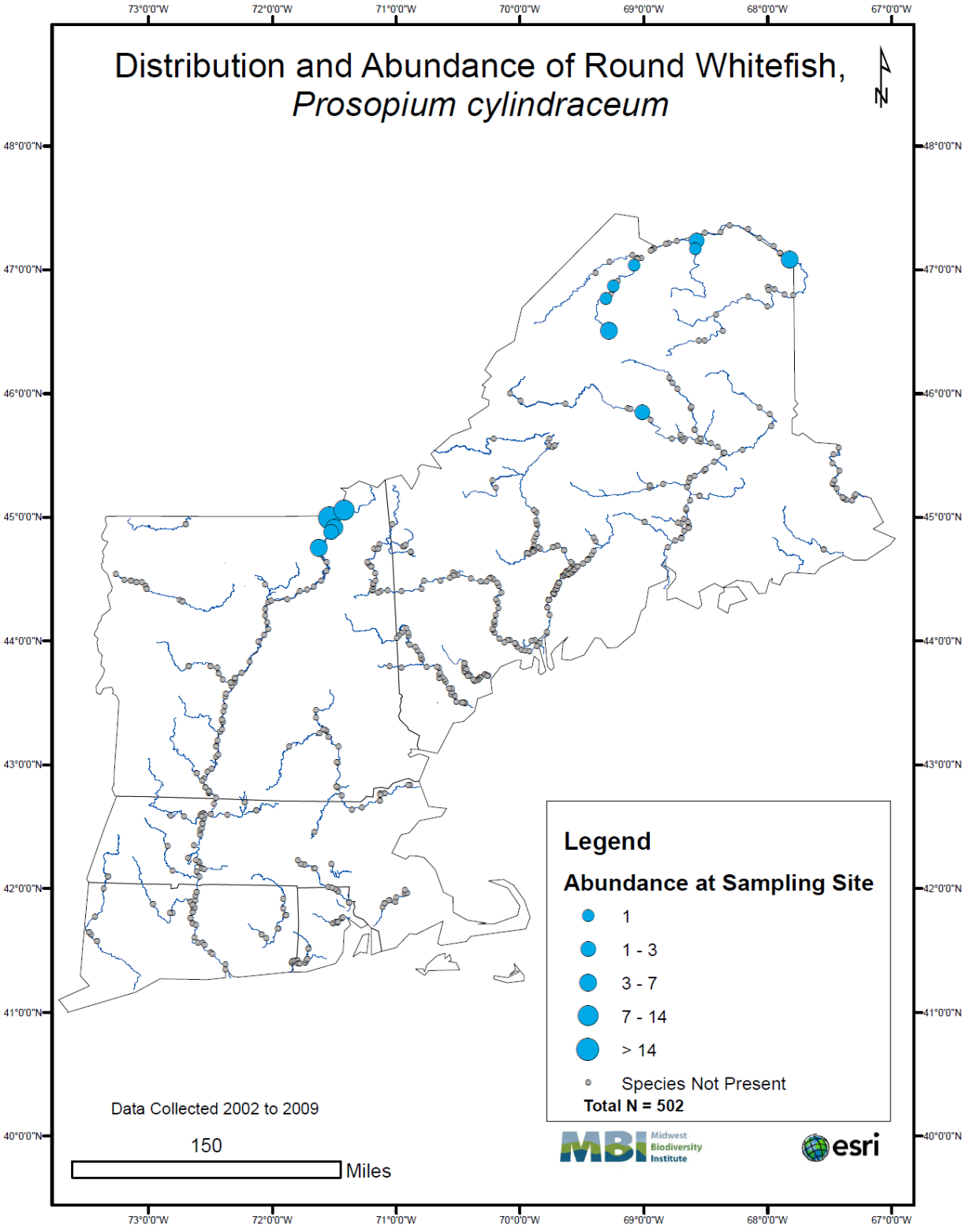


Figure A-37*. Distribution and relative numbers of round whitefish (Prosopium cylindraceum) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

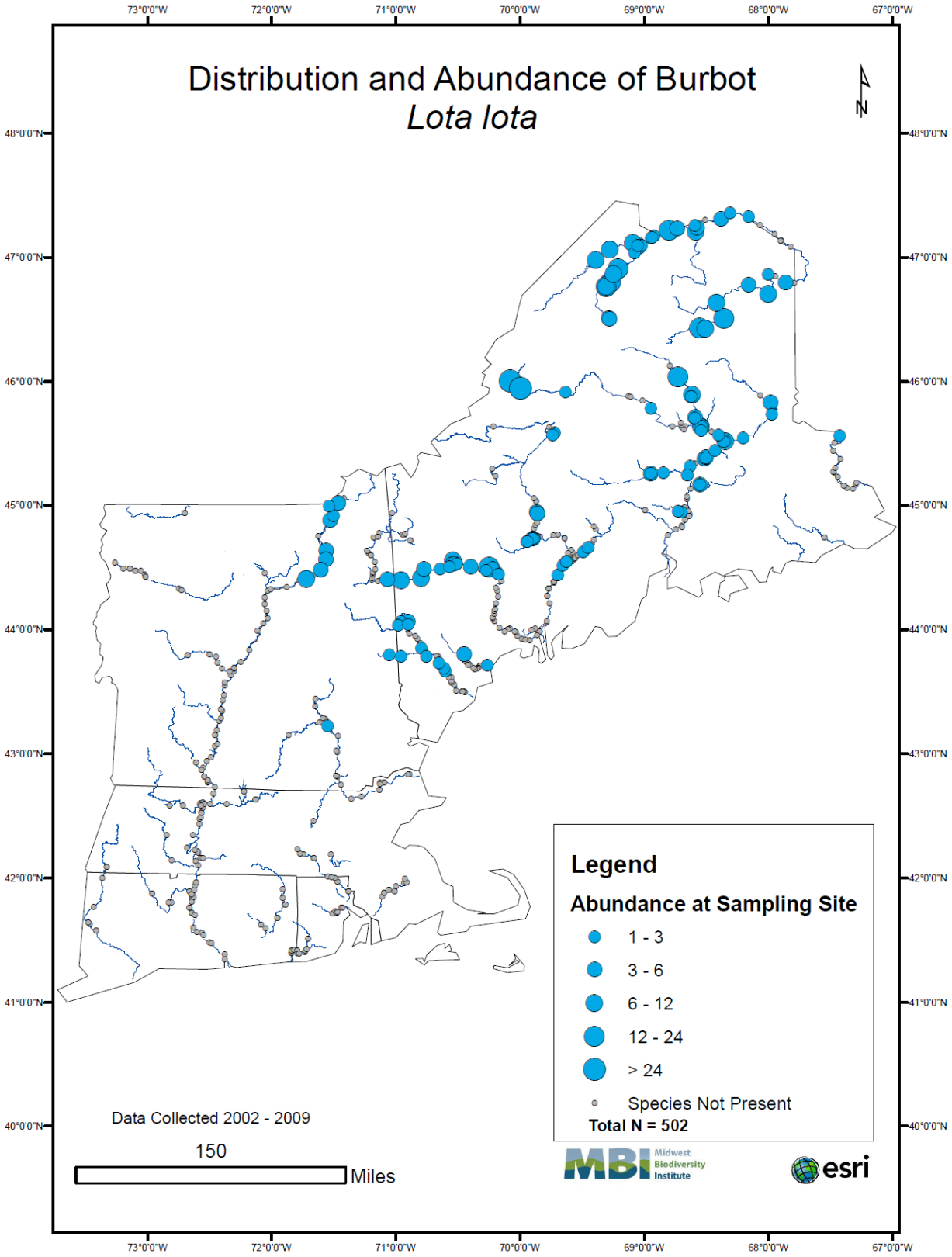


***Figure A-38**. Distribution and relative numbers of burbot (Lota lota) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*



Plate A-25. *Adult round whitefish (Prosopium cylindraceum) collected in the West Branch Penobscot River below Nesowadnahunk Falls in 2004 (upper) and a juvenile collected in the Allagash River below Round Pond in 2005.*



Plate A-26. *Burbot (Lota lota) collected in the Androscoggin River above Jay, ME in 2003.*

Banded Killifish *(Fundulus diaphanus)*

Banded killifish (Plate A-27) were collected across New England being commonly encountered in the Kennebec, lower Penobscot, lower Connecticut, and Taunton Rivers (Figure A-39). It also occurred at scattered locations in many other NELR rivers and across all latitudes.

Mummichog *(Fundulus heteroclitus)*

Mummichog (Plate A-27) are an inhabitant of brackish and salt waters in coastal marshes and estuaries and will enter tidal freshwaters on occasion. This species occurred most commonly in Merrymeeting Bay and the tidal freshwater sections of the Androscoggin and Kennebec Rivers and at single locations in the lower reaches of the Presumpscot, Merrimack, Taunton, and Connecticut Rivers.

Inland Silverside *(Menidia beryllina)*

Inland silverside were collected at five NELR locations including the lower Connecticut, Taunton (OSUM 109231, 109261), Merrimack Rivers and Merrymeeting Bay. This marine species occurs in tidal freshwaters and more frequently than does Atlantic silverside *(Menidia menidia)* with which it can be confused.

Brook Stickleback *(Culea inconstans)*

Brook stickleback were collected at four widely scattered locations in the Winooski, Kennebec, and Aroostook Rivers and with no more than two individuals in any sample. It is introduced in New England Proper, but native to the Lake Champlain drainage and points west. Elsewhere it is present presumably the result of bait bucket releases.

Fourspine Stickleback *(Apeltes quadracus)*

Fourspine stickleback (Plate A-28) were collected in the lower Kennebec River between Waterville and Augusta, ME in the section that was opened to access by removal of the Edwards Dam in 1999 (Figure A-40). They also occurred at one location each in the Androscoggin and Taunton Rivers. This species principally inhabits brackish waters in brackish tidal creeks and salt marshes, but can be found in freshwater habitats well upstream (Hartel et al. 2002). The Kennebec locations were all upstream of the tidal boundary in Augusta.

Three-spine Stickleback *(Gasterosteus aculeatus)*

Three-spine stickleback (Plate A-29) were commonly collected north of latitude 46^{o}N with the exception of two locations south of this point in the upper Kennebec R. and the extreme lower Connecticut River (Figure A-41). This is one of several small species that occurred primarily where neither species of blackbass occurred (Yoder et al. 2008). Typically an inhabitant of



Plate A-27. *Banded killifish (Fundulus diaphanus; left) and mummichog (Fundulus heteroclitus; right) collected in Merrymeeting Bay near Bowdoinham, ME in 2002.*



Plate A-28. *Fourspine stickleback (Apeltes quadracus) collected in the Kennebec River near Sidney, ME in 2014.*



Plate A-29. *Ninespine stickleback (Pungitius pungitius; left) and three-spine stickleback (Gasterosteus aculeatus; right) collected in the Aroostook River near Washburn, ME in 2005.*

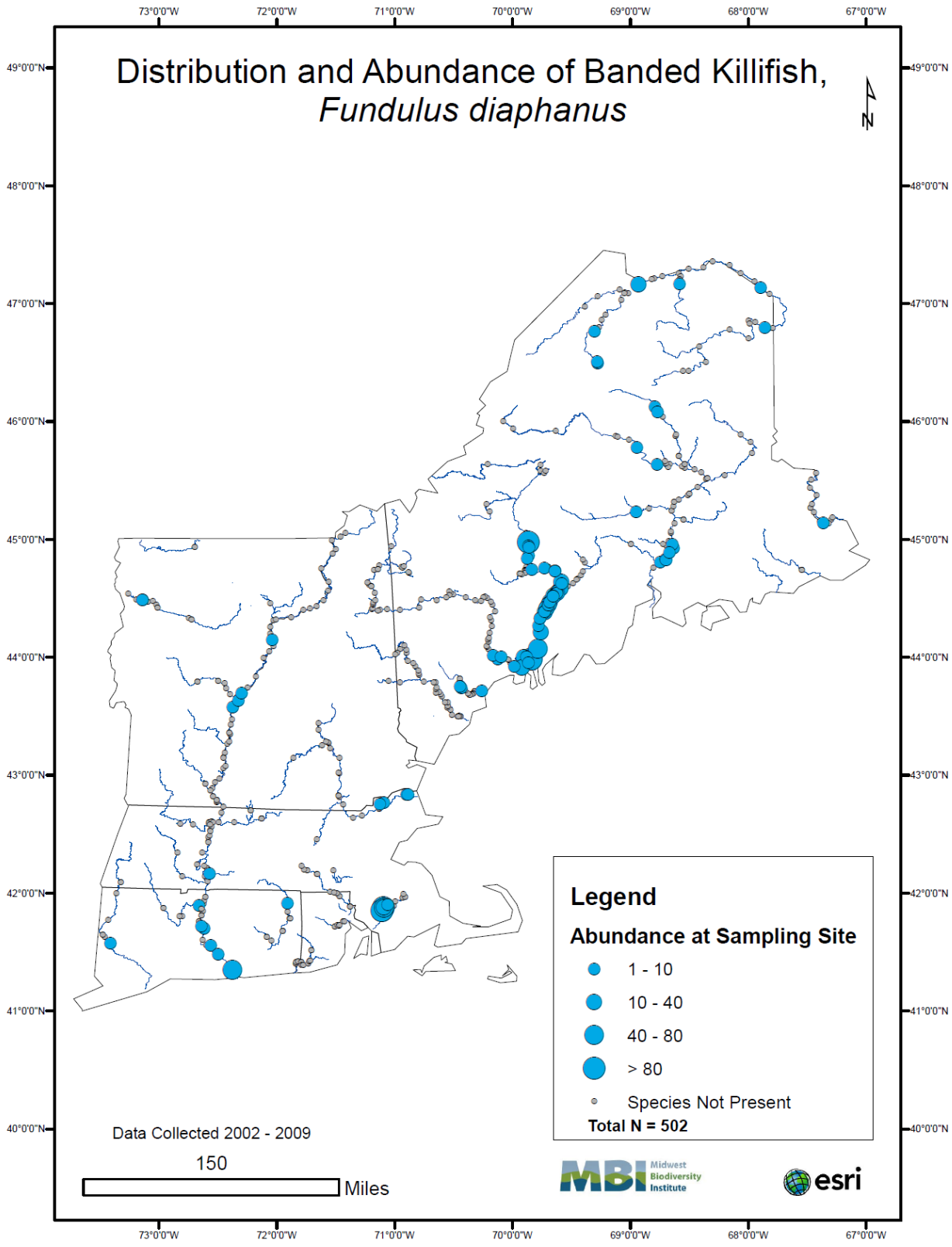


***Figure A-39**. Distribution and relative numbers of banded killifish (Fundulus diaphanus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

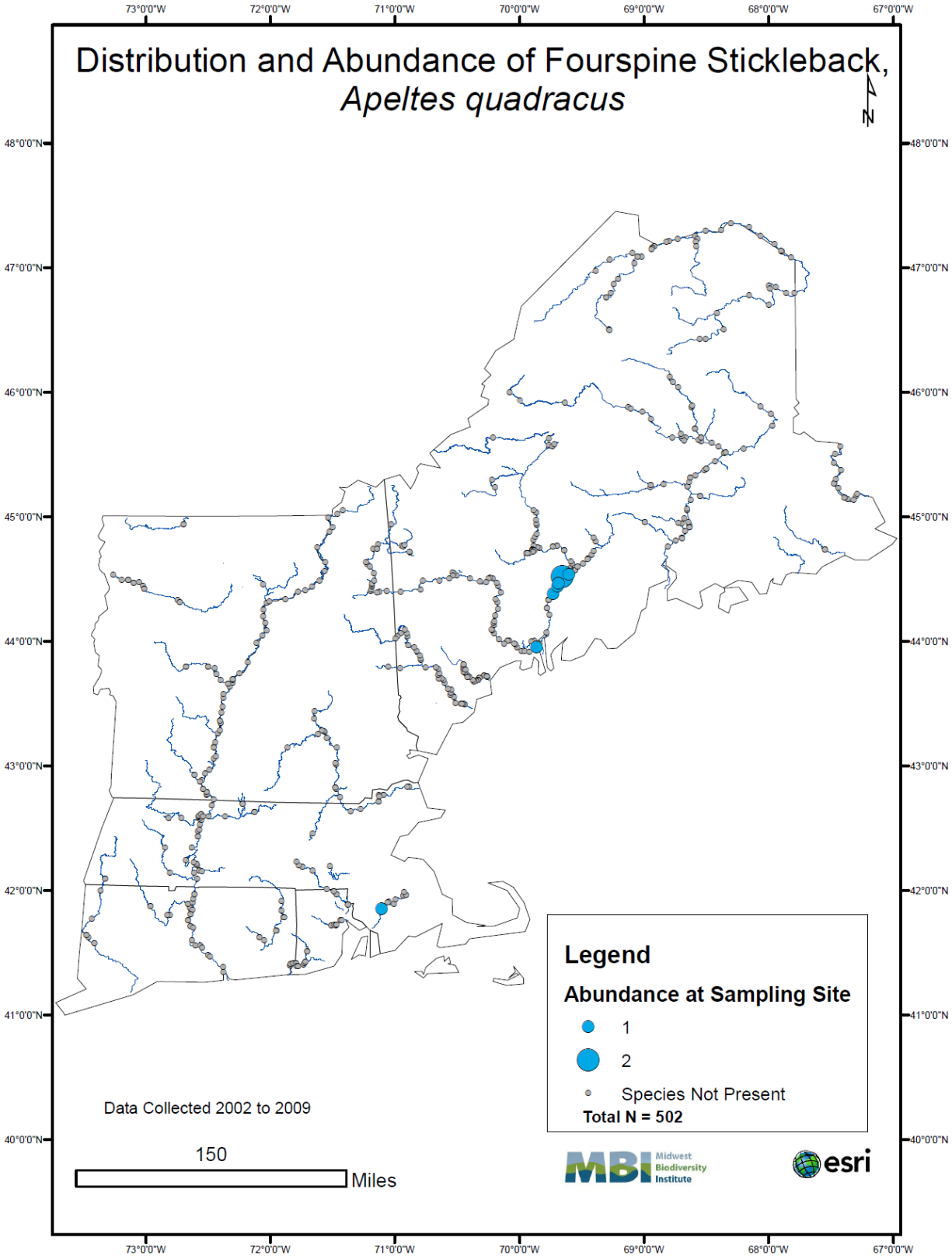


***Figure A-40**. Distribution and relative numbers of fourspine stickleback (Apeltes quadracus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

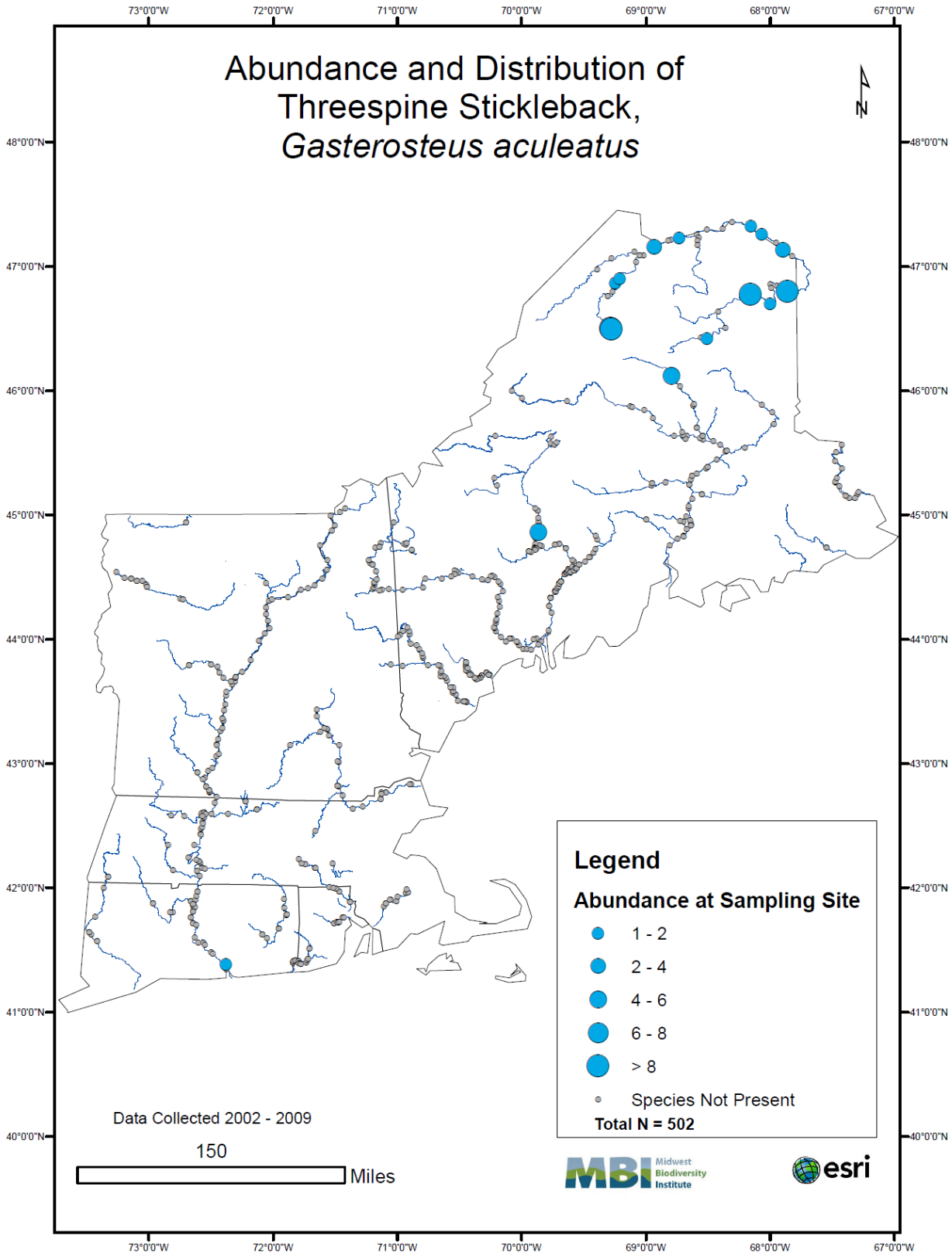


Figure A-41. *Distribution and relative numbers of three-spine stickleback (Gasterosteus aculeatus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

coastal brackish and salt waters there are landlocked populations that are entirely freshwater and which exhibit morphological differences in body armoring (Hartel et al. 2002).

Ninespine Stickleback *(Pungitius pungitius)*

Ninespine stickleback (Plate A-29) were similar in their distribution to three-spine stickleback being most common north of latitude 46^{o}N (Figure A-42). Single individuals were collected at three locations south of this point, all in Maine. This is one of several small species that occurred primarily where neither species of blackbass occurred (Yoder et al. 2008). Typically an inhabitant of coastal brackish and salt waters there are landlocked populations that are entirely freshwater and which also exhibit morphological differences in body armoring (Hartel et al. 2002).

Slimy Sculpin *(Cottus cognatus)*

Slimy sculpin (Plate A-30) were collected in the upper and colder reaches of the Connecticut, Androscoggin, Kennebec, Penobscot Rivers, Aroostook, and St. John Rivers and all of the Allagash River (Figure A-43). They were collected as far south as Connecticut in the cool-cold tributaries of the Connecticut River including the Farmington, Westfield, and White Rivers. A temperate stenotherm, this species was absent from the thermally altered mainstem reaches of all major New England Rivers south of latitude 44-45^{o}N from which they have presumably been extirpated. They generally co-occurred with brook trout in New England Rivers much as they do in smaller streams.

White Perch *(Morone americana)*

White perch (Plate A-31) were collected in coastal draining rivers and with a few exceptions close to tidal interfaces. This was especially true in the lower Connecticut, Taunton, Saco, Androscoggin, Kennebec, Penobscot, and St. Croix Rivers (Figure A-44). However, they were collected well upstream in segments close to lakes and reservoirs that support landlocked populations such as the West Branch Penobscot. Such populations are the result of introductions from native coastal populations. White perch were not collected north of latitude 46^{o}N or northwest of the general fall line across north central and western Maine, all of New Hampshire, and Vermont.

Striped Bass *(Morone saxatilis)*

Striped bass (Plate A-32) are an anadromous species that was collected in the lower and accessible reaches of nearly every coastal river in the NELR survey (Figure A-45). They were most abundant in Maine rivers, particularly the lower Kennebec to which they have had access since the removal of the Edwards Dam in 1999. The abundance of this species in the annual surveys of the lower Kennebec have varied considerably from one or two individuals in an entire annual sampling effort (10 sites) to tens of individuals at each sampling site. Years with large numbers of striped bass included 2002, 2007, and 2008.



Plate A-30. *Slimy sculpin (Cottus cognatus) collected in the Kennebec River near Solon, ME in 2002.*



Plate A-31. *White perch (Morone americana) collected in Merrymeeting Bay near Bowdoinham, ME in 2002.*



Plate A-32. *Adult striped bass (Morone saxatilis) collected in the Kennebec River near Waterville, ME in 2003 (left). Juvenile striped bass collected in the Kennebec River below Sidney, ME in 2013 (right).*

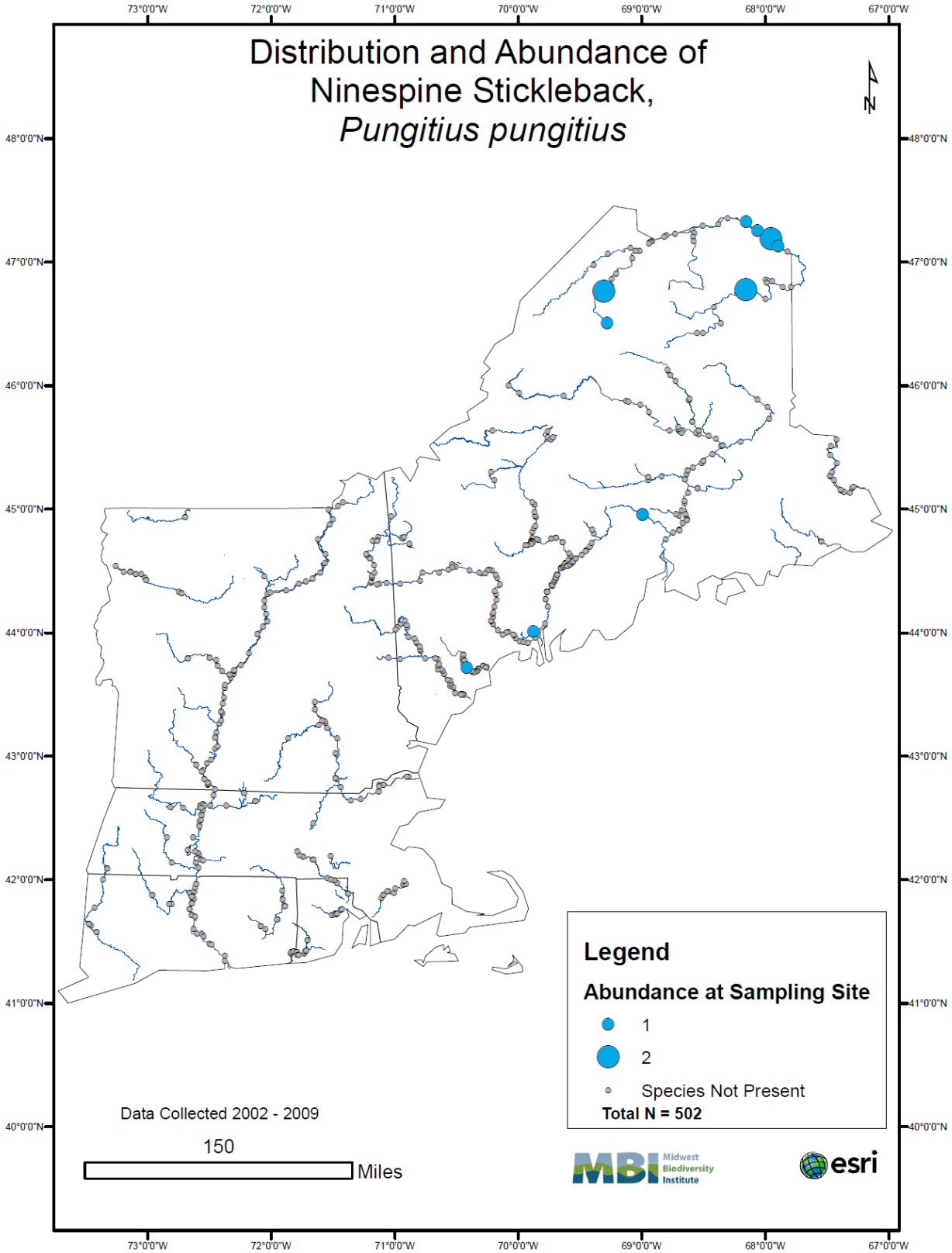


Figure A-42*. Distribution and relative numbers of ninespine stickleback (Pungitius pungitius) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

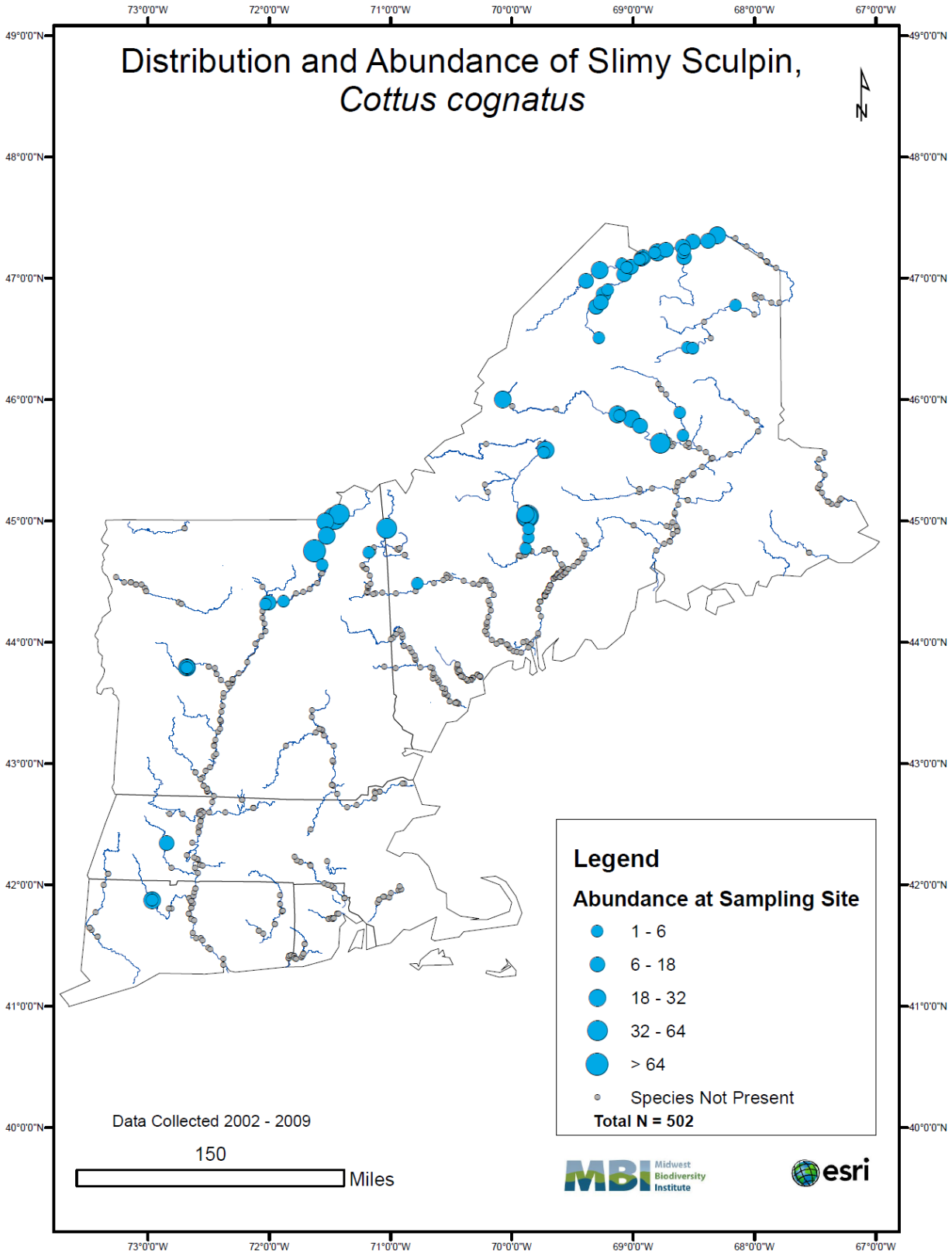


Figure A-43*. Distribution and relative numbers of slimy sculpin (Cottus cognatus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

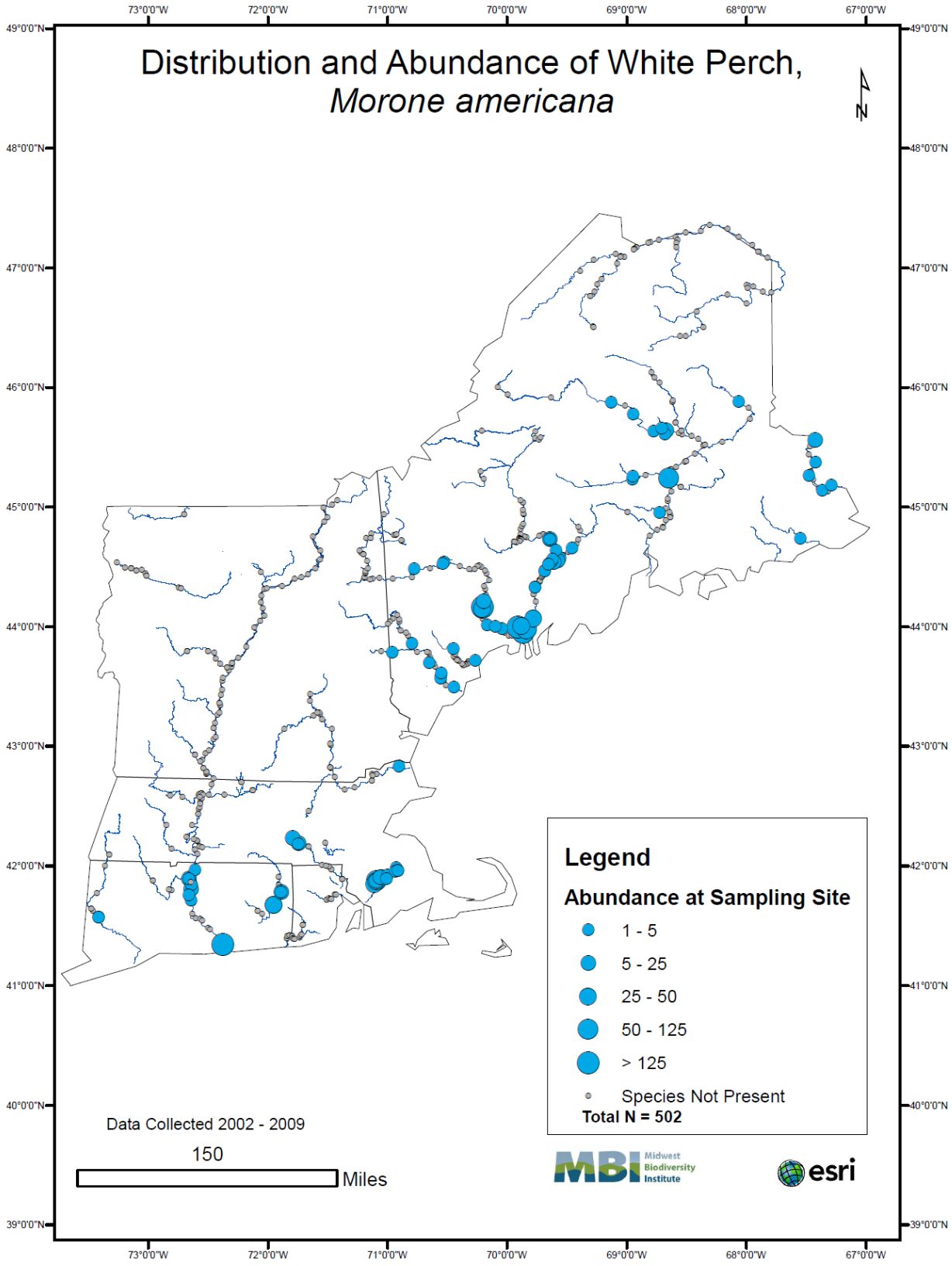


Figure A-44*. Distribution and relative numbers of white perch (Morone americana) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

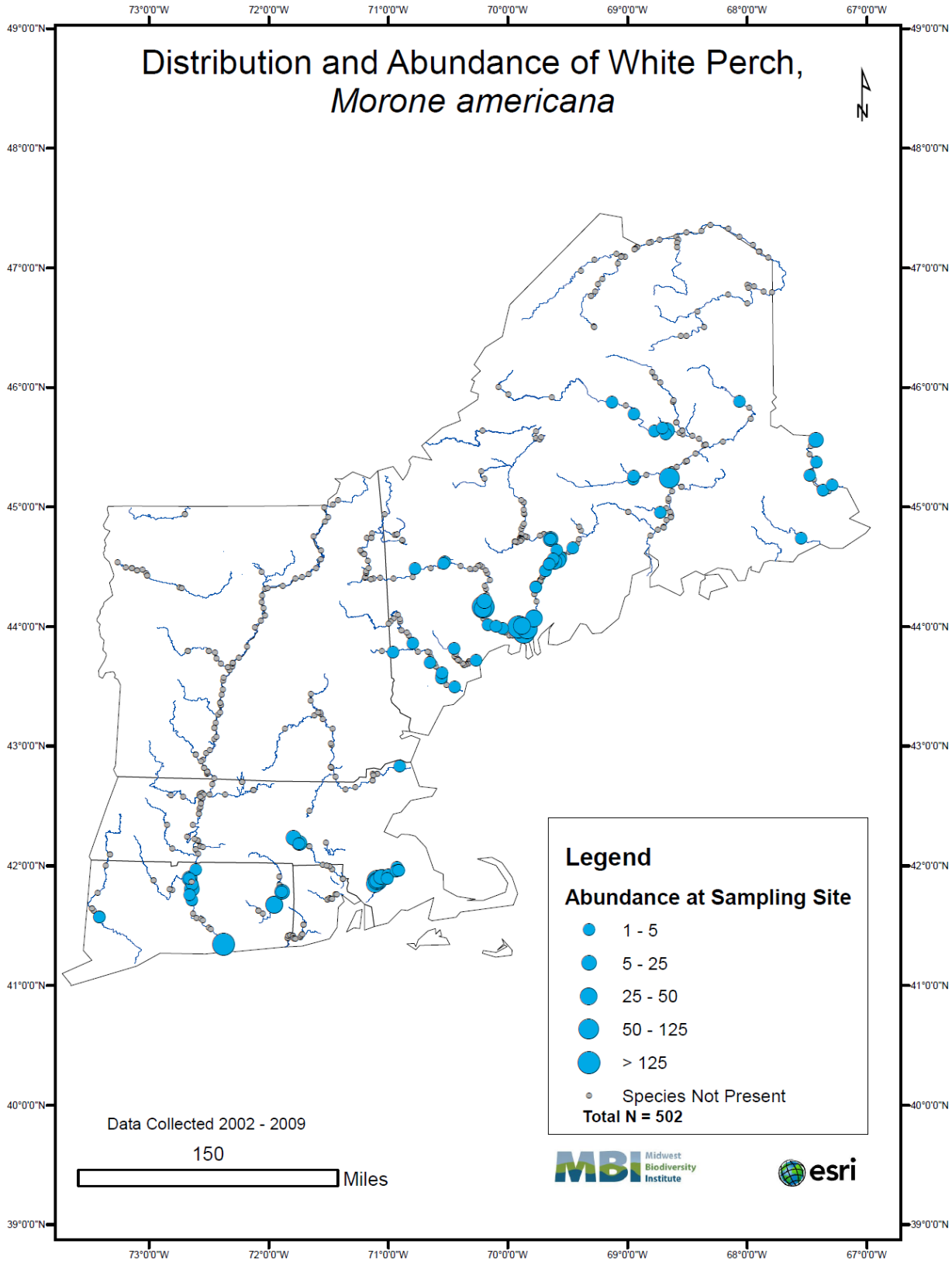


Figure A-45*. Distribution and relative numbers of striped bass (Morone saxatilis) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

Rock Bass *(Ambloplites rupestris)*

Rock bass (Plate A-33), like many Centrarchidae presently found in New England Proper, are an introduced species of intracontinental origin – it is native to the Lake Champlain drainage. In the NELR survey it was found west of longitude 71°W with no collections in Maine (Figure A-46). It was well distributed in most of the rivers in New Hampshire, Vermont, Massachusetts, Connecticut, and Rhode Island. It was absent in the cold water reaches of the upper Connecticut and White Rivers. Juvenile rock bass were collected in the upper Androscoggin River in an impounded reach upstream from Gorham, NH.

Banded Sunfish *(Enneacanthus obesus)*

Banded sunfish (Plate A-33) are one of three Centrarchidae that are native to New England Proper – they are not native to western drainages. This species was collected at a single location in the Millers River near Athol, MA in 2009 which is one of the locations described by Hartel et al. (2002).

Redbreast Sunfish *(Lepomis auritus)*

Redbreast sunfish (Plate A-33) is one of three Centrarchidae that are native to New England Proper – they are not native to western drainages. This species was common to abundant in NELR coastal rivers south of latitude 46°N and southwest of the general fall line across north central and western Maine, southern New Hampshire, and most of Vermont (Figure A-47). It was common to abundant at sites that had sufficient pool habitat (including impoundments) and submergent aquatic vegetation. With the exception of two isolated locations it was absent from the cool-cold water rivers of northern Maine, New Hampshire, and Vermont. The distribution pattern was the inverse of most of the stenothermic fish species and it commonly co-occurred with chain pickerel, yellow perch, and largemouth bass.

Green Sunfish *(Lepomis cyanellus)*

Green sunfish (Plate A-33) are a non-native species of intracontinental origin that occurred at scattered locations and mostly south of latitude 43°N (Figure A-48). An exception was three locations in the lower Kennebec and Sebasticook Rivers where juveniles were collected. It is surmised that these emanated from a small population in the upper Sebasticook River drainage. This species is native to the Lake Champlain drainage where they occurred at one location in the Winooski River.

Pumpkinseed *(Lepomis gibbosus)*

Pumpkinseed (Plate A-33) is one of three Centrarchidae that are native to New England Proper. This species was well distributed occurring in virtually every NELR river and sampling site south of latitude 46°N (Figure A-49), but it was absent from the cool-cold water reaches of the upper Penobscot and all of the St. John and Aroostook River drainages. The distribution pattern was



Plate A-33. *Six Centrarchidae collected in the NELR surveys: rock bass (Ambloplites rupestris; upper left) from the Connecticut River near Brattleboro, VT; banded sunfish (Enneacanthus obesus; upper right) from the Millers River near Athol, MA; redbreast sunfish (Lepomis auritus: middle left) from the Kennebec River at Sidney, ME; green sunfish (Lepomis cyanellus; middle right) from the Sebasticook River near Winslow, ME; pumpkinseed (Lepomis gibbosus: lower left) from the Connecticut River near Hartford, CT; bluegill (Lepomis macrochirus; lower right) from the Taunton River near Bridgewater, MA.*

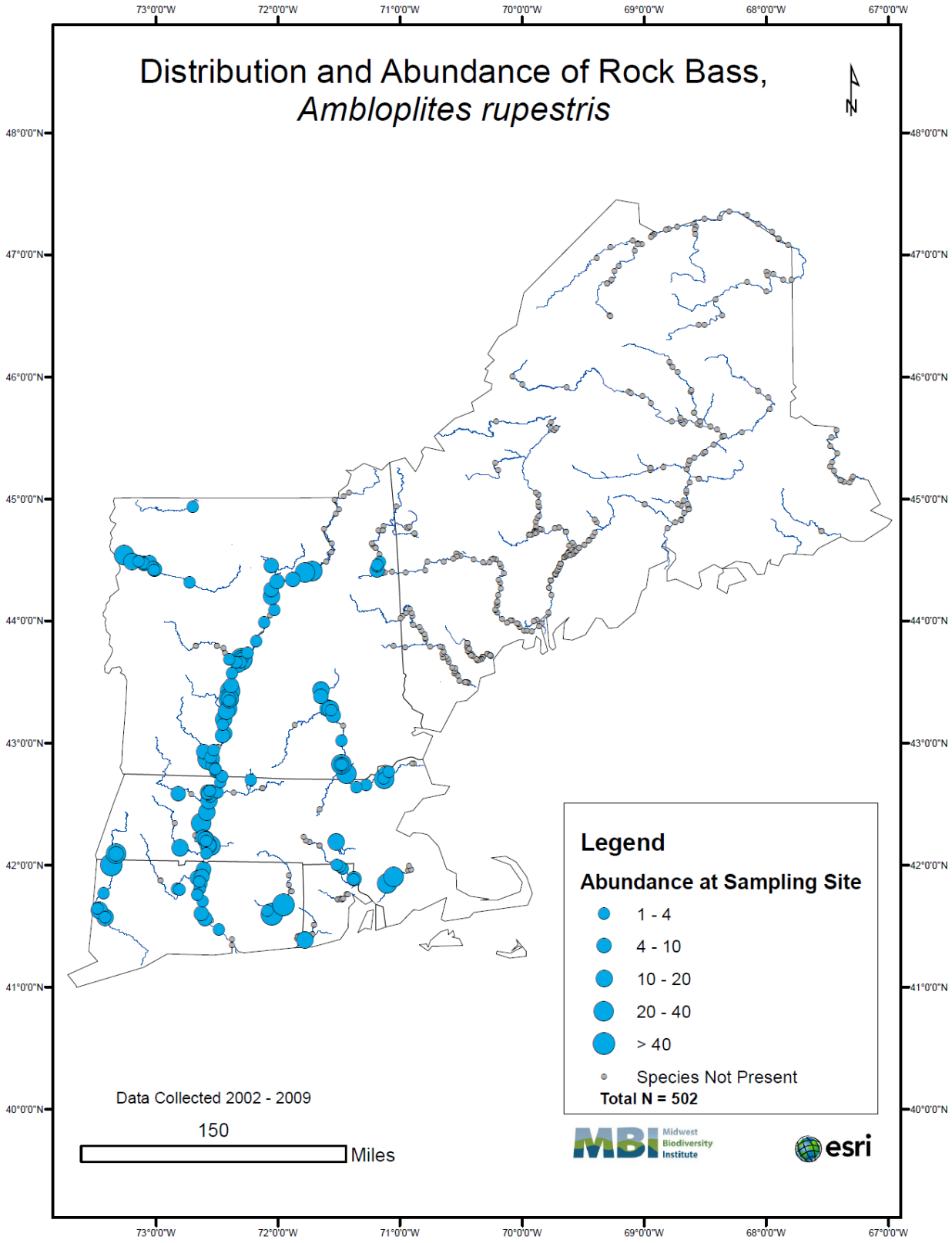


Figure A-46*. Distribution and relative numbers of rock bass (Ambloplites rupestris) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

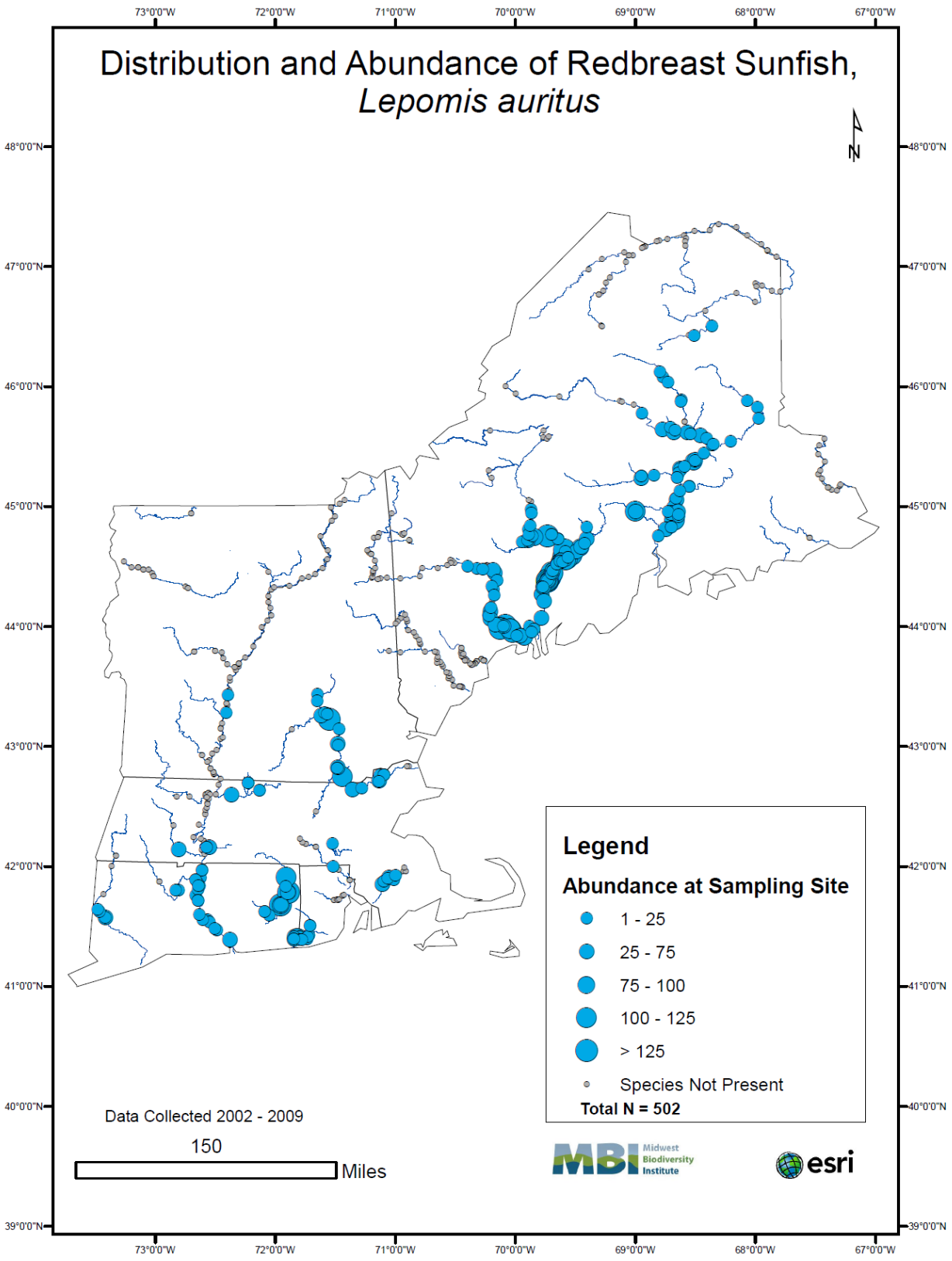


Figure A-47. *Distribution and relative numbers of redbreast sunfish (Lepomis auritus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

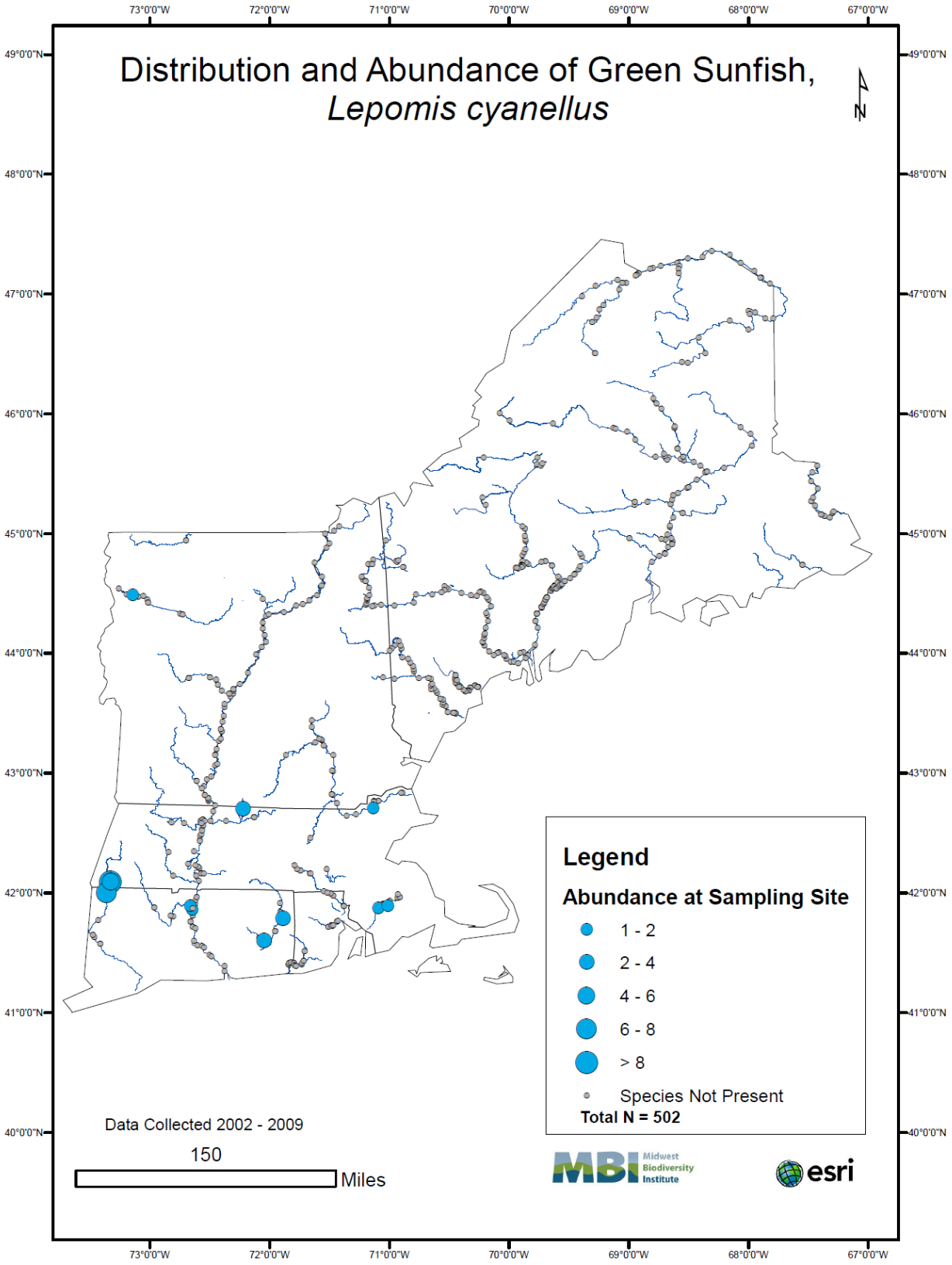


***Figure A-48**. Distribution and relative numbers of green sunfish (Lepomis cyanellus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

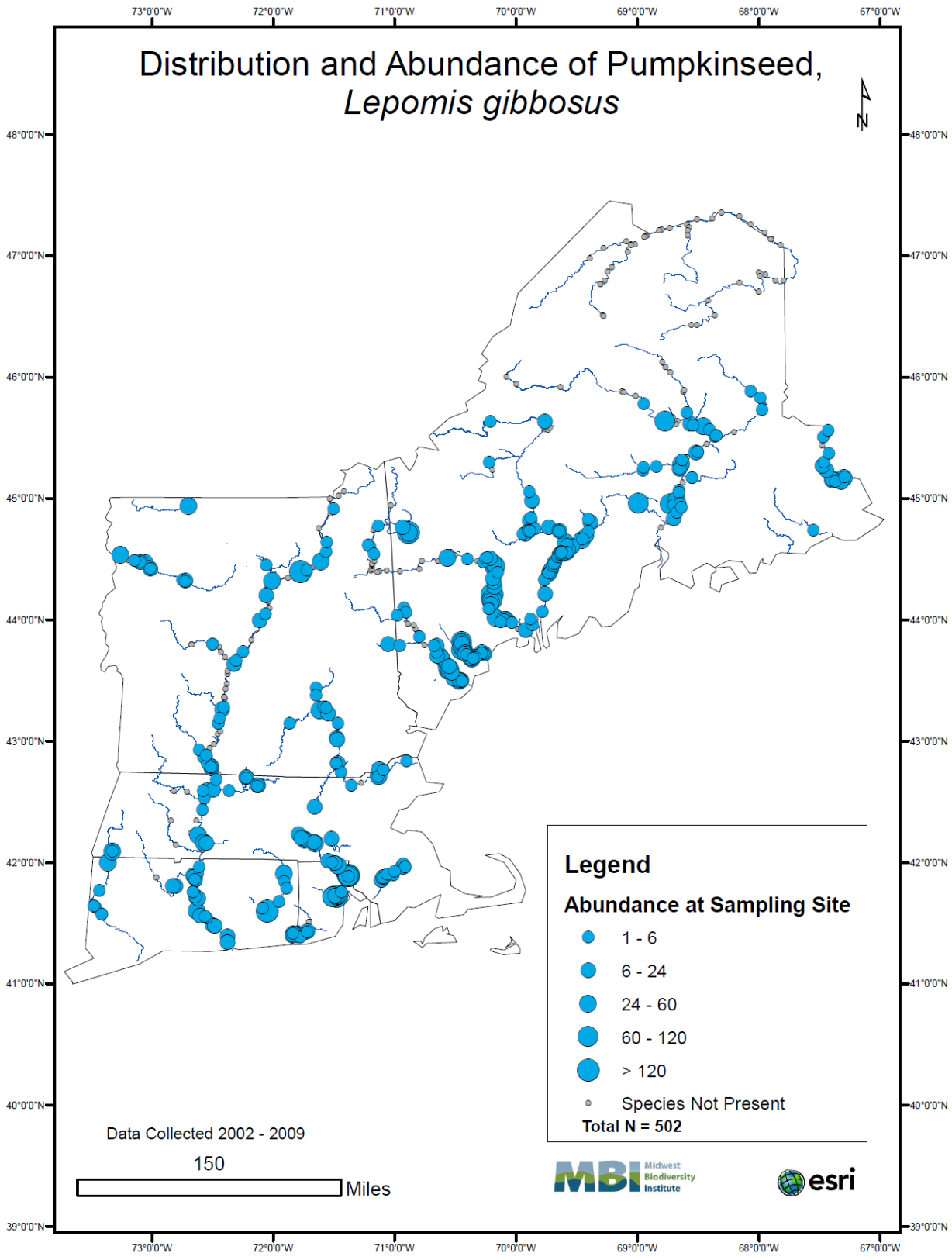


Figure A-49*. Distribution and relative numbers of pumpkinseed (Lepomis gibbosus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

similar to redbreast sunfish and it commonly co-occurred with chain pickerel, yellow perch, and largemouth bass.

Bluegill *(Lepomis macrochirus)*

Bluegill (Plate A-33) are an introduced species of intracontinental origin and were common to abundant in NELR samples generally west of longitude 70°W and south of latitude 45°N (Figure A-50). They are also introduced in the Lake Champlain drainage (Langdon 2006). This species was common to abundant in the Connecticut River below the Ottauquechee River and the Winooski, Housatonic, Merrimack, Blackstone, Pawcatuck, Pawtuxet, Quinebaug, and Taunton Rivers. It was not found in the cool-cold water reaches of New England rivers.

Smallmouth Bass *(Micropterus dolomieu)*

Smallmouth bass (Plate A-34) are one of two non-native blackbass species that have widened



Plate A-34. *Adult smallmouth bass (Micropterus dolomieui) collected in the Androscoggin River at Livermore Falls, ME in 2003 (upper). Young-of-the-year smallmouth bass collected in the Androscoggin River above Jay, ME in 2003 (lower).*

their distribution through invasion and stocking. It is native to the Lake Champlain drainage. They were collected in virtually every NELR river sampled with the exception of selected river reaches in northern Maine where natural and artificial barriers preclude their expansion (Figure A-51). This includes the upper West and East Branches of the Penobscot River, the Aroostook River, the Allagash River, and the Moose River all which are in Maine. The history and status of this species in Maine was documented by Warner (2005). It was legally stocked by the state in 51 water bodies between 1868 and 1881. Since that time they have become well established with reproducing populations in many rivers and lakes in southern and central Maine. In some southern and central Maine rivers smallmouth bass is the predominant species by numbers and biomass. It is tolerant of moderate pollution and it seems to thrive in rivers that receive organic and nutrient pollution such as the Androscoggin River downstream from Rumford and Jay, ME. Since the mid-1980s they have either been illegally transplanted within the state or they have invaded by natural means thus further expanding their range.

Apparent negative effects of blackbass on native brook trout and native cyprinid populations via general competition and direct predation in lakes, streams, and rivers has been documented (Whittier et al. 2000,2001; Warner 2005). It is also hypothesized that warmer temperatures associated with hydrological and land use changes in the 19th and 20th centuries and further warming in the future will offer conditions favoring this invasive species. As such it remains a significant natural resource management issue in Maine. Other studies have documented the negative effect of smallmouth bass on native species (Vander Zanden et al. 2004; Jackson 2005) including Maine lakes (M. Gallagher, personal communication). Observations in Maine rivers during 2002-7 indicated a negative relationship with native cyprinids and other small species such as sticklebacks (Yoder et al. 2008). The adverse impact of blackbass was evident with their mere presence as progressively reduced numbers of these native species were observed as smallmouth bass abundance reached as few as 10 individuals/km and became pronounced at abundances greater than 100/km.

Largemouth Bass *(Micropterus salmoides)*

Largemouth bass (Plate A-35) are one of two introduced blackbass species in New England Proper. The distribution of this species in New England is somewhat more restricted than smallmouth bass occurring primarily south of latitude 45^{o}N (Figure A-52). It was common to abundant in all of the NELR rivers south of this latitude and especially so in impoundments which offer its preferred lentic habitat. The lower Sebasticook River had the largest populations in terms of numbers and biomass. It was absent from rivers in northern Maine and the upper Connecticut River in New Hampshire.

White Crappie *(Pomoxis annularis)*

White crappie were collected at only two locations, one each in the Connecticut and Merrimack Rivers. Hartel et al. (2002) describes this species as being rare and lists records for the Connecticut River. It is an introduced species of intracontinental origin.

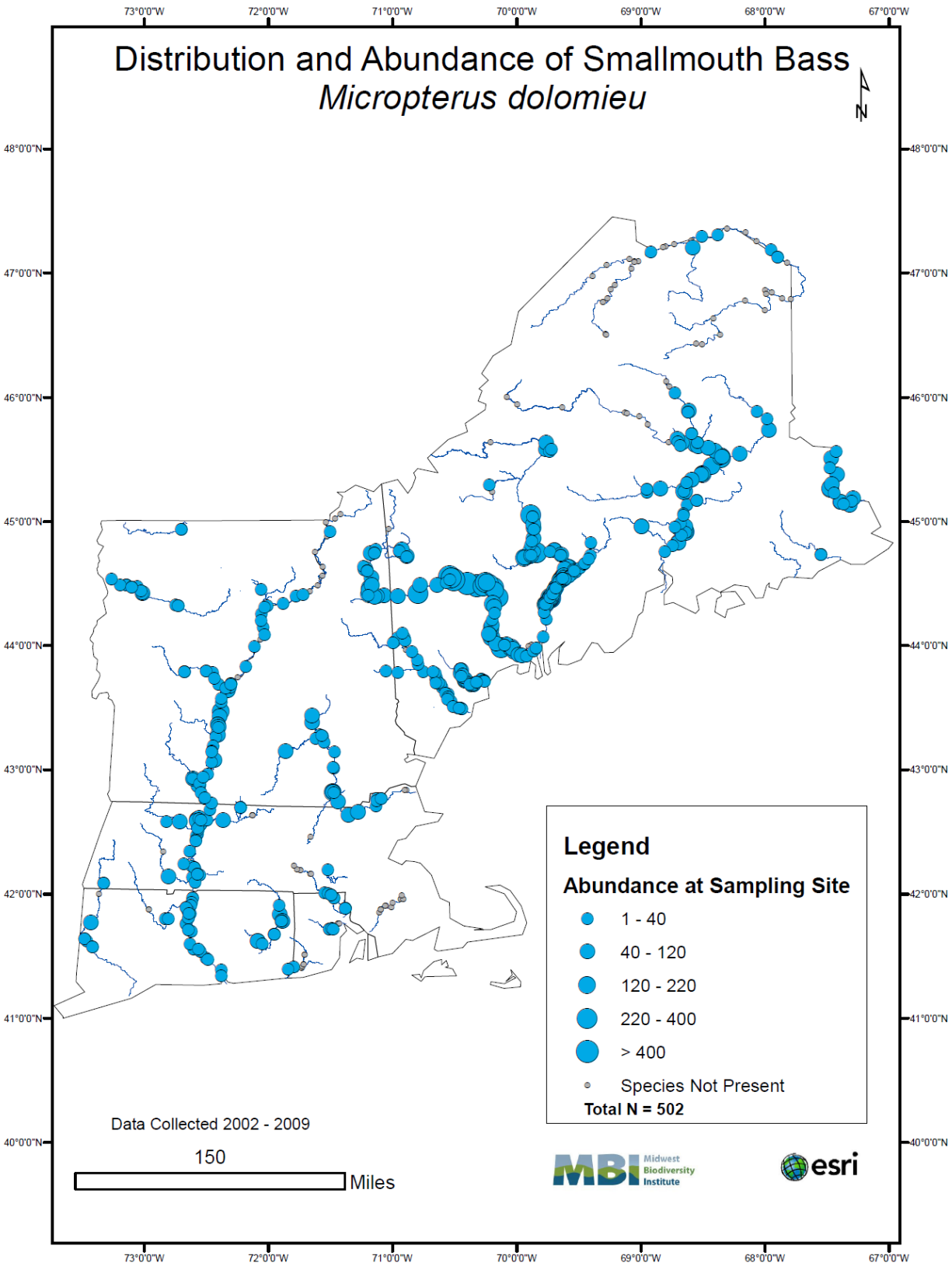


***Figure A-50**. Distribution and relative numbers of smallmouth bass (Micropterus dolomieui) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

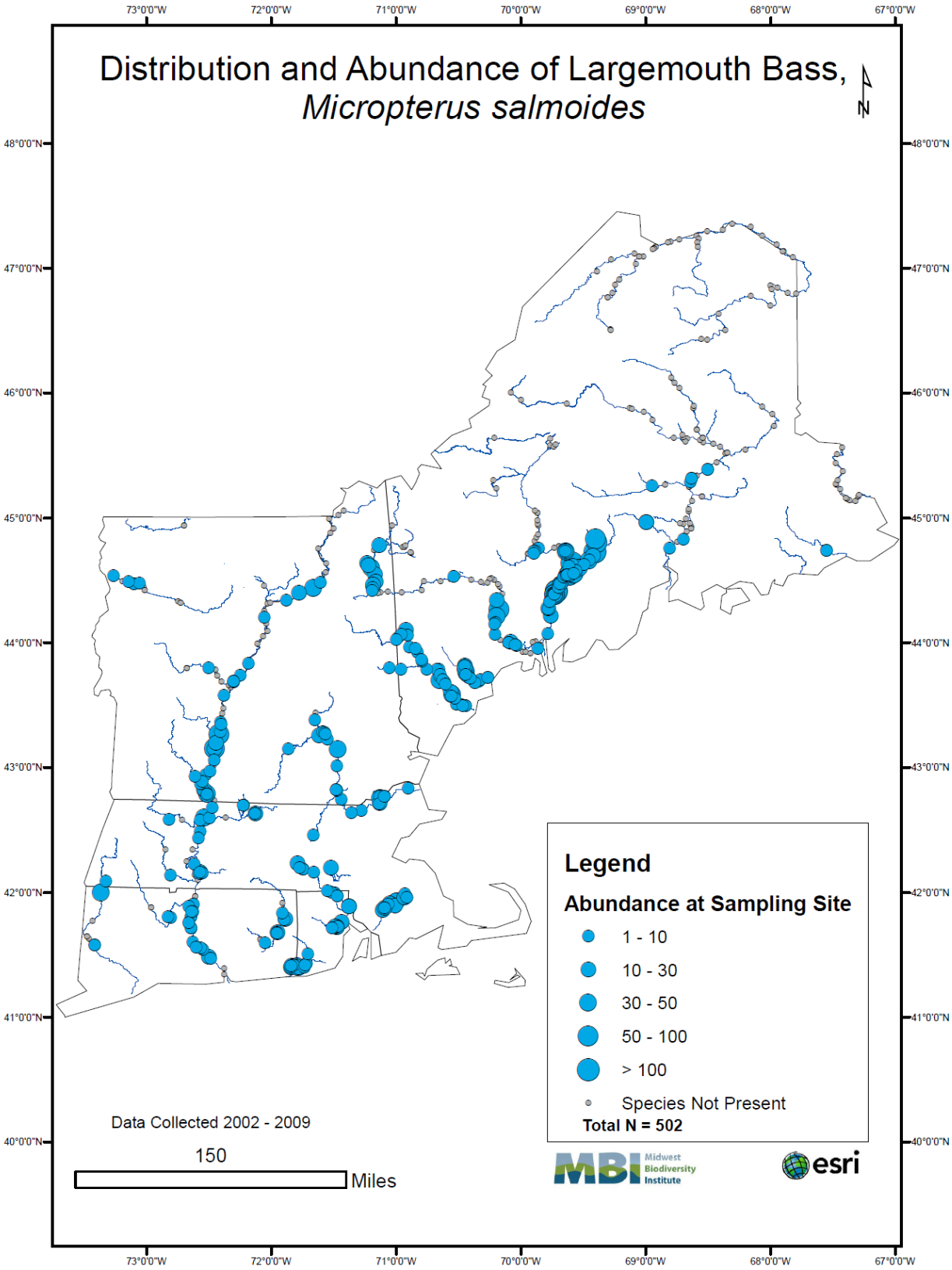


Figure A-51*. Distribution and relative numbers of largemouth bass (Micropterus salmoides) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*



Plate A-35. *Adult largemouth bass (Micropterus salmoides) collected in the Kennebec River at Sidney, ME in 2003 (upper). Juvenile largemouth bass collected in the Connecticut River near Greenfield, MA in 2009 (lower).*

Black Crappie *(Pomoxis nigromaculatus)*

Black crappie (Plate A-36) are an introduced species of intracontinental origin in New England Proper. This species has been stocked since the early 20th century and is now established in many lakes and rivers. In the NELR surveys it occurred south of latitude 45°N and was at least present in most river mainstems (Figure A-52). It did not occur in the cool-cold water reaches of the upper Connecticut R., its tributaries, or western and northern Maine.

Walleye *(Sander vitreum)*

Walleye (Plate A-37) are an introduced species of intracontinental origin in New England Proper – they are native to the Lake Champlain drainage. In the NELR survey this species occurred primarily in the Connecticut River (Figure A-53) where they have become established from stockings in the early and mid-20th century (Hartel et al. 2002). Walleye were also collected at single locations in the Winooski and Pawcatuck Rivers. This species is likely more numerous and widespread than indicated as the NELR sampling was conducted during daytime. Night sampling would likely have produced higher walleye numbers.



Plate A-36. *Adult black crappie (Pomoxis nigromaculatus) collected in the Kennebec River at Waterville, ME in 2002.*



Plate A-37. *Walleye (Sander vitreum) collected in the Connecticut River at Vernon, VT in 2008.*

Yellow Perch *(Perca flavescens)*

Yellow perch (Plate A-38) were collected throughout New England Proper in nearly every NELR river (Figure A-54). While this species is native to portions of southern New England it has been widely introduced outside of its native range. It preferred pool habitat and occurred in abundance in low gradient reaches and impoundments. It commonly co-occurred with chain pickerel, redbreast sunfish, pumpkinseed, and largemouth bass.

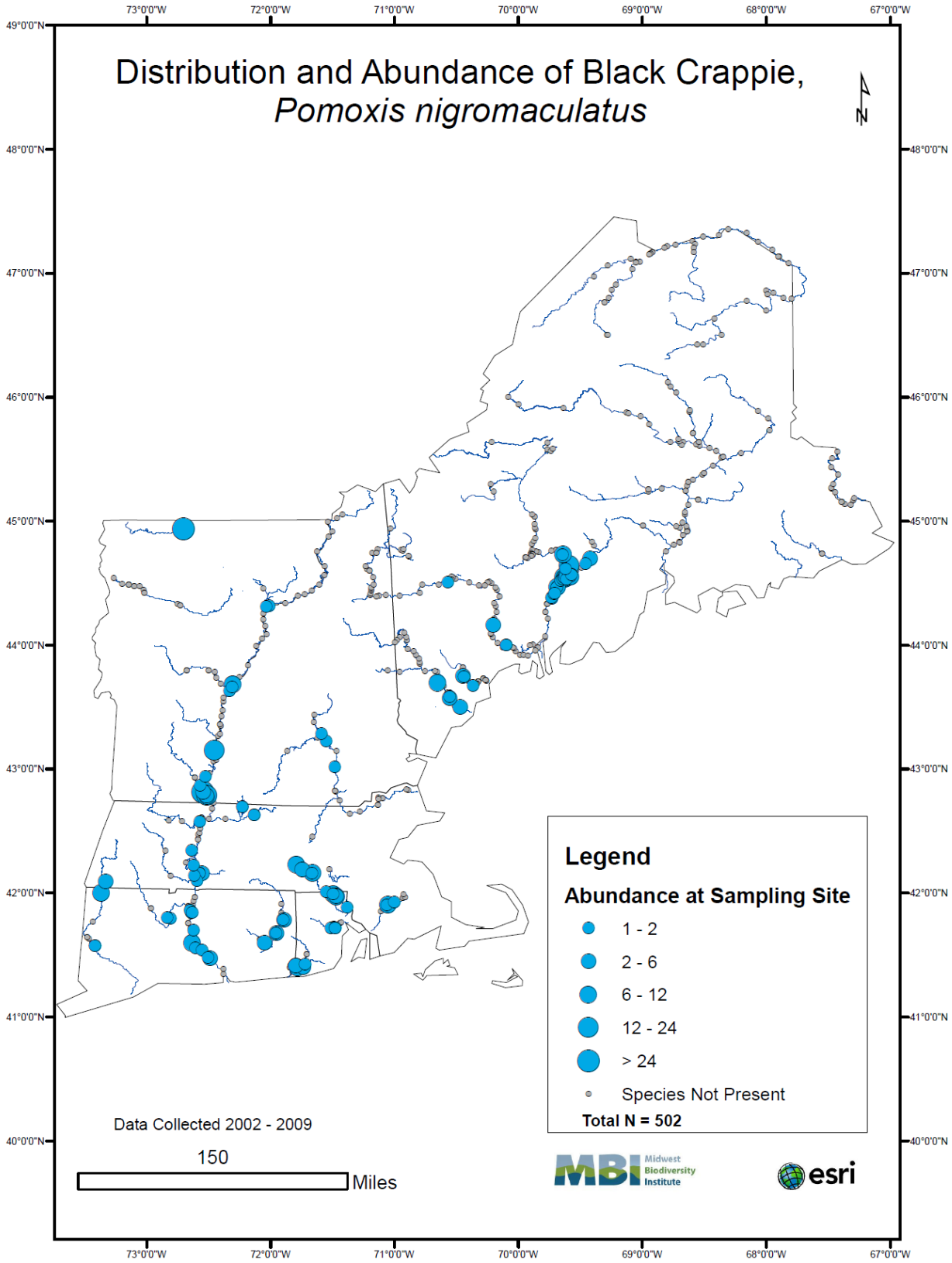


Figure A-52*. Distribution and relative numbers of black crappie (Pomoxis nigromaculatus) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

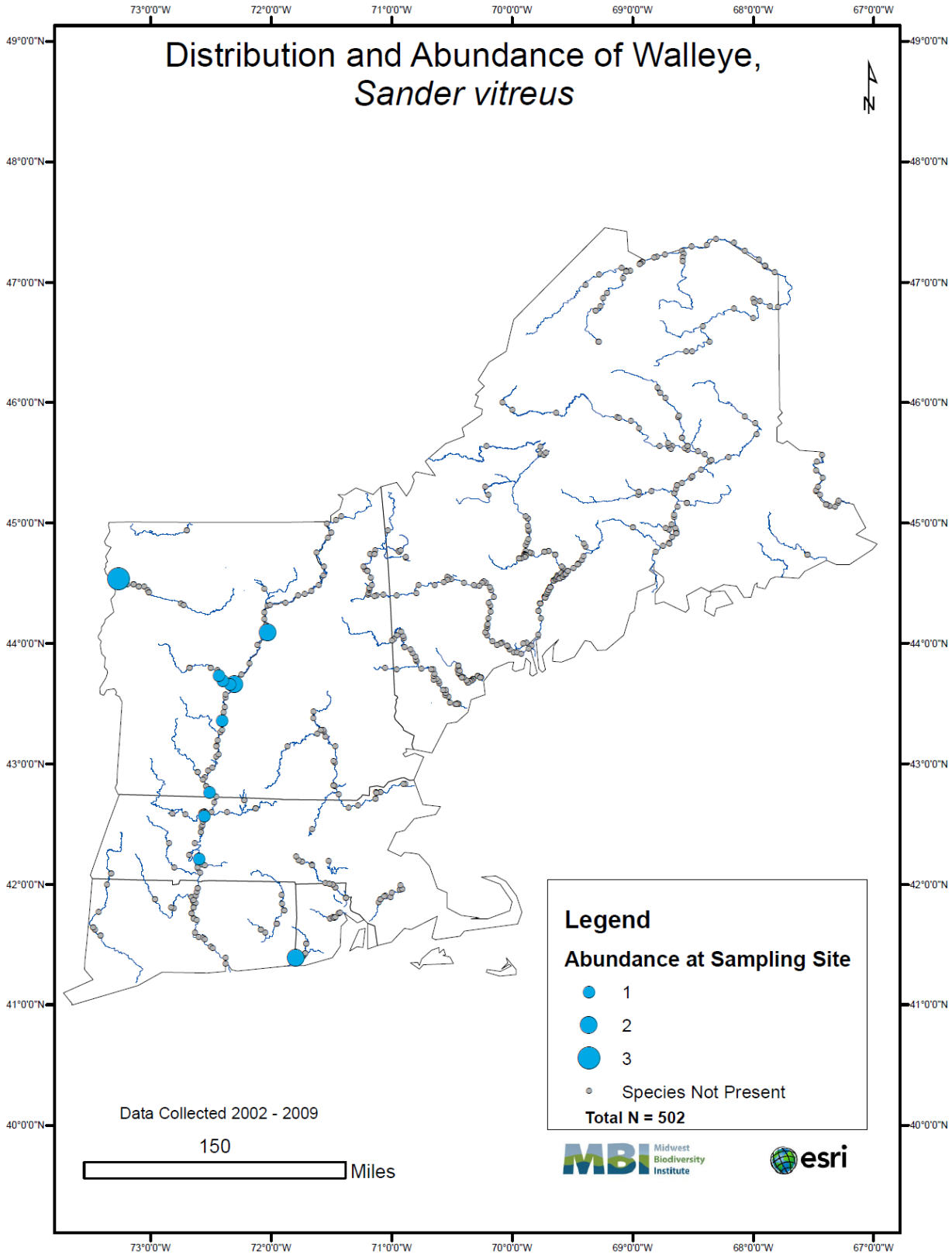


Figure A-53*. Distribution and relative numbers of walleye (Sander vitreum) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

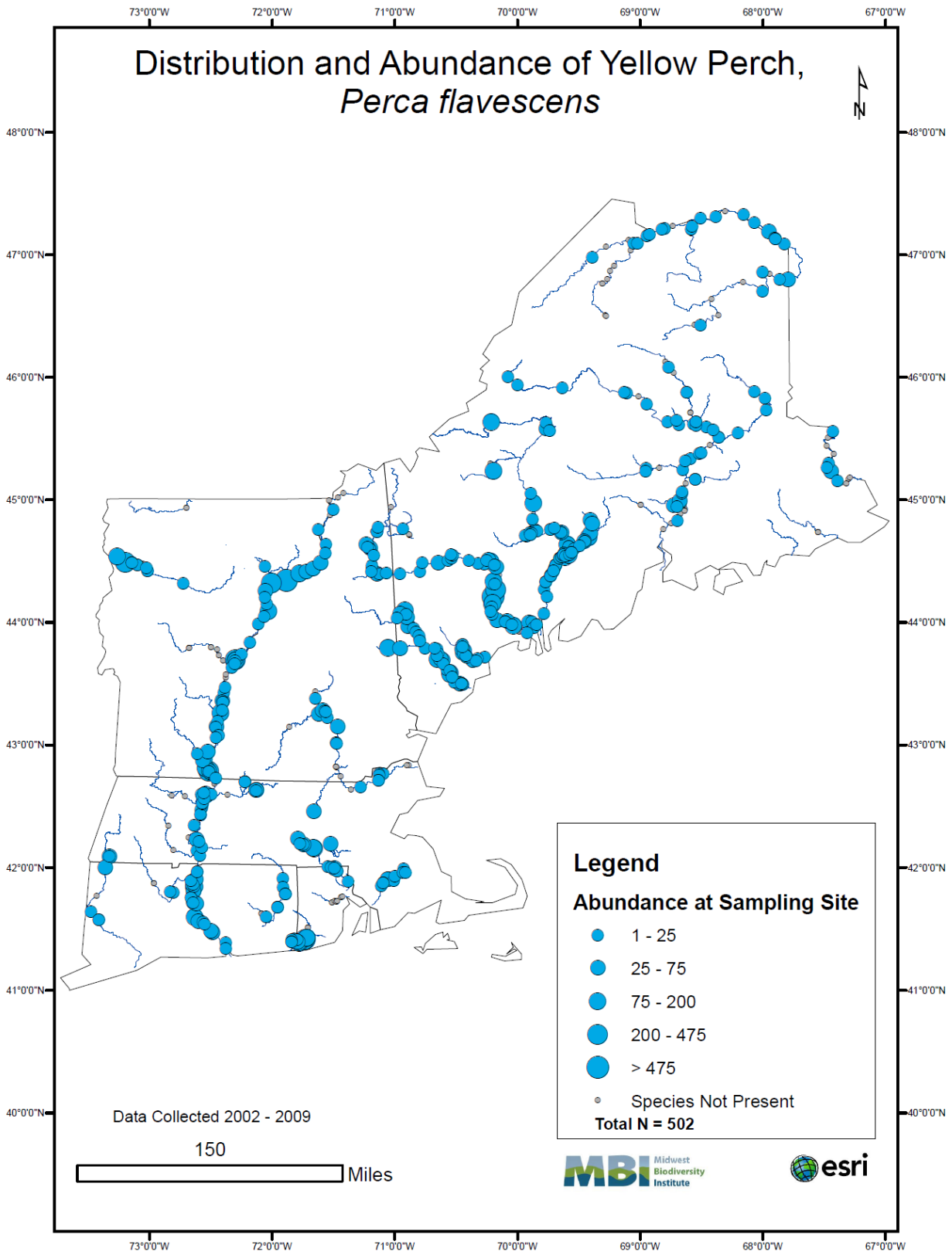


***Figure A-54**. Distribution and relative numbers of yellow perch (Perca flavescens) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*



Plate A-38. *Yellow perch (Perca flavescens) collected in Merrymeeting Bay near Bowdoinham, ME in 2002.*

Logperch *(Percina caprodes)*

Logperch occurred only in the Winooski and Missisquoi Rivers of the Lake Champlain drainage where it is native. No collections were made in New England Proper.

Tessellated Darter *(Etheostoma olmstedi)*

Tessellated darter (Plate A-39) was common in NELR rivers west of longitude 71°W (Figure A-53). It is only one of two darter species that are native to New England Proper.



Plate A-39. *Tessellated darter (Etheostoma olmstedi) collected in the Connecticut River near Greenfield, MA in 2009.*

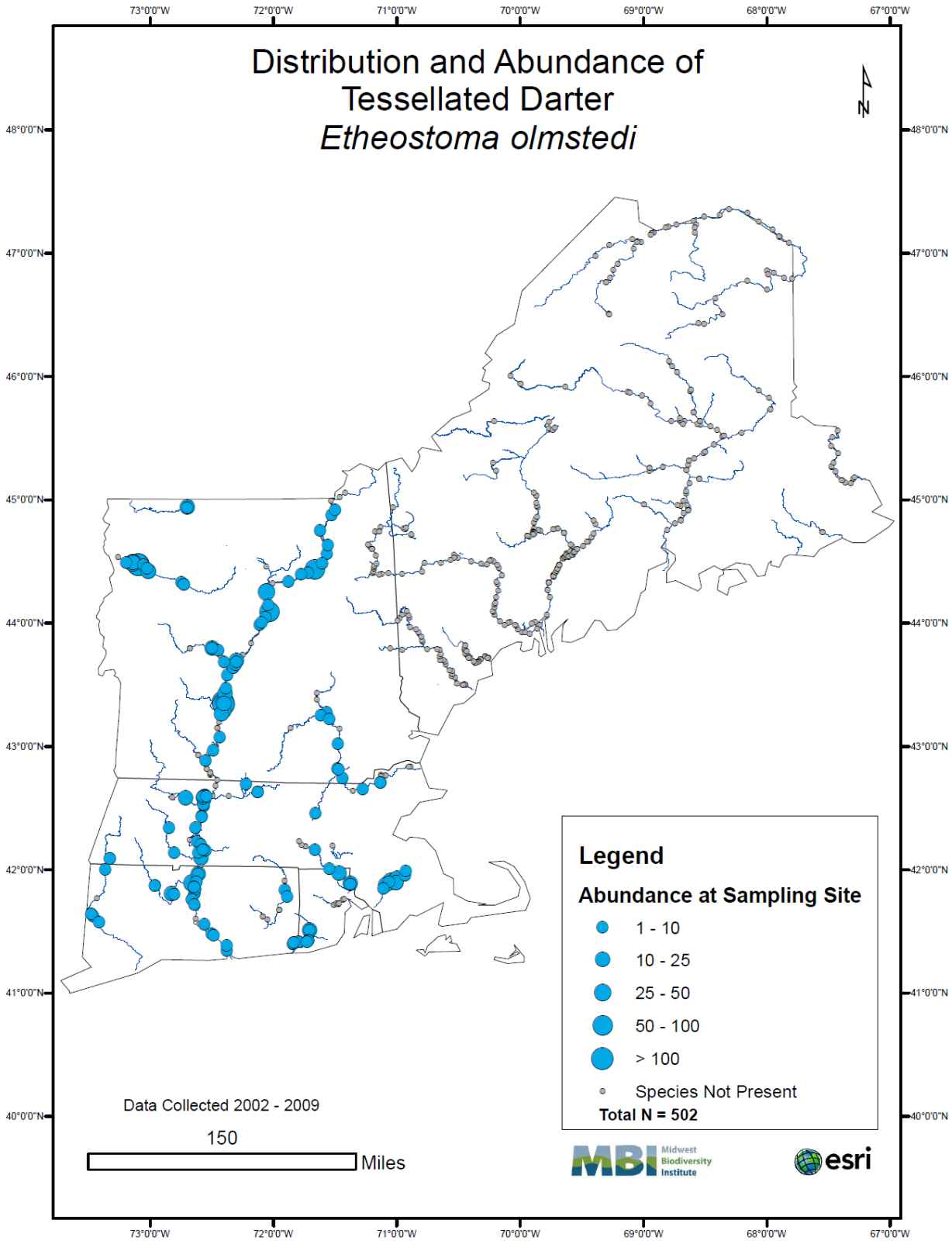


Figure A-55. *Distribution and relative numbers of tessellated darter (Etheostoma olmstedi) collected at NELR fish sampling sites, 2002-9. Symbol size reflects ranges of relative numbers.*

Eastern Sand Darter *(Ammocrypta pellucida)*

Eastern sand darter was collected at a single location in the Winooski River where it is native.

Fantail Darter *(Etheostoma flabellare)*

Fantail darter was collected at a single location in the upper Missisquoi River where it is native.

Bluefish (*(Pomatomus saltatrix)*

Juvenile bluefish were collected in tidal influenced reaches of the Connecticut and Taunton Rivers. Clearly a marine species it occasionally enters freshwaters especially as juveniles.

Naked Goby *(Gobiosoma bosc)*

Naked goby are a native marine species that can enter tidal brackish and freshwaters. A single fish was collected in the Taunton River where other mostly marine and tidal fishes occurred.

Hogchoker *(Trinectes maculatus)*

Hogchoker (Plate A-40) are a native marine species that enters freshwater as juveniles to mature then returning to salt water to spawn (Hartel et al. 2002). They were collected at two locations each in the tidal Connecticut River and the Taunton River.

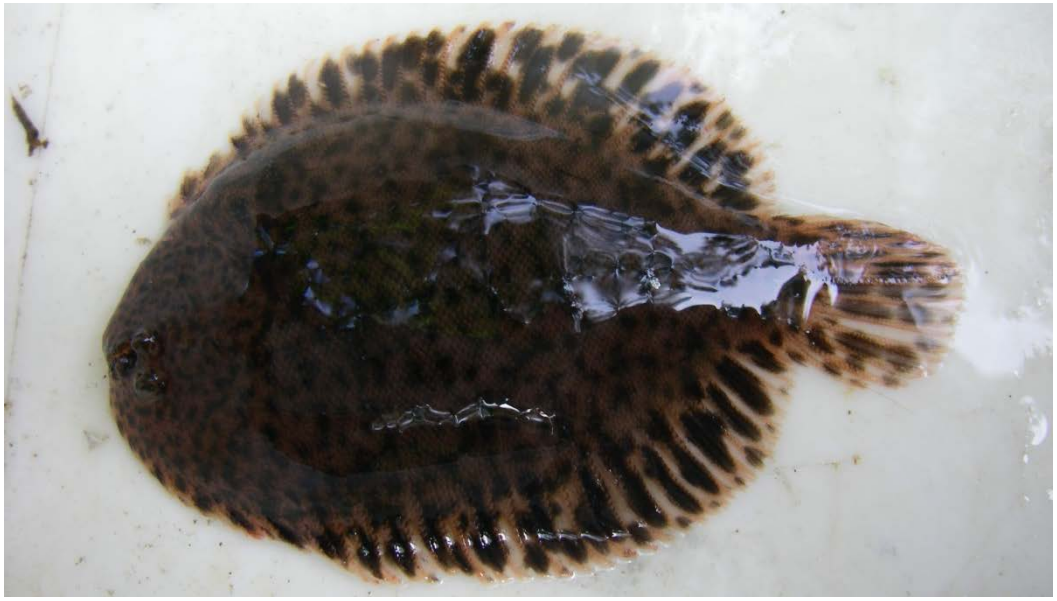


Plate A-40. *Hogchoker (Trinectes maculatus) collected in the Taunton River near Bridgewater, MA in 2009.*

Appendix B
NELR REMAP Sampling Locations

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
10	001	Saco River	0.0	A	1.0	07	14	2006	
10	001	Saco River	0.0	A	1.0	09	25	2006	
10	001	Saco River	0.3	A	1.0	07	14	2006	
10	001	Saco River	0.4	A	1.0	07	14	2006	
10	001	Saco River	1.0	A	1.0	09	04	2009	NRSA-Base
10	001	Saco River	4.0	A	1.0	07	15	2006	
10	001	Saco River	4.8	A	0.5	07	16	2006	
10	001	Saco River	8.0	A	1.0	07	15	2006	
10	001	Saco River	11.0	A	1.0	07	15	2006	
10	001	Saco River	12.4	A	1.0	07	16	2006	
10	001	Saco River	12.5	A	1.0	09	04	2009	NRSA-Base
10	001	Saco River	13.9	A	1.0	07	17	2006	
10	001	Saco River	15.3	A	1.0	07	16	2006	
10	001	Saco River	19.3	A	1.0	07	16	2006	
10	001	Saco River	20.6	A	1.0	07	16	2006	
10	001	Saco River	22.3	A	1.0	07	18	2006	
10	001	Saco River	24.4	A	1.0	09	03	2009	NRSA-Base
10	001	Saco River	26.0	A	1.0	07	18	2006	
10	001	Saco River	27.3	A	1.0	07	18	2006	
10	001	Saco River	30.9	A	1.0	08	13	2006	
10	001	Saco River	32.9	A	1.0	08	12	2006	
10	001	Saco River	38.6	A	1.0	08	12	2006	
10	001	Saco River	44.0	A	1.0	08	12	2006	
10	001	Saco River	45.7	A	1.0	08	11	2006	
10	001	Saco River	47.0	A	1.0	08	11	2006	
10	001	Saco River	52.7	A	1.0	08	11	2006	
10	001	Saco River	57.7	A	1.0	08	11	2006	
10	001	Saco River	62.8	A	1.0	08	11	2006	
10	001	Saco River	71.4	A	1.0	07	20	2006	
10	001	Saco River	73.2	A	1.0	07	22	2006	
10	001	Saco River	77.4	A	1.0	07	19	2006	

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
10	001	Saco River	80.6	A	1.0	07	19	2006	
10	001	Saco River	82.8	A	1.0	08	10	2006	
10	100	Saco River Old Course	3.6	A	1.0	07	19	2006	
10	500	Ossipee River	11.2	A	1.0	08	19	2006	
10	500	Ossipee River	17.2	A	1.0	08	19	2006	
20	001	Presumpscot River	0.7	A	1.0	08	17	2006	
20	001	Presumpscot River	3.7	A	1.0	08	17	2006	
20	001	Presumpscot River	3.7	A	1.0	09	26	2006	
20	001	Presumpscot River	5.5	A	1.0	08	17	2006	
20	001	Presumpscot River	5.5	A	1.0	09	26	2006	
20	001	Presumpscot River	6.4	A	1.0	08	17	2006	
20	001	Presumpscot River	6.4	A	1.0	09	26	2006	
20	001	Presumpscot River	7.6	A	1.0	08	18	2006	
20	001	Presumpscot River	7.6	A	1.0	09	25	2006	
20	001	Presumpscot River	8.6	A	1.0	08	16	2006	
20	001	Presumpscot River	11.3	A	1.0	08	16	2006	
20	001	Presumpscot River	11.3	A	1.0	09	26	2006	
20	001	Presumpscot River	12.6	A	1.0	08	16	2006	
20	001	Presumpscot River	13.1	A	1.0	08	16	2006	
20	001	Presumpscot River	14.1	A	1.0	08	16	2006	
20	001	Presumpscot River	14.9	A	1.0	08	15	2006	
20	001	Presumpscot River	15.6	A	1.0	08	15	2006	
20	001	Presumpscot River	18.1	A	1.0	08	15	2006	
20	001	Presumpscot River	18.8	A	1.0	08	14	2006	
20	001	Presumpscot River	19.9	A	1.0	08	14	2006	
20	001	Presumpscot River	20.6	A	1.0	08	14	2006	
20	001	Presumpscot River	21.1	P	1.0	08	14	2006	
20	100	Piscataqua River	1.0	P	0.5	08	17	2006	
20	200	Pleasant River	1.0	P	0.8	08	15	2006	
20	300	Little River	1.0	P	1.0	08	16	2006	
21	001	Presumpscot R.	0.4	A	1.0	08	18	2006	

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
21	001	Presumpscot R.	0.4	A	1.0	09	27	2006	
30	001	St. John River	204.5	A	1.0	07	26	2005	
30	001	St. John River	210.0	A	1.0	09	20	2008	NRSA-Base
30	001	St. John River	210.7	A	1.0	09	20	2008	NRSA-Base
30	001	St. John River	214.8	A	1.0	07	26	2005	
30	001	St. John River	222.2	A	1.5	07	26	2005	
30	001	St. John River	229.4	A	1.0	07	25	2005	
30	001	St. John River	237.7	A	1.0	07	25	2005	
30	001	St. John River	244.3	A	1.0	07	25	2005	
30	001	St. John River	253.0	A	1.0	07	13	2009	
30	001	St. John River	258.9	A	1.0	07	23	2005	
30	001	St. John River	266.9	A	1.0	07	23	2005	
30	001	St. John River	270.5	A	1.0	07	23	2005	
30	001	St. John River	272.0	A	1.0	07	12	2009	
30	001	St. John River	277.0	A	1.0	07	22	2005	
30	001	St. John River	277.0	P	1.0	08	25	2005	
30	001	St. John River	278.7	A	1.0	09	20	2008	NRSA-Base
30	001	St. John River	279.1	A	1.0	09	20	2008	NRSA-Base
30	001	St. John River	286.8	A	1.0	07	12	2009	NRSA-Overdraw
30	001	St. John River	288.3	A	1.0	07	12	2009	NRSA-Overdraw
30	001	St. John River	290.6	A	1.0	07	22	2005	
30	001	St. John River	303.8	A	1.0	07	21	2005	
30	001	St. John River	314.6	A	1.0	07	21	2005	
30	100	Meduxnekeag River	16.2	P	0.4	08	06	2007	
30	500	Allagash River	1.2	P	0.8	08	25	2005	
30	500	Allagash River	6.0	P	1.0	08	25	2005	
30	500	Allagash River	21.1	P	0.9	09	15	2006	
30	500	Allagash River	25.0	P	1.0	08	26	2005	
30	500	Allagash River	32.2	P	1.0	08	26	2005	
30	500	Allagash River	36.8	P	1.0	08	26	2005	
30	500	Allagash River	36.8	P	1.0	09	14	2006	

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
30	500	Allagash River	63.2	P	1.0	09	16	2006	
30	500	Allagash River	64.9	P	0.6	08	24	2005	
30	600	Fish River	2.4	A	1.0	07	11	2009	NRSA-Overdraw
30	600	Fish River	5.0	P	1.0	09	12	2006	
30	600	Fish River	8.1	P	1.0	09	13	2006	
30	800	Aroostook River	4.6	A	1.0	07	18	2005	
30	800	Aroostook River	9.8	A	1.0	07	18	2005	
30	800	Aroostook River	15.4	P	1.0	08	22	2005	
30	800	Aroostook River	19.7	P	1.0	08	22	2005	
30	800	Aroostook River	21.7	A	1.0	07	20	2005	
30	800	Aroostook River	33.6	A	1.0	07	20	2005	
30	800	Aroostook River	44.0	A	1.0	07	20	2005	
30	800	Aroostook River	65.3	A	0.9	07	19	2005	
30	800	Aroostook River	76.6	A	0.6	07	19	2005	
30	800	Aroostook River	91.8	A	1.0	07	13	2009	NRSA-Overdraw
30	800	Aroostook River	94.0	A	0.8	07	19	2005	
35	001	Machias River	7.2	A	1.0	09	21	2008	NRSA-Base
35	001	Machias River	10.4	A	1.0	09	21	2008	
40	001	St. Croix River	1.1	P	1.0	09	21	2005	
40	001	St. Croix River	4.3	P	1.0	09	21	2005	
40	001	St. Croix River	7.4	P	1.0	09	21	2005	
40	001	St. Croix River	8.9	P	1.0	08	31	2005	
40	001	St. Croix River	9.3	P	1.0	08	31	2005	
40	001	St. Croix River	15.9	P	1.0	08	30	2005	
40	001	St. Croix River	18.9	P	1.0	08	30	2005	
40	001	St. Croix River	19.3	P	0.6	08	30	2005	
40	001	St. Croix River	23.5	P	1.0	09	20	2005	
40	001	St. Croix River	30.3	P	1.0	09	20	2005	
40	001	St. Croix River	36.0	P	1.0	08	29	2005	
40	001	St. Croix River	44.1	P	1.0	08	29	2005	
40	001	St. Croix River	53.9	P	1.0	08	28	2005	

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
41	001	St. Croix River	0.6	P	1.0	08	31	2005	
50	001	Kennebec River	0.1	A	0.5	08	13	2002	
50	001	Kennebec River	0.1	A	0.5	09	23	2002	
50	001	Kennebec River	0.1	A	1.0	09	25	2008	NRSA-Overdraw
50	001	Kennebec River	0.1	A	1.0	10	03	2009	NRSA-Overdraw
50	001	Kennebec River	4.0	A	1.2	08	13	2002	
50	001	Kennebec River	4.0	A	1.2	09	23	2002	
50	001	Kennebec River	4.2	A	1.0	09	25	2008	NRSA-Overdraw
50	001	Kennebec River	4.2	A	1.0	10	03	2009	NRSA-Overdraw
50	001	Kennebec River	6.9	A	1.0	08	13	2002	
50	001	Kennebec River	6.9	A	1.0	09	23	2002	
50	001	Kennebec River	7.5	A	1.0	09	25	2008	NRSA-Base
50	001	Kennebec River	9.0	A	1.0	09	23	2008	NRSA-Overdraw
50	001	Kennebec River	9.0	A	1.0	10	02	2009	NRSA-Overdraw
50	001	Kennebec River	11.0	A	1.0	08	12	2002	
50	001	Kennebec River	11.0	A	1.0	09	22	2002	
50	001	Kennebec River	11.0	A	1.0	09	24	2008	
50	001	Kennebec River	11.0	A	1.0	10	02	2009	
50	001	Kennebec River	15.1	A	1.0	08	12	2002	
50	001	Kennebec River	15.1	A	1.0	09	22	2002	
50	001	Kennebec River	15.1	A	1.0	09	24	2008	NRSA-Overdraw
50	001	Kennebec River	15.1	A	1.0	10	02	2009	NRSA-Overdraw
50	001	Kennebec River	16.5	A	1.0	08	12	2002	
50	001	Kennebec River	16.5	A	1.0	09	22	2002	
50	001	Kennebec River	16.7	A	1.0	09	24	2008	
50	001	Kennebec River	16.7	A	1.0	10	01	2009	
50	001	Kennebec River	17.4	A	1.0	08	14	2002	
50	001	Kennebec River	17.4	A	1.0	09	24	2002	
50	001	Kennebec River	17.4	A	1.0	09	24	2008	NRSA-Overdraw
50	001	Kennebec River	17.4	A	1.0	10	01	2009	
50	001	Kennebec River	18.5	A	1.0	08	11	2002	

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
50	001	Kennebec River	20.9	A	1.0	08	11	2002	
50	001	Kennebec River	23.9	A	1.0	08	08	2002	
50	001	Kennebec River	25.1	A	1.0	08	10	2002	
50	001	Kennebec River	32.1	A	1.0	08	02	2002	
50	001	Kennebec River	32.1	A	1.0	08	07	2002	
50	001	Kennebec River	32.1	A	1.0	09	07	2002	
50	001	Kennebec River	36.5	A	1.0	08	01	2002	
50	001	Kennebec River	36.5	A	1.0	09	07	2002	
50	001	Kennebec River	38.9	A	1.0	08	08	2002	
50	001	Kennebec River	46.1	A	1.0	09	21	2002	
50	001	Kennebec River	47.1	A	1.0	08	30	2009	NRSA-Overdraw
50	001	Kennebec River	49.9	A	1.0	08	07	2002	
50	001	Kennebec River	53.2	A	1.0	08	08	2002	
50	001	Kennebec River	57.2	A	1.0	08	08	2002	
50	001	Kennebec River	59.3	A	1.0	08	15	2002	
50	001	Kennebec River	64.9	A	1.0	08	08	2002	
50	001	Kennebec River	66.1	A	1.0	08	08	2002	
50	001	Kennebec River	68.2	A	1.0	08	09	2002	
50	001	Kennebec River	72.9	A	1.0	07	15	2009	NRSA-Base
50	001	Kennebec River	72.9	A	1.0	08	30	2009	NRSA-Base
50	001	Kennebec River	74.7	A	1.0	08	09	2002	
50	100	Sebasticook River	1.8	A	1.0	09	21	2009	
50	100	Sebasticook River	3.7	A	1.0	09	21	2009	
50	100	Sebasticook River	5.3	A	1.0	09	21	2009	
50	100	Sebasticook River	5.3	A	1.0	09	25	2008	
50	100	Sebasticook River	6.3	A	1.0	05	30	2007	
50	100	Sebasticook River	12.4	A	1.0	09	22	2009	
50	100	Sebasticook River	17.3	A	1.0	09	22	2009	
50	300	Sandy River	3.5	A	1.0	07	12	2006	
50	300	Sandy River	4.3	A	1.0	09	21	2009	
50	300	Sandy River	4.6	A	1.0	07	12	2006	

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
50	300	Sandy River	5.0	A	1.0	07	12	2006	
50	300	Sandy River	5.5	A	1.0	07	12	2006	
50	300	Sandy River	5.6	A	1.0	09	20	2009	
50	300	Sandy River	6.6	A	1.0	07	12	2006	
50	300	Sandy River	6.6	A	1.0	09	20	2009	
50	300	Sandy River	8.3	A	1.0	07	13	2006	
50	300	Sandy River	9.0	A	1.0	07	13	2006	
50	300	Sandy River	9.5	A	1.0	09	20	2009	
50	500	Dead River	15.5	P	1.0	08	23	2007	
50	500	Dead River	22.0	P	1.0	09	14	2007	
50	600	West Outlet - Moosehead L.	0.8	P	1.0	08	17	2007	
50	600	West Outlet - Moosehead L.	6.7	P	1.0	08	17	2007	
50	600	West Outlet - Moosehead L.	8.4	P	0.5	08	17	2007	
50	700	East Outlet - Moosehead L.	0.9	P	1.0	08	18	2007	
50	700	East Outlet - Moosehead L.	0.9	P	1.0	08	18	2007	
50	900	Moose River	26.5	P	1.0	08	22	2007	
55	100	Quinebaug River	14.1	A	1.0	10	04	2009	NRSA-Base
55	100	Quinebaug River	15.2	A	1.0	10	04	2009	NRSA-Overdraw
55	100	Quinebaug River	21.5	A	1.0	10	10	2008	
55	100	Quinebaug River	24.9	A	1.0	10	06	2009	NRSA-Base
55	100	Quinebaug River	31.3	A	1.0	10	10	2008	NRSA-Base
55	100	Quinebaug River	38.1	A	1.0	10	05	2009	NRSA-Overdraw
55	110	Shetucket River	4.0	A	1.0	10	06	2009	NRSA-Overdraw
55	110	Shetucket River	6.3	A	1.0	10	11	2008	NRSA-Base
55	200	Farmington River	0.3	A	1.0	08	31	2009	NRSA-Base
55	200	Farmington River	2.2	A	1.0	08	31	2009	NRSA-Overdraw
55	200	Farmington River	5.6	A	1.0	09	01	2009	NRSA-Base
55	200	Farmington River	21.8	A	1.0	09	29	2009	NRSA-Overdraw
55	200	Farmington River	25.7	A	1.0	09	30	2009	NRSA-Overdraw
55	250	W. Br. Farmington River	15.3	A	1.0	09	29	2009	NRSA-Base
55	300	Pawcatuck River	4.2	A	1.0	06	28	2009	NRSA-Base

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
55	300	Pawcatuck River	4.2	A	1.0	10	07	2009	NRSA-Base
55	300	Pawcatuck River	7.6	A	1.0	06	27	2009	NRSA-Base
55	300	Pawcatuck River	8.6	A	1.0	06	27	2009	NRSA-Base
55	300	Pawcatuck River	10.1	A	1.0	09	02	2009	NRSA-Base
55	300	Pawcatuck River	12.4	A	1.0	06	28	2009	NRSA-Overdraw
55	300	Pawcatuck River	13.4	A	1.0	06	26	2009	NRSA-Base
55	300	Pawcatuck River	13.5	A	1.0	06	26	2009	NRSA-Overdraw
55	300	Pawcatuck River	18.0	A	1.0	06	25	2009	NRSA-Overdraw
55	300	Pawcatuck River	20.5	A	1.0	06	28	2009	NRSA-Overdraw
55	300	Pawcatuck River	21.9	A	1.0	06	25	2009	NRSA-Base
56	001	Housatonic River	43.1	A	1.0	09	29	2008	NRSA-Base
56	001	Housatonic River	47.9	A	1.0	09	17	2009	NRSA-Overdraw
56	001	Housatonic River	50.0	A	1.0	09	30	2008	NRSA-Base
56	001	Housatonic River	61.6	A	1.0	09	30	2008	NRSA-Base
56	001	Housatonic River	80.9	A	1.0	09	17	2009	NRSA-Overdraw
56	001	Housatonic River	90.2	A	1.0	09	16	2009	NRSA-Base
57	100	Blackstone River	5.6	A	1.0	06	22	2009	NRSA-Overdraw
57	100	Blackstone River	7.0	A	1.0	06	23	2009	NRSA-Base
57	100	Blackstone River	7.0	A	1.0	10	07	2009	NRSA-Base
57	100	Blackstone River	7.9	A	1.0	06	22	2009	NRSA-Base
57	100	Blackstone River	11.0	A	1.0	06	20	2009	NRSA-Base
57	100	Blackstone River	13.3	A	1.0	06	18	2009	NRSA-Overdraw
57	100	Blackstone River	14.7	A	1.0	06	20	2009	NRSA-Base
57	100	Blackstone River	31.7	A	1.0	08	27	2009	
57	100	Blackstone River	32.0	A	1.0	08	27	2009	
57	100	Blackstone River	37.6	A	1.0	08	26	2009	
57	100	Blackstone River	38.0	A	1.0	08	26	2009	
57	100	Blackstone River	40.8	A	1.0	08	25	2009	
57	100	Blackstone River	43.4	A	1.0	08	24	2009	
57	200	Pawtuxet River	1.3	A	1.0	06	23	2009	NRSA-Base
57	200	Pawtuxet River	3.0	A	1.0	06	21	2009	NRSA-Overdraw

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
57	200	Pawtuxet River	4.1	A	1.0	06	21	2009	NRSA-Base
57	200	Pawtuxet River	5.1	A	1.0	06	18	2009	NRSA-Overdraw
57	200	Pawtuxet River	8.2	A	1.0	06	18	2009	NRSA-Base
57	200	Pawtuxet River	8.9	A	1.0	06	18	2009	NRSA-Overdraw
57	300	Wood River	6.4	A	1.0	06	25	2009	NRSA-Overdraw
58	100	Contoocook River	3.3	A	1.0	08	13	2009	NRSA-Overdraw
58	100	Contoocook River	3.3	A	1.0	09	10	2009	NRSA-Overdraw
58	100	Contoocook River	28.7	A	0.7	09	12	2009	NRSA-Overdraw
60	001	Androscoggin River	1.5	A	1.0	07	25	2003	
60	001	Androscoggin River	4.3	A	1.0	07	25	2003	
60	001	Androscoggin River	7.0	A	1.0	07	31	2003	
60	001	Androscoggin River	8.0	A	1.0	07	31	2003	
60	001	Androscoggin River	9.6	A	1.0	07	30	2003	
60	001	Androscoggin River	10.8	A	1.0	09	03	2009	NRSA-Overdraw
60	001	Androscoggin River	12.8	A	1.0	09	07	2003	
60	001	Androscoggin River	16.0	A	1.0	07	30	2003	
60	001	Androscoggin River	20.4	A	1.0	07	27	2003	
60	001	Androscoggin River	21.9	A	1.0	07	27	2003	
60	001	Androscoggin River	22.6	A	1.0	07	27	2003	
60	001	Androscoggin River	25.2	A	1.0	07	26	2003	
60	001	Androscoggin River	26.9	A	1.0	07	26	2003	
60	001	Androscoggin River	27.9	A	1.0	07	31	2003	
60	001	Androscoggin River	31.4	A	1.0	08	02	2003	
60	001	Androscoggin River	35.4	A	1.0	09	07	2003	
60	001	Androscoggin River	38.9	A	1.0	08	01	2003	
60	001	Androscoggin River	41.2	A	1.0	08	01	2003	
60	001	Androscoggin River	46.6	A	1.0	09	11	2003	
60	001	Androscoggin River	51.1	A	1.0	09	11	2003	
60	001	Androscoggin River	52.8	A	1.0	09	11	2003	
60	001	Androscoggin River	55.8	A	1.0	09	10	2003	
60	001	Androscoggin River	57.1	A	1.0	08	02	2003	

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
60	001	Androscoggin River	58.4	A	1.0	08	02	2003	
60	001	Androscoggin River	61.7	A	1.0	09	09	2003	
60	001	Androscoggin River	66.2	A	1.0	09	09	2003	
60	001	Androscoggin River	70.8	A	1.0	09	09	2003	
60	001	Androscoggin River	76.9	A	1.0	09	08	2003	
60	001	Androscoggin River	78.5	A	1.0	09	08	2003	
60	001	Androscoggin River	79.3	A	1.0	09	08	2003	
60	001	Androscoggin River	81.6	A	1.0	08	31	2009	
60	001	Androscoggin River	83.1	A	1.0	08	14	2003	
60	001	Androscoggin River	88.7	A	1.0	08	14	2003	
60	001	Androscoggin River	97.3	A	1.0	08	14	2003	
60	001	Androscoggin River	103.7	A	1.0	08	14	2003	
60	001	Androscoggin River	112.8	A	1.0	08	08	2003	
60	001	Androscoggin River	119.8	A	1.0	08	08	2003	
60	001	Androscoggin River	123.4	A	1.0	08	13	2003	
60	001	Androscoggin River	124.4	A	1.0	08	09	2003	
60	001	Androscoggin River	128.0	A	1.0	08	12	2003	
60	001	Androscoggin River	128.6	A	1.0	08	05	2003	
60	001	Androscoggin River	130.5	A	1.0	08	05	2003	
60	001	Androscoggin River	131.5	A	1.0	08	13	2003	
60	001	Androscoggin River	132.0	A	1.0	08	09	2003	
60	001	Androscoggin River	134.1	A	1.0	08	12	2003	
60	001	Androscoggin River	139.2	A	1.0	08	07	2003	
60	001	Androscoggin River	144.7	A	1.0	08	07	2003	
60	001	Androscoggin River	148.1	A	1.0	08	04	2003	
60	001	Androscoggin River	158.8	A	1.0	08	04	2003	
60	001	Androscoggin River	164.3	A	1.0	08	04	2003	
60	001	Androscoggin River	170.9	A	1.0	08	31	2009	
60	001	Androscoggin River	171.0	A	1.0	08	14	2009	NRSA-Base
60	001	Androscoggin River	171.0	A	1.0	09	27	2009	NRSA-Base
60	700	Magalloway	15.8	P	1.0	09	13	2007	

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
60	800	Rapid River	4.9	P	1.0	09	12	2007	
60	800	Rapid River	5.9	P	1.0	09	21	2006	
60	800	Rapid River	7.3	P	0.9	09	11	2007	
65	001	Winooski River	4.1	A	1.0	08	16	2009	
65	001	Winooski River	12.4	A	1.0	09	03	2008	NRSA-Overdraw
65	001	Winooski River	15.3	A	1.0	08	21	2009	NRSA-Base
65	001	Winooski River	21.4	A	1.0	08	15	2009	NRSA-Base
65	001	Winooski River	21.4	A	1.0	09	15	2009	NRSA-Base
65	001	Winooski River	23.0	A	1.0	08	15	2009	NRSA-Overdraw
65	001	Winooski River	28.1	A	1.0	08	15	2009	NRSA-Overdraw
65	001	Winooski River	31.0	A	1.0	09	01	2008	NRSA-Base
65	001	Winooski River	48.0	A	1.0	09	04	2008	NRSA-Base
65	001	Winooski River	49.7	A	1.0	09	02	2008	NRSA-Base
66	001	Missisquoi River	40.1	A	1.0	09	05	2008	NRSA-Base
70	001	Penobscot River	0.4	A	1.0	07	30	2004	
70	001	Penobscot River	1.6	A	1.0	07	30	2004	
70	001	Penobscot River	3.3	A	1.0	07	30	2004	
70	001	Penobscot River	8.8	A	1.0	08	29	2009	NRSA-Overdraw
70	001	Penobscot River	11.7	A	1.0	07	30	2004	
70	001	Penobscot River	17.4	A	1.0	07	29	2004	
70	001	Penobscot River	26.0	A	1.0	07	29	2004	
70	001	Penobscot River	26.0	A	1.0	09	07	2004	
70	001	Penobscot River	29.0	A	1.0	07	28	2004	
70	001	Penobscot River	29.3	A	1.0	08	29	2009	NRSA-Overdraw
70	001	Penobscot River	29.3	A	1.0	09	26	2009	NRSA-Overdraw
70	001	Penobscot River	34.0	A	1.0	07	28	2004	
70	001	Penobscot River	38.8	A	1.0	07	27	2004	
70	001	Penobscot River	39.8	A	1.0	07	27	2004	
70	001	Penobscot River	39.8	P	1.0	09	22	2005	
70	001	Penobscot River	45.8	A	1.0	07	27	2004	
70	001	Penobscot River	52.0	A	1.0	07	26	2004	

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
70	001	Penobscot River	52.0	A	1.0	09	08	2004	
70	001	Penobscot River	56.3	A	1.0	07	26	2004	
70	001	Penobscot River	59.7	A	1.0	07	26	2004	
70	001	Penobscot River	64.5	A	1.0	07	24	2004	
70	001	Penobscot River	66.1	A	1.0	07	21	2004	
70	100	Stillwater Branch	0.4	A	1.0	09	09	2004	
70	100	Stillwater Branch	5.6	A	1.0	09	07	2004	
70	100	Stillwater Branch	8.7	A	1.0	07	19	2004	
70	110	Pushaw Stream	3.5	A	1.0	07	30	2004	
70	150	Passadumkeag Stream	7.0	P	1.0	06	15	2009	
70	150	Passadumkeag Stream	7.0	A	1.0	07	28	2004	
70	150	Passadumkeag Stream	7.0	P	1.0	09	25	2009	
70	200	Piscataquis River	14.9	P	1.0	08	16	2007	
70	200	Piscataquis River	24.5	A	1.0	07	19	2004	
70	250	Pleasant River	4.4	A	1.0	09	18	2008	NRSA-Base
70	300	Mattawamkeag River	1.0	P	1.0	06	15	2009	
70	300	Mattawamkeag River	1.0	P	1.0	09	25	2009	
70	300	Mattawamkeag River	11.8	P	1.0	08	11	2007	
70	300	Mattawamkeag River	36.4	P	1.0	08	10	2007	
70	300	Mattawamkeag River	48.8	P	1.0	08	07	2007	
70	350	W. Br. Mattawamkeag River	5.8	P	1.0	08	07	2007	
70	400	Kenduskeag Stream	22.0	A	1.0	09	18	2008	
70	400	Kenduskeag Stream	22.0	A	1.0	09	23	2009	
70	600	W. Br. Penobscot R.	3.7	A	1.0	07	22	2004	
70	600	W. Br. Penobscot R.	5.6	A	1.0	07	20	2004	
70	600	W. Br. Penobscot R.	11.7	A	1.0	07	20	2004	
70	600	W. Br. Penobscot R.	29.7	A	1.0	07	23	2004	
70	600	W. Br. Penobscot R.	37.6	A	1.0	07	21	2004	
70	600	W. Br. Penobscot R.	43.8	A	1.0	07	21	2004	
70	600	W. Br. Penobscot R.	47.2	A	1.0	07	22	2009	NRSA-Overdraw
70	600	W. Br. Penobscot R.	89.3	A	1.0	07	22	2004	

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
70	650	Millinocket Stream	1.9	A	1.0	07	20	2004	
70	650	Millinocket Stream	3.3	A	1.0	07	24	2004	
70	660	N. Br. Penobscot R.	11.8	A	1.0	07	22	2004	
70	700	E. Br. Penobscot R.	1.5	P	1.0	06	16	2009	
70	700	E. Br. Penobscot R.	1.5	A	1.0	07	24	2004	
70	700	E. Br. Penobscot R.	1.5	P	1.0	09	23	2009	
70	700	E. Br. Penobscot R.	6.3	P	1.0	06	16	2009	
70	700	E. Br. Penobscot R.	6.3	A	1.0	07	23	2004	
70	700	E. Br. Penobscot R.	6.3	P	1.0	09	23	2009	
70	700	E. Br. Penobscot R.	22.6	A	1.0	09	19	2008	NRSA-Base
70	700	E. Br. Penobscot R.	23.5	P	1.0	08	10	2007	
70	700	E. Br. Penobscot R.	37.1	P	1.0	08	08	2007	
70	700	E. Br. Penobscot R.	41.6	P	1.0	08	08	2007	
70	700	E. Br. Penobscot R.	46.5	P	1.0	08	09	2007	
80	001	Connecticut River	1.9	A	1.0	08	21	2009	
80	001	Connecticut River	2.0	A	1.0	09	21	2009	
80	001	Connecticut River	6.3	A	1.0	08	21	2009	
80	001	Connecticut River	8.3	A	1.0	08	21	2009	
80	001	Connecticut River	10.7	A	1.0	08	20	2009	
80	001	Connecticut River	20.3	A	1.0	08	20	2009	
80	001	Connecticut River	23.9	A	1.0	08	19	2009	
80	001	Connecticut River	29.7	A	1.0	08	19	2009	
80	001	Connecticut River	30.0	A	1.0	09	22	2009	
80	001	Connecticut River	30.5	A	1.0	08	19	2009	
80	001	Connecticut River	30.5	A	1.0	09	22	2009	
80	001	Connecticut River	32.3	A	1.0	08	18	2009	
80	001	Connecticut River	43.8	A	1.0	08	18	2009	
80	001	Connecticut River	54.3	A	1.0	08	18	2009	
80	001	Connecticut River	54.5	A	1.0	09	19	2009	
80	001	Connecticut River	55.9	A	1.0	09	19	2009	
80	001	Connecticut River	56.1	A	1.0	08	17	2009	

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
80	001	Connecticut River	57.3	A	1.0	08	17	2009	
80	001	Connecticut River	60.7	A	1.0	08	17	2009	
80	001	Connecticut River	63.4	A	1.0	08	16	2009	
80	001	Connecticut River	64.7	A	1.0	08	16	2009	
80	001	Connecticut River	65.5	A	1.0	08	16	2009	
80	001	Connecticut River	66.1	A	1.0	08	15	2009	
80	001	Connecticut River	66.9	A	1.0	09	28	2009	
80	001	Connecticut River	67.9	A	1.0	09	28	2009	NRSA-Base
80	001	Connecticut River	68.8	A	1.0	09	27	2008	
80	001	Connecticut River	72.2	A	1.0	10	01	2008	
80	001	Connecticut River	79.2	A	1.0	10	02	2008	
80	001	Connecticut River	83.3	A	1.0	10	01	2008	
80	001	Connecticut River	88.4	A	1.0	10	03	2008	
80	001	Connecticut River	89.0	A	0.7	10	02	2008	
80	001	Connecticut River	90.1	A	1.0	09	20	2009	
80	001	Connecticut River	90.1	A	1.0	10	02	2008	
80	001	Connecticut River	92.5	A	1.0	09	18	2009	
80	001	Connecticut River	92.5	A	1.0	10	03	2008	
80	001	Connecticut River	97.6	A	1.0	09	02	2008	
80	001	Connecticut River	102.3	A	1.0	09	02	2008	
80	001	Connecticut River	105.7	A	1.0	09	02	2008	
80	001	Connecticut River	114.7	A	1.0	09	01	2008	
80	001	Connecticut River	116.2	A	0.7	09	01	2008	
80	001	Connecticut River	121.9	A	1.0	10	03	2008	
80	001	Connecticut River	125.6	A	1.0	08	31	2008	
80	001	Connecticut River	131.4	A	0.7	08	31	2008	
80	001	Connecticut River	133.2	A	0.7	08	31	2008	
80	001	Connecticut River	137.4	A	1.0	08	30	2008	
80	001	Connecticut River	137.4	A	1.0	09	21	2009	
80	001	Connecticut River	139.5	A	1.0	08	30	2008	
80	001	Connecticut River	139.5	A	1.0	09	02	2009	

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
80	001	Connecticut River	144.4	A	1.0	08	30	2008	
80	001	Connecticut River	148.5	A	1.0	08	29	2008	
80	001	Connecticut River	153.8	A	1.0	08	29	2008	
80	001	Connecticut River	155.6	A	1.0	08	28	2008	
80	001	Connecticut River	161.5	A	1.0	08	28	2008	
80	001	Connecticut River	163.9	A	1.0	08	27	2008	
80	001	Connecticut River	165.6	A	1.0	08	27	2008	
80	001	Connecticut River	165.6	A	1.0	09	01	2009	
80	001	Connecticut River	166.3	A	1.0	09	01	2009	
80	001	Connecticut River	166.3	A	1.0	10	11	2008	
80	001	Connecticut River	170.9	A	1.0	10	04	2008	
80	001	Connecticut River	179.2	A	1.0	10	04	2008	
80	001	Connecticut River	181.4	A	1.0	09	09	2009	NRSA-Base
80	001	Connecticut River	194.4	A	1.0	10	06	2008	
80	001	Connecticut River	200.7	A	1.0	10	05	2008	
80	001	Connecticut River	206.4	A	1.0	09	02	2009	NRSA-Base
80	001	Connecticut River	213.1	A	1.0	10	06	2008	
80	001	Connecticut River	217.6	A	1.0	10	06	2008	
80	001	Connecticut River	221.7	A	1.0	10	07	2008	
80	001	Connecticut River	227.1	A	1.0	10	07	2008	
80	001	Connecticut River	228.5	A	1.0	10	07	2008	
80	001	Connecticut River	235.9	A	1.0	09	07	2008	
80	001	Connecticut River	243.8	A	1.0	09	06	2008	
80	001	Connecticut River	247.0	A	1.0	09	06	2008	
80	001	Connecticut River	250.9	A	1.0	09	02	2009	NRSA-Overdraw
80	001	Connecticut River	257.9	A	1.0	08	30	2008	
80	001	Connecticut River	267.8	A	1.0	10	08	2008	
80	001	Connecticut River	291.0	A	1.0	08	30	2008	
80	001	Connecticut River	302.2	A	1.0	09	01	2009	NRSA-Overdraw
80	001	Connecticut River	307.1	A	1.0	08	29	2008	
80	001	Connecticut River	313.7	A	1.0	08	29	2008	

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
80	001	Connecticut River	322.0	A	1.0	08	28	2008	
80	001	Connecticut River	323.6	A	1.0	08	28	2008	
80	100	Westfield River	15.9	A	1.0	07	21	2008	
80	100	Westfield River	34.8	A	1.0	09	01	2009	NRSA-Overdraw
80	200	Chicopee River	1.3	A	1.0	09	16	2009	NRSA-Base
80	200	Chicopee River	6.5	A	1.0	07	17	2008	NRSA-Overdraw
80	300	Deerfield River	15.0	A	1.0	07	20	2008	NRSA-Overdraw
80	400	West River	1.0	A	1.0	09	08	2008	NRSA-Overdraw
80	400	West River	6.1	A	1.0	09	08	2008	NRSA-Base
80	500	White River	1.8	A	1.0	08	18	2009	NRSA-Base
80	500	White River	4.7	A	1.0	08	19	2009	NRSA-Overdraw
80	500	White River	9.3	A	1.0	08	19	2009	NRSA-Overdraw
80	500	White River	13.4	A	1.0	08	20	2009	NRSA-Overdraw
80	500	White River	16.7	A	1.0	08	17	2009	NRSA-Base
80	500	White River	30.5	A	1.0	08	17	2009	NRSA-Overdraw
80	500	White River	30.5	A	1.0	09	14	2009	NRSA-Overdraw
80	600	Millers River	10.1	A	1.0	08	22	2009	NRSA-Overdraw
80	600	Millers River	28.4	A	1.0	08	22	2009	NRSA-Base
80	600	Millers River	28.4	A	1.0	09	15	2009	NRSA-Base
85	001	Merrimack River	5.8	A	1.0	08	20	2008	NRSA-Base
85	001	Merrimack River	6.8	A	1.0	08	20	2008	NRSA-Base
85	001	Merrimack River	20.5	A	1.0	07	22	2008	NRSA-Base
85	001	Merrimack River	23.2	A	1.0	07	23	2008	NRSA-Overdraw
85	001	Merrimack River	24.1	A	1.0	07	23	2008	NRSA-Overdraw
85	001	Merrimack River	27.4	A	1.0	08	28	2009	NRSA-Base
85	001	Merrimack River	32.0	A	1.0	08	28	2009	NRSA-Base
85	001	Merrimack River	32.0	A	1.0	09	07	2009	NRSA-Base
85	001	Merrimack River	33.0	A	1.0	07	19	2009	NRSA-Overdraw
85	001	Merrimack River	37.6	A	1.0	08	28	2009	NRSA-Overdraw
85	001	Merrimack River	42.4	A	1.0	08	27	2009	NRSA-Overdraw
85	001	Merrimack River	52.9	A	1.0	07	17	2009	NRSA-Overdraw

Appendix Table B-1. NELR fish/habitat sampling locations, 2002-9. River mile is distance from head-of-tide or mouth. Gear type: A = boat; P = raft. Sampling distance in km. Probability type is NRSA-Base draw NRSA-Overdraw.

BASIN-RIVER CODE		RIVER NAME	RIVER MILE	GEAR TYPE	SAMPLING DISTANCE	MONTH-DAY-YEAR			PROBABILITY TYPE
85	001	Merrimack River	58.4	A	1.0	09	07	2009	
85	001	Merrimack River	66.5	A	1.0	09	07	2009	
85	001	Merrimack River	81.6	A	1.0	09	05	2009	
85	001	Merrimack River	89.9	A	1.0	07	19	2009	
85	001	Merrimack River	94.3	A	1.0	09	06	2009	
85	001	Merrimack River	97.7	A	1.0	09	06	2009	
85	001	Merrimack River	99.1	A	1.0	09	06	2009	
85	001	Merrimack River	99.4	A	1.0	09	06	2009	
85	001	Merrimack River	110.5	A	1.0	09	05	2009	
85	001	Merrimack River	114.9	A	1.0	09	10	2009	NRSA-Base
85	100	Nashua River	1.5	A	1.0	08	28	2009	NRSA-Overdraw
86	001	Taunton River	13.1	A	1.0	08	17	2008	
86	001	Taunton River	14.9	A	1.0	09	18	2009	
86	001	Taunton River	15.2	A	1.0	10	09	2008	NRSA-Base
86	001	Taunton River	19.4	A	1.0	07	09	2009	
86	001	Taunton River	19.9	A	1.0	10	09	2008	
86	001	Taunton River	24.2	A	1.0	08	12	2008	NRSA-Overdraw
86	001	Taunton River	27.9	A	1.0	08	14	2008	
86	001	Taunton River	33.0	A	1.0	07	09	2009	NRSA-Base
86	001	Taunton River	34.0	A	1.0	07	09	2009	NRSA-Base
86	001	Taunton River	37.1	A	1.0	08	16	2008	

Appendix C
NELR REMAP Fish Assemblage Data 2008-9

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
Saco River - (10001)																		
Year: 2006																		
82.80	A	08/10/2006	1000	429	5(1.7)	2(8.4)	3(1.7)	4(8.4)	63(9.1)	0(0.0)	7(0.8)	4(7.3)	96(9.7)	4(8.6)	32(6.0)	0.0(10.0)	**60**	5.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
80.60	A	07/19/2006	1000	456	5(2.5)	2(8.4)	3(1.7)	3(7.3)	8(5.3)	0(0.0)	0(0.0)	14(4.6)	55(6.8)	45(4.6)	62(7.7)	0.0(10.0)	**49**	5.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
77.40	A	07/19/2006	1000	458	6(5.0)	1(7.2)	2(3.6)	4(8.4)	12(5.7)	0(0.0)	0(0.0)	3(8.3)	80(8.6)	20(7.0)	35(6.2)	0.0(10.0)	**58**	6.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
73.20	A	07/22/2006	1000	656	6(4.2)	1(7.2)	2(3.6)	3(7.3)	46(8.3)	0(0.0)	0(0.0)	5(7.2)	77(8.4)	22(6.9)	29(5.8)	0.0(10.0)	**57**	7.1
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):	0.3(1.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**7.89**				
71.40	A	07/20/2006	1000	658	5(3.3)	1(7.2)	1(6.0)	3(7.3)	9(5.3)	0(0.0)	0(0.0)	4(7.4)	40(5.7)	59(3.4)	0(0.0)	0.0(10.0)	**46**	5.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**5.45**				
62.80	A	08/11/2006	1000	726	4(3.3)	1(7.2)	2(3.6)	2(5.7)	46(8.3)	0(0.0)	0(0.0)	4(7.5)	58(7.0)	39(5.3)	0(0.0)	0.0(10.0)	**48**	5.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.8(2.2)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.8(0.8)	Diad. IBI.:	**8.45**				
57.70	A	08/11/2006	1000	729	3(1.7)	0(0.0)	2(3.6)	2(5.7)	29(7.1)	0(0.0)	0(0.0)	4(7.6)	41(5.8)	59(3.3)	0(0.0)	0.0(10.0)	**37**	4.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
52.70	A	08/11/2006	1000	785	5(3.3)	0(0.0)	1(6.0)	2(5.7)	8(5.3)	0(0.0)	0(0.0)	5(6.9)	24(4.5)	68(2.4)	40(6.5)	0.0(10.0)	**42**	4.8
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):	0.5(1.5)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**10.54**				
47.00	A	08/11/2006	1000	799	2(0.9)	0(0.0)	1(6.0)	1(3.0)	69(9.3)	0(0.0)	0(0.0)	5(7.1)	71(8.0)	29(6.2)	0(0.0)	0.0(10.0)	**42**	3.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
45.70	A	08/11/2006	1000	819	3(2.5)	0(0.0)	1(6.0)	2(5.7)	81(9.6)	0(0.0)	0(0.0)	1(12.1)	82(8.8)	18(7.3)	38(6.4)	0.0(10.0)	**57**	4.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
44.00	A	08/12/2006	1000	821	4(1.7)	1(7.2)	2(3.6)	3(7.3)	38(7.8)	0(0.0)	0(0.0)	36(2.2)	55(6.8)	38(5.3)	19(5.1)	0.0(10.0)	**48**	4.9
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):	0.5(1.5)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**8.70**				
38.60	A	08/12/2006	1000	1301	5(2.5)	1(7.2)	2(3.6)	3(7.3)	45(8.2)	0(0.0)	0(0.0)	17(4.0)	59(7.1)	28(6.3)	29(5.8)	0.0(10.0)	**52**	5.6
					Log(Eel Rel No.):	1.0(3.4)	Log(Diad. Rel No.):	1.0(3.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**11.86**				

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
32.90	A	08/12/2006	1000	1330	4(2.5)	0(0.0)	2(3.6)	2(5.7)	46(8.3)	0(0.0)	0(0.0)	13(4.6)	48(6.2)	39(5.2)	0(0.0)	0.0(10.0)	**38**	4.7
					Log(Eel Rel No.):	1.0(3.4)	Log(Diad. Rel No.):		1.0(3.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.86**	
30.90	A	08/13/2006	1000	1336	4(2.5)	1(7.2)	3(1.7)	2(5.7)	12(5.6)	0(0.0)	0(0.0)	25(3.1)	23(4.5)	67(2.6)	21(5.2)	0.0(10.0)	**40**	5.5
					Log(Eel Rel No.):	0.8(2.8)	Log(Diad. Rel No.):		0.8(2.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**10.67**	
27.30	A	07/18/2006	1000	1350	4(3.3)	0(0.0)	2(3.6)	2(5.7)	11(5.6)	0(0.0)	0(0.0)	40(2.0)	19(4.2)	77(1.6)	46(6.8)	0.0(10.0)	**36**	5.0
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
26.00	A	07/18/2006	1000	1537	6(4.2)	1(7.2)	2(3.6)	3(7.3)	44(8.2)	0(0.0)	0(0.0)	26(3.0)	56(6.9)	43(4.9)	25(5.5)	0.0(10.0)	**51**	5.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
22.30	A	07/18/2006	1000	1548	5(3.3)	0(0.0)	2(3.6)	2(5.7)	6(5.1)	0(0.0)	0(0.0)	15(4.3)	22(4.4)	78(1.5)	45(6.8)	0.0(10.0)	**37**	5.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
20.60	A	07/16/2006	1000	1556	6(4.2)	1(7.2)	2(3.6)	3(7.3)	37(7.7)	0(0.0)	0(0.0)	8(5.9)	72(8.0)	28(6.3)	41(6.5)	0.0(10.0)	**56**	6.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
19.30	A	07/16/2006	1000	1561	6(5.0)	1(7.2)	2(3.6)	3(7.3)	8(5.3)	0(0.0)	0(0.0)	13(4.6)	56(6.8)	29(6.2)	34(6.1)	0.5(1.4)	**45**	6.5
					Log(Eel Rel No.):	1.5(5.2)	Log(Diad. Rel No.):		1.5(4.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.16**	
15.30	A	07/16/2006	1000	1580	5(4.2)	0(0.0)	2(3.6)	2(5.7)	12(5.6)	0(0.0)	0(0.0)	10(5.3)	52(6.6)	47(4.5)	59(7.6)	0.0(10.0)	**44**	6.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
13.90	A	07/17/2006	1000	1591	4(2.5)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	54(1.2)	13(3.7)	73(2.0)	24(5.4)	0.0(10.0)	**26**	4.7
					Log(Eel Rel No.):	1.0(3.3)	Log(Diad. Rel No.):		1.0(2.9)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.61**	
12.40	A	07/16/2006	1000	1605	2(0.9)	0(0.0)	2(3.6)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	28(2.8)	0(0.0)	99(0.0)	0(0.0)	0.0(10.0)	**14**	2.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
11.00	A	07/15/2006	1000	1625	6(6.6)	1(7.2)	5(0.0)	1(3.0)	26(6.9)	0(0.0)	0(0.0)	4(7.6)	11(3.6)	58(3.4)	66(7.9)	0.4(1.5)	**40**	7.2
					Log(Eel Rel No.):	1.5(5.1)	Log(Diad. Rel No.):		1.9(6.2)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.7(1.0)	Diad. IBI.:	**20.00**	
8.00	A	07/15/2006	1000	1631	4(3.3)	0(0.0)	3(1.7)	1(3.0)	77(9.5)	0(0.0)	0(0.0)	7(6.3)	8(3.4)	89(0.4)	73(8.2)	0.0(10.0)	**38**	4.8
					Log(Eel Rel No.):	0.9(3.0)	Log(Diad. Rel No.):		0.9(2.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.01**	
4.80	A	07/16/2006	500	1647	6(5.0)	0(0.0)	2(3.6)	2(5.7)	11(5.6)	0(0.0)	0(0.0)	16(4.2)	35(5.3)	41(5.0)	90(9.0)	0.0(10.0)	**45**	6.5
					Log(Eel Rel No.):	1.5(5.0)	Log(Diad. Rel No.):		1.5(4.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**14.85**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
4.00	A	07/15/2006	1000	1648	4(1.7)	0(0.0)	3(1.7)	1(3.0)	11(5.6)	0(0.0)	0(0.0)	14(4.6)	44(6.0)	51(4.1)	0(0.0)	0.0(10.0)	**31**	4.8
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):	0.6(1.8)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**9.34**				
0.40	A	07/14/2006	1000	1735	4(2.5)	0(0.0)	2(3.6)	1(3.0)	6(5.1)	0(0.0)	0(0.0)	23(3.3)	14(3.8)	80(1.3)	52(7.2)	0.0(10.0)	**33**	4.0
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):	0.3(1.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**7.89**				
0.30	A	07/14/2006	1000	1735	4(2.5)	0(0.0)	1(6.0)	2(5.7)	3(4.7)	0(0.0)	0(0.0)	26(3.0)	28(4.8)	62(3.1)	63(7.7)	0.0(10.0)	**40**	4.5
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):	0.6(1.8)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**9.34**				
0.00	A	07/14/2006	1000	1736	6(3.3)	0(0.0)	4(0.5)	1(3.0)	41(8.0)	0(0.0)	0(0.0)	12(4.8)	5(3.1)	60(3.2)	0(0.0)	1.2(0.9)	**22**	6.0
					Log(Eel Rel No.):	1.6(5.3)	Log(Diad. Rel No.):	1.8(5.5)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:	0.8(0.8)	Diad. IBI.:	**23.89**				
0.00	A	09/25/2006	1000	1736	4(2.5)	0(0.0)	2(3.6)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	3(8.6)	76(8.3)	5(8.5)	0(0.0)	0.0(10.0)	**35**	5.3
					Log(Eel Rel No.):	1.8(6.2)	Log(Diad. Rel No.):	1.8(5.7)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**19.57**				
Year: 2008																		
1.10	A	09/17/2008	4000	1683	4(3.3)	0(0.0)	2(3.6)	1(3.0)	3(4.8)	0(0.0)	0(0.0)	5(6.9)	5(3.1)	86(0.8)	0(0.0)	0.0(10.0)	**30**	1.9
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):	0.5(1.5)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**8.70**				
Year: 2009																		
24.40	A	09/03/2009	1000	1540	6(5.8)	0(0.0)	3(1.7)	3(7.3)	43(8.1)	0(0.0)	0(0.0)	8(5.9)	58(7.0)	41(5.0)	0(0.0)	0.0(10.0)	**42**	6.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**5.45**				
12.50	A	09/04/2009	1000	1592	4(2.5)	0(0.0)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	18(3.8)	1(2.8)	98(0.0)	8(4.3)	0.0(10.0)	**22**	4.2
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):	0.3(1.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**7.89**				
1.10	A	09/04/2009	1000	1683	4(3.3)	0(0.0)	4(0.5)	1(3.0)	35(7.6)	0(0.0)	0(0.0)	8(5.8)	9(3.4)	90(0.4)	22(5.3)	1.1(1.0)	**25**	6.0
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):	0.5(1.5)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**8.70**				
1.00	A	09/04/2009	1000	1683	4(3.3)	0(0.0)	4(0.5)	1(3.0)	35(7.6)	0(0.0)	0(0.0)	8(5.8)	9(3.4)	90(0.4)	22(5.3)	1.1(1.0)	**25**	6.0
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):	0.5(1.5)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**8.70**				
Saco River Old Course - (10100)																		
Year: 2006																		
3.60	A	07/19/2006	1000	133	7(5.8)	0(0.0)	2(3.6)	3(7.3)	3(4.8)	0(0.0)	0(0.0)	9(5.6)	16(4.0)	82(1.1)	19(5.1)	4.4(0.3)	**31**	5.8
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):	0.6(1.8)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**9.34**				

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
Ossipee River - (10500)																		
Year: 2006																		
17.20	A	08/19/2006	1000	331	8(6.6)	1(7.2)	2(3.6)	4(8.4)	14(5.9)	0(0.0)	0(0.0)	7(6.2)	10(3.5)	81(1.2)	11(4.5)	0.0(10.0)	**48**	5.9
					Log(Eel Rel No.):	1.3(4.4)	Log(Diad. Rel No.):		1.3(3.9)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.73**	
11.20	A	08/19/2006	1000	390	9(8.3)	1(7.2)	2(3.6)	4(8.4)	8(5.3)	0(0.0)	0(0.0)	6(6.5)	19(4.2)	76(1.7)	14(4.7)	0.7(1.2)	**43**	6.0
					Log(Eel Rel No.):	0.9(3.0)	Log(Diad. Rel No.):		0.9(2.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.01**	
Presumpscot River - (20001)																		
Year: 2006																		
21.10	P	08/14/2006	1000	445	3(1.7)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	35(2.2)	1(2.8)	85(0.8)	0(0.0)	0.0(10.0)	**20**	2.5
					Log(Eel Rel No.):	1.1(3.8)	Log(Diad. Rel No.):		1.1(3.3)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.53**	
20.60	A	08/14/2006	1000	446	4(4.2)	0(0.0)	2(3.6)	1(3.0)	1(4.5)	0(0.0)	0(0.0)	22(3.4)	1(2.8)	93(0.0)	0(0.0)	0.0(10.0)	**26**	3.2
					Log(Eel Rel No.):	1.0(3.2)	Log(Diad. Rel No.):		1.0(2.7)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.32**	
19.90	A	08/14/2006	1000	446	5(2.5)	1(7.2)	2(3.6)	2(5.7)	0(0.0)	0(0.0)	0(0.0)	59(1.0)	17(4.0)	67(2.6)	37(6.3)	0.0(10.0)	**36**	6.1
					Log(Eel Rel No.):	1.4(4.8)	Log(Diad. Rel No.):		1.4(4.2)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**14.50**	
18.80	A	08/14/2006	1000	448	3(0.9)	0(0.0)	2(3.6)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	32(2.5)	0(0.0)	85(0.8)	0(0.0)	0.0(10.0)	**15**	2.2
					Log(Eel Rel No.):	1.2(3.9)	Log(Diad. Rel No.):		1.2(3.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.73**	
18.10	A	08/15/2006	1000	449	5(4.2)	0(0.0)	2(3.6)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	29(2.8)	5(3.1)	65(2.8)	14(4.8)	0.0(10.0)	**32**	4.7
					Log(Eel Rel No.):	1.8(6.3)	Log(Diad. Rel No.):		1.8(5.7)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**17.47**	
15.60	A	08/15/2006	1000	523	7(5.8)	0(0.0)	3(1.7)	1(3.0)	6(5.1)	0(0.0)	0(0.0)	6(6.5)	36(5.4)	54(3.8)	6(4.1)	0.0(10.0)	**38**	6.0
					Log(Eel Rel No.):	1.6(5.5)	Log(Diad. Rel No.):		1.6(4.9)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.79**	
14.90	A	08/15/2006	1000	524	5(4.2)	0(0.0)	3(1.7)	2(5.7)	5(5.0)	0(0.0)	0(0.0)	36(2.2)	13(3.7)	63(2.9)	7(4.2)	0.0(10.0)	**33**	4.9
					Log(Eel Rel No.):	1.4(4.7)	Log(Diad. Rel No.):		1.4(4.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**14.27**	
14.10	A	08/16/2006	1000	524	6(5.0)	0(0.0)	2(3.6)	2(5.7)	19(6.4)	0(0.0)	0(0.0)	11(5.1)	16(3.9)	39(5.2)	0(0.0)	0.0(10.0)	**37**	5.1
					Log(Eel Rel No.):	2.0(7.1)	Log(Diad. Rel No.):		2.0(6.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**18.87**	
13.10	A	08/16/2006	1000	529	4(1.7)	0(0.0)	2(3.6)	2(5.7)	11(5.6)	0(0.0)	0(0.0)	40(2.0)	14(3.8)	53(3.9)	6(4.1)	0.0(10.0)	**34**	4.2
					Log(Eel Rel No.):	1.7(6.0)	Log(Diad. Rel No.):		1.7(5.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**16.87**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
12.60	A	08/16/2006	1000	529	5(3.3)	0(0.0)	2(3.6)	2(5.7)	19(6.3)	0(0.0)	0(0.0)	34(2.3)	5(3.2)	59(3.4)	0(0.0)	1.5(0.8)	**24**	3.7
					Log(Eel Rel No.):	1.7(5.8)	Log(Diad. Rel No.):		1.7(5.2)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**16.41**	
11.30	A	08/16/2006	1000	586	3(2.5)	0(0.0)	2(3.6)	1(3.0)	10(5.5)	0(0.0)	0(0.0)	21(3.6)	3(3.0)	42(4.9)	0(0.0)	0.0(10.0)	**30**	3.1
					Log(Eel Rel No.):	1.6(5.5)	Log(Diad. Rel No.):		1.6(4.9)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.79**	
11.30	A	09/26/2006	1000	586	4(0.9)	0(0.0)	1(6.0)	2(5.7)	10(5.5)	0(0.0)	0(0.0)	12(4.9)	13(3.7)	12(7.8)	9(4.4)	0.0(10.0)	**41**	3.0
					Log(Eel Rel No.):	2.0(7.0)	Log(Diad. Rel No.):		2.0(6.3)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**21.07**	
8.60	A	08/16/2006	1000	594	5(4.2)	0(0.0)	2(3.6)	2(5.7)	24(6.7)	0(0.0)	0(0.0)	14(4.5)	9(3.4)	72(2.0)	0(0.0)	0.0(10.0)	**33**	5.1
					Log(Eel Rel No.):	1.3(4.3)	Log(Diad. Rel No.):		1.3(3.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.58**	
7.60	A	08/18/2006	1000	595	5(4.2)	0(0.0)	3(1.7)	2(5.7)	13(5.8)	0(0.0)	0(0.0)	20(3.7)	5(3.1)	64(2.8)	25(5.5)	0.0(10.0)	**35**	5.5
					Log(Eel Rel No.):	1.8(6.3)	Log(Diad. Rel No.):		1.8(5.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**17.36**	
7.60	A	09/25/2006	1000	595	4(2.5)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	29(2.7)	22(4.4)	59(3.4)	60(7.6)	0.0(10.0)	**31**	4.8
					Log(Eel Rel No.):	0.9(3.0)	Log(Diad. Rel No.):		0.9(2.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.01**	
6.40	A	08/17/2006	1000	596	3(0.9)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	51(1.4)	6(3.2)	54(3.8)	33(6.1)	1.2(1.0)	**21**	4.6
					Log(Eel Rel No.):	1.5(5.0)	Log(Diad. Rel No.):		1.5(4.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.5(0.7)	Diad. IBI.:	**18.04**	
6.40	A	09/26/2006	1000	596	4(0.9)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	41(1.9)	13(3.7)	44(4.8)	50(7.1)	0.0(10.0)	**31**	4.8
					Log(Eel Rel No.):	1.7(5.9)	Log(Diad. Rel No.):		1.7(5.3)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**16.68**	
5.50	A	08/17/2006	1000	598	5(1.7)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	35(2.3)	21(4.3)	37(5.5)	35(6.2)	0.0(10.0)	**33**	4.7
					Log(Eel Rel No.):	1.3(4.4)	Log(Diad. Rel No.):		1.3(3.9)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**16.07**	
5.50	A	09/26/2006	1000	598	3(0.9)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	29(2.7)	10(3.5)	32(5.9)	8(4.3)	0.0(10.0)	**28**	3.9
					Log(Eel Rel No.):	1.9(6.7)	Log(Diad. Rel No.):		1.9(6.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**18.08**	
3.70	A	08/17/2006	1000	613	3(0.0)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	36(2.2)	3(3.0)	43(4.9)	0(0.0)	0.0(10.0)	**24**	2.3
					Log(Eel Rel No.):	1.5(5.2)	Log(Diad. Rel No.):		1.5(4.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.16**	
3.70	A	09/26/2006	1000	613	4(2.5)	1(7.2)	3(1.7)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	7(6.3)	9(3.4)	11(7.9)	28(5.7)	0.0(10.0)	**40**	3.8
					Log(Eel Rel No.):	2.0(7.2)	Log(Diad. Rel No.):		2.0(6.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**22.11**	
0.70	A	08/17/2006	1000	641	3(0.0)	0(0.0)	1(6.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	29(2.8)	0(0.0)	44(4.8)	0(0.0)	0.0(10.0)	**20**	1.9
					Log(Eel Rel No.):	1.7(5.7)	Log(Diad. Rel No.):		1.7(5.1)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**18.57**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
Year: 2007																		
7.40	A	05/29/2007	1000	595	4(0.9)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	27(2.9)	13(3.8)	44(4.7)	38(6.4)	0.0(10.0)	**31**	4.3
					Log(Eel Rel No.):	1.3(4.5)	Log(Diad. Rel No.):		1.3(3.9)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.87**	
7.40	A	05/30/2007	1000	595	3(0.0)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	37(2.1)	23(4.5)	37(5.5)	47(6.9)	3.3(0.5)	**24**	4.1
					Log(Eel Rel No.):	1.1(3.6)	Log(Diad. Rel No.):		1.1(3.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.09**	
6.40	A	05/30/2007	1000	596	6(2.5)	1(7.2)	2(3.6)	2(5.7)	2(4.7)	0(0.0)	0(0.0)	33(2.4)	15(3.9)	33(5.9)	25(5.5)	4.3(0.3)	**35**	5.0
					Log(Eel Rel No.):	1.3(4.3)	Log(Diad. Rel No.):		1.4(4.1)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.6(0.7)	Diad. IBI.:	**19.12**	
6.40	A	06/01/2007	1000	596	6(2.5)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	30(2.7)	15(3.9)	33(5.8)	21(5.2)	7.4(0.1)	**24**	4.7
					Log(Eel Rel No.):	1.1(3.6)	Log(Diad. Rel No.):		1.1(3.3)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**17.44**	
5.40	A	05/30/2007	1000	598	3(0.0)	1(7.2)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	32(2.5)	7(3.3)	43(4.9)	20(5.2)	3.6(0.4)	**25**	2.7
					Log(Eel Rel No.):	1.1(3.8)	Log(Diad. Rel No.):		1.1(3.3)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.53**	
5.40	A	06/01/2007	1000	598	4(1.7)	1(7.2)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	31(2.5)	19(4.1)	34(5.7)	45(6.8)	6.3(0.2)	**29**	4.9
					Log(Eel Rel No.):	1.0(3.4)	Log(Diad. Rel No.):		1.2(3.4)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.6(0.7)	Diad. IBI.:	**15.28**	
3.70	A	05/30/2007	1000	613	3(0.0)	1(7.2)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	7(6.1)	15(3.9)	26(6.5)	52(7.2)	0.0(10.0)	**40**	3.4
					Log(Eel Rel No.):	1.2(4.0)	Log(Diad. Rel No.):		1.2(3.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.92**	
3.70	A	06/01/2007	1000	613	4(0.9)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	25(3.1)	17(4.0)	42(5.0)	17(5.0)	0.0(10.0)	**31**	4.2
					Log(Eel Rel No.):	1.0(3.2)	Log(Diad. Rel No.):		1.0(2.9)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.73**	
0.70	A	05/30/2007	1000	641	4(0.9)	1(7.2)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	38(2.0)	27(4.7)	42(4.9)	42(6.6)	3.8(0.4)	**28**	4.7
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		0.9(2.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.5(0.7)	Diad. IBI.:	**13.35**	
0.70	A	06/01/2007	1000	641	4(0.9)	1(7.2)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	38(2.1)	8(3.4)	39(5.2)	43(6.7)	0.0(10.0)	**35**	5.2
					Log(Eel Rel No.):	1.2(3.9)	Log(Diad. Rel No.):		1.5(4.5)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.2(0.9)	Diad. IBI.:	**17.00**	
0.10	A	05/29/2007	1000	642	5(1.7)	0(0.0)	0(10.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	2(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**37**	6.8
					Log(Eel Rel No.):	1.2(3.9)	Log(Diad. Rel No.):		2.0(6.5)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		1.8(1.0)	Diad. IBI.:	**23.60**	
0.10	A	05/31/2007	1000	642	4(1.7)	0(0.0)	1(6.0)	1(3.0)	2(4.7)	0(0.0)	0(0.0)	5(7.1)	2(3.0)	7(8.3)	0(0.0)	0.0(10.0)	**37**	5.2
					Log(Eel Rel No.):	1.1(3.6)	Log(Diad. Rel No.):		1.4(4.3)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.58**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
Piscataqua River - (20100)																		
Year: 2006																		
1.00	P	08/17/2006	500	21	8(5.8)	1(7.2)	3(1.7)	2(5.7)	38(7.8)	0(0.0)	0(0.0)	5(7.2)	84(8.9)	9(8.1)	0(0.0)	0.2(1.7)	**45**	6.9
					Log(Eel Rel No.):	1.7(5.9)	Log(Diad. Rel No.):		1.7(5.4)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:			0.6(0.7)	Diad. IBI.:	**19.81**	
Pleasant River - (20200)																		
Year: 2006																		
1.00	P	08/15/2006	750	63	6(5.0)	0(0.0)	2(3.6)	2(5.7)	39(7.8)	0(0.0)	0(0.0)	6(6.4)	58(7.0)	42(5.0)	27(5.7)	0.0(10.0)	**47**	6.6
					Log(Eel Rel No.):	0.1(1.0)	Log(Diad. Rel No.):		0.1(0.7)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**7.14**	
Little River - (20300)																		
Year: 2006																		
1.00	P	08/16/2006	1000	50	8(6.6)	2(8.4)	3(1.7)	2(5.7)	69(9.3)	0(9.5)	0(0.0)	9(5.5)	87(9.1)	11(7.9)	0(0.0)	0.1(2.0)	**55**	6.8
					Log(Eel Rel No.):	1.1(3.8)	Log(Diad. Rel No.):		1.1(3.3)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**12.53**	
Presumpscot River - (21001)																		
Year: 2006																		
0.40	A	08/18/2006	1000	642	11(8.3)	1(7.2)	2(3.6)	4(8.4)	9(5.4)	0(0.0)	0(0.0)	6(6.4)	9(3.4)	14(7.7)	0(0.0)	0.0(10.0)	**50**	7.2
					Log(Eel Rel No.):	1.5(5.0)	Log(Diad. Rel No.):		2.3(7.9)	No. Diad. Sp.:	5(10.0)	Log(Clupeid Rel. No.:			2.1(1.0)	Diad. IBI.:	**23.86**	
0.40	A	09/27/2006	1000	642	8(5.0)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	4(7.9)	0(0.0)	10(8.0)	0(0.0)	0.0(10.0)	**31**	6.9
					Log(Eel Rel No.):	1.4(4.7)	Log(Diad. Rel No.):		2.1(6.8)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:			1.7(1.0)	Diad. IBI.:	**24.68**	
Year: 2007																		
0.40	A	06/01/2007	1000	642	5(1.7)	0(0.0)	1(6.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	14(4.6)	0(0.0)	14(7.7)	0(0.0)	1.5(0.8)	**17**	5.8
					Log(Eel Rel No.):	1.2(4.0)	Log(Diad. Rel No.):		1.7(5.3)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:			0.7(0.8)	Diad. IBI.:	**22.28**	
St. John River - (30001)																		
Year: 2005																		
314.60	A	07/21/2005	1000	2364	8(5.0)	4(9.6)	1(6.0)	7(10.0)	79(9.6)	0(0.0)	74(8.1)	0(10.0)	95(10.0)	5(8.5)	0(0.0)	0.0(10.0)	**72**	5.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
303.80	A	07/21/2005	1000	2196	9(5.0)	4(9.6)	1(6.0)	7(10.0)	64(9.1)	0(0.0)	71(7.8)	0(10.0)	97(10.0)	3(8.7)	7(4.2)	0.0(10.0)	**75**	5.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
290.60	A	07/22/2005	1000	2685	8(4.2)	4(9.6)	1(6.0)	7(10.0)	66(9.2)	0(0.0)	58(6.4)	0(10.0)	99(10.0)	1(8.9)	22(5.3)	0.0(10.0)	**75**	6.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
277.00	A	07/22/2005	1000	2784	7(4.2)	3(9.1)	1(6.0)	6(10.0)	85(9.7)	0(0.0)	83(9.1)	0(10.0)	97(8.8)	3(8.7)	0(0.0)	0.0(10.0)	**71**	4.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
277.00	P	08/25/2005	1000	2784	7(3.3)	3(9.1)	1(6.0)	6(10.0)	82(9.6)	0(0.0)	47(5.2)	1(11.3)	99(10.0)	1(8.9)	0(0.0)	0.0(10.0)	**70**	6.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
270.50	A	07/23/2005	1000	3405	8(5.0)	4(9.6)	1(6.0)	7(10.0)	78(9.5)	0(0.0)	34(3.7)	0(10.0)	99(8.8)	1(8.8)	2(3.8)	0.0(10.0)	**71**	6.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
266.90	A	07/23/2005	1000	3540	8(4.2)	3(9.1)	2(3.6)	6(10.0)	80(9.6)	0(0.0)	73(8.0)	0(10.0)	97(8.8)	3(8.7)	0(0.0)	0.0(10.0)	**68**	4.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
258.90	A	07/23/2005	1000	3560	7(3.3)	3(9.1)	1(6.0)	6(10.0)	36(7.7)	0(0.0)	45(5.0)	0(10.0)	91(8.8)	9(8.1)	4(4.0)	0.0(10.0)	**68**	4.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
244.30	A	07/25/2005	1000	3850	9(5.8)	4(9.6)	1(6.0)	7(10.0)	57(8.8)	0(0.0)	61(6.7)	11(5.1)	88(9.2)	12(7.8)	0(0.0)	0.0(10.0)	**66**	5.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
237.70	A	07/25/2005	1000	5051	9(5.0)	4(9.6)	0(10.0)	7(10.0)	57(8.8)	0(0.0)	45(4.9)	0(10.0)	100(8.9)	0(9.0)	122(9.9)	2.1(0.7)	**72**	6.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
229.40	A	07/25/2005	1000	5580	9(5.8)	3(9.1)	1(6.0)	5(9.3)	13(5.8)	0(0.0)	7(0.8)	0(10.0)	77(8.9)	23(6.8)	0(0.0)	1.5(0.8)	**53**	5.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
222.20	A	07/26/2005	1500	5593	8(5.0)	2(8.4)	1(6.0)	4(8.4)	21(6.5)	0(0.0)	2(0.2)	0(10.0)	93(8.9)	7(8.3)	20(5.2)	0.0(10.0)	**64**	5.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
214.80	A	07/26/2005	1000	6002	7(4.2)	1(7.2)	1(6.0)	4(8.4)	46(8.3)	0(0.0)	4(0.5)	2(9.7)	83(8.9)	17(7.4)	0(0.0)	0.0(10.0)	**59**	5.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
204.50	A	07/26/2005	1000	6170	8(5.0)	3(9.1)	1(6.0)	4(8.4)	21(6.5)	3(9.5)	5(0.5)	0(10.0)	90(0.0)	10(8.0)	0(0.0)	0.9(1.1)	**53**	6.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				

Year: 2008

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
279.10	A	09/20/2008	1000	4015	6(3.3)	4(9.6)	1(6.0)	5(9.3)	77(9.5)	0(0.0)	4(0.5)	0(10.0)	79(7.0)	1(8.9)	0(0.0)	0.0(10.0)	**62**	5.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
278.70	A	09/20/2008	1000	4016	9(5.8)	3(9.1)	2(3.6)	5(9.3)	79(9.6)	0(0.0)	2(0.2)	0(10.0)	71(7.0)	18(7.2)	0(0.0)	0.0(10.0)	**60**	6.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
278.70	A	08/26/2008	3480	2784	6(3.3)	2(8.4)	1(6.0)	5(9.3)	87(9.7)	0(0.0)	45(5.0)	0(10.0)	97(9.3)	3(8.7)	0(0.0)	0.0(10.0)	**66**	4.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
210.70	A	09/20/2008	1000	8241	3(0.9)	0(0.0)	2(3.6)	2(5.7)	67(9.2)	0(0.0)	0(0.0)	0(10.0)	38(7.0)	42(5.0)	0(0.0)	0.0(10.0)	**43**	4.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
210.10	A	09/20/2008	1000	8245	4(1.7)	0(0.0)	2(3.6)	2(5.7)	70(9.3)	0(0.0)	0(0.0)	0(10.0)	48(0.0)	48(4.3)	0(0.0)	0.0(10.0)	**37**	4.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
210.00	A	09/20/2008	1000	8245	4(1.7)	0(0.0)	2(3.6)	2(5.7)	70(9.3)	0(0.0)	0(0.0)	0(10.0)	48(7.0)	48(4.3)	0(0.0)	0.0(10.0)	**43**	4.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
210.00	A	08/28/2008	2480	6170	6(3.3)	0(0.0)	2(3.6)	3(7.3)	49(8.4)	0(0.0)	12(1.3)	2(9.6)	94(9.7)	6(8.4)	0(0.0)	0.0(10.0)	**51**	4.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
210.00	A	09/11/2008	1830	6170	8(5.0)	1(7.2)	2(3.6)	3(7.3)	78(9.5)	0(9.5)	13(1.4)	1(12.3)	90(9.3)	10(8.0)	0(0.0)	0.0(10.0)	**69**	4.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
Year: 2009																		
288.30	A	07/12/2009	1000	2687	7(4.2)	3(9.1)	1(6.0)	6(10.0)	36(7.7)	0(0.0)	30(3.3)	0(10.0)	95(8.8)	5(8.5)	0(0.0)	0.0(10.0)	**65**	5.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
286.80	A	07/12/2009	1000	2687	7(4.2)	3(9.1)	0(10.0)	5(9.3)	14(5.9)	3(9.5)	23(2.5)	0(10.0)	94(8.8)	3(8.7)	0(0.0)	0.0(10.0)	**73**	5.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**5.45**				
272.00	A	07/12/2009	1000	4634	5(2.5)	2(8.4)	1(6.0)	4(8.4)	95(9.7)	0(0.0)	21(2.3)	0(10.0)	22(8.8)	79(1.4)	0(0.0)	0.0(10.0)	**56**	4.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
253.00	A	07/13/2009	1000	5885	5(2.5)	1(7.2)	1(6.0)	4(8.4)	23(6.6)	0(0.0)	40(4.4)	16(4.2)	82(8.8)	18(7.3)	0(0.0)	0.0(10.0)	**55**	3.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
Meduxnekeag River - (30100)																		
Year: 2007																		
16.20	P	08/06/2007	350	260	6(2.5)	2(8.4)	2(3.6)	4(8.4)	46(8.3)	0(0.0)	10(1.1)	38(2.1)	62(7.3)	38(5.4)	11(4.5)	0.6(1.3)	**44**	6.4
					Log(Eel Rel No.):	0.5(1.7)	Log(Diad. Rel No.):	0.5(1.4)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**8.60**				
Allagash River - (30500)																		
Year: 2005																		
64.90	P	08/24/2005	560	302	13(10.0)	4(9.6)	0(10.0)	6(10.0)	52(8.6)	1(9.5)	6(0.7)	0(10.0)	53(7.3)	47(4.5)	8(4.3)	0.2(1.9)	**72**	8.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
36.80	P	08/26/2005	1000	709	11(7.5)	5(10.0)	0(10.0)	6(10.0)	61(9.0)	3(9.5)	34(3.7)	0(10.0)	90(7.3)	10(8.1)	246(10.0)	0.0(10.0)	**88**	7.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
32.20	P	08/26/2005	1000	760	11(6.6)	5(10.0)	0(10.0)	7(10.0)	50(8.5)	0(9.5)	41(4.5)	0(10.0)	97(7.3)	3(8.7)	182(10.0)	0.0(10.0)	**88**	7.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
25.00	P	08/26/2005	1000	969	11(6.6)	5(10.0)	0(10.0)	7(10.0)	74(9.4)	0(9.5)	62(6.8)	0(10.0)	98(7.3)	2(8.8)	44(6.7)	0.0(10.0)	**88**	6.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
6.00	P	08/25/2005	1000	1227	8(4.2)	4(9.6)	1(6.0)	6(10.0)	84(9.6)	0(9.5)	55(6.0)	0(10.0)	99(7.3)	1(8.9)	0(0.0)	0.0(10.0)	**76**	5.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
1.20	P	08/25/2005	810	1238	10(5.8)	4(9.6)	0(10.0)	7(10.0)	64(9.1)	0(0.0)	47(5.2)	0(10.0)	96(7.3)	4(8.6)	0(0.0)	0.5(1.4)	**64**	7.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
Year: 2006																		
63.20	P	09/16/2006	1000	303	15(10.0)	5(10.0)	0(10.0)	6(10.0)	63(9.1)	3(9.5)	34(3.8)	0(10.0)	83(7.3)	17(7.4)	9(4.4)	0.0(10.0)	**85**	8.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
59.70	P	09/16/2006	250	330	9(5.8)	3(9.1)	0(10.0)	5(9.3)	65(9.2)	4(9.5)	61(6.7)	0(10.0)	94(7.3)	6(8.4)	0(0.0)	0.0(10.0)	**79**	7.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
36.80	P	09/14/2006	1000	709	14(10.0)	4(9.6)	0(10.0)	7(10.0)	69(9.3)	1(9.5)	28(3.0)	0(10.0)	94(7.3)	6(8.4)	54(7.3)	0.0(10.0)	**87**	7.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
21.10	P	09/15/2006	900	993	11(6.6)	4(9.6)	0(10.0)	7(10.0)	68(9.3)	0(0.0)	59(6.5)	0(10.0)	96(7.3)	4(8.6)	104(9.4)	0.0(10.0)	**81**	6.1
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **0.00**					
Fish River - (30600)																		
Year: 2006																		
8.10	P	09/13/2006	1000	1010	11(7.5)	5(10.0)	0(10.0)	5(9.3)	52(8.6)	6(9.5)	47(5.1)	0(10.0)	94(8.7)	6(8.4)	90(9.0)	0.7(1.2)	**81**	7.1
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **0.00**					
5.00	P	09/12/2006	1000	1058	10(7.5)	5(10.0)	1(6.0)	7(10.0)	47(8.4)	0(0.0)	18(2.0)	14(4.5)	82(8.7)	18(7.2)	29(5.8)	0.0(10.0)	**67**	7.3
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **0.00**					
Year: 2009																		
2.40	A	07/11/2009	1000	868	11(7.5)	6(10.0)	1(6.0)	7(10.0)	14(5.9)	9(9.5)	23(2.5)	0(10.0)	91(8.8)	2(8.8)	0(0.0)	0.0(10.0)	**74**	6.9
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 1.0(2.7)		No. Diad. Sp.: 1(5.5)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **8.16**					
Aroostook River - (30800)																		
Year: 2005																		
94.00	A	07/19/2005	830	560	9(5.0)	4(9.6)	0(10.0)	7(10.0)	76(9.5)	0(0.0)	71(7.7)	0(10.0)	99(8.7)	1(8.8)	47(6.9)	0.0(10.0)	**80**	6.4
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **0.00**					
76.60	A	07/19/2005	580	855	7(4.2)	3(9.1)	0(10.0)	5(9.3)	72(9.4)	0(0.0)	41(4.5)	0(10.0)	98(8.7)	2(8.8)	95(9.1)	0.0(10.0)	**78**	6.7
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **0.00**					
65.30	A	07/19/2005	900	1405	6(2.5)	2(8.4)	0(10.0)	5(9.3)	69(9.3)	0(0.0)	57(6.3)	0(10.0)	100(8.7)	0(10.0)	137(10.0)	0.0(10.0)	**79**	5.6
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **0.00**					
44.00	A	07/20/2005	1000	1598	12(8.3)	5(10.0)	0(10.0)	6(10.0)	66(9.2)	2(9.5)	53(5.8)	0(10.0)	94(8.7)	6(8.4)	146(10.0)	0.0(10.0)	**92**	6.4
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **0.00**					
33.60	A	07/20/2005	1000	1872	10(6.6)	3(9.1)	0(10.0)	6(10.0)	50(8.5)	0(0.0)	39(4.3)	0(10.0)	97(8.7)	3(8.7)	63(7.8)	0.5(1.4)	**71**	6.4
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **0.00**					
21.70	A	07/20/2005	1000	1915	7(3.3)	2(8.4)	0(10.0)	4(8.4)	51(8.6)	12(9.4)	1(0.1)	0(10.0)	99(8.7)	1(8.8)	0(0.0)	0.5(1.4)	**64**	5.4
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **0.00**					

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
19.70	P	08/22/2005	1000	1975	8(5.8)	3(9.1)	0(10.0)	5(9.3)	93(9.7)	1(9.5)	28(3.1)	0(10.0)	98(8.7)	2(8.8)	0(0.0)	0.0(10.0)	**78**	5.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
15.40	P	08/22/2005	1000	2260	7(4.2)	3(9.1)	0(10.0)	4(8.4)	72(9.4)	2(9.5)	69(7.5)	0(10.0)	99(8.7)	1(8.9)	122(9.9)	0.0(10.0)	**88**	5.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
9.80	A	07/18/2005	1000	2275	12(9.1)	3(9.1)	0(10.0)	6(10.0)	81(9.6)	1(9.5)	67(7.4)	0(10.0)	81(8.7)	19(7.2)	109(9.6)	0.3(1.7)	**85**	6.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
4.60	A	07/18/2005	1000	2340	9(6.6)	3(9.1)	0(10.0)	5(9.3)	29(7.2)	2(9.5)	1(0.2)	0(10.0)	75(8.7)	25(6.6)	0(0.0)	0.0(10.0)	**73**	6.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
Year: 2009																		
91.80	A	07/13/2009	1000	492	11(7.5)	4(9.6)	0(10.0)	5(9.3)	39(7.9)	3(9.5)	5(0.5)	0(10.0)	95(8.8)	5(8.5)	0(0.0)	0.0(10.0)	**76**	6.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
Machias River - (35001)																		
Year: 2008																		
10.40	A	09/21/2008	1000	1000	5(3.3)	0(0.0)	2(3.6)	0(0.0)	44(8.2)	0(0.0)	0(0.0)	4(7.8)	2(3.0)	88(0.6)	0(0.0)	0.0(10.0)	**30**	4.2
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		0.9(2.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.5(0.7)	Diad. IBI.:	**13.35**	
7.20	A	09/21/2008	1000	547	5(3.3)	0(0.0)	2(3.6)	0(0.0)	44(8.2)	0(0.0)	0(0.0)	4(7.8)	2(3.0)	88(0.6)	0(0.0)	0.0(10.0)	**30**	4.2
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		0.9(2.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.5(0.7)	Diad. IBI.:	**13.35**	
7.20	A	09/04/2008	1840	547	6(5.0)	0(0.0)	1(6.0)	1(3.0)	72(9.4)	0(0.0)	0(0.0)	1(10.6)	7(3.3)	80(1.3)	0(0.0)	0.0(10.0)	**41**	2.7
					Log(Eel Rel No.):	0.9(2.9)	Log(Diad. Rel No.):		1.3(3.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.0(0.8)	Diad. IBI.:	**15.13**	
St. Croix River (ust. Milltown Dam) - (40001)																		
Year: 2005																		
53.90	P	08/28/2005	1000	414	8(8.3)	2(8.4)	1(6.0)	3(7.3)	69(9.3)	0(0.0)	0(0.0)	6(6.8)	84(8.9)	16(7.5)	32(6.0)	0.0(10.0)	**65**	7.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**9.79**	
44.10	P	08/29/2005	1000	451	4(2.5)	1(7.2)	1(6.0)	2(5.7)	16(6.1)	0(0.0)	0(0.0)	34(2.3)	63(7.4)	37(5.5)	0(0.0)	0.0(10.0)	**44**	5.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
36.00	P	08/29/2005	1000	495	3(0.9)	1(7.2)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	51(1.3)	46(6.1)	51(4.0)	32(6.0)	0.0(10.0)	**37**	4.2
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):	0.3(1.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**7.89**				
30.30	P	09/20/2005	1000	500	6(5.0)	0(0.0)	1(6.0)	2(5.7)	20(6.4)	0(0.0)	0(0.0)	28(2.8)	64(7.4)	35(5.6)	0(0.0)	0.0(10.0)	**41**	4.8
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):	0.5(1.5)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**8.70**				
23.50	P	09/20/2005	1000	633	5(3.3)	0(0.0)	1(6.0)	2(5.7)	7(5.2)	0(0.0)	0(0.0)	47(1.5)	34(5.3)	65(2.7)	25(5.5)	0.0(10.0)	**38**	5.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**5.45**				
19.30	P	08/30/2005	600	1299	3(0.9)	0(0.0)	1(6.0)	0(0.0)	1(4.5)	0(0.0)	0(0.0)	79(0.3)	0(0.0)	90(0.3)	0(0.0)	0.0(10.0)	**18**	1.8
					Log(Eel Rel No.):	1.3(4.3)	Log(Diad. Rel No.):	1.3(3.8)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**13.58**				
18.90	P	08/30/2005	1000	1301	5(5.8)	1(7.2)	1(6.0)	2(5.7)	8(5.3)	0(0.0)	0(0.0)	60(1.0)	21(4.3)	73(2.0)	26(5.6)	0.3(1.5)	**37**	5.8
					Log(Eel Rel No.):	1.3(4.3)	Log(Diad. Rel No.):	1.3(3.7)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**13.42**				
15.90	P	08/30/2005	1000	1310	6(5.0)	0(0.0)	1(6.0)	1(3.0)	35(7.5)	0(0.0)	0(0.0)	5(7.1)	37(5.5)	58(3.4)	0(0.0)	0.0(10.0)	**40**	5.9
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):	1.0(2.9)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.6(0.7)	Diad. IBI.:	**13.92**				
9.30	P	08/31/2005	1000	1324	6(3.3)	0(0.0)	1(6.0)	2(5.7)	3(4.8)	0(0.0)	0(0.0)	30(2.6)	15(3.9)	35(5.6)	8(4.3)	0.0(10.0)	**39**	4.5
					Log(Eel Rel No.):	2.2(8.0)	Log(Diad. Rel No.):	2.2(7.3)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.3(0.6)	Diad. IBI.:	**23.56**				
8.90	P	08/31/2005	1000	1347	7(5.0)	0(0.0)	1(6.0)	2(5.7)	18(6.2)	0(0.0)	0(0.0)	15(4.4)	49(6.4)	37(5.5)	30(5.9)	0.0(10.0)	**46**	7.7
					Log(Eel Rel No.):	1.7(5.9)	Log(Diad. Rel No.):	1.7(5.3)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.5(0.7)	Diad. IBI.:	**19.60**				
7.40	P	09/21/2005	1000	1357	6(4.2)	0(0.0)	1(6.0)	2(5.7)	7(5.2)	0(0.0)	0(0.0)	4(7.4)	66(7.6)	12(7.9)	115(9.8)	0.0(10.0)	**53**	6.6
					Log(Eel Rel No.):	1.7(5.8)	Log(Diad. Rel No.):	1.7(5.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**16.34**				
4.30	P	09/21/2005	1000	1378	5(3.3)	0(0.0)	1(6.0)	2(5.7)	29(7.1)	0(0.0)	0(0.0)	11(5.2)	49(6.3)	16(7.4)	8(4.3)	0.0(10.0)	**46**	5.7
					Log(Eel Rel No.):	2.2(7.9)	Log(Diad. Rel No.):	2.2(7.2)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**20.58**				
1.10	P	09/21/2005	1000	1460	5(3.3)	0(0.0)	1(6.0)	1(3.0)	23(6.7)	0(0.0)	0(0.0)	22(3.4)	6(3.2)	74(1.9)	0(0.0)	0.0(10.0)	**31**	4.3
					Log(Eel Rel No.):	1.4(4.7)	Log(Diad. Rel No.):	1.5(4.6)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.9(0.8)	Diad. IBI.:	**17.78**				
St. Croix River (dst. Milltown Dam) - (41001)																		
Year: 2005																		
0.60	P	08/31/2005	1000	1462	5(2.5)	0(0.0)	1(6.0)	1(3.0)	1(4.5)	0(0.0)	0(0.0)	21(3.5)	9(3.5)	22(6.8)	0(0.0)	0.0(10.0)	**33**	4.3
					Log(Eel Rel No.):	2.1(7.7)	Log(Diad. Rel No.):	2.1(7.0)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**22.34**				

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
Kennebec River (ust. Edwards Dam) - (50001)																		
Year: 2002																		
74.70	A	08/09/2002	1000	1837	7(5.0)	4(9.6)	2(3.6)	4(8.4)	50(8.5)	0(0.0)	4(0.5)	35(2.3)	63(7.4)	36(5.5)	64(7.8)	0.0(10.0)	**57**	7.2
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):	0.7(2.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**9.85**				
68.20	A	08/09/2002	1000	1865	7(4.2)	2(8.4)	2(3.6)	3(7.3)	6(5.0)	0(0.0)	0(0.0)	5(7.2)	10(3.5)	90(0.3)	0(0.0)	0.2(1.7)	**34**	6.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
66.10	A	08/08/2002	1000	1900	7(4.2)	3(9.1)	2(3.6)	3(7.3)	23(6.7)	0(0.0)	23(2.5)	35(2.3)	56(6.9)	37(5.4)	11(4.5)	0.0(10.0)	**52**	5.1
					Log(Eel Rel No.):	0.9(3.0)	Log(Diad. Rel No.):	0.9(2.6)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**11.01**				
64.90	A	08/08/2002	1000	1913	7(4.2)	4(9.6)	2(3.6)	4(8.4)	3(4.8)	0(0.0)	5(0.6)	23(3.3)	55(6.8)	24(6.7)	25(5.5)	0.0(10.0)	**53**	5.6
					Log(Eel Rel No.):	1.3(4.3)	Log(Diad. Rel No.):	1.3(3.7)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**13.42**				
59.30	A	08/15/2002	1000	1943	9(5.8)	4(9.6)	3(1.7)	4(8.4)	8(5.3)	0(0.0)	2(0.2)	19(3.7)	73(8.1)	25(6.6)	72(8.2)	0.0(10.0)	**56**	6.1
					Log(Eel Rel No.):	0.8(2.8)	Log(Diad. Rel No.):	0.8(2.4)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**10.67**				
57.20	A	08/08/2002	1000	2346	7(5.8)	0(0.0)	1(6.0)	2(5.7)	13(5.8)	0(0.0)	0(0.0)	16(4.2)	66(7.6)	30(6.1)	19(5.1)	0.0(10.0)	**47**	5.0
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):	0.8(2.2)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**10.29**				
53.20	A	08/08/2002	1000	2356	4(2.5)	0(0.0)	1(6.0)	1(3.0)	6(5.1)	0(0.0)	0(0.0)	34(2.3)	7(3.3)	83(1.0)	25(5.5)	0.0(10.0)	**32**	5.0
					Log(Eel Rel No.):	1.0(3.2)	Log(Diad. Rel No.):	1.0(2.7)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**11.32**				
49.90	A	08/07/2002	1000	2730	6(2.5)	2(8.4)	2(3.6)	3(7.3)	31(7.3)	0(0.0)	0(0.0)	13(4.7)	85(9.0)	13(7.7)	69(8.1)	0.7(1.2)	**50**	7.3
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):	0.7(2.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**9.85**				
46.10	A	09/21/2002	1000	2770	7(4.2)	1(7.2)	2(3.6)	2(5.7)	1(4.6)	0(0.0)	0(0.0)	40(1.9)	39(5.7)	58(3.4)	19(5.1)	0.0(10.0)	**43**	6.6
					Log(Eel Rel No.):	1.1(3.6)	Log(Diad. Rel No.):	1.1(3.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**12.09**				
38.90	A	08/08/2002	1000	2800	7(5.8)	0(0.0)	1(6.0)	2(5.7)	1(4.6)	0(0.0)	0(0.0)	12(4.9)	7(3.3)	91(0.2)	0(0.0)	0.0(10.0)	**34**	5.3
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):	0.6(1.8)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**9.34**				
36.50	A	08/01/2002	1000	2804	4(1.7)	1(7.2)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	44(1.7)	42(5.8)	46(4.6)	34(6.1)	1.0(1.0)	**29**	5.9
					Log(Eel Rel No.):	1.4(4.8)	Log(Diad. Rel No.):	1.4(4.2)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**14.39**				
36.50	A	09/07/2002	1000	2804	5(1.7)	1(7.2)	2(3.6)	2(5.7)	3(4.8)	0(0.0)	0(0.0)	74(0.4)	9(3.4)	76(1.7)	14(4.7)	0.0(10.0)	**36**	3.0
					Log(Eel Rel No.):	1.1(3.8)	Log(Diad. Rel No.):	1.1(3.3)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**12.53**				

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
32.10	A	08/02/2002	1000	2955	7(5.0)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	25(3.1)	14(3.8)	73(2.0)	15(4.8)	0.0(10.0)	**29**	5.5
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):	1.0(3.0)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.9(0.8)	Diad. IBI.:	**13.28**				
32.10	A	08/07/2002	1000	2955	8(6.6)	0(0.0)	3(1.7)	2(5.7)	5(5.0)	0(0.0)	0(0.0)	40(1.9)	17(4.0)	70(2.2)	0(0.0)	0.0(10.0)	**31**	4.7
					Log(Eel Rel No.):	1.1(3.6)	Log(Diad. Rel No.):	1.4(4.2)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	1.1(0.9)	Diad. IBI.:	**16.33**				
32.10	A	09/07/2002	1000	2955	7(5.8)	0(0.0)	3(1.7)	1(3.0)	16(6.1)	0(0.0)	0(0.0)	32(2.5)	5(3.2)	76(1.7)	17(5.0)	0.5(1.4)	**25**	5.6
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):	1.6(4.8)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	1.6(0.9)	Diad. IBI.:	**14.84**				
25.10	A	08/10/2002	1000	3111	8(6.6)	0(0.0)	3(1.7)	2(5.7)	1(4.6)	0(0.0)	0(0.0)	37(2.1)	4(3.1)	82(1.1)	36(6.2)	0.4(1.5)	**27**	7.5
					Log(Eel Rel No.):	1.0(3.2)	Log(Diad. Rel No.):	2.0(6.3)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	1.9(1.0)	Diad. IBI.:	**18.15**				
23.90	A	08/08/2002	1000	3114	8(5.8)	2(8.4)	4(0.5)	2(5.7)	4(4.9)	0(0.0)	0(0.0)	36(2.2)	34(5.2)	48(4.4)	26(5.6)	1.4(0.9)	**36**	6.4
					Log(Eel Rel No.):	1.8(6.2)	Log(Diad. Rel No.):	1.8(5.7)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.8(0.8)	Diad. IBI.:	**20.40**				
20.85	A	08/11/2002	1000	3124	7(5.0)	0(0.0)	2(3.6)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	40(1.9)	6(3.2)	82(1.1)	0(0.0)	0.0(10.0)	**27**	6.2
					Log(Eel Rel No.):	1.7(6.0)	Log(Diad. Rel No.):	1.8(5.5)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.7(0.8)	Diad. IBI.:	**20.00**				
18.50	A	08/11/2002	1000	3125	5(2.5)	1(7.2)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	67(0.7)	5(3.2)	73(2.0)	9(4.4)	0.4(1.5)	**23**	3.6
					Log(Eel Rel No.):	1.8(6.2)	Log(Diad. Rel No.):	1.8(5.5)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**17.13**				
17.60	A	08/14/2002	500	4234	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
17.60	A	09/24/2002	500	4234	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
17.40	A	08/14/2002	1000	3134	8(6.6)	0(0.0)	5(0.0)	1(3.0)	1(4.6)	0(0.0)	0(0.0)	34(2.4)	11(3.6)	46(4.6)	14(4.7)	0.0(10.0)	**33**	7.7
					Log(Eel Rel No.):	2.4(9.1)	Log(Diad. Rel No.):	2.5(8.6)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:	0.7(0.8)	Diad. IBI.:	**28.48**				
17.40	A	09/24/2002	1000	3134	9(6.6)	1(7.2)	5(0.0)	2(5.7)	1(4.6)	0(0.0)	0(0.0)	39(2.0)	9(3.4)	60(3.2)	13(4.7)	0.3(1.7)	**33**	7.9
					Log(Eel Rel No.):	2.0(7.2)	Log(Diad. Rel No.):	2.1(7.0)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:	0.8(0.8)	Diad. IBI.:	**24.93**				
17.20	A	08/14/2002	500	4234	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
17.20	A	09/24/2002	500	4234	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
16.70	A	08/12/2002	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
16.70	A	09/22/2002	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
16.60	A	08/12/2002	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
16.60	A	09/22/2002	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
16.50	A	08/12/2002	1000	5181	9(5.8)	0(0.0)	3(1.7)	2(5.7)	0(4.5)	0(0.0)	0(0.0)	17(4.0)	16(3.9)	21(7.0)	47(6.9)	1.6(0.8)	**34**	6.6
					Log(Eel Rel No.):	2.6(10.0)	Log(Diad. Rel No.):		2.6(9.3)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:			1.5(0.9)	Diad. IBI.:	**32.50**	
16.50	A	09/22/2002	1000	5181	6(4.2)	0(0.0)	3(1.7)	1(3.0)	10(5.5)	0(0.0)	0(0.0)	22(3.4)	13(3.7)	38(5.4)	57(7.5)	0.8(1.2)	**30**	7.9
					Log(Eel Rel No.):	2.2(8.0)	Log(Diad. Rel No.):		2.7(9.6)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:			2.5(1.1)	Diad. IBI.:	**26.29**	
16.40	A	08/12/2002	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
16.40	A	09/22/2002	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
15.40	A	08/12/2002	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
15.40	A	09/22/2002	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
15.30	A	08/12/2002	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
15.30	A	09/22/2002	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
15.10	A	08/12/2002	1000	5181	9(5.8)	2(8.4)	5(0.0)	1(3.0)	19(6.3)	0(9.5)	0(0.0)	17(4.1)	25(4.6)	37(5.4)	51(7.1)	0.7(1.2)	**46**	7.0
					Log(Eel Rel No.):	2.3(8.6)	Log(Diad. Rel No.):		2.3(7.9)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**28.83**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
15.10	A	09/22/2002	1000	5181	5(1.7)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	12(4.9)	10(3.5)	13(7.7)	50(7.0)	0.4(1.5)	**27**	5.7
					Log(Eel Rel No.): 2.6(10.1)		Log(Diad. Rel No.): 2.6(9.3)		No. Diad. Sp.: 1(5.5)		Log(Clupeid Rel. No.: 0.0(0.0)				Diad. IBI.: **24.87**			
15.00	A	08/12/2002	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)				Diad. IBI.: **0.00**			
15.00	A	09/22/2002	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)				Diad. IBI.: **0.00**			
11.00	A	08/12/2002	1000	5412	7(3.3)	0(0.0)	4(0.5)	1(3.0)	1(4.5)	0(0.0)	0(0.0)	27(2.9)	17(4.0)	38(5.3)	49(7.0)	0.3(1.7)	**27**	6.9
					Log(Eel Rel No.): 2.2(8.1)		Log(Diad. Rel No.): 2.2(7.5)		No. Diad. Sp.: 3(10.0)		Log(Clupeid Rel. No.: 0.0(0.0)				Diad. IBI.: **25.59**			
11.00	A	09/22/2002	1000	5412	6(2.5)	0(0.0)	3(1.7)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	7(6.3)	4(3.1)	10(8.0)	3(3.9)	0.0(10.0)	**36**	6.3
					Log(Eel Rel No.): 2.6(10.1)		Log(Diad. Rel No.): 2.7(9.5)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 0.0(0.0)				Diad. IBI.: **27.34**			
6.90	A	08/13/2002	500	4291	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)				Diad. IBI.: **0.00**			
6.90	A	09/23/2002	500	4291	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)				Diad. IBI.: **0.00**			
6.85	A	08/13/2002	1000	4291	9(6.6)	0(0.0)	5(0.0)	1(3.0)	20(6.4)	0(0.0)	0(0.0)	28(2.8)	8(3.3)	69(2.3)	0(0.0)	0.4(1.4)	**22**	6.8
					Log(Eel Rel No.): 2.3(8.7)		Log(Diad. Rel No.): 2.3(7.9)		No. Diad. Sp.: 3(10.0)		Log(Clupeid Rel. No.: 0.5(0.7)				Diad. IBI.: **27.26**			
6.85	A	09/23/2002	1000	4291	7(5.0)	0(0.0)	4(0.5)	1(3.0)	5(5.0)	0(0.0)	0(0.0)	32(2.5)	9(3.5)	62(3.0)	0(0.0)	0.0(10.0)	**27**	7.3
					Log(Eel Rel No.): 2.2(8.2)		Log(Diad. Rel No.): 2.4(8.2)		No. Diad. Sp.: 3(10.0)		Log(Clupeid Rel. No.: 1.9(1.0)				Diad. IBI.: **27.34**			
6.80	A	08/13/2002	500	4291	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)				Diad. IBI.: **0.00**			
6.80	A	09/23/2002	500	4291	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)				Diad. IBI.: **0.00**			
4.60	A	08/13/2002	650	4316	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)				Diad. IBI.: **0.00**			
4.60	A	09/23/2002	650	4316	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)				Diad. IBI.: **0.00**			

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
4.50	A	08/13/2002	650	4316	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
4.50	A	09/23/2002	650	4316	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
4.00	A	08/13/2002	1150	4330	6(4.2)	0(0.0)	4(0.5)	1(3.0)	17(6.2)	0(0.0)	0(0.0)	16(4.2)	9(3.5)	49(4.3)	60(7.6)	0.5(1.4)	**29**	7.3
					Log(Eel Rel No.):	2.3(8.7)	Log(Diad. Rel No.):		2.5(8.8)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		2.1(1.0)	Diad. IBI.:	**26.18**	
4.00	A	09/23/2002	1150	4330	8(5.0)	0(0.0)	3(1.7)	1(3.0)	25(6.8)	0(0.0)	0(0.0)	13(4.7)	5(3.1)	53(3.9)	19(5.1)	0.3(1.7)	**29**	7.4
					Log(Eel Rel No.):	2.5(9.5)	Log(Diad. Rel No.):		2.6(9.4)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.0(1.0)	Diad. IBI.:	**29.88**	
0.10	A	08/13/2002	1000	5469	9(5.0)	0(0.0)	5(0.0)	2(5.7)	1(4.5)	0(0.0)	0(0.0)	25(3.0)	8(3.4)	45(4.6)	26(5.6)	0.2(1.8)	**28**	6.9
					Log(Eel Rel No.):	2.6(10.2)	Log(Diad. Rel No.):		2.7(9.6)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		1.6(0.9)	Diad. IBI.:	**32.95**	
0.10	A	09/23/2002	1000	5469	6(2.5)	0(0.0)	3(1.7)	1(3.0)	49(8.4)	0(0.0)	0(0.0)	19(3.7)	4(3.1)	82(1.1)	27(5.6)	0.1(2.2)	**26**	7.2
					Log(Eel Rel No.):	2.1(7.5)	Log(Diad. Rel No.):		2.3(7.6)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		1.5(0.9)	Diad. IBI.:	**26.02**	
Year: 2003																		
17.60	A	07/10/2003	500	4234	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
17.40	A	07/10/2003	1000	3134	9(7.5)	1(7.2)	4(0.5)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	16(4.2)	6(3.2)	24(6.7)	9(4.4)	0.0(10.0)	**43**	7.4
					Log(Eel Rel No.):	2.6(10.1)	Log(Diad. Rel No.):		2.7(9.6)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**31.96**	
17.20	A	07/10/2003	500	4234	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
16.60	A	07/12/2003	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
16.50	A	07/12/2003	1000	5181	8(5.0)	1(7.2)	3(1.7)	1(3.0)	0(0.0)	0(9.5)	0(0.0)	13(4.7)	7(3.3)	23(6.8)	45(6.8)	0.5(1.4)	**41**	6.4
					Log(Eel Rel No.):	2.7(10.4)	Log(Diad. Rel No.):		2.7(9.6)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**29.92**	
16.40	A	07/12/2003	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
15.30	A	07/12/2003	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**		
15.10	A	07/12/2003	1000	5181	8(5.8)	0(0.0)	2(3.6)	1(3.0)	2(4.6)	0(0.0)	0(0.0)	9(5.5)	15(3.9)	15(7.6)	50(7.1)	0.7(1.2)	**35**	7.1
					Log(Eel Rel No.):	2.6(10.1)	Log(Diad. Rel No.):		2.6(9.4)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**31.68**		
15.00	A	07/12/2003	500	5181	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**		
11.00	A	07/12/2003	1000	5412	7(4.2)	0(0.0)	3(1.7)	1(3.0)	1(4.6)	0(0.0)	0(0.0)	15(4.4)	9(3.4)	23(6.7)	18(5.0)	0.7(1.2)	**29**	6.4
					Log(Eel Rel No.):	2.5(9.4)	Log(Diad. Rel No.):		2.5(8.7)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**28.00**		
9.10	A	07/15/2003	500	5419	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**		
9.00	A	07/15/2003	1000	5419	11(6.6)	0(0.0)	3(1.7)	3(7.3)	8(5.3)	0(0.0)	0(0.0)	10(5.3)	13(3.7)	46(4.6)	60(7.6)	0.0(10.0)	**43**	7.2
					Log(Eel Rel No.):	2.3(8.5)	Log(Diad. Rel No.):		2.3(7.9)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:		0.8(0.8)	Diad. IBI.:	**27.23**		
8.90	A	07/15/2003	500	5419	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**		
4.60	A	07/15/2003	650	4316	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**		
4.50	A	07/15/2003	650	4316	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**		
4.00	A	07/15/2003	1150	4330	5(2.5)	0(0.0)	4(0.5)	1(3.0)	1(4.6)	0(0.0)	0(0.0)	21(3.5)	8(3.4)	52(4.0)	34(6.1)	0.6(1.3)	**24**	7.5
					Log(Eel Rel No.):	2.5(9.6)	Log(Diad. Rel No.):		2.5(8.8)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**26.12**		
0.10	A	07/15/2003	1000	5469	6(4.2)	0(0.0)	5(0.0)	1(3.0)	2(4.7)	0(0.0)	0(0.0)	15(4.4)	6(3.2)	33(5.8)	26(5.6)	2.0(0.7)	**26**	6.4
					Log(Eel Rel No.):	2.6(10.1)	Log(Diad. Rel No.):		2.6(9.3)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**27.15**		
Year: 2004																		
17.60	A	09/06/2004	500	4234	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**		

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
17.40	A	09/06/2004	1000	3134	11(7.5)	2(8.4)	6(0.0)	2(5.7)	6(5.1)	0(9.5)	0(0.0)	17(4.1)	29(4.9)	29(6.2)	26(5.6)	0.0(10.0)	**56**	7.2
					Log(Eel Rel No.):	2.1(7.7)	Log(Diad. Rel No.):		2.1(7.1)	No. Diad. Sp.:	5(10.0)	Log(Clupeid Rel. No.:			0.5(0.7)	Diad. IBI.:	**25.47**	
17.20	A	09/06/2004	500	4234	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
16.50	A	09/11/2004	1000	5181	10(7.5)	2(8.4)	4(0.5)	3(7.3)	20(6.5)	0(0.0)	0(0.0)	12(4.9)	52(6.6)	36(5.5)	95(9.1)	2.7(0.6)	**47**	7.6
					Log(Eel Rel No.):	1.6(5.6)	Log(Diad. Rel No.):		1.9(5.9)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:			1.5(0.9)	Diad. IBI.:	**24.69**	
15.10	A	09/11/2004	1000	5181	9(5.0)	0(0.0)	3(1.7)	2(5.7)	7(5.2)	0(0.0)	0(0.0)	11(5.1)	13(3.7)	19(7.2)	66(7.9)	0.6(1.3)	**36**	6.9
					Log(Eel Rel No.):	2.9(11.5)	Log(Diad. Rel No.):		2.9(10.0)	No. Diad. Sp.:	5(10.0)	Log(Clupeid Rel. No.:			1.4(0.9)	Diad. IBI.:	**32.41**	
11.00	A	09/11/2004	1000	5412	6(3.3)	1(7.2)	4(0.5)	1(3.0)	8(5.3)	0(0.0)	0(0.0)	37(2.1)	39(5.6)	52(4.0)	56(7.4)	0.0(10.0)	**40**	7.0
					Log(Eel Rel No.):	1.4(4.6)	Log(Diad. Rel No.):		1.4(4.2)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**16.58**	
9.00	A	09/12/2004	1000	5419	9(6.6)	0(0.0)	3(1.7)	2(5.7)	14(5.9)	0(0.0)	0(0.0)	12(5.0)	27(4.7)	30(6.1)	52(7.2)	0.3(1.7)	**37**	7.2
					Log(Eel Rel No.):	2.4(9.1)	Log(Diad. Rel No.):		2.5(8.9)	No. Diad. Sp.:	5(10.0)	Log(Clupeid Rel. No.:			1.9(1.0)	Diad. IBI.:	**28.93**	
4.20	A	09/12/2004	1000	5450	10(6.6)	1(7.2)	4(0.5)	1(3.0)	45(8.2)	0(0.0)	0(0.0)	14(4.5)	4(3.0)	70(2.2)	18(5.0)	0.2(1.9)	**35**	7.0
					Log(Eel Rel No.):	2.4(9.1)	Log(Diad. Rel No.):		2.5(8.6)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:			1.5(0.9)	Diad. IBI.:	**30.91**	
0.10	A	09/12/2004	1000	5469	8(5.0)	0(0.0)	3(1.7)	1(3.0)	22(6.6)	0(0.0)	0(0.0)	20(3.7)	8(3.3)	47(4.4)	25(5.5)	0.0(10.0)	**36**	6.0
					Log(Eel Rel No.):	2.5(9.6)	Log(Diad. Rel No.):		2.5(9.0)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:			1.3(0.9)	Diad. IBI.:	**31.75**	
Year: 2005																		
17.60	A	08/01/2005	500	4234	7(5.8)	0(0.0)	4(0.5)	1(3.0)	3(4.8)	0(0.0)	0(0.0)	17(4.0)	24(4.5)	25(6.5)	7(4.2)	0.0(10.0)	**36**	7.9
					Log(Eel Rel No.):	2.9(11.8)	Log(Diad. Rel No.):		3.0(10.0)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:			1.4(0.9)	Diad. IBI.:	**32.68**	
17.60	A	08/02/2005	1000	4234	1(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	2.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.0(2.9)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**8.30**	
17.40	A	08/01/2005	1000	3134	7(5.8)	1(7.2)	5(0.0)	1(3.0)	3(4.8)	0(0.0)	0(0.0)	16(4.2)	21(4.3)	23(6.8)	15(4.8)	0.0(10.0)	**42**	7.6
					Log(Eel Rel No.):	2.4(9.0)	Log(Diad. Rel No.):		2.5(8.9)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:			1.4(0.9)	Diad. IBI.:	**28.86**	
17.40	A	08/02/2005	1000	3134	0(0.0)	0(0.0)	1(6.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	100(0.0)	0(0.0)	100(0.0)	0(0.0)	0.0(10.0)	**13**	0.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
17.20	A	08/01/2005	500	4234	7(4.2)	1(7.2)	2(3.6)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	8(6.0)	40(5.7)	9(8.1)	25(5.5)	0.0(10.0)	**48**	8.2
					Log(Eel Rel No.):	2.2(8.2)	Log(Diad. Rel No.):		2.6(9.4)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		1.9(1.0)	Diad. IBI.:	**28.52**	
16.50	A	08/03/2005	1000	5181	6(5.0)	0(0.0)	5(0.0)	2(5.7)	8(5.3)	0(0.0)	0(0.0)	9(5.5)	13(3.7)	19(7.1)	62(7.7)	0.0(10.0)	**42**	7.4
					Log(Eel Rel No.):	2.4(8.8)	Log(Diad. Rel No.):		2.6(9.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		2.1(1.0)	Diad. IBI.:	**26.61**	
15.10	A	08/03/2005	1000	5181	6(3.3)	0(0.0)	4(0.5)	1(3.0)	4(4.9)	0(0.0)	0(0.0)	8(6.0)	30(4.9)	17(7.4)	108(9.6)	0.0(10.0)	**41**	6.8
					Log(Eel Rel No.):	2.2(8.2)	Log(Diad. Rel No.):		2.3(7.7)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		1.2(0.9)	Diad. IBI.:	**26.68**	
11.00	A	08/03/2005	1000	5412	5(3.3)	0(0.0)	3(1.7)	1(3.0)	3(4.7)	0(0.0)	0(0.0)	29(2.7)	12(3.6)	33(5.8)	26(5.6)	0.0(10.0)	**34**	5.8
					Log(Eel Rel No.):	2.1(7.5)	Log(Diad. Rel No.):		2.1(6.9)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**22.08**	
9.00	A	08/02/2005	1000	5419	11(7.5)	0(0.0)	3(1.7)	3(7.3)	7(5.2)	0(0.0)	0(0.0)	6(6.7)	19(4.2)	17(7.3)	81(8.6)	0.0(10.0)	**49**	7.5
					Log(Eel Rel No.):	2.4(9.1)	Log(Diad. Rel No.):		2.6(9.1)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.0(1.0)	Diad. IBI.:	**29.17**	
4.20	A	08/02/2005	1000	5450	6(3.3)	0(0.0)	3(1.7)	3(7.3)	2(4.6)	0(0.0)	0(0.0)	13(4.7)	9(3.4)	25(6.6)	32(6.0)	1.4(0.9)	**32**	7.9
					Log(Eel Rel No.):	2.4(9.1)	Log(Diad. Rel No.):		2.6(9.3)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.2(1.0)	Diad. IBI.:	**29.42**	
0.10	A	08/02/2005	1000	5469	7(3.3)	0(0.0)	3(1.7)	1(3.0)	2(4.7)	0(0.0)	0(0.0)	14(4.5)	5(3.2)	22(6.8)	61(7.7)	0.0(10.0)	**37**	6.8
					Log(Eel Rel No.):	2.3(8.4)	Log(Diad. Rel No.):		2.6(9.1)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.3(1.0)	Diad. IBI.:	**28.54**	
Year: 2006																		
17.60	A	07/09/2006	500	4234	5(2.5)	1(7.2)	3(1.7)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	4(7.7)	48(6.3)	5(8.5)	4(4.0)	0.0(10.0)	**42**	7.4
					Log(Eel Rel No.):	2.5(9.4)	Log(Diad. Rel No.):		2.5(8.9)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**26.07**	
17.60	A	07/10/2006	1000	4234	5(3.3)	0(0.0)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	8(5.8)	17(4.0)	13(7.8)	65(7.9)	0.2(1.8)	**28**	6.6
					Log(Eel Rel No.):	2.6(10.0)	Log(Diad. Rel No.):		2.6(9.2)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**24.72**	
17.60	A	08/22/2006	500	4234	7(4.2)	0(0.0)	3(1.7)	2(5.7)	10(5.5)	0(0.0)	0(0.0)	18(3.9)	52(6.6)	30(6.1)	4(4.0)	0.0(10.0)	**40**	5.1
					Log(Eel Rel No.):	1.3(4.2)	Log(Diad. Rel No.):		1.4(4.1)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.6(0.7)	Diad. IBI.:	**18.96**	
17.60	A	09/28/2006	1000	4234	10(5.8)	0(0.0)	5(0.0)	2(5.7)	15(5.9)	0(0.0)	0(0.0)	10(5.5)	22(4.4)	31(6.1)	50(7.1)	0.0(10.0)	**42**	7.2
					Log(Eel Rel No.):	2.2(8.1)	Log(Diad. Rel No.):		2.3(7.9)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		1.7(1.0)	Diad. IBI.:	**29.23**	
17.40	A	07/09/2006	1000	3134	1(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	0(10.0)	0(0.0)	0.0(10.0)	**33**	3.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.2(3.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.84**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	Modified IBI	Modified Iwb
17.40	A	08/22/2006	1000	3134	9(6.6)	0(0.0)	4(0.5)	2(5.7)	17(6.1)	0(0.0)	0(0.0)	7(6.2)	27(4.7)	26(6.5)	5(4.1)	0.0(10.0)	**42**	5.6
					Log(Eel Rel No.): 2.3(8.3)		Log(Diad. Rel No.):		2.3(7.6)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.5(0.7)	Diad. IBI.:	**26.63**	
17.40	A	09/27/2006	1000	3134	8(5.0)	0(0.0)	3(1.7)	2(5.7)	4(4.9)	0(0.0)	0(0.0)	9(5.7)	9(3.4)	16(7.5)	5(4.0)	0.5(1.3)	**33**	5.5
					Log(Eel Rel No.): 2.1(7.6)		Log(Diad. Rel No.):		2.1(7.1)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**24.71**	
17.20	A	07/09/2006	500	4234	7(4.2)	1(7.2)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	8(5.8)	17(4.0)	27(6.4)	35(6.2)	0.0(10.0)	**39**	7.6
					Log(Eel Rel No.): 2.1(7.7)		Log(Diad. Rel No.):		2.2(7.2)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.8(0.8)	Diad. IBI.:	**25.67**	
17.20	A	07/10/2006	1000	4234	9(5.0)	1(7.2)	7(0.0)	2(5.7)	3(4.7)	0(0.0)	0(0.0)	11(5.0)	41(5.8)	18(7.3)	58(7.5)	0.0(10.0)	**49**	7.2
					Log(Eel Rel No.): 2.1(7.5)		Log(Diad. Rel No.):		2.2(7.1)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**24.60**	
17.20	A	08/22/2006	500	4234	8(5.0)	0(0.0)	4(0.5)	2(5.7)	18(6.3)	0(0.0)	0(0.0)	5(7.2)	21(4.3)	25(6.6)	9(4.4)	0.0(10.0)	**42**	6.1
					Log(Eel Rel No.): 2.5(9.7)		Log(Diad. Rel No.):		2.5(8.9)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**26.96**	
16.70	A	08/21/2006	1000	5181	6(3.3)	0(0.0)	3(1.7)	1(3.0)	9(5.4)	0(0.0)	0(0.0)	7(6.3)	28(4.8)	21(7.0)	78(8.5)	0.0(10.0)	**42**	6.4
					Log(Eel Rel No.): 2.2(7.9)		Log(Diad. Rel No.):		2.2(7.2)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**20.52**	
16.50	A	07/10/2006	1000	5181	1(0.0)	0(0.0)	0(10.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	100(3.7)	0(10.0)	0(0.0)	0.0(10.0)	**39**	0.0
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
15.10	A	07/10/2006	1000	5181	5(2.5)	1(7.2)	4(0.5)	1(3.0)	1(4.6)	0(0.0)	0(0.0)	12(4.8)	9(3.4)	18(7.2)	51(7.1)	0.5(1.4)	**35**	6.1
					Log(Eel Rel No.): 2.2(8.0)		Log(Diad. Rel No.):		2.2(7.4)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**25.38**	
15.10	A	08/21/2006	1000	5181	9(5.8)	0(0.0)	4(0.5)	1(3.0)	8(5.3)	0(0.0)	0(0.0)	8(5.9)	19(4.1)	18(7.2)	69(8.1)	0.0(10.0)	**42**	7.0
					Log(Eel Rel No.): 2.5(9.8)		Log(Diad. Rel No.):		2.5(9.0)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**28.75**	
15.10	A	09/28/2006	1000	5181	10(6.6)	1(7.2)	5(0.0)	2(5.7)	9(5.4)	0(0.0)	0(0.0)	8(5.8)	22(4.3)	22(6.9)	43(6.7)	0.2(1.7)	**42**	7.4
					Log(Eel Rel No.): 2.3(8.8)		Log(Diad. Rel No.):		2.4(8.3)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**27.02**	
11.00	A	08/21/2006	1000	5412	9(5.0)	0(0.0)	5(0.0)	2(5.7)	3(4.7)	0(0.0)	0(0.0)	4(7.4)	5(3.1)	9(8.2)	37(6.3)	0.0(10.0)	**42**	4.9
					Log(Eel Rel No.): 2.7(10.5)		Log(Diad. Rel No.):		2.7(9.7)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.8(0.8)	Diad. IBI.:	**33.15**	
9.00	A	07/11/2006	1000	5419	8(5.0)	1(7.2)	5(0.0)	2(5.7)	8(5.3)	0(0.0)	0(0.0)	19(3.8)	13(3.7)	37(5.4)	57(7.4)	0.0(10.0)	**45**	6.3
					Log(Eel Rel No.): 2.4(9.2)		Log(Diad. Rel No.):		2.4(8.5)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**27.64**	
9.00	A	08/21/2006	1000	5419	6(2.5)	1(7.2)	4(0.5)	1(3.0)	47(8.3)	0(0.0)	0(0.0)	5(6.9)	22(4.4)	58(3.4)	10(4.5)	0.0(10.0)	**42**	6.0
					Log(Eel Rel No.): 2.1(7.7)		Log(Diad. Rel No.):		2.1(7.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.7(0.8)	Diad. IBI.:	**23.20**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
9.00	A	09/28/2006	1000	5419	8(4.2)	0(0.0)	3(1.7)	2(5.7)	3(4.7)	0(0.0)	0(0.0)	22(3.4)	7(3.3)	34(5.8)	24(5.5)	0.0(10.0)	**37**	6.2
					Log(Eel Rel No.):	1.8(6.1)	Log(Diad. Rel No.):		2.1(6.7)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:		1.6(0.9)	Diad. IBI.:	**23.76**		
4.20	A	08/22/2006	1000	5450	9(5.0)	0(0.0)	4(0.5)	1(3.0)	1(4.5)	0(0.0)	0(0.0)	10(5.3)	16(4.0)	33(5.8)	23(5.4)	0.0(10.0)	**36**	6.4
					Log(Eel Rel No.):	2.2(7.9)	Log(Diad. Rel No.):		2.2(7.3)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:		0.6(0.7)	Diad. IBI.:	**28.18**		
4.20	A	09/29/2006	1000	5450	8(4.2)	0(0.0)	3(1.7)	1(3.0)	2(4.7)	0(0.0)	0(0.0)	16(4.1)	12(3.7)	31(6.0)	39(6.4)	0.0(10.0)	**37**	6.8
					Log(Eel Rel No.):	2.0(7.4)	Log(Diad. Rel No.):		2.1(7.0)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:		1.0(0.8)	Diad. IBI.:	**27.42**		
0.10	A	07/11/2006	1000	5469	6(4.2)	1(7.2)	3(1.7)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	12(4.9)	34(5.2)	25(6.6)	106(9.5)	0.2(1.8)	**41**	7.1
					Log(Eel Rel No.):	2.3(8.4)	Log(Diad. Rel No.):		2.3(7.8)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**26.16**		
0.10	A	08/22/2006	1000	5469	7(4.2)	0(0.0)	4(0.5)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	11(5.1)	8(3.4)	22(6.9)	53(7.3)	0.0(10.0)	**37**	5.8
					Log(Eel Rel No.):	2.5(9.3)	Log(Diad. Rel No.):		2.5(8.6)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:		0.7(0.8)	Diad. IBI.:	**28.61**		
0.10	A	09/29/2006	1000	5469	7(5.0)	0(0.0)	4(0.5)	1(3.0)	2(4.7)	0(0.0)	0(0.0)	30(2.6)	5(3.2)	41(5.1)	9(4.4)	0.0(10.0)	**32**	6.4
					Log(Eel Rel No.):	2.0(7.2)	Log(Diad. Rel No.):		2.1(7.0)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:		0.6(0.7)	Diad. IBI.:	**27.22**		
Year: 2007																		
96.40	A	08/23/2007	500	1588	5(2.5)	3(9.1)	1(6.0)	3(7.3)	0(0.0)	3(9.5)	32(3.5)	62(0.9)	37(5.5)	63(2.9)	9(4.4)	0.0(10.0)	**51**	4.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**		
17.60	A	09/14/2007	500	4234	6(3.3)	0(0.0)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	34(2.3)	26(4.7)	40(5.1)	31(5.9)	0.0(10.0)	**29**	6.7
					Log(Eel Rel No.):	1.9(6.7)	Log(Diad. Rel No.):		1.9(6.1)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**20.50**		
17.60	A	09/15/2007	1000	4234	8(5.8)	0(0.0)	3(1.7)	2(5.7)	10(5.5)	0(0.0)	0(0.0)	26(3.0)	43(5.9)	36(5.6)	73(8.3)	0.0(10.0)	**43**	7.4
					Log(Eel Rel No.):	2.1(7.8)	Log(Diad. Rel No.):		2.2(7.1)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**22.68**		
17.20	A	09/14/2007	500	4234	9(5.8)	0(0.0)	3(1.7)	2(5.7)	5(5.0)	0(0.0)	0(0.0)	13(4.7)	43(5.9)	22(6.9)	14(4.8)	0.0(10.0)	**42**	7.8
					Log(Eel Rel No.):	1.1(3.8)	Log(Diad. Rel No.):		2.0(6.6)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:		1.8(1.0)	Diad. IBI.:	**21.36**		
16.50	A	09/15/2007	1000	5181	2(0.0)	0(0.0)	0(10.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	92(0.2)	0(0.0)	0.0(10.0)	**25**	0.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**		
15.10	A	09/15/2007	1000	5181	8(5.0)	1(7.2)	3(1.7)	1(3.0)	4(4.9)	0(0.0)	0(0.0)	17(4.1)	42(5.8)	23(6.8)	82(8.6)	0.0(10.0)	**48**	6.5
					Log(Eel Rel No.):	1.9(6.5)	Log(Diad. Rel No.):		1.9(6.1)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:		1.0(0.8)	Diad. IBI.:	**25.72**		

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
11.00	A	09/15/2007	1000	5412	8(4.2)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	39(2.0)	24(4.5)	42(5.0)	48(7.0)	0.0(10.0)	**33**	6.2
					Log(Eel Rel No.):	1.9(6.7)	Log(Diad. Rel No.):		1.9(6.2)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**25.80**	
9.00	A	09/15/2007	1000	5419	9(5.0)	0(0.0)	3(1.7)	2(5.7)	7(5.2)	0(0.0)	0(0.0)	16(4.1)	47(6.2)	27(6.4)	87(8.9)	0.0(10.0)	**44**	6.7
					Log(Eel Rel No.):	1.6(5.6)	Log(Diad. Rel No.):		1.8(5.6)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		1.1(0.9)	Diad. IBI.:	**24.35**	
4.20	A	09/16/2007	1000	5450	8(6.6)	0(0.0)	4(0.5)	1(3.0)	17(6.2)	0(0.0)	0(0.0)	24(3.2)	4(3.1)	54(3.8)	27(5.7)	0.0(10.0)	**35**	6.9
					Log(Eel Rel No.):	2.4(8.9)	Log(Diad. Rel No.):		2.4(8.2)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		1.0(0.8)	Diad. IBI.:	**27.86**	
0.10	A	09/16/2007	1000	5469	4(0.9)	0(0.0)	2(3.6)	1(3.0)	1(4.5)	0(0.0)	0(0.0)	53(1.3)	9(3.4)	60(3.2)	18(5.0)	0.5(1.3)	**22**	5.5
					Log(Eel Rel No.):	1.7(5.9)	Log(Diad. Rel No.):		1.7(5.4)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**19.05**	
Year: 2008																		
17.40	A	09/24/2008	1000	3134	7(4.2)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	11(5.0)	66(7.6)	19(7.2)	4(4.0)	0.8(1.1)	**32**	6.4
					Log(Eel Rel No.):	1.2(3.9)	Log(Diad. Rel No.):		1.3(3.7)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**17.60**	
16.70	A	09/24/2008	1000	5181	5(2.5)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	1(12.1)	10(3.5)	1(8.8)	68(8.0)	0.0(10.0)	**43**	7.4
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):		2.9(10.0)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.9(1.1)	Diad. IBI.:	**23.72**	
15.10	A	09/24/2008	1000	5181	6(3.3)	1(7.2)	3(1.7)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	11(5.1)	50(6.5)	18(7.2)	52(7.2)	0.0(10.0)	**43**	6.1
					Log(Eel Rel No.):	1.5(5.3)	Log(Diad. Rel No.):		1.6(4.7)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**18.31**	
15.10	A	09/15/2008	1950	5181	9(7.5)	1(7.2)	4(0.5)	2(5.7)	2(4.7)	0(0.0)	0(0.0)	4(7.7)	84(8.9)	9(8.2)	0(0.0)	0.0(10.0)	**50**	3.7
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):		1.3(3.9)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		1.2(0.9)	Diad. IBI.:	**16.55**	
11.00	A	09/24/2008	1000	5412	8(7.5)	0(0.0)	3(1.7)	1(3.0)	21(6.5)	0(0.0)	0(0.0)	7(6.3)	18(4.1)	39(5.2)	57(7.4)	0.0(10.0)	**43**	8.0
					Log(Eel Rel No.):	1.7(5.8)	Log(Diad. Rel No.):		2.4(8.1)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.3(1.0)	Diad. IBI.:	**24.85**	
9.00	A	09/23/2008	1000	5419	7(3.3)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	3(8.6)	3(3.0)	5(8.5)	0(0.0)	0.0(10.0)	**33**	6.0
					Log(Eel Rel No.):	1.7(5.8)	Log(Diad. Rel No.):		2.8(10.0)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.8(1.1)	Diad. IBI.:	**26.85**	
7.50	A	09/25/2008	1000	5437	5(2.5)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	16(4.1)	1(2.9)	27(6.4)	22(5.3)	0.2(1.7)	**25**	6.7
					Log(Eel Rel No.):	1.2(4.0)	Log(Diad. Rel No.):		2.5(8.9)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		2.5(1.1)	Diad. IBI.:	**21.63**	
7.50	A	09/12/2008	4400	5437	7(4.2)	0(0.0)	4(0.5)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	22(3.4)	25(4.6)	53(3.9)	0(0.0)	0.0(10.0)	**28**	3.9
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):		1.2(3.5)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.0(0.8)	Diad. IBI.:	**14.70**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
4.20	A	09/25/2008	1000	5450	4(0.9)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	1(11.1)	97(9.9)	2(8.8)	14054(10.0	0.0(2.6)	**42**	7.5
					Log(Eel Rel No.):	1.7(5.9)	Log(Diad. Rel No.):		1.7(5.3)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**16.62**	
0.10	A	09/25/2008	1000	5469	6(2.5)	0(0.0)	4(0.5)	1(3.0)	4(4.9)	0(0.0)	0(0.0)	38(2.0)	12(3.7)	55(3.7)	17(4.9)	0.0(10.0)	**29**	6.8
					Log(Eel Rel No.):	1.5(5.0)	Log(Diad. Rel No.):		1.8(5.5)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		1.0(0.8)	Diad. IBI.:	**21.30**	
Year: 2009																		
72.90	A	07/15/2009	1000	1837	5(1.7)	3(9.1)	2(3.6)	4(8.4)	5(5.0)	7(9.5)	60(6.6)	8(5.9)	92(9.5)	8(8.2)	65(7.9)	0.0(10.0)	**71**	5.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
72.90	A	08/30/2009	1000	1837	3(0.9)	3(9.1)	2(3.6)	3(7.3)	2(4.6)	0(0.0)	79(8.7)	5(7.1)	95(9.7)	5(8.5)	0(0.0)	0.0(10.0)	**58**	5.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
47.10	A	08/30/2009	1000	2730	5(2.5)	1(7.2)	3(1.7)	2(5.7)	1(4.5)	0(0.0)	0(0.0)	11(5.2)	86(9.1)	13(7.7)	0(0.0)	0.0(10.0)	**45**	4.6
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
17.60	A	09/21/2009	500	3135	5(2.5)	1(7.2)	4(0.5)	2(5.7)	1(4.6)	0(0.0)	0(0.0)	24(3.2)	15(3.9)	28(6.3)	25(5.5)	0.0(10.0)	**41**	5.6
					Log(Eel Rel No.):	2.0(7.2)	Log(Diad. Rel No.):		2.0(6.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**19.21**	
17.60	A	10/01/2009	500	3135	6(3.3)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	15(4.4)	63(7.4)	20(7.0)	42(6.6)	0.0(10.0)	**38**	6.8
					Log(Eel Rel No.):	1.4(4.6)	Log(Diad. Rel No.):		1.5(4.4)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.6(0.7)	Diad. IBI.:	**19.75**	
17.40	A	09/21/2009	1000	3134	6(3.3)	1(7.2)	5(0.0)	2(5.7)	4(4.9)	0(0.0)	0(0.0)	20(3.6)	26(4.7)	24(6.7)	42(6.6)	0.0(10.0)	**44**	6.2
					Log(Eel Rel No.):	1.8(6.5)	Log(Diad. Rel No.):		1.9(5.8)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**20.01**	
17.40	A	10/01/2009	1000	3134	7(4.2)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	12(4.9)	59(7.1)	17(7.3)	59(7.5)	0.0(10.0)	**40**	6.4
					Log(Eel Rel No.):	1.4(4.8)	Log(Diad. Rel No.):		1.5(4.5)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**22.18**	
17.20	A	09/21/2009	1000	4234	4(0.9)	0(0.0)	3(1.7)	1(3.0)	8(5.3)	0(0.0)	0(0.0)	15(4.3)	43(5.9)	17(7.4)	50(7.1)	0.0(10.0)	**38**	5.6
					Log(Eel Rel No.):	1.2(4.1)	Log(Diad. Rel No.):		1.3(3.7)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.52**	
17.20	A	10/01/2009	500	4234	5(2.5)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	7(6.3)	50(6.4)	11(7.9)	70(8.1)	0.0(10.0)	**42**	5.7
					Log(Eel Rel No.):	1.5(5.0)	Log(Diad. Rel No.):		1.5(4.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**17.31**	
16.70	A	09/22/2009	1000	5181	6(2.5)	0(0.0)	4(0.5)	2(5.7)	11(5.6)	0(0.0)	0(0.0)	6(6.8)	69(7.8)	11(7.9)	58(7.5)	0.0(10.0)	**45**	7.0
					Log(Eel Rel No.):	1.9(6.8)	Log(Diad. Rel No.):		1.9(6.1)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**20.57**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
16.70	A	10/01/2009	1000	5181	3(0.0)	0(0.0)	4(0.5)	1(3.0)	1(4.5)	0(0.0)	0(0.0)	9(5.5)	78(8.5)	13(7.7)	50(7.1)	1.6(0.8)	**31**	6.5
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):		1.0(3.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.31**	
15.10	A	09/22/2009	1000	5181	9(6.6)	1(7.2)	4(0.5)	2(5.7)	3(4.7)	0(9.5)	0(0.0)	8(5.8)	30(5.0)	14(7.6)	22(5.3)	0.0(10.0)	**57**	6.8
					Log(Eel Rel No.):	2.1(7.8)	Log(Diad. Rel No.):		2.2(7.2)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**27.26**	
15.10	A	10/02/2009	1000	5181	6(2.5)	1(7.2)	2(3.6)	1(3.0)	0(0.0)	2(9.5)	0(0.0)	17(4.0)	42(5.9)	19(7.1)	25(5.5)	3.8(0.4)	**41**	6.1
					Log(Eel Rel No.):	1.1(3.8)	Log(Diad. Rel No.):		1.3(3.8)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**19.85**	
11.00	A	09/22/2009	1000	5412	7(4.2)	0(0.0)	4(0.5)	1(3.0)	4(4.8)	0(0.0)	0(0.0)	7(6.1)	38(5.5)	14(7.6)	27(5.6)	1.0(1.1)	**32**	7.2
					Log(Eel Rel No.):	1.9(6.7)	Log(Diad. Rel No.):		2.0(6.3)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**25.31**	
11.00	A	10/02/2009	1000	5412	5(2.5)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	10(5.4)	49(6.4)	12(7.8)	25(5.5)	0.0(10.0)	**37**	6.5
					Log(Eel Rel No.):	1.3(4.5)	Log(Diad. Rel No.):		1.4(4.3)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**18.77**	
9.00	A	09/23/2009	1000	5419	9(5.0)	1(7.2)	3(1.7)	3(7.3)	3(4.8)	0(0.0)	0(0.0)	8(6.0)	48(6.3)	15(7.5)	3(3.9)	0.0(10.0)	**50**	6.7
					Log(Eel Rel No.):	2.2(8.0)	Log(Diad. Rel No.):		2.2(7.4)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**25.40**	
9.00	A	10/02/2009	1000	5419	8(4.2)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	2(8.8)	13(3.7)	3(8.7)	24(5.4)	0.0(10.0)	**42**	6.7
					Log(Eel Rel No.):	1.1(3.8)	Log(Diad. Rel No.):		2.7(9.8)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		2.7(1.1)	Diad. IBI.:	**26.97**	
4.20	A	09/23/2009	1000	5450	6(2.5)	0(0.0)	3(1.7)	1(3.0)	8(5.3)	0(0.0)	0(0.0)	20(3.6)	19(4.2)	36(5.5)	2(3.8)	0.0(10.0)	**33**	6.7
					Log(Eel Rel No.):	2.3(8.4)	Log(Diad. Rel No.):		2.3(7.7)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**26.10**	
4.20	A	10/03/2009	1000	5450	7(3.3)	0(0.0)	1(6.0)	2(5.7)	0(0.0)	0(0.0)	0(0.0)	1(10.3)	1(2.9)	2(8.8)	10(4.4)	0.0(10.0)	**43**	7.0
					Log(Eel Rel No.):	1.3(4.2)	Log(Diad. Rel No.):		3.1(10.0)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		3.1(1.1)	Diad. IBI.:	**27.56**	
0.10	A	09/23/2009	1000	5469	6(3.3)	1(7.2)	3(1.7)	2(5.7)	5(5.0)	0(0.0)	0(0.1)	19(3.7)	13(3.7)	35(5.7)	12(4.6)	0.0(10.0)	**42**	5.9
					Log(Eel Rel No.):	2.1(7.4)	Log(Diad. Rel No.):		2.1(6.7)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**19.56**	
0.10	A	10/03/2009	1000	5469	5(1.7)	0(0.0)	2(3.6)	1(3.0)	8(5.3)	0(0.0)	0(0.0)	27(2.9)	38(5.6)	37(5.5)	0(0.0)	1.6(0.8)	**24**	4.8
					Log(Eel Rel No.):	1.0(3.3)	Log(Diad. Rel No.):		1.2(3.5)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.8(0.8)	Diad. IBI.:	**15.29**	
Year: 2010																		
37.80	A	09/18/2010	1000	2000	7(5.0)	1(7.2)	3(1.7)	2(5.7)	2(4.7)	0(0.0)	0(0.0)	25(3.1)	60(7.2)	32(5.9)	51(7.1)	0.0(10.0)	**48**	7.3
					Log(Eel Rel No.):	1.6(5.3)	Log(Diad. Rel No.):		1.6(4.7)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.44**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
24.30	A	09/12/2010	1000	2000	7(5.8)	0(0.0)	1(6.0)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	24(3.2)	19(4.1)	32(5.9)	24(5.4)	0.0(10.0)	**40**	5.4
					Log(Eel Rel No.): 2.2(8.2)		Log(Diad. Rel No.):		2.2(7.5)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.8(0.8)	Diad. IBI.:	**24.13**	
17.60	A	09/15/2010	500	3135	8(5.8)	0(0.0)	3(1.7)	1(3.0)	1(4.6)	0(0.0)	0(0.0)	15(4.4)	22(4.4)	29(6.2)	32(6.0)	0.0(10.0)	**38**	7.5
					Log(Eel Rel No.): 1.8(6.3)		Log(Diad. Rel No.):		2.2(7.4)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		2.0(1.0)	Diad. IBI.:	**26.89**	
17.40	A	09/15/2010	1000	3134	8(5.8)	0(0.0)	4(0.5)	1(3.0)	26(6.9)	0(0.0)	0(0.0)	9(5.6)	33(5.2)	42(4.9)	51(7.1)	0.0(10.0)	**41**	7.6
					Log(Eel Rel No.): 1.5(5.0)		Log(Diad. Rel No.):		2.0(6.4)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		1.8(1.0)	Diad. IBI.:	**24.66**	
17.30	A	09/15/2010	500	3135	5(2.5)	0(0.0)	2(3.6)	1(3.0)	44(8.2)	0(0.0)	0(0.0)	4(7.3)	41(5.8)	52(3.9)	80(8.6)	0.0(10.0)	**44**	6.5
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.):		1.5(4.4)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.5(0.9)	Diad. IBI.:	**13.05**	
16.50	A	09/16/2010	1000	5181	5(2.5)	0(0.0)	3(1.7)	1(3.0)	18(6.3)	0(0.0)	0(0.0)	10(5.4)	46(6.2)	29(6.2)	46(6.9)	0.0(10.0)	**40**	6.4
					Log(Eel Rel No.): 2.1(7.7)		Log(Diad. Rel No.):		2.1(7.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**22.34**	
15.10	A	09/16/2010	1000	5181	10(5.8)	3(9.1)	3(1.7)	3(7.3)	6(5.1)	0(9.5)	1(0.1)	18(3.9)	36(5.4)	24(6.6)	44(6.7)	0.0(10.0)	**59**	6.3
					Log(Eel Rel No.): 2.0(7.3)		Log(Diad. Rel No.):		2.0(6.7)	No. Diad. Sp.:		5(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**23.97**	
11.00	A	09/16/2010	1000	5412	7(3.3)	0(0.0)	4(0.5)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	22(3.5)	25(4.6)	24(6.7)	19(5.1)	0.4(1.5)	**27**	6.8
					Log(Eel Rel No.): 2.1(7.6)		Log(Diad. Rel No.):		2.2(7.1)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.9(0.8)	Diad. IBI.:	**27.82**	
9.00	A	09/16/2010	1000	5419	8(4.2)	0(0.0)	3(1.7)	1(3.0)	29(7.1)	0(0.0)	0(0.0)	17(4.1)	17(4.0)	53(3.9)	21(5.3)	0.2(1.7)	**29**	7.0
					Log(Eel Rel No.): 1.9(6.6)		Log(Diad. Rel No.):		2.1(7.0)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		1.7(1.0)	Diad. IBI.:	**26.77**	
4.20	A	09/17/2010	1000	5450	9(5.0)	1(7.2)	5(0.0)	1(3.0)	6(5.1)	0(0.0)	0(0.0)	37(2.1)	11(3.6)	56(3.6)	4(4.0)	0.0(10.0)	**36**	6.9
					Log(Eel Rel No.): 2.3(8.4)		Log(Diad. Rel No.):		2.3(7.7)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.6(0.7)	Diad. IBI.:	**29.14**	
0.10	A	09/17/2010	1000	5469	6(2.5)	0(0.0)	3(1.7)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	32(2.5)	6(3.2)	33(5.8)	12(4.6)	0.2(1.8)	**21**	7.4
					Log(Eel Rel No.): 2.2(8.0)		Log(Diad. Rel No.):		2.5(8.6)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		2.1(1.0)	Diad. IBI.:	**29.85**	
Year: 2011																		
17.60	A	09/26/2011	500	3135	6(3.3)	0(0.0)	3(1.7)	1(3.0)	62(9.1)	0(0.0)	0(0.0)	11(5.2)	10(3.5)	78(1.5)	0(0.0)	0.0(10.0)	**31**	4.1
					Log(Eel Rel No.): 1.6(5.6)		Log(Diad. Rel No.):		1.6(5.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**18.30**	
17.60	A	10/13/2011	500	3135	7(4.2)	0(0.0)	2(3.6)	2(5.7)	70(9.3)	0(0.0)	0(0.0)	6(6.6)	14(3.8)	79(1.4)	0(0.0)	0.0(10.0)	**37**	5.0
					Log(Eel Rel No.): 1.5(5.0)		Log(Diad. Rel No.):		1.7(5.2)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.3(0.9)	Diad. IBI.:	**18.76**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
17.30	A	09/26/2011	500	3135	4(1.7)	1(7.2)	3(1.7)	1(3.0)	85(9.7)	0(0.0)	0(0.0)	5(7.0)	2(2.9)	92(0.2)	0(0.0)	0.0(10.0)	**36**	3.8
					Log(Eel Rel No.):	1.7(6.1)	Log(Diad. Rel No.):		1.7(5.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**16.95**	
17.30	A	10/13/2011	500	3135	6(3.3)	1(7.2)	3(1.7)	1(3.0)	5(5.0)	0(0.0)	0(0.0)	24(3.2)	28(4.8)	38(5.3)	14(4.7)	0.0(10.0)	**40**	5.8
					Log(Eel Rel No.):	1.8(6.3)	Log(Diad. Rel No.):		1.8(5.7)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**20.34**	
16.50	A	09/26/2011	1000	5181	7(4.2)	2(8.4)	4(0.5)	1(3.0)	4(4.9)	0(9.5)	0(0.0)	18(3.8)	36(5.4)	25(6.5)	61(7.7)	0.3(1.5)	**46**	6.7
					Log(Eel Rel No.):	2.0(7.4)	Log(Diad. Rel No.):		2.0(6.7)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**21.75**	
16.50	A	10/12/2011	1000	5181	7(3.3)	0(0.0)	3(1.7)	2(5.7)	5(5.0)	0(0.0)	0(0.0)	6(6.7)	32(5.1)	14(7.7)	106(9.5)	0.5(1.3)	**38**	6.2
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		2.0(6.5)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.0(1.0)	Diad. IBI.:	**19.91**	
16.50	A	10/13/2011	1000	5181	5(2.5)	0(0.0)	3(1.7)	1(3.0)	2(4.6)	0(0.0)	0(0.0)	16(4.1)	38(5.6)	21(6.9)	107(9.5)	0.0(10.0)	**40**	6.4
					Log(Eel Rel No.):	1.4(4.8)	Log(Diad. Rel No.):		1.9(6.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.7(1.0)	Diad. IBI.:	**19.46**	
15.10	A	09/27/2011	1000	5181	5(1.7)	0(0.0)	2(3.6)	2(5.7)	19(6.3)	0(0.0)	0(0.0)	6(6.5)	13(3.7)	25(6.5)	75(8.3)	0.0(10.0)	**44**	5.6
					Log(Eel Rel No.):	2.4(9.2)	Log(Diad. Rel No.):		2.4(8.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**23.13**	
15.10	A	10/12/2011	1000	5181	7(4.2)	0(0.0)	3(1.7)	1(3.0)	2(4.7)	0(0.0)	0(0.0)	8(6.0)	17(4.0)	11(8.0)	71(8.1)	0.7(1.2)	**34**	6.7
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		2.3(7.8)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		2.3(1.0)	Diad. IBI.:	**22.45**	
15.10	A	10/14/2011	1000	5181	7(3.3)	0(0.0)	3(1.7)	3(7.3)	1(4.6)	0(0.0)	0(0.0)	5(7.2)	8(3.4)	6(8.4)	75(8.3)	0.0(10.0)	**45**	6.5
					Log(Eel Rel No.):	1.4(4.6)	Log(Diad. Rel No.):		2.5(8.9)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.5(1.1)	Diad. IBI.:	**24.52**	
11.00	A	09/27/2011	1000	5412	9(5.8)	0(0.0)	2(3.6)	2(5.7)	24(6.7)	0(0.0)	0(0.0)	31(2.5)	25(4.6)	59(3.3)	83(8.7)	0.0(10.0)	**42**	5.9
					Log(Eel Rel No.):	1.1(3.8)	Log(Diad. Rel No.):		1.4(4.0)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**20.65**	
11.00	A	10/12/2011	1000	5412	7(5.8)	0(0.0)	2(3.6)	2(5.7)	12(5.7)	0(0.0)	0(0.0)	7(6.2)	9(3.4)	21(6.9)	65(7.9)	0.0(10.0)	**46**	6.9
					Log(Eel Rel No.):	1.0(3.4)	Log(Diad. Rel No.):		2.4(8.1)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		2.3(1.1)	Diad. IBI.:	**24.82**	
11.00	A	10/14/2011	1000	5412	8(5.8)	0(0.0)	2(3.6)	2(5.7)	27(7.0)	0(0.0)	0(0.0)	9(5.5)	30(4.9)	39(5.3)	70(8.1)	0.5(1.4)	**39**	6.4
					Log(Eel Rel No.):	1.7(5.9)	Log(Diad. Rel No.):		1.8(5.8)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**22.29**	
9.00	A	09/27/2011	1000	5419	8(5.0)	1(7.2)	4(0.5)	2(5.7)	15(6.0)	0(9.5)	0(0.0)	18(3.9)	24(4.6)	38(5.4)	94(9.1)	0.1(1.9)	**49**	6.9
					Log(Eel Rel No.):	2.4(9.1)	Log(Diad. Rel No.):		2.4(8.3)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**25.06**	
4.20	A	09/28/2011	1000	5450	5(1.7)	0(0.0)	3(1.7)	1(3.0)	10(5.5)	0(0.0)	0(0.0)	58(1.0)	11(3.6)	79(1.4)	47(6.9)	0.0(10.0)	**29**	6.0
					Log(Eel Rel No.):	1.6(5.4)	Log(Diad. Rel No.):		1.6(4.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.71**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
4.20	A	10/11/2011	1000	5450	9(5.0)	0(0.0)	3(1.7)	2(5.7)	3(4.8)	0(0.0)	0(0.0)	14(4.4)	2(2.9)	23(6.8)	31(5.9)	0.0(10.0)	**39**	6.8
					Log(Eel Rel No.):	2.1(7.8)	Log(Diad. Rel No.):		3.0(10.0)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		2.9(1.1)	Diad. IBI.:	**31.15**	
0.10	A	09/28/2011	1000	5469	5(1.7)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	78(0.3)	11(3.6)	83(1.0)	44(6.8)	0.0(10.0)	**25**	4.6
					Log(Eel Rel No.):	1.2(4.0)	Log(Diad. Rel No.):		1.2(3.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.92**	
0.10	A	10/11/2011	1000	5469	8(4.2)	0(0.0)	2(3.6)	2(5.7)	0(4.5)	0(0.0)	0(0.0)	30(2.7)	2(2.9)	33(5.8)	38(6.4)	0.0(10.0)	**38**	6.2
					Log(Eel Rel No.):	1.8(6.3)	Log(Diad. Rel No.):		2.6(9.4)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.6(1.1)	Diad. IBI.:	**26.71**	
Year: 2012																		
17.40	A	09/25/2012	1000	3134	10(7.5)	1(7.2)	5(0.0)	2(5.7)	4(4.9)	1(9.5)	0(0.0)	23(3.3)	15(3.9)	32(5.9)	23(5.4)	0.0(10.0)	**53**	6.8
					Log(Eel Rel No.):	2.0(7.1)	Log(Diad. Rel No.):		2.0(6.5)	No. Diad. Sp.:		5(10.0)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**24.17**	
17.40	A	10/09/2012	1000	3134	8(5.0)	2(8.4)	5(0.0)	2(5.7)	25(6.8)	0(0.0)	0(0.0)	23(3.3)	22(4.4)	50(4.2)	28(5.8)	0.4(1.4)	**38**	6.6
					Log(Eel Rel No.):	1.7(6.0)	Log(Diad. Rel No.):		1.8(5.7)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.0(0.8)	Diad. IBI.:	**20.24**	
16.70	A	09/25/2012	1000	5181	6(3.3)	0(0.0)	3(1.7)	2(5.7)	2(4.6)	0(0.0)	0(0.0)	12(4.8)	31(5.1)	15(7.5)	76(8.4)	0.0(10.0)	**43**	5.9
					Log(Eel Rel No.):	2.1(7.5)	Log(Diad. Rel No.):		2.1(6.8)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**22.05**	
16.70	A	10/09/2012	1000	5181	6(2.5)	0(0.0)	3(1.7)	2(5.7)	0(4.5)	0(0.0)	0(0.0)	2(9.8)	10(3.5)	2(8.8)	41(6.6)	0.1(2.0)	**38**	6.8
					Log(Eel Rel No.):	0.9(3.0)	Log(Diad. Rel No.):		2.9(10.0)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.8(1.1)	Diad. IBI.:	**24.09**	
15.10	A	09/26/2012	1000	5181	8(4.2)	1(7.2)	1(6.0)	2(5.7)	1(4.5)	1(9.5)	1(0.1)	8(6.0)	43(5.9)	8(8.2)	489(10.0)	0.0(10.0)	**64**	5.5
					Log(Eel Rel No.):	1.9(6.9)	Log(Diad. Rel No.):		2.0(6.3)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**25.44**	
15.10	A	09/27/2012	1000	5181	5(1.7)	0(0.0)	2(3.6)	2(5.7)	19(6.3)	0(0.0)	0(0.0)	6(6.5)	13(3.7)	25(6.5)	75(8.3)	0.0(10.0)	**44**	5.6
					Log(Eel Rel No.):	2.4(9.2)	Log(Diad. Rel No.):		2.4(8.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**23.13**	
15.10	A	10/10/2012	1000	5181	8(4.2)	0(0.0)	4(0.5)	3(7.3)	1(4.5)	0(0.0)	0(0.0)	8(5.8)	28(4.8)	10(8.0)	33(6.0)	0.0(10.0)	**43**	7.1
					Log(Eel Rel No.):	2.0(7.0)	Log(Diad. Rel No.):		2.3(8.0)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.1(1.0)	Diad. IBI.:	**25.99**	
11.00	A	09/26/2012	1000	5412	8(5.8)	0(0.0)	3(1.7)	2(5.7)	24(6.7)	0(0.0)	0(0.0)	14(4.6)	37(5.5)	46(4.6)	99(9.3)	0.0(10.0)	**45**	6.4
					Log(Eel Rel No.):	1.3(4.5)	Log(Diad. Rel No.):		1.4(4.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**16.20**	
11.00	A	10/10/2012	1000	5412	11(6.6)	0(0.0)	3(1.7)	2(5.7)	3(4.7)	0(0.0)	0(0.0)	6(6.8)	10(3.5)	11(8.0)	26(5.6)	0.4(1.5)	**37**	7.1
					Log(Eel Rel No.):	1.4(4.8)	Log(Diad. Rel No.):		2.6(9.3)	No. Diad. Sp.:		5(10.0)	Log(Clupeid Rel. No.:		2.6(1.1)	Diad. IBI.:	**25.14**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	Modified IBI	Modified Iwb
9.00	A	09/27/2012	1000	5419	9(5.0)	0(0.0)	4(0.5)	2(5.7)	4(4.9)	0(0.0)	0(0.0)	16(4.1)	35(5.3)	26(6.4)	99(9.3)	0.0(10.0)	**43**	6.9
					Log(Eel Rel No.): 2.0(7.1)		Log(Diad. Rel No.):		2.0(6.5)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**25.90**		
9.00	A	10/10/2012	1000	5419	10(5.8)	0(0.0)	3(1.7)	3(7.3)	3(4.7)	0(0.0)	0(0.0)	4(7.5)	25(4.6)	10(8.1)	21(5.2)	0.0(10.0)	**46**	8.0
					Log(Eel Rel No.): 1.6(5.4)		Log(Diad. Rel No.):		2.7(9.9)	No. Diad. Sp.:	5(10.0)	Log(Clupeid Rel. No.:		2.7(1.1)	Diad. IBI.:	**26.41**		
4.20	A	09/27/2012	1000	5450	5(2.5)	0(0.0)	3(1.7)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	27(2.9)	9(3.4)	39(5.2)	67(7.9)	0.3(1.6)	**27**	6.2
					Log(Eel Rel No.): 2.3(8.5)		Log(Diad. Rel No.):		2.3(7.8)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**21.72**		
4.20	A	10/11/2012	1000	5450	8(4.2)	0(0.0)	3(1.7)	2(5.7)	1(4.5)	0(0.0)	0(0.0)	9(5.5)	11(3.6)	21(6.9)	3(3.9)	0.0(10.0)	**38**	7.6
					Log(Eel Rel No.): 1.5(5.0)		Log(Diad. Rel No.):		2.4(8.1)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:		2.3(1.0)	Diad. IBI.:	**26.39**		
0.10	A	09/27/2012	1000	5469	6(3.3)	0(0.0)	3(1.7)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	23(3.3)	6(3.2)	31(6.0)	22(5.3)	0.0(10.0)	**30**	5.3
					Log(Eel Rel No.): 2.3(8.5)		Log(Diad. Rel No.):		2.3(7.8)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**24.01**		
0.10	A	10/11/2012	1000	5469	7(4.2)	0(0.0)	4(0.5)	3(7.3)	1(4.6)	0(0.0)	0(0.0)	7(6.2)	5(3.2)	13(7.7)	9(4.4)	0.2(1.8)	**33**	7.1
					Log(Eel Rel No.): 1.4(4.6)		Log(Diad. Rel No.):		2.6(9.2)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:		2.6(1.1)	Diad. IBI.:	**24.82**		
Year: 2013																		
17.40	A	09/24/2013	1000	3134	7(3.3)	0(0.0)	4(0.5)	2(5.7)	2(4.6)	0(0.0)	0(0.0)	5(7.3)	78(8.5)	9(8.1)	5(4.1)	0.3(1.7)	**37**	5.9
					Log(Eel Rel No.): 1.7(5.8)		Log(Diad. Rel No.):		1.7(5.2)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**16.48**		
17.40	A	10/08/2013	1000	3134	8(5.0)	1(7.2)	4(0.5)	2(5.7)	8(5.3)	0(0.0)	0(0.0)	4(7.7)	42(5.8)	14(7.7)	16(4.9)	0.0(10.0)	**50**	6.3
					Log(Eel Rel No.): 2.1(7.6)		Log(Diad. Rel No.):		2.1(6.9)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**24.47**		
16.70	A	09/24/2013	1000	5181	7(4.2)	0(0.0)	2(3.6)	2(5.7)	2(4.6)	0(0.0)	0(0.0)	2(9.7)	87(9.2)	3(8.7)	88(8.9)	0.0(10.0)	**54**	7.0
					Log(Eel Rel No.): 1.5(4.9)		Log(Diad. Rel No.):		1.8(5.7)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:		1.6(0.9)	Diad. IBI.:	**23.87**		
16.70	A	10/08/2013	1000	5181	10(5.8)	0(0.0)	2(3.6)	3(7.3)	1(4.5)	0(0.0)	0(0.0)	10(5.3)	54(6.7)	12(7.8)	103(9.4)	0.0(10.0)	**50**	7.2
					Log(Eel Rel No.): 1.7(5.8)		Log(Diad. Rel No.):		2.1(6.9)	No. Diad. Sp.:	6(10.0)	Log(Clupeid Rel. No.:		1.9(1.0)	Diad. IBI.:	**23.69**		
15.10	A	09/25/2013	1000	5181	6(2.5)	1(7.2)	2(3.6)	1(3.0)	15(5.9)	1(9.5)	0(0.0)	17(4.1)	44(6.0)	32(5.9)	74(8.3)	0.0(10.0)	**55**	6.6
					Log(Eel Rel No.): 1.6(5.5)		Log(Diad. Rel No.):		1.6(5.0)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**18.19**		
15.10	A	10/09/2013	1000	5181	9(5.8)	0(0.0)	4(0.5)	3(7.3)	5(5.0)	0(0.0)	0(0.0)	3(8.3)	18(4.1)	8(8.2)	83(8.7)	0.0(10.0)	**48**	7.6
					Log(Eel Rel No.): 1.9(6.6)		Log(Diad. Rel No.):		2.5(8.8)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:		2.4(1.1)	Diad. IBI.:	**28.73**		

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
11.00	A	09/25/2013	1000	5412	7(5.0)	0(0.0)	3(1.7)	1(3.0)	13(5.8)	0(0.0)	0(0.0)	8(5.8)	29(4.9)	30(6.1)	70(8.1)	0.0(10.0)	**42**	6.8
					Log(Eel Rel No.):	2.0(7.3)	Log(Diad. Rel No.):		2.0(6.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**21.60**	
11.00	A	10/09/2013	1000	5412	9(6.6)	0(0.0)	3(1.7)	2(5.7)	30(7.2)	0(0.0)	0(0.0)	7(6.3)	27(4.8)	39(5.2)	49(7.0)	0.0(10.0)	**45**	7.3
					Log(Eel Rel No.):	2.1(7.8)	Log(Diad. Rel No.):		2.2(7.2)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**27.84**	
9.00	A	09/25/2013	1000	5419	8(4.2)	0(0.0)	3(1.7)	2(5.7)	3(4.7)	0(0.0)	0(0.0)	18(3.9)	35(5.4)	23(6.8)	85(8.8)	0.0(10.0)	**43**	6.2
					Log(Eel Rel No.):	1.8(6.3)	Log(Diad. Rel No.):		1.8(5.7)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**20.28**	
9.00	A	10/09/2013	1000	5419	8(4.2)	0(0.0)	3(1.7)	3(7.3)	2(4.6)	0(0.0)	0(0.0)	11(5.2)	46(6.1)	13(7.7)	56(7.4)	0.0(10.0)	**45**	6.4
					Log(Eel Rel No.):	1.8(6.3)	Log(Diad. Rel No.):		1.8(5.8)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.5(0.7)	Diad. IBI.:	**25.07**	
4.20	A	09/26/2013	1000	5450	1(0.0)	0(0.0)	0(10.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	100(5.9)	0(10.0)	162(10.0)	0.0(10.0)	**49**	3.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
4.20	A	10/10/2013	1000	5450	7(3.3)	0(0.0)	3(1.7)	2(5.7)	0(4.5)	0(0.0)	0(0.0)	10(5.3)	5(3.2)	19(7.2)	44(6.7)	0.0(10.0)	**40**	7.5
					Log(Eel Rel No.):	2.3(8.5)	Log(Diad. Rel No.):		2.7(10.0)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.6(1.1)	Diad. IBI.:	**29.54**	
3.70	A	10/07/2013	1000	5450	7(5.0)	0(0.0)	5(0.0)	3(7.3)	6(5.1)	0(0.0)	0(0.0)	8(6.0)	42(5.9)	12(7.8)	7(4.2)	0.0(10.0)	**43**	5.7
					Log(Eel Rel No.):	2.5(9.5)	Log(Diad. Rel No.):		2.5(8.7)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**28.12**	
0.10	A	09/26/2013	1000	5469	7(3.3)	0(0.0)	2(3.6)	2(5.7)	1(4.5)	0(0.0)	0(0.0)	9(5.7)	6(3.2)	12(7.8)	37(6.3)	0.0(10.0)	**42**	7.1
					Log(Eel Rel No.):	2.1(7.5)	Log(Diad. Rel No.):		2.5(8.7)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		2.3(1.0)	Diad. IBI.:	**29.50**	
0.10	A	10/10/2013	1000	5469	7(3.3)	0(0.0)	5(0.0)	3(7.3)	3(4.8)	0(0.0)	0(0.0)	13(4.7)	14(3.8)	26(6.5)	67(8.0)	0.0(10.0)	**40**	6.8
					Log(Eel Rel No.):	2.1(7.8)	Log(Diad. Rel No.):		2.1(7.1)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.9(1.0)	Diad. IBI.:	**23.59**	
Year: 2014																		
17.40	A	08/06/2014	1000	3134	12(8.3)	0(0.0)	3(1.7)	4(8.4)	5(4.9)	0(0.0)	0(0.0)	8(6.0)	27(4.7)	14(7.7)	43(6.7)	0.0(10.0)	**49**	7.7
					Log(Eel Rel No.):	2.4(8.9)	Log(Diad. Rel No.):		2.4(8.4)	No. Diad. Sp.:		6(10.0)	Log(Clupeid Rel. No.:		1.5(0.9)	Diad. IBI.:	**28.20**	
17.40	A	09/29/2014	1000	3134	7(4.2)	0(0.0)	4(0.5)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	14(4.6)	36(5.4)	20(7.0)	59(7.6)	0.9(1.1)	**32**	6.2
					Log(Eel Rel No.):	2.0(7.3)	Log(Diad. Rel No.):		2.0(6.7)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**21.71**	
16.70	A	08/06/2014	1000	5181	9(5.0)	0(0.0)	3(1.7)	3(7.3)	4(4.9)	0(0.0)	0(0.0)	20(3.7)	12(3.6)	22(6.8)	70(8.1)	0.0(10.0)	**43**	6.4
					Log(Eel Rel No.):	1.6(5.3)	Log(Diad. Rel No.):		2.1(7.1)	No. Diad. Sp.:		5(10.0)	Log(Clupeid Rel. No.:		2.0(1.0)	Diad. IBI.:	**23.41**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
16.70	A	09/29/2014	1000	5181	7(4.2)	0(0.0)	3(1.7)	1(3.0)	1(4.6)	0(0.0)	0(0.0)	16(4.2)	50(6.4)	21(7.0)	64(7.8)	0.0(10.0)	**41**	7.1
					Log(Eel Rel No.):	2.0(7.2)	Log(Diad. Rel No.):		2.0(6.6)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**25.99**	
16.70	A	10/13/2014	1000	5181	5(1.7)	0(0.0)	2(3.6)	2(5.7)	0(0.0)	0(0.0)	0(0.0)	0(12.9)	2(2.9)	1(8.9)	72(8.2)	0.2(1.8)	**38**	7.0
					Log(Eel Rel No.):	1.4(4.6)	Log(Diad. Rel No.):		3.0(10.0)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		3.0(1.1)	Diad. IBI.:	**25.73**	
15.30	A	09/30/2014	1000	5181	6(3.3)	0(0.0)	2(3.6)	1(3.0)	1(4.5)	0(0.0)	0(0.0)	10(5.4)	45(6.1)	11(7.9)	49(7.0)	0.0(10.0)	**42**	6.5
					Log(Eel Rel No.):	2.4(8.9)	Log(Diad. Rel No.):		2.4(8.1)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**24.68**	
15.10	A	08/07/2014	1000	5181	6(2.5)	0(0.0)	3(1.7)	1(3.0)	3(4.8)	0(0.0)	0(0.0)	14(4.5)	68(7.7)	19(7.2)	87(8.8)	0.0(10.0)	**42**	6.7
					Log(Eel Rel No.):	1.5(5.1)	Log(Diad. Rel No.):		1.6(4.8)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.8(0.8)	Diad. IBI.:	**18.37**	
15.10	A	10/13/2014	1000	5181	7(4.2)	0(0.0)	3(1.7)	3(7.3)	4(4.9)	0(0.0)	0(0.0)	1(12.0)	15(3.9)	4(8.6)	87(8.8)	0.3(1.7)	**44**	8.2
					Log(Eel Rel No.):	1.6(5.5)	Log(Diad. Rel No.):		3.2(10.0)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		3.2(1.1)	Diad. IBI.:	**26.64**	
11.00	A	08/07/2014	1000	5412	11(7.5)	0(0.0)	3(1.7)	2(5.7)	44(8.1)	0(0.0)	0(0.0)	3(8.0)	20(4.2)	47(4.5)	66(7.9)	0.0(10.0)	**48**	6.7
					Log(Eel Rel No.):	2.3(8.3)	Log(Diad. Rel No.):		2.3(7.7)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		1.0(0.8)	Diad. IBI.:	**29.11**	
11.00	A	09/30/2014	1000	5412	8(4.2)	0(0.0)	3(1.7)	3(7.3)	2(4.6)	0(0.0)	0(0.0)	7(6.4)	15(3.9)	10(8.1)	56(7.4)	0.0(10.0)	**45**	5.9
					Log(Eel Rel No.):	2.3(8.5)	Log(Diad. Rel No.):		2.3(7.8)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**26.23**	
11.00	A	10/14/2014	1000	5412	11(8.3)	0(0.0)	4(0.5)	3(7.3)	24(6.7)	0(0.0)	0(0.0)	7(6.2)	19(4.2)	34(5.7)	78(8.5)	0.0(10.0)	**48**	6.8
					Log(Eel Rel No.):	2.1(7.5)	Log(Diad. Rel No.):		2.2(7.3)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		1.6(0.9)	Diad. IBI.:	**25.79**	
9.00	A	08/07/2014	1000	5419	9(5.8)	0(0.0)	2(3.6)	2(5.7)	1(4.5)	0(0.0)	0(0.0)	2(9.0)	47(6.2)	4(8.6)	36(6.3)	0.0(10.0)	**50**	7.7
					Log(Eel Rel No.):	2.1(7.8)	Log(Diad. Rel No.):		2.6(9.1)	No. Diad. Sp.:		5(10.0)	Log(Clupeid Rel. No.:		2.4(1.1)	Diad. IBI.:	**27.99**	
9.00	A	09/30/2014	1000	5419	7(4.2)	0(0.0)	3(1.7)	2(5.7)	15(6.0)	0(0.0)	0(0.0)	7(6.4)	51(6.5)	22(6.9)	95(9.1)	0.0(10.0)	**47**	6.8
					Log(Eel Rel No.):	2.0(7.0)	Log(Diad. Rel No.):		2.0(6.5)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**23.50**	
9.00	A	10/14/2014	1000	5419	10(6.6)	0(0.0)	4(0.5)	3(7.3)	5(5.0)	0(0.0)	0(0.0)	2(9.2)	17(4.0)	8(8.2)	97(9.2)	0.1(2.3)	**44**	7.8
					Log(Eel Rel No.):	1.3(4.2)	Log(Diad. Rel No.):		3.1(10.0)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		3.1(1.1)	Diad. IBI.:	**27.56**	
4.20	A	08/08/2014	1000	5450	8(5.0)	0(0.0)	4(0.5)	3(7.3)	5(5.0)	0(0.0)	0(0.0)	5(7.0)	18(4.1)	13(7.7)	30(5.8)	0.0(10.0)	**44**	7.6
					Log(Eel Rel No.):	2.4(9.2)	Log(Diad. Rel No.):		2.8(10.0)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		2.6(1.1)	Diad. IBI.:	**32.54**	
4.20	A	09/30/2014	1000	5450	6(2.5)	0(0.0)	4(0.5)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	28(2.8)	5(3.2)	36(5.5)	6(4.1)	0.0(10.0)	**30**	5.2
					Log(Eel Rel No.):	2.4(9.2)	Log(Diad. Rel No.):		2.4(8.4)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**25.37**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
4.20	A	10/14/2014	1000	5450	6(3.3)	0(0.0)	2(3.6)	2(5.7)	0(0.0)	0(0.0)	0(0.0)	12(4.8)	5(3.1)	16(7.5)	44(6.7)	0.0(10.0)	**37**	7.2
					Log(Eel Rel No.): 2.2(7.9)		Log(Diad. Rel No.): 2.8(10.0)		No. Diad. Sp.: 3(10.0)		Log(Clupeid Rel. No.: 2.7(1.1)		Diad. IBI.: **28.94**					
0.10	A	08/08/2014	1000	5469	11(6.6)	0(0.0)	4(0.5)	5(9.3)	13(5.7)	0(0.0)	0(0.0)	8(6.0)	10(3.5)	23(6.8)	13(4.7)	0.0(10.0)	**44**	8.1
					Log(Eel Rel No.): 1.7(6.1)		Log(Diad. Rel No.): 2.6(9.1)		No. Diad. Sp.: 5(10.0)		Log(Clupeid Rel. No.: 2.5(1.1)		Diad. IBI.: **26.28**					
0.10	A	10/01/2014	1000	5469	10(6.6)	0(0.0)	3(1.7)	3(7.3)	21(6.5)	0(0.0)	0(0.0)	18(4.0)	17(4.0)	39(5.2)	34(6.1)	0.1(1.9)	**36**	7.1
					Log(Eel Rel No.): 2.5(9.4)		Log(Diad. Rel No.): 2.5(8.7)		No. Diad. Sp.: 4(12.3)		Log(Clupeid Rel. No.: 0.6(0.7)		Diad. IBI.: **31.13**					
0.10	A	10/14/2014	1000	5469	10(5.8)	0(0.0)	2(3.6)	4(8.4)	0(4.5)	0(0.0)	0(0.0)	5(6.8)	10(3.5)	6(8.4)	97(9.2)	0.2(1.9)	**43**	7.4
					Log(Eel Rel No.): 1.3(4.3)		Log(Diad. Rel No.): 2.7(9.8)		No. Diad. Sp.: 6(10.0)		Log(Clupeid Rel. No.: 2.7(1.1)		Diad. IBI.: **25.10**					
Cathance River - (50002)																		
Year: 2002																		
1.50	A	08/16/2002	1000	68	12(10.0)	0(0.0)	2(3.6)	3(7.3)	43(8.1)	0(0.0)	0(0.0)	0(10.0)	8(5.5)	65(2.7)	0(0.0)	0.3(1.6)	**41**	5.6
					Log(Eel Rel No.): 1.1(3.7)		Log(Diad. Rel No.): 1.9(6.0)		No. Diad. Sp.: 4(12.3)		Log(Clupeid Rel. No.: 1.8(1.0)		Diad. IBI.: **22.90**					
Year: 2003																		
3.00	A	09/12/2003	1000	50	6(5.0)	0(0.0)	3(1.7)	2(5.7)	27(7.0)	0(0.0)	0(0.0)	0(10.0)	41(5.5)	46(4.6)	71(8.2)	0.1(2.1)	**42**	8.1
					Log(Eel Rel No.): 0.3(1.4)		Log(Diad. Rel No.): 2.1(7.0)		No. Diad. Sp.: 3(10.0)		Log(Clupeid Rel. No.: 2.1(1.0)		Diad. IBI.: **19.32**					
Sebasticook River - (50100)																		
Year: 2003																		
36.60	A	10/14/2003	1000	318	3(1.7)	0(0.0)	2(3.6)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	50(1.4)	0(0.0)	100(0.0)	0(0.0)	0.0(10.0)	**14**	2.2
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **0.00**					
33.80	A	10/14/2003	1000	325	4(2.5)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	46(1.6)	1(2.8)	98(0.0)	7(4.2)	0.0(10.0)	**25**	3.0
					Log(Eel Rel No.): 0.3(1.4)		Log(Diad. Rel No.): 0.3(1.1)		No. Diad. Sp.: 1(5.5)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **7.89**					
29.40	A	09/30/2003	1000	555	6(5.0)	0(0.0)	2(3.6)	2(5.7)	9(5.4)	0(0.0)	0(0.0)	38(2.1)	14(3.8)	86(0.8)	7(4.2)	0.0(10.0)	**34**	6.1
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **0.00**					
27.00	A	09/30/2003	1000	565	5(4.2)	0(0.0)	3(1.7)	1(3.0)	5(4.9)	0(0.0)	0(0.0)	10(5.4)	2(2.9)	95(0.0)	28(5.7)	0.0(10.0)	**32**	5.4
					Log(Eel Rel No.): 0.7(2.4)		Log(Diad. Rel No.): 0.8(2.2)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **12.33**					

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
22.40	A	09/19/2003	1000	745	4(4.2)	0(0.0)	3(1.7)	1(3.0)	1(4.5)	0(0.0)	0(0.0)	16(4.2)	7(3.3)	91(0.3)	78(8.5)	0.0(10.0)	**33**	7.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.8(2.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.8(0.8)	Diad. IBI.:	**8.65**	
6.30	A	09/18/2003	1000	856	7(5.8)	0(0.0)	2(3.6)	2(5.7)	29(7.1)	0(0.0)	0(0.0)	8(6.0)	32(5.1)	68(2.5)	16(4.9)	0.0(10.0)	**42**	7.7
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		1.1(3.1)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.0(0.8)	Diad. IBI.:	**12.98**	
5.20	A	09/17/2003	1000	869	6(5.8)	0(0.0)	3(1.7)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	16(4.1)	4(3.0)	92(0.1)	36(6.3)	0.3(1.7)	**25**	7.2
					Log(Eel Rel No.):	1.0(3.2)	Log(Diad. Rel No.):		1.2(3.5)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.8(0.8)	Diad. IBI.:	**15.16**	
4.60	A	09/18/2003	1000	875	7(6.6)	0(0.0)	3(1.7)	1(3.0)	9(5.3)	0(0.0)	0(0.0)	19(3.8)	11(3.6)	79(1.4)	94(9.1)	0.0(10.0)	**37**	7.6
					Log(Eel Rel No.):	1.4(4.8)	Log(Diad. Rel No.):		1.7(5.1)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.3(0.9)	Diad. IBI.:	**18.47**	
1.10	A	09/18/2003	1000	879	5(5.0)	0(0.0)	3(1.7)	1(3.0)	9(5.4)	0(0.0)	0(0.0)	27(2.9)	4(3.1)	90(0.4)	41(6.6)	0.0(10.0)	**32**	6.7
					Log(Eel Rel No.):	0.9(3.0)	Log(Diad. Rel No.):		1.4(4.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.2(0.9)	Diad. IBI.:	**15.59**	
Year: 2007																		
6.30	A	05/30/2007	1000	856	3(0.0)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	29(2.7)	18(4.1)	29(6.2)	45(6.8)	2.6(0.6)	**25**	4.0
					Log(Eel Rel No.):	1.3(4.3)	Log(Diad. Rel No.):		1.3(3.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.58**	
Year: 2008																		
5.30	A	09/25/2008	1000	859	5(2.5)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	28(2.8)	44(6.0)	51(4.1)	91(9.0)	0.0(10.0)	**36**	5.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.5(0.7)	Diad. IBI.:	**10.17**	
Year: 2009																		
17.30	A	09/22/2009	1000	735	9(6.6)	1(7.2)	2(3.6)	3(7.3)	17(6.2)	0(0.0)	0(0.0)	5(7.2)	41(5.8)	33(5.8)	5(4.1)	0.0(10.0)	**53**	7.2
					Log(Eel Rel No.):	1.4(4.7)	Log(Diad. Rel No.):		1.7(5.4)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.5(0.9)	Diad. IBI.:	**18.72**	
12.40	A	09/22/2009	1000	824	6(5.0)	1(7.2)	2(3.6)	3(7.3)	15(6.0)	0(0.0)	0(0.0)	13(4.7)	51(6.5)	38(5.4)	3(3.9)	0.5(1.4)	**43**	7.4
					Log(Eel Rel No.):	1.4(4.7)	Log(Diad. Rel No.):		1.4(4.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**14.27**	
5.30	A	09/21/2009	1000	859	5(3.3)	0(0.0)	2(3.6)	2(5.7)	1(4.6)	0(0.0)	0(0.0)	11(5.2)	78(8.5)	12(7.8)	4(4.0)	0.0(10.0)	**44**	6.6
					Log(Eel Rel No.):	1.4(4.9)	Log(Diad. Rel No.):		1.4(4.3)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**14.62**	
3.70	A	09/21/2009	1000	891	6(3.3)	0(0.0)	3(1.7)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	17(4.1)	21(4.3)	40(5.1)	5(4.1)	1.4(0.9)	**22**	5.8
					Log(Eel Rel No.):	1.4(4.9)	Log(Diad. Rel No.):		1.4(4.3)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**14.62**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
1.80	A	09/21/2009	1000	891	5(3.3)	0(0.0)	3(1.7)	1(3.0)	1(4.6)	0(0.0)	0(0.0)	19(3.7)	9(3.4)	29(6.2)	4(4.0)	1.0(1.0)	**26**	4.9
					Log(Eel Rel No.):	1.8(6.3)	Log(Diad. Rel No.):		1.8(5.7)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**17.42**	
Year: 2010																		
17.30	A	09/18/2010	1000	735	8(6.6)	1(7.2)	3(1.7)	3(7.3)	50(8.5)	0(0.0)	0(0.0)	7(6.2)	68(7.8)	18(7.3)	3(3.9)	0.0(10.0)	**55**	7.2
					Log(Eel Rel No.):	1.9(6.8)	Log(Diad. Rel No.):		1.9(6.2)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.5(0.7)	Diad. IBI.:	**21.33**	
8.10	A	09/18/2010	1000	2000	7(5.8)	0(0.0)	3(1.7)	2(5.7)	33(7.5)	0(0.0)	0(0.0)	22(3.4)	23(4.5)	59(3.3)	5(4.1)	0.0(10.0)	**38**	6.4
					Log(Eel Rel No.):	1.7(5.9)	Log(Diad. Rel No.):		1.7(5.4)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.5(0.7)	Diad. IBI.:	**19.72**	
5.30	A	09/20/2010	1000	859	6(2.5)	0(0.0)	3(1.7)	2(5.7)	2(4.6)	0(0.0)	0(0.0)	30(2.7)	30(5.0)	31(6.0)	19(5.1)	0.0(10.0)	**36**	6.6
					Log(Eel Rel No.):	2.3(8.6)	Log(Diad. Rel No.):		2.3(7.8)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**24.10**	
3.70	A	09/20/2010	1000	891	8(5.0)	1(7.2)	2(3.6)	3(7.3)	3(4.8)	0(0.0)	0(0.0)	12(4.9)	30(5.0)	18(7.2)	0(0.0)	0.0(10.0)	**46**	4.7
					Log(Eel Rel No.):	2.1(7.8)	Log(Diad. Rel No.):		2.1(7.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**20.33**	
1.50	A	09/20/2010	1000	2000	8(6.6)	0(0.0)	7(0.0)	2(5.7)	41(8.0)	0(0.0)	0(0.0)	7(6.2)	29(4.9)	64(2.9)	0(0.0)	0.0(10.0)	**37**	7.6
					Log(Eel Rel No.):	1.1(3.7)	Log(Diad. Rel No.):		1.6(4.7)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		1.4(0.9)	Diad. IBI.:	**19.27**	
Year: 2011																		
5.30	P	09/04/2011	1000	859	7(5.8)	0(0.0)	4(0.5)	2(5.7)	28(7.1)	0(0.0)	0(0.0)	16(4.2)	22(4.4)	54(3.8)	0(0.0)	0.0(10.0)	**35**	7.5
					Log(Eel Rel No.):	1.5(5.1)	Log(Diad. Rel No.):		1.9(6.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.7(1.0)	Diad. IBI.:	**19.80**	
5.30	P	10/15/2011	1000	859	7(4.2)	0(0.0)	1(6.0)	2(5.7)	0(0.0)	0(0.0)	0(0.0)	19(3.8)	11(3.5)	27(6.4)	50(7.1)	0.0(10.0)	**39**	6.3
					Log(Eel Rel No.):	1.3(4.4)	Log(Diad. Rel No.):		1.9(6.2)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		1.8(1.0)	Diad. IBI.:	**21.62**	
3.50	P	09/04/2011	1000	891	7(5.8)	0(0.0)	6(0.0)	2(5.7)	17(6.1)	0(0.0)	0(0.0)	12(4.8)	31(5.0)	22(6.8)	29(5.8)	0.0(10.0)	**42**	8.0
					Log(Eel Rel No.):	1.5(4.9)	Log(Diad. Rel No.):		2.3(8.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		2.3(1.0)	Diad. IBI.:	**21.70**	
3.50	P	10/15/2011	1000	891	11(8.3)	0(0.0)	3(1.7)	3(7.3)	43(8.1)	0(0.0)	0(0.0)	6(6.6)	46(6.2)	47(4.5)	87(8.9)	0.0(10.0)	**51**	7.2
					Log(Eel Rel No.):	1.2(4.0)	Log(Diad. Rel No.):		1.3(3.7)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**20.57**	
1.50	P	09/04/2011	1000	2000	7(5.0)	0(0.0)	6(0.0)	2(5.7)	44(8.2)	0(0.0)	0(0.0)	7(6.2)	10(3.5)	69(2.4)	46(6.8)	0.0(10.0)	**40**	7.4
					Log(Eel Rel No.):	1.6(5.3)	Log(Diad. Rel No.):		1.8(5.5)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.3(0.9)	Diad. IBI.:	**19.40**	
1.50	P	10/15/2011	1000	2000	10(8.3)	0(0.0)	4(0.5)	3(7.3)	48(8.4)	0(0.0)	0(0.0)	15(4.4)	24(4.5)	68(2.4)	20(5.2)	0.0(10.0)	**43**	6.4
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		1.0(3.0)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.8(0.8)	Diad. IBI.:	**16.13**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
Year: 2012																		
5.30	A	10/08/2012	1000	859	9(5.0)	0(0.0)	4(0.5)	3(7.3)	9(5.4)	0(0.0)	0(0.0)	1(10.6)	8(3.3)	11(7.9)	30(5.8)	0.0(10.0)	**47**	7.3
					Log(Eel Rel No.):	1.1(3.8)	Log(Diad. Rel No.):		2.6(9.3)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		2.6(1.1)	Diad. IBI.:	**26.47**	
3.70	A	10/08/2012	1000	891	7(5.0)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	4(7.8)	11(3.6)	5(8.5)	29(5.8)	0.0(10.0)	**39**	6.5
					Log(Eel Rel No.):	1.4(4.8)	Log(Diad. Rel No.):		2.2(7.4)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		2.1(1.0)	Diad. IBI.:	**25.43**	
1.80	A	10/09/2012	1000	891	6(5.0)	0(0.0)	2(3.6)	1(3.0)	4(4.9)	0(0.0)	0(0.0)	33(2.4)	12(3.6)	57(3.5)	11(4.5)	2.5(0.6)	**26**	5.3
					Log(Eel Rel No.):	1.6(5.4)	Log(Diad. Rel No.):		1.6(4.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.62**	
Year: 2013																		
5.30	A	10/07/2013	1000	859	8(5.0)	1(7.2)	3(1.7)	2(5.7)	3(4.7)	0(0.0)	0(0.0)	8(5.7)	17(4.0)	12(7.9)	7(4.2)	0.3(1.6)	**40**	5.8
					Log(Eel Rel No.):	2.4(9.0)	Log(Diad. Rel No.):		2.4(8.2)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**24.90**	
1.80	A	10/07/2013	500	891	5(3.3)	0(0.0)	5(0.0)	2(5.7)	22(6.6)	0(0.0)	0(0.0)	7(6.2)	4(3.0)	29(6.2)	2(3.8)	0.0(10.0)	**37**	3.9
					Log(Eel Rel No.):	2.7(10.7)	Log(Diad. Rel No.):		2.7(9.9)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**26.00**	
Year: 2014																		
5.30	A	09/28/2014	1000	859	6(3.3)	0(0.0)	2(3.6)	2(5.7)	0(4.5)	0(0.0)	0(0.0)	11(5.2)	5(3.1)	12(7.9)	3(3.9)	0.0(10.0)	**39**	4.5
					Log(Eel Rel No.):	2.5(9.7)	Log(Diad. Rel No.):		2.5(8.9)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**26.38**	
3.70	A	09/28/2014	1000	891	7(3.3)	0(0.0)	3(1.7)	2(5.7)	1(4.6)	0(0.0)	0(0.0)	34(2.4)	47(6.2)	41(5.0)	47(6.9)	1.0(1.0)	**31**	5.9
					Log(Eel Rel No.):	1.4(4.6)	Log(Diad. Rel No.):		1.4(4.1)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**16.41**	
1.80	A	09/28/2014	1000	891	9(6.6)	0(0.0)	5(0.0)	2(5.7)	28(7.1)	0(0.0)	0(0.0)	23(3.3)	8(3.3)	64(2.8)	7(4.2)	0.3(1.6)	**29**	5.7
					Log(Eel Rel No.):	2.0(7.1)	Log(Diad. Rel No.):		2.0(6.5)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**21.29**	
Higgins Brook - (50110)																		
Year: 2010																		
3.00	A	09/15/2010	1000	2000	8(6.6)	0(0.0)	3(1.7)	2(5.7)	42(8.0)	0(0.0)	0(0.0)	26(3.0)	8(3.4)	89(0.4)	0(0.0)	0.0(10.0)	**32**	7.1
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		1.3(3.9)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.3(0.9)	Diad. IBI.:	**14.66**	
Sandy River - (50300)																		
Year: 2006																		
9.00	A	07/13/2006	1000	489	6(2.5)	1(7.2)	1(6.0)	2(5.7)	0(0.0)	0(0.0)	0(0.0)	79(0.3)	12(3.6)	86(0.7)	72(8.2)	0.0(10.0)	**37**	5.1
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.70**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
8.30	A	07/13/2006	1000	491	6(4.2)	0(0.0)	1(6.0)	2(5.7)	4(4.9)	0(0.0)	0(0.0)	25(3.1)	66(7.6)	33(5.8)	26(5.6)	12.3(0.0)	**36**	6.5
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
6.60	A	07/12/2006	1000	576	5(2.5)	1(7.2)	1(6.0)	2(5.7)	1(4.5)	0(0.0)	1(0.1)	51(1.3)	12(3.7)	84(1.0)	89(8.9)	0.0(10.0)	**42**	5.6
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):		0.8(2.2)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**10.29**	
5.50	A	07/12/2006	1000	563	5(2.5)	1(7.2)	1(6.0)	3(7.3)	7(5.2)	0(0.0)	1(0.2)	59(1.0)	10(3.5)	90(0.3)	36(6.3)	0.0(10.0)	**41**	3.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
5.00	A	07/12/2006	1000	565	9(5.8)	1(7.2)	1(6.0)	4(8.4)	14(5.8)	0(0.0)	1(0.1)	53(1.2)	28(4.8)	70(2.3)	0(0.0)	0.0(10.0)	**43**	4.7
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
4.60	A	07/12/2006	1000	572	7(4.2)	2(8.4)	3(1.7)	3(7.3)	11(5.6)	0(0.0)	0(0.0)	62(0.9)	29(4.9)	70(2.3)	38(6.4)	0.0(10.0)	**43**	6.0
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.70**	
3.50	A	07/12/2006	1000	579	5(1.7)	1(7.2)	1(6.0)	2(5.7)	0(0.0)	0(0.0)	0(0.0)	80(0.2)	9(3.4)	82(1.1)	25(5.5)	0.0(10.0)	**34**	3.1
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**9.85**	
Year: 2009																		
9.50	A	09/20/2009	1000	517	5(2.5)	3(9.1)	2(3.6)	2(5.7)	0(0.0)	1(9.5)	0(0.0)	41(1.9)	51(6.5)	43(4.8)	37(6.3)	0.0(10.0)	**50**	5.8
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):		0.8(2.2)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**10.29**	
6.60	A	09/20/2009	1000	576	4(1.7)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	53(1.2)	41(5.8)	56(3.6)	25(5.5)	0.0(10.0)	**29**	5.1
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.70**	
5.60	A	09/20/2009	1000	578	4(1.7)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	25(3.1)	53(6.7)	41(5.0)	47(6.9)	0.0(10.0)	**33**	5.7
					Log(Eel Rel No.):	0.8(2.8)	Log(Diad. Rel No.):		0.8(2.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**10.67**	
4.30	A	09/21/2009	1000	578	5(2.5)	2(8.4)	2(3.6)	3(7.3)	8(5.3)	0(0.0)	0(0.0)	22(3.4)	76(8.3)	23(6.8)	6(4.2)	0.0(10.0)	**50**	5.9
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**9.85**	
Dead River - (50500)																		
Year: 2007																		
22.00	P	09/14/2007	1000	547	8(6.6)	4(9.6)	1(6.0)	4(8.4)	17(6.1)	2(9.5)	13(1.4)	0(10.0)	50(7.6)	50(4.2)	58(7.5)	0.3(1.5)	**65**	6.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
15.46	P	08/23/2007	1000	760	4(1.7)	2(8.4)	1(6.0)	1(3.0)	7(5.2)	18(9.3)	0(0.0)	32(2.5)	67(7.6)	33(5.8)	0(0.0)	0.0(10.0)	**50**	4.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
West Outlet - Moosehead Lake - (50600)																		
Year: 2007																		
8.36	P	08/17/2007	500	1253	4(3.3)	0(0.0)	1(6.0)	2(5.7)	6(5.0)	0(0.0)	0(0.0)	3(8.6)	79(8.5)	21(7.0)	0(0.0)	0.0(10.0)	**45**	6.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
6.65	P	08/17/2007	1000	1258	4(2.5)	0(0.0)	1(6.0)	2(5.7)	10(5.5)	0(0.0)	0(0.0)	28(2.8)	46(6.1)	54(3.8)	0(0.0)	0.0(10.0)	**35**	6.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
0.83	P	08/17/2007	1000	1263	3(1.7)	2(8.4)	1(6.0)	1(3.0)	0(0.0)	2(9.5)	0(0.0)	53(1.2)	23(4.4)	77(1.5)	5(4.0)	0.0(10.0)	**41**	4.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
East Outlet - Moosehead Lake - (50700)																		
Year: 2007																		
2.47	P	08/18/2007	1000	1251	4(1.7)	3(9.1)	1(6.0)	3(7.3)	0(0.0)	0(0.0)	47(5.1)	5(7.2)	95(9.7)	5(8.5)	78(8.5)	0.0(10.0)	**61**	5.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
0.90	P	08/18/2007	1000	1253	4(2.5)	3(9.1)	1(6.0)	3(7.3)	0(0.0)	0(0.0)	8(0.9)	10(5.3)	86(9.0)	14(7.6)	10(4.4)	0.0(10.0)	**52**	3.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
Moose River - (50900)																		
Year: 2007																		
26.47	P	08/22/2007	1000	414	7(5.0)	2(8.4)	1(6.0)	4(8.4)	53(8.7)	0(0.0)	3(0.3)	0(10.0)	39(9.7)	61(3.2)	0(0.0)	0.9(1.1)	**51**	6.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
Kennebec River (dst. Edwards Dam) - (51001)																		
Year: 2002																		
26.90	A	09/26/2002	1000	4792	10(7.5)	0(0.0)	3(1.7)	2(5.7)	21(6.5)	0(0.0)	0(0.0)	0(17.2)	4(3.1)	58(3.4)	25(5.5)	0.1(2.2)	**44**	7.6
					Log(Eel Rel No.):	1.7(5.7)	Log(Diad. Rel No.):		1.9(6.0)	No. Diad. Sp.:	5(10.0)	Log(Clupeid Rel. No.:			1.4(0.9)	Diad. IBI.:	**22.54**	
19.00	A	09/24/2002	1000	4713	12(9.1)	0(0.0)	4(0.5)	2(5.7)	35(7.6)	0(0.0)	0(0.0)	2(9.1)	7(3.3)	57(3.5)	37(6.3)	0.8(1.1)	**39**	7.6
					Log(Eel Rel No.):	2.1(7.7)	Log(Diad. Rel No.):		2.4(8.1)	No. Diad. Sp.:	6(10.0)	Log(Clupeid Rel. No.:			2.0(1.0)	Diad. IBI.:	**26.84**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
8.30	A	08/14/2002	1000	4681	7(4.2)	0(0.0)	4(0.5)	1(3.0)	43(8.1)	0(0.0)	0(0.0)	13(4.6)	6(3.2)	71(2.1)	29(5.8)	0.4(1.4)	**27**	6.2
					Log(Eel Rel No.):	2.0(7.1)	Log(Diad. Rel No.):		2.0(6.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.0(0.8)	Diad. IBI.:	**22.16**	
4.30	A	08/05/2002	1000	4367	5(1.7)	0(0.0)	4(0.5)	1(3.0)	4(4.9)	0(0.0)	0(0.0)	18(3.9)	13(3.7)	79(1.4)	17(5.0)	0.0(10.0)	**28**	5.3
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):		1.0(2.7)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.5(0.7)	Diad. IBI.:	**13.73**	
4.30	A	08/16/2002	1000	4367	4(1.7)	0(0.0)	4(0.5)	1(3.0)	10(5.4)	0(0.0)	0(0.0)	15(4.4)	34(5.2)	58(3.5)	5(4.1)	0.0(10.0)	**32**	5.2
					Log(Eel Rel No.):	1.2(4.1)	Log(Diad. Rel No.):		1.3(3.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.44**	
Quinebaug River - (55100)																		
Year: 2008																		
31.30	A	10/10/2008	1000	372	7(5.8)	0(0.0)	4(0.5)	2(5.7)	13(5.8)	0(0.0)	1(0.1)	26(3.0)	39(5.6)	58(3.4)	22(5.3)	0.0(10.0)	**38**	6.7
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
21.50	A	10/10/2008	1000	462	4(1.7)	0(0.0)	4(0.5)	1(3.0)	1(4.5)	0(0.0)	0(0.0)	20(3.6)	57(6.9)	43(4.9)	83(8.7)	0.6(1.3)	**29**	6.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
Year: 2009																		
38.10	A	10/05/2009	1000	1000	8(5.8)	1(7.2)	4(0.5)	2(5.7)	3(4.8)	0(0.0)	0(0.0)	3(8.5)	39(5.6)	61(3.2)	37(6.3)	0.3(1.5)	**41**	7.5
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
24.90	A	10/06/2009	1000	400	4(2.5)	1(7.2)	4(0.5)	1(3.0)	3(4.8)	0(0.0)	0(0.0)	27(2.9)	30(4.9)	68(2.4)	40(6.5)	0.0(10.0)	**37**	7.0
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.70**	
24.90	A	08/25/2009	1650	400	6(5.0)	1(7.2)	6(0.0)	2(5.7)	1(4.5)	0(0.0)	1(0.1)	17(4.0)	7(3.3)	91(0.2)	0(0.0)	0.0(10.0)	**33**	4.3
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**9.78**	
15.20	A	10/04/2009	1000	1000	4(1.7)	0(0.0)	4(0.5)	1(3.0)	2(4.6)	0(0.0)	0(0.0)	6(6.8)	21(4.3)	79(1.4)	18(5.1)	1.1(1.0)	**24**	6.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
14.10	A	10/04/2009	1000	1000	5(2.5)	0(0.0)	6(0.0)	1(3.0)	5(5.0)	0(0.0)	0(0.0)	3(8.5)	24(4.5)	74(1.9)	20(5.1)	2.2(0.7)	**26**	7.3
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.70**	
14.10	A	08/27/2009	1510	1000	7(5.0)	2(8.4)	7(0.0)	1(3.0)	4(4.8)	0(9.5)	0(0.0)	5(7.2)	7(3.3)	91(0.3)	0(0.0)	0.0(10.0)	**43**	4.4
					Log(Eel Rel No.):	0.9(2.9)	Log(Diad. Rel No.):		0.9(2.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**10.77**	
Shetucket River - (55110)																		

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
Year: 2008																		
6.30	A	10/11/2008	1000	450	5(1.7)	2(8.4)	2(3.6)	1(3.0)	0(0.0)	7(9.5)	0(0.0)	55(1.1)	30(4.9)	56(3.6)	0(0.0)	0.0(10.0)	**38**	5.5
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):		1.1(3.2)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.53**	
Year: 2009																		
6.30	A	08/18/2009	1640	450	5(1.7)	1(7.2)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	40(2.0)	4(3.1)	45(4.7)	0(0.0)	0.0(10.0)	**27**	2.1
					Log(Eel Rel No.):	1.8(6.5)	Log(Diad. Rel No.):		1.8(5.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**17.75**	
4.00	A	10/06/2009	1000	1000	6(4.2)	0(0.0)	7(0.0)	2(5.7)	10(5.5)	0(0.0)	0(0.0)	6(6.6)	1(2.8)	98(0.0)	0(0.0)	1.0(1.0)	**22**	4.1
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**10.54**	
Farmington River - (55200)																		
Year: 2009																		
25.70	A	09/30/2009	1000	476	6(3.3)	0(0.0)	6(0.0)	1(3.0)	0(0.0)	0(0.0)	10(1.1)	9(5.7)	43(5.9)	28(6.3)	35(6.2)	0.0(10.0)	**35**	6.9
					Log(Eel Rel No.):	1.1(3.8)	Log(Diad. Rel No.):		1.7(5.2)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**16.68**	
21.80	A	09/29/2009	1000	1000	7(4.2)	0(0.0)	5(0.0)	2(5.7)	1(4.6)	0(0.0)	0(0.0)	4(7.5)	27(4.8)	25(6.5)	30(5.8)	0.0(10.0)	**41**	7.3
					Log(Eel Rel No.):	1.1(3.7)	Log(Diad. Rel No.):		2.1(6.9)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**18.31**	
5.60	A	09/01/2009	1000	591	6(4.2)	0(0.0)	7(0.0)	1(3.0)	1(4.6)	0(0.0)	1(0.1)	6(6.8)	7(3.3)	31(6.0)	0(0.0)	0.0(10.0)	**32**	6.1
					Log(Eel Rel No.):	2.2(8.3)	Log(Diad. Rel No.):		2.3(7.6)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**25.84**	
5.60	A	08/15/2009	1790	591	8(6.6)	0(0.0)	8(0.0)	1(3.0)	39(7.8)	0(0.0)	11(1.2)	3(8.1)	28(4.8)	56(3.6)	0(0.0)	0.0(10.0)	**38**	4.1
					Log(Eel Rel No.):	1.6(5.4)	Log(Diad. Rel No.):		1.7(5.2)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.7(0.8)	Diad. IBI.:	**21.42**	
5.60	A	09/30/2009	1520	591	5(4.2)	0(0.0)	2(3.6)	1(3.0)	3(4.7)	0(0.0)	0(0.0)	4(7.9)	50(6.4)	22(6.9)	0(0.0)	0.0(10.0)	**39**	3.4
					Log(Eel Rel No.):	1.3(4.3)	Log(Diad. Rel No.):		1.3(3.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.54**	
2.20	A	08/31/2009	1000	1000	5(3.3)	0(0.0)	7(0.0)	1(3.0)	39(7.9)	0(0.0)	0(0.0)	3(8.5)	16(4.0)	75(1.8)	51(7.1)	0.9(1.1)	**31**	6.7
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		1.2(3.4)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.0(0.8)	Diad. IBI.:	**14.33**	
2.20	A	09/23/2009	1720	1000	7(5.0)	0(0.0)	8(0.0)	1(3.0)	10(5.5)	0(0.0)	1(0.1)	6(6.7)	28(4.8)	53(3.9)	0(0.0)	0.0(10.0)	**33**	4.3
					Log(Eel Rel No.):	1.0(3.4)	Log(Diad. Rel No.):		1.4(4.3)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.8(0.8)	Diad. IBI.:	**18.41**	
0.30	A	08/31/2009	1000	1000	6(4.2)	0(0.0)	10(0.0)	1(3.0)	83(9.6)	0(0.0)	0(0.0)	1(11.4)	6(3.2)	92(0.1)	49(7.0)	0.3(1.5)	**33**	5.8
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		1.0(3.0)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.7(0.8)	Diad. IBI.:	**16.11**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
0.30	A	08/14/2009	1230	1000	7(5.0)	0(0.0)	6(0.0)	1(3.0)	0(0.0)	0(0.0)	4(0.5)	7(6.2)	28(4.8)	48(4.4)	0(0.0)	0.0(10.0)	**28**	4.4
					Log(Eel Rel No.): 1.0(3.4)		Log(Diad. Rel No.):		1.6(4.8)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:	1.1(0.9)		Diad. IBI.:		**18.99**	
0.30	A	09/30/2009	1000	1000	4(2.5)	1(7.2)	7(0.0)	1(3.0)	26(6.9)	0(0.0)	0(0.0)	1(10.1)	4(3.1)	84(0.9)	0(0.0)	0.0(10.0)	**36**	2.8
					Log(Eel Rel No.): 1.2(4.0)		Log(Diad. Rel No.):		1.3(3.9)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.0(0.0)		Diad. IBI.:		**15.62**	
W. Br. Farmington River - (55250)																		
Year: 2009																		
15.30	A	09/29/2009	1000	1000	8(4.2)	4(9.6)	1(6.0)	4(8.4)	26(6.9)	27(10.0)	27(3.0)	0(10.0)	70(5.9)	1(8.9)	45(6.8)	0.6(1.3)	**68**	7.3
					Log(Eel Rel No.): 1.0(3.2)		Log(Diad. Rel No.):		2.0(6.4)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.0(0.0)		Diad. IBI.:		**17.32**	
15.30	A	08/21/2009	1790	1000	6(2.5)	3(9.1)	2(3.6)	4(8.4)	42(8.0)	0(0.0)	54(5.9)	0(10.0)	95(6.4)	2(8.8)	0(0.0)	0.0(10.0)	**61**	4.0
					Log(Eel Rel No.): 0.7(2.5)		Log(Diad. Rel No.):		0.7(2.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)		Diad. IBI.:		**10.12**	
Pawtucket River - (55300)																		
Year: 2009																		
21.90	A	06/25/2009	1000	1000	7(5.8)	2(8.4)	5(0.0)	2(5.7)	1(4.5)	1(9.5)	1(0.1)	2(9.6)	18(4.1)	78(1.5)	51(7.1)	0.0(10.0)	**55**	5.9
					Log(Eel Rel No.): 0.8(2.6)		Log(Diad. Rel No.):		0.9(2.6)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.0(0.0)		Diad. IBI.:		**12.90**	
21.90	A	09/22/2009	1200	1000	7(5.8)	1(7.2)	5(0.0)	3(7.3)	4(4.9)	0(0.0)	4(0.4)	2(9.2)	8(3.4)	85(0.8)	0(0.0)	0.0(10.0)	**41**	3.7
					Log(Eel Rel No.): 1.2(3.8)		Log(Diad. Rel No.):		1.2(3.3)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)		Diad. IBI.:		**12.57**	
20.50	A	06/28/2009	1000	1000	5(4.2)	1(7.2)	5(0.0)	2(5.7)	5(5.0)	0(0.0)	0(0.0)	0(13.0)	5(3.1)	94(0.0)	52(7.2)	0.0(10.0)	**46**	5.0
					Log(Eel Rel No.): 0.6(2.1)		Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)		Diad. IBI.:		**9.34**	
18.00	A	06/25/2009	1000	1000	5(4.2)	1(7.2)	5(0.0)	2(5.7)	9(5.4)	0(0.0)	0(0.0)	1(11.3)	3(3.0)	91(0.2)	12(4.6)	0.0(10.0)	**43**	5.5
					Log(Eel Rel No.): 1.1(3.6)		Log(Diad. Rel No.):		1.1(3.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)		Diad. IBI.:		**12.09**	
13.50	A	06/26/2009	1000	1000	5(4.2)	0(0.0)	4(0.5)	2(5.7)	3(4.8)	0(0.0)	0(0.0)	3(8.0)	2(2.9)	93(0.1)	20(5.2)	0.0(10.0)	**35**	5.3
					Log(Eel Rel No.): 1.1(3.7)		Log(Diad. Rel No.):		1.1(3.2)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)		Diad. IBI.:		**12.32**	
13.40	A	06/26/2009	1000	1000	3(2.5)	0(0.0)	4(0.5)	0(0.0)	13(5.8)	0(0.0)	0(0.0)	6(6.5)	0(0.0)	90(0.4)	0(0.0)	0.0(10.0)	**21**	4.8
					Log(Eel Rel No.): 1.3(4.3)		Log(Diad. Rel No.):		1.3(3.8)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)		Diad. IBI.:		**13.58**	
12.40	A	06/28/2009	1000	1000	5(4.2)	0(0.0)	3(1.7)	1(3.0)	3(4.8)	0(0.0)	0(0.0)	6(6.5)	2(2.9)	87(0.6)	22(5.3)	0.6(1.3)	**25**	5.8
					Log(Eel Rel No.): 1.3(4.3)		Log(Diad. Rel No.):		1.3(3.8)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)		Diad. IBI.:		**13.58**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
10.10	A	09/02/2009	1000	1000	5(4.2)	0(0.0)	6(0.0)	1(3.0)	4(4.9)	0(0.0)	1(0.1)	8(6.0)	16(4.0)	76(1.7)	53(7.3)	0.6(1.3)	**27**	7.1
					Log(Eel Rel No.):	1.1(3.6)	Log(Diad. Rel No.):		1.1(3.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.09**	
10.10	A	09/14/2009	1000	1000	4(2.5)	0(0.0)	4(0.5)	1(3.0)	1(4.6)	0(0.0)	3(0.4)	13(4.8)	7(3.3)	85(0.8)	0(0.0)	0.0(10.0)	**25**	3.6
					Log(Eel Rel No.):	0.8(2.8)	Log(Diad. Rel No.):		0.8(2.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**10.67**	
8.60	A	06/27/2009	1000	1000	7(5.0)	0(0.0)	3(1.7)	3(7.3)	1(4.6)	0(0.0)	1(0.1)	5(7.0)	32(5.1)	55(3.7)	63(7.8)	0.0(10.0)	**44**	6.7
					Log(Eel Rel No.):	1.1(3.7)	Log(Diad. Rel No.):		1.1(3.2)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.32**	
8.60	A	09/14/2009	1000	1000	5(2.5)	0(0.0)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	8(5.9)	8(3.4)	82(1.1)	0(0.0)	0.0(10.0)	**22**	3.7
					Log(Eel Rel No.):	1.0(3.2)	Log(Diad. Rel No.):		1.0(2.7)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.32**	
7.60	A	06/27/2009	1000	1000	6(4.2)	0(0.0)	4(0.5)	1(3.0)	2(4.7)	0(0.0)	1(0.1)	12(4.9)	30(5.0)	57(3.6)	61(7.7)	0.0(10.0)	**36**	6.7
					Log(Eel Rel No.):	1.1(3.7)	Log(Diad. Rel No.):		1.1(3.2)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.32**	
7.60	A	09/15/2009	1120	1000	5(4.2)	0(0.0)	4(0.5)	2(5.7)	12(5.7)	0(0.0)	3(0.4)	4(7.5)	7(3.3)	78(1.5)	0(0.0)	0.0(10.0)	**32**	3.9
					Log(Eel Rel No.):	1.2(4.0)	Log(Diad. Rel No.):		1.2(3.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.93**	
4.20	A	06/28/2009	1000	1000	8(5.8)	1(7.2)	3(1.7)	2(5.7)	2(4.6)	9(9.5)	1(0.1)	1(11.5)	41(5.8)	41(5.0)	80(8.6)	0.0(10.0)	**63**	6.4
					Log(Eel Rel No.):	1.0(3.4)	Log(Diad. Rel No.):		1.3(3.9)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.10**	
4.20	A	10/07/2009	1000	1000	4(3.3)	0(0.0)	3(1.7)	1(3.0)	1(4.5)	0(0.0)	0(0.0)	12(4.9)	51(6.5)	37(5.5)	75(8.4)	0.7(1.2)	**33**	6.2
					Log(Eel Rel No.):	1.2(3.9)	Log(Diad. Rel No.):		1.2(3.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.73**	
4.20	A	09/13/2009	1280	1000	6(5.0)	1(7.2)	5(0.0)	2(5.7)	29(7.1)	0(0.0)	3(0.3)	2(8.8)	32(5.1)	55(3.7)	0(0.0)	0.0(10.0)	**44**	4.2
					Log(Eel Rel No.):	1.4(4.8)	Log(Diad. Rel No.):		1.4(4.2)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**14.46**	
4.20	A	10/04/2009	1320	1000	7(5.8)	1(7.2)	4(0.5)	1(3.0)	8(5.3)	2(9.5)	2(0.2)	20(3.6)	21(4.3)	70(2.3)	0(0.0)	0.0(10.0)	**43**	4.0
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):		0.9(2.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.97**	
Housatonic River - (56001)																		
Year: 2008																		
61.60	A	09/30/2008	1000	746	3(0.0)	2(8.4)	6(0.0)	1(3.0)	6(5.1)	0(0.0)	0(0.0)	25(3.1)	67(7.6)	31(6.0)	52(7.2)	1.4(0.9)	**34**	6.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
50.00	A	09/30/2008	1000	1011	3(0.9)	1(7.2)	5(0.0)	1(3.0)	47(8.3)	0(0.0)	1(0.1)	6(6.6)	41(5.7)	53(3.9)	47(6.9)	0.8(1.1)	**36**	6.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
43.10	A	09/29/2008	1000	1120	3(1.7)	0(0.0)	7(0.0)	1(3.0)	5(5.0)	0(0.0)	0(0.0)	28(2.9)	4(3.0)	95(0.0)	3(3.9)	0.0(10.0)	**25**	5.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
43.10	A	08/14/2008	3280	1120	7(5.8)	0(0.0)	7(0.0)	2(5.7)	10(5.5)	0(0.0)	0(0.0)	17(4.0)	31(5.0)	52(3.9)	0(0.0)	0.0(10.0)	**33**	4.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.0(2.9)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		1.0(0.8)	Diad. IBI.:	**9.13**	
Year: 2009																		
90.20	A	09/16/2009	1000	466	4(1.7)	0(0.0)	9(0.0)	1(3.0)	8(5.3)	0(0.0)	3(0.3)	10(5.3)	13(3.7)	83(1.0)	6(4.2)	0.0(10.0)	**29**	6.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
90.20	A	10/02/2009	1000	466	4(1.7)	0(0.0)	5(0.0)	1(3.0)	5(5.0)	0(0.0)	8(0.8)	13(4.8)	23(4.4)	75(1.8)	0(0.0)	0.0(10.0)	**26**	3.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
80.90	A	09/17/2009	1000	1000	2(0.9)	0(0.0)	7(0.0)	1(3.0)	14(5.9)	0(0.0)	2(0.2)	17(4.1)	2(2.9)	85(0.9)	4(3.9)	0.0(10.0)	**27**	3.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
50.00	A	08/12/2009	2780	1011	4(0.9)	1(7.2)	6(0.0)	1(3.0)	16(6.1)	0(0.0)	2(0.2)	22(3.4)	40(5.7)	45(4.6)	0(0.0)	0.6(1.3)	**27**	3.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
47.90	A	09/17/2009	1000	1000	5(1.7)	1(7.2)	5(0.0)	2(5.7)	16(6.0)	0(0.0)	4(0.4)	20(3.6)	19(4.2)	73(2.0)	10(4.4)	2.9(0.5)	**30**	5.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
Blackstone River - (57100)																		
Year: 2009																		
43.40	A	08/24/2009	1000	62	3(1.7)	0(0.0)	3(1.7)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	4(7.8)	71(8.0)	29(6.2)	4(4.0)	1.5(0.9)	**28**	6.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
40.80	A	08/25/2009	1000	71	3(0.9)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	0(12.9)	96(9.8)	4(8.6)	69(8.1)	1.4(0.9)	**42**	6.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
38.00	A	08/26/2009	1000	84	3(2.5)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	3(8.2)	39(5.6)	61(3.2)	12(4.6)	0.9(1.1)	**27**	6.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
37.60	A	08/26/2009	1000	1000	3(3.3)	0(0.0)	4(0.5)	1(3.0)	1(4.6)	0(0.0)	0(0.0)	3(8.0)	23(4.5)	77(1.6)	20(5.2)	0.0(10.0)	**34**	5.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
32.00	A	08/27/2009	1000	138	3(1.7)	0(0.0)	4(0.5)	1(3.0)	13(5.8)	0(0.0)	0(0.0)	0(13.2)	50(6.5)	50(4.2)	0(0.0)	2.4(0.6)	**30**	7.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
31.70	A	08/27/2009	1000	138	3(1.7)	0(0.0)	3(1.7)	1(3.0)	14(5.8)	0(0.0)	1(0.1)	0(10.0)	56(4.9)	44(4.8)	2(3.8)	1.7(0.8)	**31**	6.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
14.70	A	06/20/2009	1000	1000	3(1.7)	0(0.0)	5(0.0)	1(3.0)	15(5.9)	0(0.0)	1(0.1)	27(2.9)	28(4.9)	69(2.4)	18(5.0)	2.6(0.6)	**22**	6.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
13.30	A	06/18/2009	1000	1000	3(2.5)	0(0.0)	5(0.0)	1(3.0)	86(9.7)	0(0.0)	0(0.0)	2(9.9)	5(3.1)	95(0.0)	44(6.7)	0.4(1.5)	**30**	5.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
11.00	A	06/20/2009	1000	1000	5(4.2)	0(0.0)	6(0.0)	2(5.7)	6(5.1)	0(0.0)	0(0.0)	8(5.9)	13(3.7)	87(0.7)	32(6.0)	1.4(0.9)	**27**	6.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
11.00	A	08/23/2009	1670	1000	3(2.5)	0(0.0)	5(0.0)	1(3.0)	7(5.2)	0(0.0)	0(0.0)	9(5.7)	4(3.1)	93(0.1)	0(0.0)	0.0(10.0)	**25**	2.0
					Log(Eel Rel No.):	-0.2(0.0)	Log(Diad. Rel No.):		-0.2(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
7.90	A	06/22/2009	1000	1000	4(3.3)	0(0.0)	8(0.0)	2(5.7)	13(5.7)	0(0.0)	0(0.0)	8(5.8)	51(6.5)	47(4.5)	55(7.4)	0.8(1.1)	**33**	7.1
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
7.90	A	08/26/2009	830	1000	4(2.5)	0(0.0)	6(0.0)	1(3.0)	0(4.5)	0(0.0)	7(0.8)	10(5.4)	16(3.9)	67(2.5)	0(0.0)	0.0(10.0)	**27**	3.8
					Log(Eel Rel No.):	1.5(5.2)	Log(Diad. Rel No.):		1.5(4.7)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.34**	
7.00	A	06/23/2009	1000	1000	6(4.2)	0(0.0)	3(1.7)	2(5.7)	24(6.8)	0(0.0)	0(0.0)	4(7.7)	44(6.0)	51(4.1)	57(7.5)	0.4(1.5)	**38**	6.9
					Log(Eel Rel No.):	1.1(3.6)	Log(Diad. Rel No.):		1.1(3.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.09**	
7.00	A	10/07/2009	1000	1000	3(0.0)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	3(7.9)	86(9.1)	10(8.0)	75(8.4)	0.0(10.0)	**42**	3.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
7.00	A	08/30/2009	890	1000	5(3.3)	0(0.0)	4(0.5)	2(5.7)	43(8.1)	0(0.0)	1(0.1)	6(6.7)	52(6.6)	45(4.7)	0(0.0)	0.0(10.0)	**38**	4.6
					Log(Eel Rel No.):	1.2(4.1)	Log(Diad. Rel No.):		1.2(3.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.19**	
7.00	A	09/23/2009	890	1000	4(0.9)	0(0.0)	5(0.0)	1(3.0)	0(0.0)	0(0.0)	4(0.4)	12(4.8)	25(4.6)	63(3.0)	0(0.0)	0.0(10.0)	**22**	3.8
					Log(Eel Rel No.):	1.5(5.3)	Log(Diad. Rel No.):		1.6(4.8)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**17.72**	
5.60	A	06/22/2009	1000	1000	5(2.5)	1(7.2)	4(0.5)	2(5.7)	29(7.2)	0(0.0)	3(0.3)	7(6.2)	58(7.0)	39(5.2)	38(6.4)	0.0(10.0)	**49**	6.4
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
Pawtuxet River - (57200)																		
Year: 2009																		
8.90	A	06/18/2009	1000	2000	3(0.0)	1(7.2)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	87(7.5)	6(8.4)	71(8.2)	0.7(1.2)	**41**	5.2
					Log(Eel Rel No.):	1.0(3.3)	Log(Diad. Rel No.):	1.0(2.9)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**11.61**				
8.20	A	06/18/2009	1000	2000	5(2.5)	0(0.0)	0(10.0)	2(5.7)	0(4.5)	0(0.0)	0(0.1)	0(10.0)	74(7.5)	11(8.0)	78(8.5)	0.0(10.0)	**56**	5.9
					Log(Eel Rel No.):	1.5(4.9)	Log(Diad. Rel No.):	1.5(4.4)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**14.73**				
8.20	A	08/27/2009	840	2000	4(1.7)	0(0.0)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	9(5.6)	46(6.1)	33(5.8)	0(0.0)	0.0(10.0)	**27**	4.0
					Log(Eel Rel No.):	1.7(6.0)	Log(Diad. Rel No.):	1.7(5.3)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**16.71**				
5.10	A	06/18/2009	1000	1000	3(0.9)	0(0.0)	2(3.6)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	2(9.3)	64(7.5)	22(6.9)	85(8.8)	0.0(10.0)	**45**	5.9
					Log(Eel Rel No.):	1.4(4.8)	Log(Diad. Rel No.):	1.4(4.2)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**14.39**				
4.10	A	06/21/2009	1000	1000	4(1.7)	0(0.0)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	14(4.5)	5(3.2)	83(1.0)	26(5.6)	0.9(1.1)	**17**	4.7
					Log(Eel Rel No.):	1.1(3.7)	Log(Diad. Rel No.):	1.1(3.2)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**12.32**				
4.10	A	07/28/2009	1260	1000	3(0.0)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	19(3.8)	2(2.9)	79(1.4)	0(0.0)	0.0(10.0)	**21**	1.3
					Log(Eel Rel No.):	0.9(2.9)	Log(Diad. Rel No.):	0.9(2.4)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**10.73**				
4.10	A	08/28/2009	1260	1000	4(2.5)	0(0.0)	4(0.5)	1(3.0)	1(4.5)	0(0.0)	0(0.0)	6(6.4)	0(2.8)	92(0.2)	0(0.0)	0.0(10.0)	**25**	1.1
					Log(Eel Rel No.):	1.4(4.6)	Log(Diad. Rel No.):	1.4(4.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**14.12**				
3.00	A	06/21/2009	1000	1000	4(1.7)	1(7.2)	6(0.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	10(5.4)	37(5.5)	46(4.6)	55(7.4)	0.6(1.2)	**30**	6.7
					Log(Eel Rel No.):	1.4(4.7)	Log(Diad. Rel No.):	1.4(4.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**14.27**				
1.30	A	06/23/2009	1000	1000	4(2.5)	1(7.2)	4(0.5)	1(3.0)	2(4.7)	0(0.0)	0(0.0)	7(6.4)	12(3.6)	88(0.6)	0(0.0)	0.0(10.0)	**32**	5.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**5.45**				
1.30	A	08/25/2009	1800	1000	2(0.9)	0(0.0)	4(0.5)	1(3.0)	19(6.3)	0(0.0)	0(0.0)	3(8.0)	1(2.8)	99(0.0)	0(0.0)	0.0(10.0)	**26**	1.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
Wood River - (57300)																		
Year: 2009																		
6.40	A	06/25/2009	1000	1000	6(4.2)	1(7.2)	3(1.7)	3(7.3)	3(4.8)	0(0.0)	5(0.6)	1(12.4)	74(8.2)	15(7.5)	0(0.0)	0.0(10.0)	**53**	6.6
					Log(Eel Rel No.):	1.3(4.3)	Log(Diad. Rel No.):	1.3(3.7)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**13.42**				

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
6.40	A	10/11/2009	600	1000	7(4.2)	0(0.0)	2(3.6)	3(7.3)	3(4.7)	0(0.0)	28(3.1)	0(10.0)	67(6.1)	31(6.0)	0(0.0)	0.0(10.0)	**46**	3.8
					Log(Eel Rel No.):	0.2(1.2)	Log(Diad. Rel No.):		0.2(0.9)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.55**	
Contoocook River - (58100)																		
Year: 2009																		
28.70	A	09/12/2009	700	1000	5(1.7)	2(8.4)	4(0.5)	3(7.3)	5(5.0)	0(0.0)	1(0.1)	26(3.0)	50(6.4)	28(6.3)	0(0.0)	0.0(10.0)	**41**	7.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
3.30	A	08/13/2009	1000	1000	4(3.3)	0(0.0)	4(0.5)	2(5.7)	9(5.4)	0(0.0)	1(0.1)	15(4.3)	6(3.2)	94(0.0)	16(4.9)	0.0(10.0)	**31**	6.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
3.30	A	09/10/2009	1000	1000	5(4.2)	0(0.0)	6(0.0)	2(5.7)	46(8.3)	0(0.0)	0(0.0)	11(5.0)	18(4.1)	82(1.1)	18(5.1)	0.5(1.3)	**29**	6.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
Androscoggin River (ust. Brunswick Dam) - (60001)																		
Year: 2003																		
164.30	A	08/04/2003	1000	1135	4(4.2)	3(9.1)	4(0.5)	2(5.7)	17(6.2)	0(0.0)	0(0.0)	21(3.5)	69(7.8)	31(6.0)	190(10.0)	1.0(1.0)	**45**	6.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
158.80	A	08/04/2003	1000	1142	5(2.5)	4(9.6)	3(1.7)	4(8.4)	73(9.4)	0(0.0)	2(0.3)	17(4.0)	83(8.8)	17(7.4)	78(8.5)	0.0(10.0)	**59**	5.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
148.10	A	08/04/2003	1000	1210	2(1.7)	0(0.0)	2(3.6)	0(0.0)	15(5.9)	0(0.0)	0(0.0)	24(3.2)	10(3.5)	90(0.4)	0(0.0)	0.0(10.0)	**24**	4.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
144.70	A	08/07/2003	1000	1215	4(3.3)	1(7.2)	3(1.7)	2(5.7)	16(6.1)	0(0.0)	0(0.0)	52(1.3)	36(5.4)	64(2.9)	0(0.0)	0.0(10.0)	**36**	4.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
139.20	A	08/07/2003	1000	1311	5(3.3)	2(8.4)	5(0.0)	3(7.3)	36(7.6)	0(0.0)	0(0.0)	19(3.7)	80(8.6)	20(7.0)	26(5.6)	0.0(10.0)	**51**	6.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
134.10	A	08/12/2003	1000	1335	2(0.0)	2(8.4)	5(0.0)	1(3.0)	4(4.8)	0(0.0)	0(0.0)	71(0.5)	24(4.5)	76(1.7)	0(0.0)	0.0(10.0)	**27**	3.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
132.00	A	08/09/2003	1000	1355	1(0.0)	0(0.0)	3(1.7)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	88(0.0)	10(3.5)	90(0.3)	0(0.0)	0.0(10.0)	**13**	2.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
131.50	A	08/13/2003	1000	1356	4(0.9)	1(7.2)	3(1.7)	2(5.7)	0(4.5)	0(9.5)	0(0.0)	93(0.0)	6(3.2)	94(0.0)	7(4.3)	0.0(10.0)	**39**	2.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
130.50	A	08/05/2003	1000	1359	6(4.2)	4(9.6)	4(0.5)	4(8.4)	23(6.7)	0(0.0)	23(2.5)	23(3.3)	76(8.3)	24(6.7)	29(5.8)	0.6(1.2)	**48**	7.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
128.60	A	08/05/2003	1000	1372	4(2.5)	0(0.0)	4(0.5)	2(5.7)	30(7.2)	0(0.0)	0(0.0)	20(3.7)	72(8.0)	28(6.3)	14(4.7)	0.2(1.7)	**34**	6.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
128.00	A	08/12/2003	1000	1373	8(4.2)	3(9.1)	3(1.7)	6(10.0)	36(7.7)	0(0.0)	36(3.9)	5(7.1)	95(9.7)	5(8.5)	223(10.0)	0.4(1.5)	**61**	6.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
124.40	A	08/09/2003	1000	1459	7(4.2)	4(9.6)	4(0.5)	6(10.0)	10(5.5)	0(0.0)	7(0.8)	16(4.2)	77(8.4)	23(6.7)	109(9.6)	0.0(10.0)	**58**	7.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
123.40	A	08/13/2003	1000	1462	4(2.5)	0(0.0)	2(3.6)	2(5.7)	37(7.7)	0(0.0)	0(0.0)	33(2.4)	23(4.4)	77(1.6)	11(4.6)	0.4(1.5)	**28**	6.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
119.80	A	08/08/2003	1000	1487	6(3.3)	4(9.6)	2(3.6)	5(9.3)	15(6.0)	0(0.0)	17(1.9)	57(1.1)	42(5.8)	58(3.4)	87(8.9)	0.6(1.2)	**45**	6.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
112.80	A	08/08/2003	1000	1619	8(5.0)	5(10.0)	4(0.5)	7(10.0)	18(6.3)	0(0.0)	18(1.9)	12(5.0)	86(9.0)	14(7.6)	87(8.8)	0.0(10.0)	**62**	7.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
103.70	A	08/14/2003	1000	1756	6(5.0)	2(8.4)	2(3.6)	5(9.3)	3(4.7)	0(0.0)	1(0.1)	28(2.8)	70(7.9)	30(6.1)	66(7.9)	0.0(10.0)	**55**	6.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
97.30	A	08/14/2003	1000	1842	7(5.0)	4(9.6)	3(1.7)	6(10.0)	5(5.0)	0(0.0)	2(0.2)	10(5.4)	90(9.3)	10(8.0)	111(9.6)	0.0(10.0)	**62**	6.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
88.70	A	08/14/2003	1000	2053	6(4.2)	2(8.4)	3(1.7)	3(7.3)	6(5.1)	0(0.0)	0(0.0)	21(3.5)	68(7.8)	32(5.9)	43(6.7)	0.0(10.0)	**51**	6.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
83.10	A	08/14/2003	1000	2064	6(5.0)	1(7.2)	3(1.7)	3(7.3)	78(9.5)	0(0.0)	0(0.0)	7(6.3)	3(3.0)	97(0.0)	33(6.0)	0.4(1.4)	**40**	4.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
79.30	A	09/08/2003	1000	2215	4(2.5)	3(9.1)	3(1.7)	3(7.3)	1(4.5)	0(0.0)	1(0.1)	90(0.0)	9(3.4)	91(0.2)	39(6.4)	0.0(10.0)	**38**	5.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
78.50	A	09/08/2003	1000	2219	4(3.3)	3(9.1)	3(1.7)	3(7.3)	1(4.6)	0(0.0)	1(0.1)	75(0.4)	23(4.4)	77(1.6)	64(7.8)	0.5(1.4)	**35**	5.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
76.90	A	09/08/2003	1000	2222	4(1.7)	2(8.4)	2(3.6)	3(7.3)	3(4.8)	0(0.0)	0(0.0)	61(0.9)	38(5.6)	62(3.1)	59(7.6)	0.0(10.0)	**44**	6.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
70.80	A	09/09/2003	1000	2252	6(4.2)	3(9.1)	3(1.7)	3(7.3)	0(4.5)	0(0.0)	0(0.0)	76(0.4)	22(4.4)	78(1.5)	4(4.0)	0.1(2.0)	**33**	4.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
66.20	A	09/09/2003	1000	2282	3(1.7)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	90(0.0)	7(3.3)	93(0.1)	5(4.1)	0.0(10.0)	**24**	3.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
61.70	A	09/09/2003	1000	2314	5(3.3)	1(7.2)	2(3.6)	2(5.7)	5(5.0)	0(0.0)	0(0.0)	63(0.8)	30(5.0)	70(2.3)	0(0.0)	0.0(10.0)	**36**	4.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
58.40	A	08/02/2003	1000	2316	4(1.7)	1(7.2)	1(6.0)	2(5.7)	0(0.0)	0(0.0)	0(0.0)	68(0.6)	30(5.0)	70(2.3)	17(5.0)	0.2(1.7)	**29**	5.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
57.10	A	08/02/2003	1000	2346	3(0.9)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	45(1.7)	40(5.7)	60(3.2)	0(0.0)	0.0(10.0)	**25**	3.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
55.80	A	09/10/2003	1000	2349	4(2.5)	1(7.2)	2(3.6)	2(5.7)	80(9.6)	0(0.0)	0(0.0)	10(5.4)	5(3.1)	95(0.0)	4(4.0)	0.0(10.0)	**43**	4.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
52.80	A	09/11/2003	1000	2359	5(3.3)	1(7.2)	2(3.6)	2(5.7)	33(7.5)	0(0.0)	0(0.0)	52(1.3)	5(3.1)	95(0.0)	27(5.7)	0.0(10.0)	**40**	5.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
51.10	A	09/11/2003	1000	2370	6(5.0)	1(7.2)	2(3.6)	3(7.3)	41(8.0)	0(0.0)	0(0.0)	25(3.1)	19(4.2)	81(1.2)	26(5.6)	0.0(10.0)	**46**	6.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
46.60	A	09/11/2003	1000	2430	5(1.7)	0(0.0)	2(3.6)	2(5.7)	15(5.9)	0(0.0)	0(0.0)	56(1.1)	29(4.9)	71(2.1)	90(9.0)	0.0(10.0)	**37**	6.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
41.20	A	08/01/2003	1000	2505	4(3.3)	0(0.0)	3(1.7)	1(3.0)	6(5.1)	0(0.0)	0(0.0)	32(2.5)	40(5.7)	60(3.2)	48(6.9)	0.6(1.3)	**27**	6.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
38.90	A	08/01/2003	1000	2511	3(2.5)	0(0.0)	2(3.6)	1(3.0)	72(9.4)	0(0.0)	0(0.0)	14(4.5)	0(2.8)	100(0.0)	0(0.0)	0.2(1.8)	**23**	4.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
35.40	A	09/07/2003	1000	3006	3(2.5)	0(0.0)	3(1.7)	1(3.0)	1(4.6)	0(0.0)	0(0.0)	20(3.7)	1(2.8)	99(0.0)	15(4.8)	0.0(10.0)	**28**	3.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
31.40	A	08/02/2003	1000	3011	3(3.3)	0(0.0)	2(3.6)	1(3.0)	1(4.5)	0(0.0)	0(0.0)	6(6.6)	3(3.0)	97(0.0)	28(5.7)	0.2(1.8)	**26**	4.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
27.90	A	07/31/2003	1000	3019	4(3.3)	0(0.0)	4(0.5)	1(3.0)	43(8.1)	0(0.0)	0(0.0)	7(6.1)	5(3.1)	95(0.0)	56(7.4)	0.0(10.0)	**35**	6.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
26.90	A	07/26/2003	1000	3020	5(5.0)	0(0.0)	3(1.7)	1(3.0)	27(7.0)	0(0.0)	0(0.0)	20(3.7)	0(2.8)	99(0.0)	8(4.3)	0.0(10.0)	**31**	5.2
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**9.34**	
25.20	A	07/26/2003	1000	3030	5(2.5)	0(0.0)	2(3.6)	1(3.0)	5(4.9)	0(0.0)	0(0.0)	37(2.1)	23(4.4)	74(1.8)	71(8.1)	4.0(0.4)	**26**	7.0
					Log(Eel Rel No.):	0.9(3.0)	Log(Diad. Rel No.):		0.9(2.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.01**	
22.60	A	07/27/2003	1000	3064	3(0.0)	0(0.0)	1(6.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	63(0.8)	0(0.0)	97(0.0)	0(0.0)	0.0(10.0)	**14**	3.4
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
21.90	A	07/27/2003	1000	3404	5(2.5)	1(7.2)	3(1.7)	1(3.0)	2(4.6)	0(0.0)	0(0.0)	67(0.7)	17(4.0)	79(1.4)	47(6.9)	4.3(0.4)	**27**	5.3
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**9.34**	
20.40	A	07/27/2003	1000	3406	4(1.7)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	57(1.1)	19(4.2)	74(1.8)	47(6.9)	0.0(10.0)	**27**	6.4
					Log(Eel Rel No.):	1.1(3.8)	Log(Diad. Rel No.):		1.1(3.3)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.53**	
16.00	A	07/30/2003	1000	3412	8(7.5)	0(0.0)	2(3.6)	2(5.7)	80(9.6)	0(0.0)	0(0.0)	5(6.9)	5(3.1)	94(0.0)	18(5.0)	0.0(10.0)	**43**	6.0
					Log(Eel Rel No.):	0.9(3.0)	Log(Diad. Rel No.):		1.0(2.9)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**14.17**	
12.80	A	09/07/2003	1000	3428	8(5.0)	0(0.0)	2(3.6)	1(3.0)	18(6.2)	0(0.0)	0(0.0)	41(1.9)	20(4.2)	77(1.6)	69(8.1)	0.1(2.0)	**30**	7.7
					Log(Eel Rel No.):	1.4(4.6)	Log(Diad. Rel No.):		1.5(4.4)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.8(0.8)	Diad. IBI.:	**17.49**	
9.60	A	07/30/2003	1000	3501	4(3.3)	0(0.0)	3(1.7)	0(0.0)	2(4.7)	0(0.0)	0(0.0)	18(3.9)	0(0.0)	74(1.9)	0(0.0)	0.0(10.0)	**21**	7.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		2.2(7.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		2.2(1.0)	Diad. IBI.:	**13.93**	
8.00	A	07/31/2003	1000	3537	7(5.8)	0(0.0)	3(1.7)	2(5.7)	0(4.5)	0(0.0)	0(0.0)	30(2.7)	5(3.1)	50(4.2)	24(5.5)	0.0(10.0)	**36**	6.7
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		2.5(8.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		2.5(1.1)	Diad. IBI.:	**18.69**	
7.00	A	07/31/2003	1000	3542	6(5.0)	0(0.0)	4(0.5)	2(5.7)	68(9.3)	0(0.0)	0(0.0)	4(7.3)	3(3.0)	95(0.0)	12(4.6)	0.0(10.0)	**38**	6.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.3(3.9)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		1.3(0.9)	Diad. IBI.:	**10.22**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
4.30	A	07/25/2003	1000	3547	6(2.5)	0(0.0)	2(3.6)	1(3.0)	1(4.5)	0(0.0)	0(0.0)	14(4.4)	49(6.3)	32(5.9)	43(6.7)	0.2(1.9)	**32**	7.6
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):		2.1(6.9)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.1(1.0)	Diad. IBI.:	**19.69**	
1.50	A	07/25/2003	1000	3557	6(4.2)	0(0.0)	2(3.6)	2(5.7)	44(8.2)	0(0.0)	0(0.0)	15(4.3)	48(6.3)	52(4.0)	49(7.0)	0.7(1.2)	**37**	6.7
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
Year: 2008																		
10.80	A	09/18/2008	3920	3307	8(6.6)	0(0.0)	5(0.0)	2(5.7)	13(5.8)	0(0.0)	0(0.0)	9(5.5)	54(6.7)	38(5.3)	0(0.0)	0.0(10.0)	**38**	4.2
					Log(Eel Rel No.):	-0.6(0.0)	Log(Diad. Rel No.):		1.0(2.8)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.0(0.8)	Diad. IBI.:	**11.39**	
Year: 2009																		
171.00	A	08/14/2009	1000	1220	5(3.3)	2(8.4)	2(3.6)	3(7.3)	27(7.0)	2(9.5)	3(0.3)	7(6.2)	79(8.5)	19(7.1)	0(0.0)	1.8(0.8)	**52**	6.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**6.54**	
171.00	A	09/27/2009	1000	1220	6(5.0)	1(7.2)	2(3.6)	4(8.4)	51(8.6)	0(9.5)	0(0.1)	1(11.1)	93(9.5)	7(8.3)	0(0.0)	0.0(10.0)	**68**	6.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
170.90	A	08/31/2009	1000	1220	4(3.3)	0(0.0)	2(3.6)	2(5.7)	27(7.0)	0(0.0)	0(0.0)	25(3.1)	44(6.0)	56(3.6)	0(0.0)	0.0(10.0)	**35**	5.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
81.60	A	08/31/2009	1000	2056	3(2.5)	1(7.2)	2(3.6)	2(5.7)	0(0.0)	0(0.0)	0(0.0)	12(4.9)	8(3.4)	92(0.2)	27(5.7)	0.0(10.0)	**36**	3.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
10.80	A	09/03/2009	1000	3307	6(3.3)	0(0.0)	5(0.0)	1(3.0)	8(5.3)	0(0.0)	0(0.0)	6(6.7)	72(8.1)	26(6.5)	7(4.2)	0.0(10.0)	**39**	6.8
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.8(2.4)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.7(0.8)	Diad. IBI.:	**12.23**	
Magalloway - (60700)																		
Year: 2007																		
15.82	P	09/13/2007	1000	218	9(6.6)	4(9.6)	0(10.0)	6(10.0)	22(6.5)	21(10.0)	54(6.0)	0(10.0)	94(6.0)	6(8.4)	0(0.0)	0.0(10.0)	**78**	6.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
Rapid River - (60800)																		
Year: 2006																		
5.90	P	09/21/2006	1000	562	5(4.2)	2(8.4)	1(6.0)	2(5.7)	4(4.9)	0(0.0)	2(0.2)	51(1.3)	32(5.1)	66(2.6)	0(0.0)	0.0(10.0)	**40**	3.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**7.14**	
Year: 2007																		

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
7.25	P	09/11/2007	900	560	7(5.0)	3(9.1)	1(6.0)	4(8.4)	11(5.6)	3(9.5)	6(0.7)	42(1.8)	52(6.6)	48(4.4)	4(4.0)	0.0(10.0)	**59**	5.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
4.90	P	09/12/2007	1000	564	5(2.5)	2(8.4)	1(6.0)	3(7.3)	32(7.4)	3(9.5)	3(0.4)	22(3.4)	78(8.5)	22(6.9)	0(0.0)	0.0(10.0)	**59**	5.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
Abbot Brook - (60850)																		
Year: 2007																		
0.10	P	09/13/2007	250	16	7(3.3)	3(9.1)	0(10.0)	5(9.3)	36(7.6)	33(10.0)	41(4.5)	0(10.0)	87(6.6)	13(7.8)	0(0.0)	0.0(10.0)	**74**	5.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
C Pond - (60900)																		
Year: 2006																		
3.00	P	09/18/2006	1000	2	9(5.8)	2(8.4)	1(6.0)	3(7.3)	34(7.5)	1(9.5)	0(0.1)	8(5.8)	55(6.8)	45(4.6)	0(0.0)	0.0(10.0)	**60**	7.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
0.10	P	06/12/2006	1000	2	8(5.8)	1(7.2)	1(6.0)	2(5.7)	68(9.3)	1(9.5)	0(0.0)	3(8.2)	27(4.7)	73(2.0)	7(4.2)	0.0(10.0)	**61**	7.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
Androscoggin River (dst. Brunswick Dam) - (61001)																		
Year: 2002																		
4.90	A	09/25/2002	1000	3604	12(10.0)	0(0.0)	4(0.5)	2(5.7)	32(7.4)	0(0.0)	0(0.0)	2(9.2)	16(4.0)	72(2.1)	63(7.8)	0.9(1.1)	**40**	7.5
					Log(Eel Rel No.):	1.8(6.3)	Log(Diad. Rel No.):		2.1(6.8)	No. Diad. Sp.:	5(10.0)	Log(Clupeid Rel. No.:			1.7(1.0)	Diad. IBI.:	**24.09**	
Year: 2003																		
2.60	A	09/12/2003	1000	3582	8(5.8)	0(0.0)	3(1.7)	1(3.0)	27(7.0)	0(0.0)	0(0.0)	2(8.8)	19(4.1)	38(5.3)	137(10.0)	0.3(1.6)	**39**	7.3
					Log(Eel Rel No.):	2.8(11.1)	Log(Diad. Rel No.):		2.8(10.0)	No. Diad. Sp.:	4(12.3)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**33.32**	
0.20	A	07/25/2003	1000	3567	3(0.0)	0(0.0)	4(0.5)	1(3.0)	5(5.0)	0(0.0)	0(0.0)	34(2.3)	7(3.3)	63(2.9)	38(6.4)	1.7(0.8)	**20**	5.8
					Log(Eel Rel No.):	1.6(5.3)	Log(Diad. Rel No.):		1.6(4.7)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**15.44**	
Winooski River - (65001)																		
Year: 2008																		
49.70	A	09/02/2008	1000	673	6(3.3)	2(8.4)	5(0.0)	3(7.3)	58(8.9)	0(0.0)	4(0.4)	1(11.8)	88(9.2)	4(8.6)	49(7.0)	0.1(1.9)	**56**	7.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
49.70	A	10/02/2008	2200	673	10(5.8)	5(10.0)	3(1.7)	6(10.0)	30(7.2)	0(9.5)	21(2.3)	0(14.0)	96(9.8)	2(8.8)	0(0.0)	0.0(10.0)	**74**	4.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
48.00	A	09/04/2008	1000	682	7(3.3)	3(9.1)	4(0.5)	3(7.3)	46(8.3)	2(9.5)	4(0.4)	0(14.8)	88(9.2)	4(8.6)	38(6.4)	0.0(10.0)	**73**	7.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.2(3.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.93**	
31.00	A	09/01/2008	1000	968	8(5.0)	3(9.1)	4(0.5)	4(8.4)	6(5.1)	2(9.5)	8(0.9)	34(2.3)	52(6.6)	46(4.6)	113(9.7)	0.5(1.3)	**53**	6.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.22**	
31.00	A	10/01/2008	3600	968	5(2.5)	2(8.4)	5(0.0)	2(5.7)	14(5.9)	0(0.0)	7(0.7)	8(5.7)	74(8.2)	19(7.1)	0(0.0)	0.0(10.0)	**45**	4.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
15.30	F	09/23/2008	1420	1000	6(4.2)	1(7.2)	6(0.0)	2(5.7)	31(7.3)	0(0.0)	10(1.1)	29(2.8)	37(5.5)	45(4.7)	0(0.0)	0.0(10.0)	**40**	3.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
15.30	A	10/08/2008	1420	1000	6(4.2)	0(0.0)	5(0.0)	2(5.7)	32(7.4)	0(0.0)	5(0.6)	6(6.6)	62(7.3)	13(7.8)	0(0.0)	0.0(10.0)	**41**	4.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
12.40	A	09/03/2008	1000	1052	3(2.5)	0(0.0)	5(0.0)	1(3.0)	23(6.7)	0(0.0)	0(0.0)	4(7.4)	29(4.9)	59(3.4)	6(4.2)	0.3(1.6)	**28**	6.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
Year: 2009																		
28.10	A	08/15/2009	1000	1000	5(2.5)	3(9.1)	4(0.5)	2(5.7)	4(4.9)	5(9.5)	6(0.7)	25(3.1)	57(6.9)	36(5.5)	91(9.0)	1.3(0.9)	**49**	5.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.22**	
23.00	A	08/15/2009	1000	1000	4(0.9)	0(0.0)	4(0.5)	2(5.7)	3(4.8)	0(0.0)	5(0.5)	25(3.1)	60(7.2)	40(5.2)	51(7.1)	0.6(1.3)	**30**	5.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
21.40	A	08/15/2009	1000	1000	4(2.5)	0(0.0)	4(0.5)	2(5.7)	4(4.9)	0(0.0)	19(2.1)	2(9.7)	89(9.3)	6(8.4)	39(6.4)	0.0(10.0)	**50**	6.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
21.40	A	09/15/2009	1000	1000	5(2.5)	0(0.0)	3(1.7)	2(5.7)	1(4.5)	0(0.0)	26(2.8)	6(6.5)	92(9.5)	8(8.2)	57(7.5)	0.0(10.0)	**49**	5.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
15.30	A	08/21/2009	1000	1000	2(0.0)	0(0.0)	2(3.6)	1(3.0)	4(4.8)	0(0.0)	11(1.2)	13(4.6)	86(9.0)	14(7.7)	60(7.6)	1.1(1.0)	**35**	5.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
4.10	A	08/16/2009	1000	1000	1(0.0)	0(0.0)	6(0.0)	0(0.0)	36(7.6)	0(0.0)	0(0.0)	4(7.5)	0(0.0)	67(2.6)	0(0.0)	0.0(10.0)	**23**	4.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
Missisquoi River - (66001)																		
Year: 2008																		
40.10	A	09/05/2008	1000	481	6(2.5)	1(7.2)	6(0.0)	3(7.3)	63(9.1)	0(0.0)	1(0.1)	2(9.5)	77(8.4)	15(7.6)	70(8.1)	0.4(1.5)	**51**	7.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
Year: 2009																		
40.10	A	09/17/2009	820	481	5(2.5)	0(0.0)	3(1.7)	3(7.3)	37(7.7)	0(0.0)	11(1.2)	0(15.2)	82(8.8)	10(8.0)	0(0.0)	0.0(10.0)	**52**	4.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
Penobscot River - (70001)																		
Year: 2004																		
66.10	A	07/21/2004	1000	2128	6(5.0)	0(0.0)	1(6.0)	1(3.0)	14(5.8)	0(0.0)	0(0.0)	36(2.2)	10(3.5)	75(1.8)	0(0.0)	0.0(10.0)	**31**	5.2
					Log(Eel Rel No.):	1.5(5.2)	Log(Diad. Rel No.):		1.5(4.6)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**15.16**	
64.50	A	07/24/2004	1000	2132	7(5.8)	2(8.4)	1(6.0)	3(7.3)	2(4.6)	0(0.0)	0(0.0)	26(3.0)	57(6.9)	39(5.3)	48(6.9)	0.0(10.0)	**54**	6.8
					Log(Eel Rel No.):	1.1(3.6)	Log(Diad. Rel No.):		1.1(3.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**12.09**	
59.70	A	07/26/2004	1000	3317	6(5.0)	0(0.0)	1(6.0)	2(5.7)	51(8.6)	0(0.0)	0(0.0)	13(4.8)	32(5.1)	67(2.5)	0(0.0)	0.3(1.6)	**33**	5.6
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**8.70**	
56.30	A	07/26/2004	1000	3402	8(5.8)	3(9.1)	1(6.0)	4(8.4)	10(5.5)	0(0.0)	1(0.1)	27(2.9)	69(7.8)	29(6.2)	77(8.4)	1.6(0.8)	**51**	6.8
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**9.85**	
52.00	A	07/26/2004	1000	4753	7(4.2)	0(0.0)	1(6.0)	2(5.7)	1(4.6)	0(0.0)	0(0.0)	54(1.2)	38(5.5)	57(3.5)	0(0.0)	0.5(1.4)	**27**	4.0
					Log(Eel Rel No.):	1.0(3.3)	Log(Diad. Rel No.):		1.0(2.9)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**11.61**	
52.00	A	09/08/2004	1000	4753	7(5.0)	1(7.2)	1(6.0)	3(7.3)	22(6.6)	0(0.0)	0(0.0)	53(1.2)	42(5.9)	57(3.5)	0(0.0)	0.0(10.0)	**44**	4.8
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**9.34**	
45.80	A	07/27/2004	1000	4957	6(2.5)	1(7.2)	1(6.0)	3(7.3)	0(4.5)	0(0.0)	0(0.0)	36(2.2)	62(7.3)	37(5.4)	44(6.7)	0.3(1.6)	**42**	5.4
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**9.85**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
39.80	A	07/27/2004	1000	5000	7(4.2)	1(7.2)	2(3.6)	3(7.3)	11(5.6)	0(0.0)	0(0.0)	35(2.2)	45(6.1)	47(4.5)	14(4.7)	0.0(10.0)	**46**	5.9
					Log(Eel Rel No.):	1.3(4.2)	Log(Diad. Rel No.):		1.3(3.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.26**	
38.80	A	07/27/2004	1000	5104	9(7.5)	2(8.4)	1(6.0)	4(8.4)	53(8.6)	0(0.0)	0(0.0)	8(5.8)	75(8.2)	22(6.9)	0(0.0)	0.0(10.0)	**58**	7.0
					Log(Eel Rel No.):	1.4(4.8)	Log(Diad. Rel No.):		1.4(4.2)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**14.50**	
34.00	A	07/28/2004	1000	5198	5(2.5)	0(0.0)	1(6.0)	2(5.7)	7(5.2)	0(0.0)	0(0.0)	11(5.0)	83(8.9)	15(7.6)	14(4.8)	0.2(1.8)	**40**	5.2
					Log(Eel Rel No.):	1.0(3.4)	Log(Diad. Rel No.):		1.0(3.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.86**	
29.00	A	07/28/2004	1000	5209	7(5.0)	0(0.0)	2(3.6)	3(7.3)	58(8.9)	0(0.0)	0(0.0)	10(5.3)	69(7.8)	29(6.2)	0(0.0)	0.4(1.4)	**38**	5.7
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):		0.8(2.2)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**10.29**	
26.00	A	07/29/2004	1000	5215	9(5.8)	2(8.4)	1(6.0)	4(8.4)	13(5.8)	0(0.0)	1(0.1)	12(4.9)	81(8.7)	17(7.4)	26(5.6)	0.0(10.0)	**59**	5.6
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**9.34**	
26.00	A	09/07/2004	1000	5215	7(6.6)	1(7.2)	1(6.0)	3(7.3)	44(8.2)	0(0.0)	0(0.0)	25(3.1)	45(6.1)	53(3.9)	15(4.8)	0.0(10.0)	**53**	5.6
					Log(Eel Rel No.):	1.0(3.4)	Log(Diad. Rel No.):		1.0(3.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.86**	
17.40	A	07/29/2004	1000	7161	7(5.0)	0(0.0)	1(6.0)	2(5.7)	18(6.3)	0(0.0)	0(0.0)	39(2.0)	52(6.5)	43(4.8)	41(6.5)	0.0(10.0)	**44**	5.5
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.85**	
11.70	A	07/30/2004	1000	7299	8(6.6)	0(0.0)	1(6.0)	2(5.7)	74(9.5)	0(0.0)	0(0.0)	1(10.7)	95(9.7)	4(8.6)	0(0.0)	0.1(2.2)	**49**	7.0
					Log(Eel Rel No.):	0.9(3.0)	Log(Diad. Rel No.):		1.1(3.2)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.91**	
3.30	A	07/30/2004	1000	7343	7(4.2)	0(0.0)	1(6.0)	2(5.7)	20(6.4)	0(0.0)	0(0.0)	31(2.5)	38(5.6)	59(3.3)	0(0.0)	0.0(10.0)	**36**	4.8
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**9.34**	
1.60	A	07/30/2004	1000	7345	7(3.3)	1(7.2)	1(6.0)	2(5.7)	16(6.0)	1(9.5)	0(0.0)	42(1.8)	37(5.5)	44(4.8)	0(0.0)	0.0(10.0)	**50**	5.2
					Log(Eel Rel No.):	1.5(4.9)	Log(Diad. Rel No.):		1.5(4.4)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**17.06**	
0.40	A	07/30/2004	1000	7351	7(3.3)	0(0.0)	1(6.0)	2(5.7)	18(6.2)	0(0.0)	0(0.0)	44(1.7)	44(6.0)	53(3.9)	0(0.0)	0.0(10.0)	**36**	4.3
					Log(Eel Rel No.):	0.8(2.8)	Log(Diad. Rel No.):		0.8(2.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**10.67**	
Year: 2005																		
39.80	P	09/22/2005	1000	5000	7(4.2)	1(7.2)	2(3.6)	3(7.3)	4(4.9)	0(0.0)	0(0.0)	51(1.4)	31(5.1)	65(2.7)	0(0.0)	0.0(10.0)	**39**	5.3
					Log(Eel Rel No.):	1.1(3.6)	Log(Diad. Rel No.):		1.1(3.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.09**	
Year: 2009																		

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
29.30	A	08/29/2009	1000	5220	5(3.3)	0(0.0)	2(3.6)	1(3.0)	1(4.5)	0(0.0)	0(0.0)	2(9.0)	88(9.2)	12(7.8)	0(0.0)	0.0(10.0)	**42**	5.1
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
29.30	A	09/26/2009	1000	5220	8(5.8)	1(7.2)	2(3.6)	3(7.3)	1(4.6)	0(0.0)	0(0.0)	4(7.3)	84(8.9)	13(7.8)	0(0.0)	0.2(1.7)	**45**	4.9
					Log(Eel Rel No.):	1.1(3.7)	Log(Diad. Rel No.):		1.1(3.3)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**14.69**	
8.80	A	08/29/2009	1000	2	6(5.0)	0(0.0)	1(6.0)	2(5.7)	44(8.1)	0(0.0)	0(0.0)	2(9.2)	63(7.4)	35(5.6)	0(0.0)	0.0(10.0)	**48**	6.5
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.70**	
Stillwater Branch - (70100)																		
Year: 2004																		
8.70	A	07/19/2004	1000	277	7(5.8)	0(0.0)	1(6.0)	2(5.7)	39(7.8)	0(0.0)	0(0.0)	3(8.0)	49(6.3)	51(4.1)	7(4.2)	0.6(1.3)	**41**	7.7
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
5.60	A	09/07/2004	1000	280	8(6.6)	1(7.2)	1(6.0)	3(7.3)	40(7.9)	0(0.0)	0(0.0)	16(4.2)	50(6.4)	49(4.3)	0(0.0)	0.0(10.0)	**50**	6.1
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**9.34**	
0.40	A	09/09/2004	1000	283	6(4.2)	0(0.0)	1(6.0)	1(3.0)	29(7.1)	0(0.0)	0(0.0)	12(4.9)	2(2.9)	94(0.0)	0(0.0)	0.0(10.0)	**32**	5.6
					Log(Eel Rel No.):	1.0(3.4)	Log(Diad. Rel No.):		1.0(3.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.86**	
Pushaw Stream - (70110)																		
Year: 2004																		
3.50	A	07/30/2004	1000	222	8(7.5)	1(7.2)	1(6.0)	3(7.3)	81(9.6)	0(0.0)	0(0.0)	0(13.0)	2(2.9)	97(0.0)	14(4.8)	0.7(1.2)	**50**	5.8
					Log(Eel Rel No.):	0.9(3.0)	Log(Diad. Rel No.):		0.9(2.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.01**	
Passadumkeag Stream - (70150)																		
Year: 2004																		
7.00	A	07/28/2004	1000	348	8(6.6)	1(7.2)	1(6.0)	3(7.3)	21(6.5)	0(0.0)	0(0.0)	2(9.9)	74(8.2)	24(6.7)	129(10.0)	5.6(0.2)	**57**	6.9
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**9.85**	
Year: 2009																		
7.00	P	06/15/2009	1000	348	8(6.6)	1(7.2)	1(6.0)	2(5.7)	53(8.7)	1(9.5)	0(0.0)	3(8.3)	59(7.1)	39(5.3)	7(4.2)	0.0(10.0)	**66**	6.8
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.27**	
7.00	P	09/25/2009	1000	348	8(6.6)	1(7.2)	1(6.0)	3(7.3)	28(7.1)	0(0.0)	0(0.0)	4(7.3)	39(5.6)	59(3.3)	9(4.4)	0.0(10.0)	**54**	7.0
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**10.54**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
Piscataquis River - (70200)																		
Year: 2004																		
24.50	A	07/19/2004	1000	797	11(10.0)	1(7.2)	1(6.0)	3(7.3)	54(8.7)	0(9.5)	0(0.0)	3(8.7)	88(9.2)	11(7.9)	21(5.2)	0.5(1.4)	**68**	7.6
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):		0.8(2.4)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.74**	
Year: 2007																		
14.90	P	08/16/2007	1000	1183	8(4.2)	1(7.2)	1(6.0)	3(7.3)	32(7.3)	0(0.0)	0(0.0)	29(2.7)	60(7.2)	33(5.8)	4(4.0)	0.0(10.0)	**51**	6.5
					Log(Eel Rel No.):	1.2(3.9)	Log(Diad. Rel No.):		1.2(3.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.17**	
Pleasant River - (70250)																		
Year: 2008																		
4.40	A	09/18/2008	1000	332	8(5.8)	1(7.2)	2(3.6)	3(7.3)	22(6.6)	0(0.0)	0(0.0)	9(5.6)	47(6.2)	18(7.3)	32(6.0)	0.0(10.0)	**55**	6.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.8(5.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.24**	
4.40	A	09/05/2008	560	332	9(5.0)	2(8.4)	1(6.0)	5(9.3)	2(4.7)	0(0.0)	0(0.0)	1(10.2)	94(9.6)	2(8.8)	0(0.0)	0.0(10.0)	**60**	3.9
					Log(Eel Rel No.):	0.6(2.0)	Log(Diad. Rel No.):		1.6(5.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**14.68**	
Mattawamkeag River - (70300)																		
Year: 2007																		
48.80	P	08/07/2007	1000	542	7(5.0)	1(7.2)	1(6.0)	3(7.3)	23(6.6)	0(0.0)	0(0.0)	30(2.7)	39(5.6)	46(4.5)	15(4.8)	0.0(10.0)	**50**	5.9
					Log(Eel Rel No.):	1.3(4.3)	Log(Diad. Rel No.):		1.3(3.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.58**	
36.42	P	08/10/2007	1000	669	8(6.6)	1(7.2)	1(6.0)	4(8.4)	35(7.6)	0(0.0)	0(0.0)	23(3.3)	66(7.6)	31(6.0)	29(5.8)	0.0(10.0)	**57**	6.5
					Log(Eel Rel No.):	1.0(3.2)	Log(Diad. Rel No.):		1.0(2.7)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.32**	
11.80	P	08/11/2007	1000	1143	6(3.3)	1(7.2)	1(6.0)	3(7.3)	10(5.5)	0(0.0)	0(0.0)	38(2.1)	46(6.2)	46(4.6)	58(7.5)	0.0(10.0)	**50**	6.5
					Log(Eel Rel No.):	1.2(4.1)	Log(Diad. Rel No.):		1.2(3.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.09**	
Year: 2009																		
1.00	P	06/15/2009	1000	1847	5(2.5)	1(7.2)	1(6.0)	2(5.7)	0(0.0)	0(0.0)	0(0.0)	45(1.7)	50(6.4)	48(4.4)	41(6.6)	0.0(10.0)	**42**	4.9
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
1.00	P	09/25/2009	1000	1847	6(2.5)	1(7.2)	1(6.0)	2(5.7)	0(0.0)	0(0.0)	0(0.0)	71(0.5)	23(4.4)	73(1.9)	0(0.0)	0.0(10.0)	**32**	3.5
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.70**	
West Branch Mattawamkeag River - (70350)																		

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
Year: 2007																		
5.75	P	08/07/2007	1000	337	7(6.6)	0(0.0)	1(6.0)	2(5.7)	12(5.7)	0(0.0)	0(0.0)	15(4.3)	22(4.4)	67(2.6)	6(4.1)	1.0(1.0)	**34**	6.3
					Log(Eel Rel No.):	1.0(3.4)	Log(Diad. Rel No.):		1.0(3.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.86**	
- (70400)																		
Year: 2008																		
22.00	A	09/18/2008	1000	103	8(5.8)	0(0.0)	3(1.7)	2(5.7)	47(8.3)	0(0.0)	0(0.0)	4(7.4)	74(8.2)	23(6.7)	40(6.5)	0.0(10.0)	**50**	8.2
					Log(Eel Rel No.):	1.5(5.3)	Log(Diad. Rel No.):		1.5(4.7)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.35**	
22.00	A	08/22/2008	400	1000	9(6.6)	1(7.2)	2(3.6)	3(7.3)	29(7.1)	0(0.0)	0(0.0)	3(8.4)	77(8.4)	19(7.1)	0(0.0)	0.0(10.0)	**55**	5.1
					Log(Eel Rel No.):	1.8(6.2)	Log(Diad. Rel No.):		1.8(5.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**17.18**	
22.00	A	09/08/2008	430	1000	10(6.6)	0(0.0)	2(3.6)	3(7.3)	23(6.6)	0(0.0)	0(0.0)	10(5.2)	51(6.5)	46(4.5)	0(0.0)	0.0(10.0)	**42**	5.3
					Log(Eel Rel No.):	1.5(5.2)	Log(Diad. Rel No.):		1.5(4.7)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.34**	
Year: 2009																		
22.00	A	09/23/2009	1000	95	12(8.3)	1(7.2)	2(3.6)	3(7.3)	28(7.0)	0(9.5)	0(0.0)	14(4.5)	56(6.8)	38(5.4)	4(4.0)	0.1(1.9)	**55**	8.1
					Log(Eel Rel No.):	1.7(5.7)	Log(Diad. Rel No.):		1.7(5.1)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**18.57**	
W. Br. Penobscot R. - (70600)																		
Year: 2004																		
89.30	A	07/22/2004	1000	591	6(4.2)	1(7.2)	0(10.0)	3(7.3)	29(7.1)	0(0.0)	0(0.0)	0(10.0)	44(5.3)	52(4.0)	0(0.0)	0.0(10.0)	**54**	4.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
43.80	A	07/21/2004	1000	1430	6(5.0)	3(9.1)	0(10.0)	4(8.4)	17(6.2)	0(0.0)	47(5.1)	0(10.0)	93(5.3)	5(8.5)	71(8.2)	0.0(10.0)	**72**	5.8
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
37.60	A	07/21/2004	1000	1532	7(4.2)	4(9.6)	0(10.0)	5(9.3)	41(8.0)	2(9.5)	67(7.4)	0(10.0)	98(5.3)	0(10.0)	0(0.0)	0.0(10.0)	**78**	4.7
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
29.70	A	07/23/2004	1000	1597	12(10.0)	3(9.1)	0(10.0)	5(9.3)	51(8.6)	0(0.0)	4(0.4)	0(10.0)	82(5.3)	17(7.3)	0(0.0)	1.8(0.8)	**59**	6.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
11.70	A	07/20/2004	1000	1902	10(10.0)	3(9.1)	0(10.0)	5(9.3)	19(6.3)	0(0.0)	14(1.5)	0(10.0)	49(5.3)	51(4.1)	55(7.4)	0.0(10.0)	**69**	7.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
5.60	A	07/20/2004	1000	1921	6(5.8)	0(0.0)	1(6.0)	2(5.7)	29(7.2)	0(0.0)	0(0.0)	20(3.7)	35(5.3)	62(3.0)	0(0.0)	0.7(1.2)	**32**	5.8
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):	0.6(1.8)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**9.34**				
3.70	A	07/22/2004	1000	2065	6(5.0)	0(0.0)	1(6.0)	2(5.7)	5(5.0)	0(0.0)	0(0.0)	40(2.0)	49(6.3)	50(4.2)	31(5.9)	0.0(10.0)	**42**	5.9
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):	0.3(1.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**7.89**				
Year: 2009																		
47.20	A	07/22/2009	1000	1459	9(5.8)	4(9.6)	0(10.0)	4(8.4)	27(7.0)	31(10.0)	9(1.0)	0(10.0)	48(6.8)	27(6.4)	25(5.5)	0.0(10.0)	**75**	6.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	1.2(3.5)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**11.20**				
Millinocket Stream - (70650)																		
Year: 2004																		
3.30	A	07/24/2004	1000	515	6(5.0)	0(0.0)	1(6.0)	3(7.3)	44(8.2)	0(0.0)	0(0.0)	13(4.6)	79(8.5)	20(7.1)	0(0.0)	0.0(10.0)	**47**	6.2
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):	0.7(2.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**9.85**				
1.90	A	07/20/2004	1000	527	4(3.3)	0(0.0)	1(6.0)	2(5.7)	17(6.1)	0(0.0)	0(0.0)	18(3.9)	78(8.5)	21(7.0)	8(4.3)	0.0(10.0)	**46**	5.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**5.45**				
N. Br. Penobscot R. - (70660)																		
Year: 2004																		
11.80	A	07/22/2004	1000	177	11(8.3)	5(10.0)	0(10.0)	7(10.0)	59(8.9)	1(9.5)	55(6.0)	0(10.0)	91(8.5)	9(8.1)	60(7.6)	0.0(10.0)	**89**	7.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
E. Branch Penobscot River - (70700)																		
Year: 2004																		
6.30	A	07/23/2004	1000	1089	4(1.7)	1(7.2)	1(6.0)	2(5.7)	2(4.7)	0(0.0)	0(0.0)	21(3.5)	67(7.7)	21(6.9)	26(5.6)	0.0(10.0)	**49**	4.7
					Log(Eel Rel No.):	1.0(3.3)	Log(Diad. Rel No.):	1.0(2.9)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**11.61**				
1.50	A	07/24/2004	1000	1102	5(3.3)	2(8.4)	1(6.0)	3(7.3)	2(4.7)	0(0.0)	0(0.0)	23(3.3)	71(7.9)	24(6.7)	0(0.0)	0.0(10.0)	**48**	4.1
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):	0.8(2.2)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**10.29**				
Year: 2007																		
46.52	P	08/09/2007	1000	495	11(9.1)	1(7.2)	0(10.0)	4(8.4)	43(8.1)	0(0.0)	8(0.8)	0(10.0)	71(8.2)	28(6.3)	95(9.1)	2.2(0.7)	**65**	6.9
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):	0.3(1.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**7.89**				

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
41.57	P	08/08/2007	1000	504	8(6.6)	2(8.4)	0(10.0)	3(7.3)	46(8.3)	1(9.5)	21(2.3)	0(10.0)	80(8.2)	20(7.1)	29(5.8)	0.0(10.0)	**78**	6.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
37.11	P	08/08/2007	1000	556	7(4.2)	2(8.4)	1(6.0)	3(7.3)	2(4.7)	0(0.0)	0(0.0)	19(3.8)	74(8.2)	21(7.0)	20(5.2)	5.0(0.3)	**46**	6.4
					Log(Eel Rel No.):	0.9(3.0)	Log(Diad. Rel No.):		0.9(2.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.01**	
23.50	P	08/10/2007	1000	984	9(6.6)	4(9.6)	1(6.0)	6(10.0)	7(5.1)	0(0.0)	2(0.2)	21(3.5)	72(8.0)	22(6.9)	60(7.6)	1.3(0.9)	**54**	7.1
					Log(Eel Rel No.):	1.2(4.1)	Log(Diad. Rel No.):		1.2(3.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.09**	
Year: 2008																		
22.60	A	09/19/2008	1000	995	9(7.5)	4(9.6)	1(6.0)	4(8.4)	21(6.5)	1(9.5)	0(0.0)	8(5.8)	81(8.7)	18(7.2)	0(0.0)	0.3(1.5)	**59**	6.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.81**	
22.60	A	08/21/2008	4000	995	11(8.3)	4(9.6)	2(3.6)	5(9.3)	7(5.2)	1(9.5)	1(0.1)	8(5.9)	79(8.6)	19(7.2)	0(0.0)	0.0(10.0)	**64**	3.4
					Log(Eel Rel No.):	-0.1(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.72**	
Year: 2009																		
6.30	P	06/16/2009	1000	1089	7(3.3)	3(9.1)	1(6.0)	3(7.3)	0(0.0)	3(9.5)	6(0.6)	23(3.3)	60(7.2)	26(6.5)	0(0.0)	0.0(10.0)	**52**	4.8
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.85**	
6.30	P	09/23/2009	1000	1089	6(2.5)	3(9.1)	1(6.0)	3(7.3)	0(0.0)	3(9.5)	3(0.3)	38(2.0)	53(6.6)	38(5.3)	14(4.8)	0.0(10.0)	**53**	5.0
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**10.54**	
1.50	P	06/16/2009	1000	1102	8(4.2)	3(9.1)	1(6.0)	4(8.4)	4(4.9)	4(9.5)	6(0.7)	35(2.3)	49(6.4)	37(5.5)	0(0.0)	0.0(10.0)	**56**	5.9
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		0.8(2.4)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.51**	
1.50	P	09/23/2009	1000	1102	6(3.3)	3(9.1)	1(6.0)	3(7.3)	0(0.0)	2(9.5)	3(0.4)	46(1.6)	44(6.0)	47(4.4)	0(0.0)	0.0(10.0)	**48**	5.0
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.85**	
Penobscot R. (dst. Great Works Dam) - (71001)																		
Year: 2004																		
16.30	A	09/10/2004	1000	8037	2(0.0)	0(0.0)	2(3.6)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	3(8.4)	0(0.0)	4(8.6)	0(0.0)	0.0(10.0)	**26**	2.4
					Log(Eel Rel No.):	2.8(11.0)	Log(Diad. Rel No.):		2.8(10.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**26.48**	
10.80	A	09/10/2004	1000	8017	6(2.5)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	6(6.6)	0(2.8)	13(7.8)	0(0.0)	0.2(1.8)	**25**	3.9
					Log(Eel Rel No.):	2.6(10.2)	Log(Diad. Rel No.):		2.6(9.5)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.1(0.9)	Diad. IBI.:	**28.26**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	Modified IBI	Modified Iwb
7.80	A	09/10/2004	1000	7986	9(7.5)	1(7.2)	2(3.6)	2(5.7)	27(7.0)	8(9.5)	0(0.0)	14(4.5)	56(6.9)	24(6.7)	59(7.6)	0.0(10.0)	**64**	7.8
					Log(Eel Rel No.):	1.6(5.4)	Log(Diad. Rel No.):		1.8(5.7)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**21.12**	
6.40	A	09/09/2004	1000	7980	5(2.5)	0(0.0)	1(6.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	57(1.1)	6(3.2)	90(0.4)	0(0.0)	0.0(10.0)	**19**	3.9
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**8.70**	
0.60	A	09/08/2004	1000	7353	7(3.3)	1(7.2)	1(6.0)	2(5.7)	3(4.7)	1(9.5)	0(0.0)	73(0.5)	10(3.5)	83(1.0)	10(4.4)	0.0(10.0)	**47**	4.5
					Log(Eel Rel No.):	1.1(3.6)	Log(Diad. Rel No.):		1.1(3.3)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**16.84**	
Year: 2009																		
0.60	P	09/26/2009	1000	7353	4(0.9)	1(7.2)	1(6.0)	0(0.0)	0(0.0)	3(9.5)	0(0.0)	48(1.5)	18(4.1)	56(3.6)	0(0.0)	0.0(10.0)	**36**	3.9
					Log(Eel Rel No.):	1.2(4.1)	Log(Diad. Rel No.):		1.3(3.7)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**15.52**	
Connecticut River - (80001)																		
Year: 2008																		
323.60	A	08/28/2008	1000	180	12(8.3)	7(10.0)	2(3.6)	7(10.0)	8(5.3)	28(10.0)	36(4.0)	0(10.0)	84(9.5)	6(8.4)	0(0.0)	0.7(1.2)	**67**	7.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.2(3.4)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**8.84**	
322.00	A	08/28/2008	1000	259	9(5.0)	4(9.6)	0(10.0)	5(9.3)	14(5.9)	14(9.4)	64(7.1)	0(10.0)	94(9.5)	5(8.5)	0(0.0)	0.0(10.0)	**79**	5.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**5.45**	
313.70	A	08/29/2008	1000	377	11(7.5)	6(10.0)	2(3.6)	7(10.0)	12(5.7)	36(10.0)	29(3.1)	0(10.0)	94(9.5)	5(8.5)	77(8.4)	0.8(1.2)	**73**	6.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**6.54**	
307.10	A	08/29/2008	1000	487	9(6.6)	3(9.1)	1(6.0)	5(9.3)	8(5.2)	4(9.5)	4(0.4)	1(11.3)	92(9.5)	7(8.3)	113(9.7)	0.9(1.1)	**72**	5.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**6.92**	
291.00	A	08/30/2008	1000	651	6(3.3)	5(10.0)	2(3.6)	3(7.3)	13(5.8)	3(9.5)	80(8.8)	0(10.0)	99(5.8)	1(8.9)	39(6.4)	0.0(10.0)	**75**	5.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**5.45**	
267.80	A	10/08/2008	1000	1194	6(3.3)	2(8.4)	1(6.0)	3(7.3)	23(6.7)	0(0.0)	6(0.6)	0(10.0)	93(5.8)	7(8.3)	0(0.0)	0.0(10.0)	**55**	5.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	
257.90	A	08/30/2008	1000	1330	4(2.5)	1(7.2)	1(6.0)	2(5.7)	0(0.0)	0(0.0)	4(0.4)	4(7.6)	41(5.8)	59(3.4)	123(9.9)	0.0(10.0)	**49**	5.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**0.00**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
247.00	A	09/06/2008	1000	1513	7(5.0)	5(10.0)	4(0.5)	4(8.4)	2(4.7)	1(9.5)	2(0.3)	8(5.8)	44(6.0)	55(3.7)	84(8.7)	1.8(0.8)	**53**	6.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**6.54**	
243.80	A	09/06/2008	1000	1557	3(1.7)	0(0.0)	5(0.0)	1(3.0)	4(4.9)	0(0.0)	0(0.0)	10(5.4)	4(3.1)	96(0.0)	24(5.5)	0.0(10.0)	**28**	5.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
235.90	A	09/07/2008	1000	1614	6(5.0)	3(9.1)	4(0.5)	3(7.3)	2(4.7)	0(9.5)	0(0.0)	2(9.1)	7(3.3)	93(0.1)	75(8.3)	0.2(1.8)	**49**	4.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**6.54**	
228.50	A	10/07/2008	1000	1635	6(4.2)	3(9.1)	4(0.5)	3(7.3)	0(4.5)	0(0.0)	3(0.3)	1(10.0)	8(3.3)	92(0.1)	31(5.9)	0.0(10.0)	**46**	4.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
227.10	A	10/07/2008	1000	2145	4(0.9)	4(9.6)	4(0.5)	3(7.3)	5(5.0)	12(9.4)	14(1.5)	5(7.2)	81(8.7)	7(8.3)	127(10.0)	2.3(0.6)	**58**	5.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.46**	
221.70	A	10/07/2008	1000	2205	5(2.5)	1(7.2)	3(1.7)	2(5.7)	2(4.7)	2(9.5)	0(0.0)	7(6.2)	78(8.4)	20(7.1)	99(9.3)	0.0(10.0)	**60**	5.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**6.54**	
217.60	A	10/06/2008	1000	2224	5(2.5)	0(0.0)	4(0.5)	3(7.3)	5(5.0)	0(0.0)	3(0.3)	8(5.8)	11(3.6)	89(0.4)	35(6.2)	0.0(10.0)	**35**	4.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
213.10	A	10/06/2008	1000	2749	4(1.7)	0(0.0)	2(3.6)	2(5.7)	5(5.0)	0(0.0)	11(1.2)	35(2.3)	51(6.5)	49(4.3)	72(8.2)	0.0(10.0)	**40**	3.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
200.70	A	10/05/2008	1000	2824	4(1.7)	0(0.0)	2(3.6)	1(3.0)	33(7.4)	0(0.0)	7(0.7)	0(10.0)	52(6.4)	48(4.4)	0(0.0)	0.0(10.0)	**39**	5.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
194.40	A	10/06/2008	1000	3018	2(0.0)	0(0.0)	3(1.7)	0(0.0)	8(5.2)	0(0.0)	10(1.1)	8(6.0)	50(6.4)	50(4.2)	0(0.0)	0.0(10.0)	**29**	4.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
179.20	A	10/04/2008	1000	3137	0(0.0)	0(0.0)	3(1.7)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	18(3.9)	0(0.0)	100(0.0)	0(0.0)	0.0(10.0)	**13**	1.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
170.90	A	10/04/2008	1000	3317	2(0.9)	0(0.0)	3(1.7)	0(0.0)	12(5.6)	0(0.0)	0(0.0)	16(4.1)	0(0.0)	100(0.0)	0(0.0)	0.0(10.0)	**19**	3.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
166.30	A	10/11/2008	1000	3368	2(0.9)	0(0.0)	4(0.5)	0(0.0)	2(4.7)	0(0.0)	0(0.0)	16(4.2)	0(0.0)	100(0.0)	0(0.0)	0.0(10.0)	**17**	2.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
165.60	A	8 /27/2008	1000	3368	2(0.0)	0(0.0)	4(0.5)	2(5.7)	12(5.7)	0(0.0)	0(0.0)	22(3.4)	17(4.0)	83(1.0)	0(0.0)	0.0(10.0)	**25**	4.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
163.90	A	8 /27/2008	1000	3368	2(0.9)	0(0.0)	3(1.7)	1(3.0)	23(6.7)	0(0.0)	4(0.4)	46(1.6)	27(4.7)	73(2.0)	0(0.0)	0.0(10.0)	**26**	3.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
161.50	A	8 /28/2008	1000	4286	6(3.3)	0(0.0)	3(1.7)	2(5.7)	7(5.1)	0(0.0)	1(0.1)	28(2.8)	51(6.5)	48(4.4)	23(5.4)	0.0(10.0)	**38**	4.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.5(1.5)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**6.92**				
155.60	A	8 /28/2008	1000	4558	5(1.7)	0(0.0)	4(0.5)	2(5.7)	3(4.8)	0(0.0)	5(0.6)	10(5.3)	85(9.0)	15(7.6)	21(5.3)	0.0(10.0)	**42**	4.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
153.80	A	8 /29/2008	1000	4558	3(0.0)	2(8.4)	2(3.6)	1(3.0)	6(5.0)	6(9.5)	6(0.6)	67(0.7)	17(4.0)	67(2.6)	0(0.0)	0.0(10.0)	**40**	2.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.5(1.5)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**9.19**				
148.50	A	8 /29/2008	1000	4689	3(0.9)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	2(0.2)	50(1.4)	42(5.8)	57(3.5)	41(6.5)	0.4(1.5)	**22**	5.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.6(1.8)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**7.22**				
144.40	A	8 /30/2008	1000	4694	4(2.5)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	4(0.5)	33(2.4)	50(6.4)	49(4.3)	0(0.0)	0.3(1.5)	**20**	5.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.6(1.8)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**7.22**				
139.50	A	8 /30/2008	1000	4992	3(0.9)	0(0.0)	3(1.7)	1(3.0)	0(0.0)	0(0.0)	10(1.1)	38(2.0)	43(5.9)	56(3.6)	0(0.0)	0.0(10.0)	**24**	5.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.5(1.5)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**6.92**				
137.40	A	8 /30/2008	1000	4997	3(0.9)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	8(0.9)	46(1.6)	31(5.0)	56(3.6)	0(0.0)	0.0(10.0)	**24**	4.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	1.3(3.7)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**9.17**				
133.20	A	8 /31/2008	700	5038	5(2.5)	0(0.0)	3(1.7)	2(5.7)	67(9.2)	0(0.0)	5(0.5)	9(5.6)	87(9.1)	13(7.7)	0(0.0)	0.0(10.0)	**43**	6.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
131.40	A	8 /31/2008	690	5051	5(2.5)	0(0.0)	4(0.5)	2(5.7)	33(7.4)	0(0.0)	4(0.4)	18(3.9)	46(6.1)	53(3.9)	0(0.0)	0.0(10.0)	**34**	6.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.5(1.4)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**6.89**				
125.60	A	8 /31/2008	1000	5278	4(3.3)	0(0.0)	4(0.5)	2(5.7)	39(7.9)	0(0.0)	0(0.0)	24(3.2)	44(6.0)	56(3.6)	0(0.0)	0.0(10.0)	**34**	5.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				
121.90	A	10/03/2008	1000	5410	2(1.7)	0(0.0)	5(0.0)	0(0.0)	27(7.0)	0(0.0)	0(0.0)	11(5.1)	0(0.0)	100(0.0)	0(0.0)	0.0(10.0)	**20**	3.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):	0.0(0.0)	No. Diad. Sp.:	0(0.0)	Log(Clupeid Rel. No.:	0.0(0.0)	Diad. IBI.:	**0.00**				

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
116.20	A	09/01/2008	690	5611	4(2.5)	1(7.2)	3(1.7)	2(5.7)	27(7.0)	0(0.0)	2(0.2)	24(3.2)	67(7.6)	31(6.0)	0(0.0)	0.0(10.0)	**43**	6.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.9(2.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	
114.70	A	9 /01/2008	1000	5614	5(3.3)	1(7.2)	5(0.0)	2(5.7)	37(7.7)	0(0.0)	0(0.0)	19(3.7)	74(8.2)	24(6.6)	0(0.0)	0.0(10.0)	**44**	4.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.81**	
105.70	A	9 /02/2008	1000	5705	3(0.9)	0(0.0)	3(1.7)	2(5.7)	8(5.3)	0(0.0)	2(0.2)	32(2.5)	66(7.6)	34(5.7)	0(0.0)	0.0(10.0)	**33**	4.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
102.30	A	9 /02/2008	1000	5731	4(1.7)	0(0.0)	5(0.0)	2(5.7)	4(4.8)	0(0.0)	0(0.0)	21(3.5)	38(5.6)	56(3.6)	21(5.2)	0.0(10.0)	**33**	5.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.46**	
97.60	A	9 /02/2008	1000	5765	1(0.0)	0(0.0)	4(0.5)	0(0.0)	0(0.0)	0(0.0)	1(0.1)	36(2.2)	1(2.9)	99(0.0)	0(0.0)	0.0(10.0)	**13**	2.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
92.50	A	10/03/2008	1000	6244	4(3.3)	0(0.0)	5(0.0)	1(3.0)	46(8.3)	0(0.0)	0(0.0)	5(7.3)	0(2.8)	97(0.0)	6(4.1)	0.5(1.4)	**25**	4.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**10.33**	
90.10	A	10/02/2008	1000	6257	2(1.7)	0(0.0)	5(0.0)	0(0.0)	48(8.4)	0(0.0)	0(0.0)	5(7.0)	0(0.0)	96(0.0)	0(0.0)	0.0(10.0)	**23**	4.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.8(2.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.8(0.8)	Diad. IBI.:	**8.65**	
90.10	A	09/22/2008	3870	6257	1(0.9)	0(0.0)	4(0.5)	0(0.0)	14(5.8)	0(0.0)	0(0.0)	14(4.6)	0(0.0)	100(0.0)	0(0.0)	0.0(10.0)	**18**	1.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
90.10	A	10/12/2008	2930	6257	2(0.9)	0(0.0)	2(3.6)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	12(5.0)	0(0.0)	98(0.0)	0(0.0)	0.0(10.0)	**16**	1.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		-0.5(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		-0.5(0.0)	Diad. IBI.:	**5.45**	
89.00	A	10/02/2008	660	6258	4(1.7)	0(0.0)	6(0.0)	1(3.0)	30(7.2)	0(0.0)	0(0.0)	4(7.8)	2(2.9)	97(0.0)	0(0.0)	0.0(10.0)	**27**	3.9
					Log(Eel Rel No.):	0.2(1.1)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.2(0.5)	Diad. IBI.:	**10.80**	
88.40	A	10/03/2008	1000	6265	3(1.7)	0(0.0)	5(0.0)	1(3.0)	3(4.8)	0(0.0)	0(0.0)	41(1.9)	8(3.4)	59(3.3)	17(5.0)	0.0(10.0)	**28**	5.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.4(4.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**9.45**	
83.30	A	10/01/2008	1000	6694	2(0.0)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	44(1.7)	11(3.6)	67(2.6)	0(0.0)	0.0(10.0)	**20**	2.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**6.54**	
79.20	A	10/02/2008	1000	6721	3(0.9)	0(0.0)	4(0.5)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	45(1.6)	5(3.1)	80(1.3)	0(0.0)	0.0(10.0)	**15**	3.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**6.92**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
72.20	A	10/01/2008	1000	7150	6(4.2)	0(0.0)	5(0.0)	1(3.0)	21(6.5)	0(0.0)	0(0.0)	24(3.2)	16(3.9)	77(1.6)	25(5.5)	1.3(0.9)	**24**	5.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.00**	
68.80	A	09/27/2008	1000	7152	3(2.5)	0(0.0)	6(0.0)	1(3.0)	63(9.1)	0(0.0)	0(0.0)	7(6.3)	4(3.1)	93(0.0)	0(0.0)	0.0(10.0)	**28**	4.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.2(3.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		1.2(0.9)	Diad. IBI.:	**9.71**	
Year: 2009																		
302.20	A	09/01/2009	1000	584	7(5.8)	6(10.0)	2(3.6)	5(9.3)	36(7.7)	1(9.5)	48(5.3)	0(10.0)	99(5.8)	1(8.9)	0(0.0)	0.0(10.0)	**72**	6.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
250.90	A	09/02/2009	1000	1406	3(0.9)	0(0.0)	1(6.0)	2(5.7)	20(6.5)	0(0.0)	33(3.6)	14(4.5)	72(8.0)	28(6.3)		0.0(10.0)	**51**	5.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
206.40	A	09/02/2009	1000	2749	2(0.0)	0(0.0)	3(1.7)	1(3.0)	1(4.5)	0(0.0)	15(1.7)	1(10.1)	81(8.7)	18(7.2)	0(0.0)	0.0(10.0)	**39**	5.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
181.40	A	09/09/2009	1000	3130	6(4.2)	2(8.4)	0(10.0)	3(7.3)	0(0.0)	0(0.0)	2(0.2)	0(10.0)	92(0.0)	8(8.2)	0(0.0)	0.0(10.0)	**49**	4.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
166.30	A	09/01/2009	1000	3368	4(2.5)	0(0.0)	4(0.5)	2(5.7)	12(5.7)	0(0.0)	3(0.3)	2(9.7)	14(3.8)	86(0.8)	21(5.2)	0.2(1.8)	**30**	5.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
165.60	A	09/01/2009	1000	3368	4(3.3)	0(0.0)	4(0.5)	2(5.7)	5(5.0)	0(0.0)	0(0.0)	12(4.9)	4(3.1)	96(0.0)	13(4.6)	0.0(10.0)	**31**	4.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
139.50	A	09/02/2009	1000	4992	5(3.3)	0(0.0)	3(1.7)	2(5.7)	0(4.5)	0(0.0)	40(4.4)	10(5.3)	45(6.1)	15(7.5)	7(4.2)	0.4(1.5)	**37**	5.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
137.40	A	09/21/2009	1000	4997	3(0.9)	0(0.0)	4(0.5)	1(3.0)	35(7.6)	0(0.0)	43(4.7)	6(6.6)	57(6.9)	43(4.9)	20(5.1)	0.0(10.0)	**42**	6.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
120.90	A	09/13/2009	1000	5410	3(2.5)	0(0.0)	5(0.0)	1(3.0)	14(5.8)	0(0.0)	0(0.0)	29(2.7)	0(2.8)	100(0.0)	0(0.0)	0.0(10.0)	**22**	3.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
92.50	A	09/18/2009	1000	6244	3(2.5)	0(0.0)	7(0.0)	1(3.0)	43(8.1)	0(0.0)	0(0.0)	5(7.2)	1(2.9)	99(0.0)	0(0.0)	0.1(2.0)	**21**	5.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
90.10	A	09/20/2009	1000	6257	4(3.3)	0(0.0)	6(0.0)	0(0.0)	47(8.3)	0(0.0)	0(0.0)	4(7.6)	0(0.0)	99(0.0)	0(0.0)	0.0(10.0)	**24**	3.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.6(0.7)	Diad. IBI.:	**10.46**	
67.90	A	09/28/2009	1000	7191	2(0.0)	0(0.0)	3(1.7)	0(0.0)	0(0.0)	0(0.0)	9(1.0)	44(1.7)	9(3.5)	62(3.0)	0(0.0)	2.4(0.6)	**10**	3.9
					Log(Eel Rel No.):	1.0(3.3)	Log(Diad. Rel No.):		1.4(4.1)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**15.10**	
67.90	A	08/31/2009	3810	7191	3(0.0)	1(7.2)	6(0.0)	2(5.7)	27(7.0)	0(0.0)	21(2.3)	51(1.3)	29(4.9)	68(2.4)	0(0.0)	0.0(10.0)	**34**	2.3
					Log(Eel Rel No.):	-0.1(0.0)	Log(Diad. Rel No.):		-0.1(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
66.90	A	09/28/2009	1000	7191	5(1.7)	1(7.2)	2(3.6)	2(5.7)	18(6.2)	10(9.5)	19(2.1)	13(4.7)	26(4.6)	17(7.4)	22(5.3)	0.0(10.0)	**57**	5.7
					Log(Eel Rel No.):	1.1(3.6)	Log(Diad. Rel No.):		1.3(3.9)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**17.42**	
66.10	A	08/15/2009	1000	7191	6(3.3)	0(0.0)	5(0.0)	2(5.7)	52(8.6)	0(0.0)	4(0.4)	27(2.9)	12(3.7)	85(0.8)	0(0.0)	0.4(1.5)	**22**	4.4
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		0.8(2.2)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.33**	
66.10	A	10/05/2009	4000	7191	4(2.5)	0(0.0)	3(1.7)	1(3.0)	15(6.0)	0(0.0)	8(0.8)	37(2.2)	33(5.2)	60(3.3)	0(0.0)	0.0(10.0)	**29**	2.5
					Log(Eel Rel No.):	-0.3(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.72**	
65.50	A	08/16/2009	1000	7192	6(2.5)	1(7.2)	4(0.5)	2(5.7)	7(5.2)	1(9.5)	3(0.4)	48(1.5)	18(4.1)	57(3.5)	9(4.4)	2.3(0.7)	**38**	5.4
					Log(Eel Rel No.):	1.1(3.8)	Log(Diad. Rel No.):		1.3(3.9)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		0.8(0.8)	Diad. IBI.:	**18.52**	
64.70	A	08/16/2009	1000	7863	3(0.0)	0(0.0)	7(0.0)	1(3.0)	7(5.2)	0(0.0)	1(0.1)	35(2.3)	44(6.0)	51(4.1)	53(7.3)	0.0(10.0)	**32**	5.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.8(2.4)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.8(0.8)	Diad. IBI.:	**8.65**	
64.70	A	09/02/2009	4000	7863	3(1.7)	0(0.0)	4(0.5)	1(3.0)	60(8.9)	0(0.0)	0(0.0)	8(6.0)	29(4.9)	70(2.3)	0(0.0)	0.0(10.0)	**31**	3.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.2(0.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.2(0.5)	Diad. IBI.:	**6.81**	
63.40	A	08/16/2009	1000	7863	3(0.9)	1(7.2)	5(0.0)	1(3.0)	0(0.0)	0(0.0)	2(0.2)	66(0.7)	19(4.1)	77(1.6)	43(6.6)	0.0(10.0)	**29**	5.6
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):		0.5(1.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.70**	
60.70	A	08/17/2009	1000	7866	5(2.5)	0(0.0)	4(0.5)	1(3.0)	24(6.7)	0(0.0)	0(0.0)	5(6.9)	45(6.1)	41(5.1)	0(0.0)	0.0(10.0)	**34**	5.0
					Log(Eel Rel No.):	1.5(4.9)	Log(Diad. Rel No.):		1.5(4.5)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**17.16**	
57.30	A	08/17/2009	1000	7911	3(0.9)	0(0.0)	5(0.0)	1(3.0)	5(5.0)	0(0.0)	0(0.0)	18(3.9)	65(7.5)	34(5.7)	0(0.0)	0.0(10.0)	**30**	4.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
56.10	A	08/17/2009	1000	7911	5(2.5)	1(7.2)	2(3.6)	1(3.0)	0(0.0)	1(9.5)	0(0.0)	32(2.4)	13(3.7)	51(4.1)	0(0.0)	0.0(10.0)	**38**	5.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.4(4.3)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		1.4(0.9)	Diad. IBI.:	**15.20**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	Modified IBI	Modified Iwb
55.90	A	09/19/2009	1000	1000	3(0.0)	0(0.0)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	59(1.0)	19(4.2)	81(1.2)	34(6.1)	0.0(10.0)	**22**	3.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**5.45**	
54.50	A	09/19/2009	1000	1000	4(1.7)	0(0.0)	1(6.0)	1(3.0)	0(0.0)	0(0.0)	1(0.1)	10(5.4)	82(8.7)	14(7.6)	10(4.5)	0.0(10.0)	**39**	5.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:	2(7.7)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**9.49**	
54.30	A	08/18/2009	1000	7917	4(1.7)	0(0.0)	5(0.0)	1(3.0)	0(4.5)	0(0.0)	1(0.1)	7(6.2)	84(8.9)	16(7.5)	0(0.0)	0.0(10.0)	**35**	5.8
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**7.89**	
43.80	A	08/18/2009	1000	8022	4(1.7)	0(0.0)	4(0.5)	0(0.0)	0(0.0)	0(0.0)	5(0.5)	25(3.1)	29(4.9)	58(3.4)	0(0.0)	0.0(10.0)	**20**	5.4
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		1.3(3.7)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:			1.2(0.9)	Diad. IBI.:	**15.93**	
32.30	A	08/18/2009	1000	8296	7(5.8)	0(0.0)	7(0.0)	2(5.7)	37(7.7)	0(0.0)	1(0.1)	10(5.3)	13(3.7)	80(1.3)	0(0.0)	0.3(1.7)	**26**	5.9
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		1.4(4.2)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:			1.4(0.9)	Diad. IBI.:	**16.49**	
30.50	A	08/19/2009	1000	8299	6(3.3)	0(0.0)	3(1.7)	2(5.7)	0(4.5)	0(0.0)	3(0.3)	14(4.5)	7(3.3)	24(6.7)	8(4.3)	0.4(1.4)	**30**	5.9
					Log(Eel Rel No.):	2.1(7.6)	Log(Diad. Rel No.):		2.2(7.4)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:			1.1(0.9)	Diad. IBI.:	**25.82**	
30.50	A	09/22/2009	1000	8299	2(0.0)	0(0.0)	3(1.7)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	14(4.5)	4(3.1)	27(6.4)	26(5.6)	1.3(0.9)	**21**	3.4
					Log(Eel Rel No.):	1.7(6.0)	Log(Diad. Rel No.):		1.7(5.4)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**16.81**	
30.00	A	09/22/2009	1000	1000	2(0.0)	0(0.0)	3(1.7)	1(3.0)	17(6.1)	0(0.0)	0(0.0)	28(2.8)	11(3.6)	50(4.2)	5(4.1)	8.3(0.0)	**21**	3.2
					Log(Eel Rel No.):	0.8(2.8)	Log(Diad. Rel No.):		0.8(2.4)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**10.67**	
29.70	A	08/19/2009	1000	10648	3(0.0)	0(0.0)	5(0.0)	1(3.0)	4(4.9)	0(0.0)	1(0.1)	13(4.7)	8(3.4)	19(7.2)	0(0.0)	1.7(0.8)	**20**	3.5
					Log(Eel Rel No.):	2.2(8.2)	Log(Diad. Rel No.):		2.2(7.5)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**21.16**	
23.90	A	08/19/2009	1000	9039	3(0.9)	0(0.0)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	1(0.1)	8(5.7)	15(3.9)	21(6.9)	39(6.4)	0.0(10.0)	**31**	5.5
					Log(Eel Rel No.):	2.2(8.0)	Log(Diad. Rel No.):		2.2(7.2)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**20.64**	
20.30	A	08/20/2009	1000	9047	5(2.5)	0(0.0)	5(0.0)	1(3.0)	14(5.9)	0(0.0)	9(0.9)	11(5.1)	40(5.7)	35(5.6)	0(0.0)	0.0(10.0)	**32**	5.6
					Log(Eel Rel No.):	1.4(4.9)	Log(Diad. Rel No.):		1.6(4.8)	No. Diad. Sp.:	3(10.0)	Log(Clupeid Rel. No.:			0.8(0.8)	Diad. IBI.:	**20.47**	
10.70	A	08/20/2009	1000	9656	5(4.2)	0(0.0)	3(1.7)	1(3.0)	9(5.4)	0(0.0)	5(0.5)	7(6.1)	31(5.0)	21(7.0)	42(6.6)	0.4(1.5)	**34**	5.8
					Log(Eel Rel No.):	2.1(7.7)	Log(Diad. Rel No.):		2.1(7.0)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**20.13**	
10.70	A	10/08/2009	4000	9656	3(0.9)	0(0.0)	2(3.6)	1(3.0)	9(5.3)	0(0.0)	7(0.8)	19(3.8)	11(3.6)	34(5.7)	0(0.0)	0.0(10.0)	**31**	1.5
					Log(Eel Rel No.):	1.0(3.2)	Log(Diad. Rel No.):		1.0(2.8)	No. Diad. Sp.:	1(5.5)	Log(Clupeid Rel. No.:			0.0(0.0)	Diad. IBI.:	**11.46**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
8.30	A	08/21/2009	1000	9663	3(0.0)	0(0.0)	4(0.5)	1(3.0)	12(5.7)	0(0.0)	0(0.0)	5(7.0)	37(5.4)	25(6.5)	0(0.0)	0.0(10.0)	**32**	5.9
					Log(Eel Rel No.):	1.9(6.8)	Log(Diad. Rel No.):		1.9(6.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**18.32**	
6.30	A	08/21/2009	1000	9715	8(5.8)	0(0.0)	7(0.0)	1(3.0)	22(6.6)	0(0.0)	1(0.1)	4(7.9)	12(3.6)	50(4.2)	0(0.0)	0.0(10.0)	**34**	6.4
					Log(Eel Rel No.):	1.1(3.6)	Log(Diad. Rel No.):		2.2(7.1)	No. Diad. Sp.:		4(12.3)	Log(Clupeid Rel. No.:		2.1(1.0)	Diad. IBI.:	**23.96**	
2.00	A	09/21/2009	1000	10000	4(1.7)	0(0.0)	4(0.5)	3(7.3)	24(6.7)	0(0.0)	1(0.1)	5(7.0)	28(4.8)	30(6.1)	22(5.3)	0.0(10.0)	**41**	5.7
					Log(Eel Rel No.):	1.5(5.0)	Log(Diad. Rel No.):		1.5(4.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**17.92**	
1.90	A	08/21/2009	1000	9837	6(3.3)	0(0.0)	7(0.0)	1(3.0)	17(6.2)	0(0.0)	0(0.0)	8(5.8)	11(3.5)	67(2.6)	22(5.3)	0.0(10.0)	**33**	6.5
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		1.4(4.2)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.3(0.9)	Diad. IBI.:	**15.25**	
Westfield River - (80100)																		
Year: 2008																		
15.90	A	07/21/2008	1000	352	4(0.9)	1(7.2)	4(0.5)	2(5.7)	0(4.5)	0(0.0)	1(0.1)	35(2.3)	9(3.4)	61(3.1)	30(5.8)	0.0(10.0)	**36**	6.3
					Log(Eel Rel No.):	1.8(6.4)	Log(Diad. Rel No.):		1.8(5.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**17.64**	
Year: 2009																		
34.80	A	09/01/2009	1000	143	8(4.2)	4(9.6)	2(3.6)	5(9.3)	71(9.4)	1(9.5)	25(2.7)	0(10.0)	99(3.4)	0(9.0)	0(0.0)	0.3(1.6)	**60**	7.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.22**	
1.50	A	08/28/2009	1000	1000	0(0.0)	1(7.2)	1(6.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	4(9.5)	96(0.0)	0(0.0)	0.0(10.0)	**36**	0.8
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
Chicopee River - (80200)																		
Year: 2008																		
6.50	A	07/17/2008	1000	701	5(1.7)	0(0.0)	5(0.0)	1(3.0)	0(0.0)	0(0.0)	2(0.3)	14(4.4)	23(4.5)	59(3.4)	19(5.1)	0.6(1.3)	**20**	7.6
					Log(Eel Rel No.):	1.8(6.2)	Log(Diad. Rel No.):		1.8(5.5)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**17.13**	
1.30	A	07/17/2008	2800	188	6(4.2)	1(7.2)	6(0.0)	1(3.0)	2(4.7)	0(0.0)	1(0.1)	6(6.5)	3(3.0)	84(0.9)	0(0.0)	0.0(10.0)	**33**	3.1
					Log(Eel Rel No.):	1.3(4.2)	Log(Diad. Rel No.):		1.3(3.7)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.30**	
Year: 2009																		
1.30	A	09/16/2009	1000	188	6(5.0)	0(0.0)	6(0.0)	2(5.7)	18(6.3)	0(0.0)	1(0.1)	15(4.4)	5(3.1)	83(1.0)	7(4.2)	0.6(1.3)	**26**	5.9
					Log(Eel Rel No.):	1.3(4.4)	Log(Diad. Rel No.):		1.3(3.9)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**13.73**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
Deerfield River - (80300)																		
Year: 2008																		
15.00	A	07/20/2008	1000	504	3(0.0)	0(0.0)	2(3.6)	2(5.7)	8(5.3)	0(0.0)	3(0.3)	17(4.1)	76(8.4)	22(6.8)	0(0.0)	2.9(0.5)	**29**	6.2
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):		0.8(2.2)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**10.29**	
West River - (80400)																		
Year: 2008																		
6.10	A	09/08/2008	1000	403	6(3.3)	1(7.2)	3(1.7)	3(7.3)	12(5.7)	0(9.5)	1(0.2)	39(2.0)	56(6.8)	43(4.8)	66(7.9)	0.5(1.4)	**48**	5.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
6.10	A	10/10/2008	1800	403	5(1.7)	1(7.2)	2(3.6)	2(5.7)	22(6.6)	1(9.5)	22(2.5)	62(0.9)	30(5.0)	62(3.0)	0(0.0)	0.0(10.0)	**46**	2.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.5(1.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.02**	
1.00	A	09/08/2008	1000	419	6(3.3)	0(0.0)	5(0.0)	1(3.0)	52(8.6)	0(0.0)	0(0.0)	20(3.6)	6(3.2)	91(0.2)	29(5.8)	0.0(10.0)	**31**	6.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.2(3.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.28**	
White River - (80500)																		
Year: 2008																		
30.50	A	10/04/2008	2100	1000	6(2.5)	3(9.1)	3(1.7)	5(9.3)	37(7.7)	0(0.0)	36(3.9)	2(9.1)	96(9.8)	2(8.8)	0(0.0)	0.0(10.0)	**60**	3.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
16.70	A	10/06/2008	2200	1000	9(5.0)	2(8.4)	4(0.5)	4(8.4)	23(6.7)	0(0.0)	27(3.0)	21(3.5)	73(8.1)	26(6.5)	0(0.0)	0.0(10.0)	**50**	4.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
1.80	A	10/07/2008	1920	1000	3(0.0)	2(8.4)	4(0.5)	1(3.0)	16(6.1)	0(0.0)	13(1.5)	26(3.0)	71(8.0)	26(6.5)	0(0.0)	0.0(10.0)	**39**	3.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.2(0.9)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**6.32**	
Year: 2009																		
30.50	A	08/17/2009	1000	1000	8(4.2)	5(10.0)	3(1.7)	5(9.3)	25(6.8)	12(9.4)	35(3.9)	3(8.4)	83(8.8)	4(8.6)	0(0.0)	0.0(10.0)	**68**	5.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.3(3.7)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.44**	
30.50	A	09/14/2009	1000	1000	6(2.5)	4(9.6)	3(1.7)	4(8.4)	34(7.5)	6(9.5)	42(4.6)	1(10.0)	92(9.5)	1(8.8)	0(0.0)	0.0(10.0)	**68**	5.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.1(3.2)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.64**	
16.70	A	08/17/2009	1000	1000	6(3.3)	2(8.4)	5(0.0)	3(7.3)	14(5.9)	0(0.0)	6(0.7)	4(7.4)	90(9.3)	9(8.1)	48(7.0)	1.2(0.9)	**49**	5.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Non-Guard. Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
13.40	A	08/20/2009	1000	1000	4(2.5)	2(8.4)	3(1.7)	2(5.7)	3(4.7)	0(0.0)	3(0.3)	5(6.8)	93(9.6)	6(8.4)	6(4.2)	0.8(1.1)	**45**	6.0
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
9.30	A	08/19/2009	1000	1000	2(0.0)	3(9.1)	3(1.7)	1(3.0)	22(6.6)	4(9.5)	22(2.4)	11(5.1)	81(8.7)	15(7.6)	0(0.0)	3.7(0.4)	**45**	3.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
4.70	A	08/19/2009	1000	1000	5(1.7)	2(8.4)	3(1.7)	2(5.7)	3(4.8)	1(9.5)	4(0.5)	19(3.7)	75(8.2)	22(6.8)	0(0.0)	0.0(10.0)	**51**	4.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.81**	
1.80	A	08/18/2009	1000	1000	3(0.0)	3(9.1)	4(0.5)	1(3.0)	75(9.5)	1(9.5)	75(8.3)	16(4.2)	78(8.5)	19(7.2)	0(0.0)	0.0(10.0)	**58**	4.3
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.81**	
Millers River - (80600)																		
Year: 2008																		
28.40	A	07/20/2008	1400	188	5(4.2)	0(0.0)	3(1.7)	1(3.0)	14(5.9)	0(0.0)	0(0.0)	4(7.5)	13(3.7)	87(0.6)	0(0.0)	0.0(10.0)	**31**	3.6
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
28.40	A	10/15/2008	1400	188	4(2.5)	0(0.0)	1(6.0)	2(5.7)	2(4.7)	0(0.0)	2(0.2)	40(1.9)	9(3.4)	91(0.2)	0(0.0)	0.0(10.0)	**29**	2.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
Year: 2009																		
28.40	A	08/22/2009	1000	188	5(4.2)	1(7.2)	4(0.5)	1(3.0)	21(6.5)	0(0.0)	0(0.0)	3(8.1)	17(4.0)	83(1.0)	0(0.0)	0.0(10.0)	**37**	6.5
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
28.40	A	09/15/2009	1000	188	8(6.6)	1(7.2)	3(1.7)	3(7.3)	15(6.0)	0(0.0)	3(0.3)	5(7.0)	25(4.6)	74(1.9)	0(0.0)	0.6(1.2)	**37**	6.7
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
10.10	A	08/22/2009	1000	361	8(4.2)	3(9.1)	3(1.7)	2(5.7)	2(4.7)	1(9.5)	2(0.3)	44(1.7)	37(5.5)	61(3.1)	32(6.0)	1.8(0.8)	**44**	7.0
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		0.8(2.2)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.06**	
Connecticut River (Tidal) - (81001)																		
Year: 2009																		
48.40	A	08/25/2009	1000	11221	4(2.5)	0(0.0)	2(3.6)	0(0.0)	8(5.2)	0(0.0)	0(0.0)	0(17.5)	0(2.8)	43(4.9)	0(0.0)	0.1(2.3)	**32**	5.1
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		2.9(10.0)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		2.9(1.1)	Diad. IBI.:	**18.83**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
45.30	A	08/25/2009	1000	11138	8(5.0)	0(0.0)	3(1.7)	1(3.0)	18(6.3)	0(0.0)	1(0.1)	0(14.6)	0(2.8)	28(6.3)	0(0.0)	0.1(2.0)	**35**	6.9
					Log(Eel Rel No.): 1.5(5.2)		Log(Diad. Rel No.): 2.8(10.0)		No. Diad. Sp.: 3(10.0)		Log(Clupeid Rel. No.: 2.8(1.1)		Diad. IBI.: **26.27**					
36.40	A	08/25/2009	1000	10929	6(4.2)	0(0.0)	7(0.0)	1(3.0)	83(9.6)	0(0.0)	0(0.0)	1(11.2)	2(2.9)	91(0.2)	0(0.0)	0.1(2.1)	**28**	4.9
					Log(Eel Rel No.): 1.1(3.8)		Log(Diad. Rel No.): 1.9(6.0)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 1.8(1.0)		Diad. IBI.: **18.46**					
35.60	A	08/24/2009	1000	10920	7(5.0)	0(0.0)	4(0.5)	1(3.0)	87(9.7)	0(0.0)	0(0.0)	3(8.7)	1(2.8)	96(0.0)	0(0.0)	0.1(2.1)	**27**	4.3
					Log(Eel Rel No.): 0.7(2.4)		Log(Diad. Rel No.): 1.4(4.3)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 1.4(0.9)		Diad. IBI.: **15.31**					
29.40	A	08/23/2009	1000	10887	6(3.3)	0(0.0)	4(0.5)	1(3.0)	56(8.8)	0(0.0)	0(0.0)	11(5.1)	4(3.0)	88(0.6)	0(0.0)	0.0(10.0)	**29**	4.6
					Log(Eel Rel No.): 0.7(2.4)		Log(Diad. Rel No.): 0.8(2.4)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 0.3(0.6)		Diad. IBI.: **13.11**					
28.10	A	08/23/2009	1000	10881	5(2.5)	0(0.0)	5(0.0)	0(0.0)	68(9.3)	0(0.0)	1(0.1)	3(8.4)	1(2.8)	93(0.0)	0(0.0)	0.0(10.0)	**28**	4.8
					Log(Eel Rel No.): 0.6(2.1)		Log(Diad. Rel No.): 1.0(3.0)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 0.8(0.8)		Diad. IBI.: **13.61**					
25.70	A	08/23/2009	1000	10881	5(3.3)	0(0.0)	7(0.0)	1(3.0)	79(9.5)	0(0.0)	0(0.0)	2(9.0)	1(2.8)	97(0.0)	0(0.0)	0.2(1.8)	**25**	4.3
					Log(Eel Rel No.): 1.0(3.2)		Log(Diad. Rel No.): 1.1(3.1)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 0.5(0.7)		Diad. IBI.: **14.64**					
20.70	A	08/23/2009	1000	10748	7(5.8)	0(0.0)	7(0.0)	1(3.0)	40(7.9)	0(0.0)	0(0.0)	4(7.4)	0(2.8)	77(1.6)	0(0.0)	0.7(1.2)	**25**	5.5
					Log(Eel Rel No.): 1.9(6.6)		Log(Diad. Rel No.): 2.0(6.3)		No. Diad. Sp.: 3(10.0)		Log(Clupeid Rel. No.: 0.8(0.8)		Diad. IBI.: **23.72**					
10.60	A	08/22/2009	1000	10669	6(4.2)	0(0.0)	5(0.0)	1(3.0)	37(7.7)	0(0.0)	0(0.0)	8(5.8)	7(3.3)	80(1.3)	10(4.4)	0.0(10.0)	**33**	5.6
					Log(Eel Rel No.): 1.3(4.3)		Log(Diad. Rel No.): 1.3(3.9)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 0.5(0.7)		Diad. IBI.: **16.59**					
8.50	A	08/22/2009	1000	1000	5(3.3)	0(0.0)	5(0.0)	1(3.0)	12(5.7)	0(0.0)	0(0.0)	6(6.6)	3(3.0)	50(4.2)	0(0.0)	0.0(10.0)	**30**	5.5
					Log(Eel Rel No.): 2.2(8.0)		Log(Diad. Rel No.): 2.2(7.3)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 0.3(0.6)		Diad. IBI.: **23.56**					
8.50	A	10/06/2009	2880	1000	5(2.5)	0(0.0)	5(0.0)	1(3.0)	89(9.7)	0(0.0)	0(0.0)	3(8.0)	2(2.9)	95(0.0)	0(0.0)	0.0(10.0)	**30**	0.9
					Log(Eel Rel No.): 0.7(2.5)		Log(Diad. Rel No.): 0.7(2.1)		No. Diad. Sp.: 1(5.5)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **10.10**					
4.60	A	08/22/2009	1000	10561	4(2.5)	0(0.0)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	1(0.1)	11(5.2)	23(4.4)	31(6.0)	17(4.9)	3.2(0.5)	**23**	6.1
					Log(Eel Rel No.): 1.9(6.8)		Log(Diad. Rel No.): 1.9(6.1)		No. Diad. Sp.: 1(5.5)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **18.37**					
4.60	A	10/06/2009	2000	10561	3(0.9)	0(0.0)	6(0.0)	1(3.0)	83(9.6)	0(0.0)	1(0.1)	3(8.1)	2(2.9)	95(0.0)	0(0.0)	0.0(10.0)	**29**	1.1
					Log(Eel Rel No.): 0.9(3.0)		Log(Diad. Rel No.): 0.9(2.6)		No. Diad. Sp.: 1(5.5)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **11.01**					
2.90	A	08/22/2009	1000	10482	4(1.7)	0(0.0)	7(0.0)	1(3.0)	32(7.4)	0(0.0)	1(0.1)	9(5.5)	17(4.0)	64(2.8)	27(5.7)	0.3(1.6)	**27**	7.1
					Log(Eel Rel No.): 1.6(5.4)		Log(Diad. Rel No.): 1.8(5.6)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 1.3(0.9)		Diad. IBI.: **19.62**					

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Non-Guard. Alien species	Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
1.00	A	08/22/2009	1000	10452	6(4.2)	0(0.0)	7(0.0)	2(5.7)	56(8.8)	0(0.0)	1(0.1)	1(10.2)	20(4.2)	70(2.2)	0(0.0)	0.5(1.4)	**31**	7.0
					Log(Eel Rel No.):	0.8(2.8)	Log(Diad. Rel No.):		1.6(4.8)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.5(0.9)	Diad. IBI.:	**16.30**	
1.00	A	09/21/2009	1000	10452	4(1.7)	0(0.0)	5(0.0)	2(5.7)	45(8.2)	0(0.0)	5(0.5)	3(8.3)	29(4.9)	50(4.2)	0(0.0)	0.0(10.0)	**36**	5.2
					Log(Eel Rel No.):	1.5(5.3)	Log(Diad. Rel No.):		1.6(4.7)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**17.67**	
Merrimac River - (85001)																		
Year: 2008																		
24.10	A	07/23/2008	1000	4828	7(5.8)	0(0.0)	7(0.0)	1(3.0)	26(6.9)	0(0.0)	0(0.0)	10(5.3)	46(6.1)	49(4.2)	7(4.2)	0.2(1.8)	**31**	6.7
					Log(Eel Rel No.):	1.3(4.4)	Log(Diad. Rel No.):		1.3(3.9)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**16.07**	
23.20	A	07/23/2008	1000	4837	8(5.0)	0(0.0)	5(0.0)	1(3.0)	31(7.3)	0(0.0)	0(0.0)	10(5.3)	20(4.2)	53(3.9)	0(0.0)	0.0(10.0)	**32**	5.5
					Log(Eel Rel No.):	0.9(3.0)	Log(Diad. Rel No.):		1.9(6.2)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		1.9(1.0)	Diad. IBI.:	**20.14**	
20.50	A	07/22/2008	1000	4846	7(4.2)	0(0.0)	5(0.0)	1(3.0)	2(4.7)	0(0.0)	0(0.0)	2(9.8)	92(9.5)	7(8.3)	0(0.0)	0.0(10.0)	**41**	5.1
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		0.9(2.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.6(0.7)	Diad. IBI.:	**13.13**	
6.80	A	08/20/2008	1000	4988	6(3.3)	0(0.0)	2(3.6)	0(0.0)	87(9.7)	0(0.0)	0(0.0)	0(14.8)	0(0.0)	88(0.5)	0(0.0)	0.0(10.0)	**35**	3.8
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		1.8(5.7)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		1.8(1.0)	Diad. IBI.:	**18.74**	
5.80	A	08/20/2008	1000	4988	4(0.9)	0(0.0)	2(3.6)	0(0.0)	42(8.0)	0(0.0)	0(0.0)	0(10.0)	0(0.0)	43(4.9)	0(0.0)	1.2(1.0)	**24**	3.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.5(4.7)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.5(0.9)	Diad. IBI.:	**13.31**	
Year: 2009																		
114.90	A	09/10/2009	1000	1000	3(0.0)	0(0.0)	3(1.7)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	28(2.8)	3(3.0)	53(3.9)	0(0.0)	0.0(10.0)	**20**	4.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
110.50	A	09/05/2009	1000	1533	6(3.3)	0(0.0)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	49(1.4)	2(2.9)	67(2.6)	0(0.0)	0.0(10.0)	**20**	4.2
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**9.85**	
99.40	A	09/06/2009	1000	2337	4(2.5)	0(0.0)	5(0.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	23(3.3)	15(3.9)	85(0.8)	0(0.0)	0.7(1.2)	**12**	6.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
99.10	A	09/06/2009	1000	2343	5(3.3)	0(0.0)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	3(0.3)	17(4.0)	30(5.0)	63(3.0)	0(0.0)	0.0(10.0)	**24**	7.2
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		0.7(2.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**9.85**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	Modified IBI	Modified Iwb
97.70	A	09/06/2009	1000	2361	4(1.7)	1(7.2)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	17(4.0)	42(5.8)	21(7.0)	21(5.3)	0.0(10.0)	**37**	5.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
94.30	A	09/06/2009	1000	2369	5(4.2)	1(7.2)	6(0.0)	2(5.7)	12(5.7)	0(0.0)	0(0.0)	8(5.9)	12(3.6)	86(0.8)	5(4.1)	0.0(10.0)	**39**	7.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
89.90	A	07/19/2009	1000	1000	5(4.2)	0(0.0)	4(0.5)	2(5.7)	32(7.4)	0(0.0)	0(0.0)	17(4.0)	42(5.8)	57(3.6)	19(5.1)	0.0(10.0)	**39**	7.4
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		0(0.0)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**0.00**	
81.60	A	09/05/2009	1000	2822	5(3.3)	0(0.0)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	4(0.4)	20(3.6)	5(3.1)	86(0.7)	0(0.0)	0.0(10.0)	**21**	5.0
					Log(Eel Rel No.):	1.0(3.3)	Log(Diad. Rel No.):		1.0(2.9)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.61**	
81.00	A	09/05/2009	1000	2822	4(2.5)	0(0.0)	3(1.7)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	44(1.7)	15(3.9)	83(1.0)	0(0.0)	0.0(10.0)	**17**	4.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.0(0.0)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**5.45**	
66.50	A	07/18/2009	1000	3423	3(0.0)	0(0.0)	5(0.0)	0(0.0)	1(4.6)	0(0.0)	0(0.0)	77(0.3)	0(0.0)	96(0.0)	0(0.0)	0.0(10.0)	**12**	3.9
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		0.8(2.2)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**12.06**	
66.50	A	09/07/2009	1000	3423	5(2.5)	0(0.0)	6(0.0)	1(3.0)	35(7.6)	0(0.0)	3(0.3)	26(3.0)	15(3.9)	73(2.0)	13(4.6)	1.5(0.9)	**23**	5.9
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		1.0(2.7)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**8.16**	
66.50	A	09/12/2009	1000	3423	6(2.5)	0(0.0)	2(3.6)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	59(1.0)	6(3.2)	88(0.5)	32(6.0)	1.1(1.0)	**17**	5.8
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.8(2.2)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.29**	
58.40	A	09/07/2009	1000	3432	5(1.7)	0(0.0)	3(1.7)	1(3.0)	0(0.0)	0(0.0)	1(0.2)	24(3.2)	3(3.0)	87(0.7)	37(6.3)	0.0(10.0)	**25**	5.2
					Log(Eel Rel No.):	0.0(0.0)	Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.22**	
52.90	A	07/17/2009	1000	1000	4(0.9)	0(0.0)	5(0.0)	1(3.0)	5(5.0)	0(0.0)	1(0.1)	19(3.7)	2(2.9)	96(0.0)	3(3.9)	1.7(0.8)	**17**	5.5
					Log(Eel Rel No.):	0.8(2.6)	Log(Diad. Rel No.):		0.8(2.2)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**10.29**	
42.40	A	08/27/2009	1000	4126	4(0.9)	0(0.0)	3(1.7)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	62(0.9)	0(0.0)	96(0.0)	0(0.0)	0.0(10.0)	**11**	3.7
					Log(Eel Rel No.):	0.6(2.1)	Log(Diad. Rel No.):		0.6(1.8)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**9.34**	
37.60	A	08/28/2009	1000	4630	4(1.7)	0(0.0)	6(0.0)	0(0.0)	46(8.3)	0(0.0)	1(0.1)	27(2.9)	14(3.8)	77(1.6)	0(0.0)	0.0(10.0)	**24**	4.1
					Log(Eel Rel No.):	1.0(3.3)	Log(Diad. Rel No.):		1.3(3.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**14.67**	
33.00	A	07/19/2009	1000	1000	5(4.2)	0(0.0)	3(1.7)	1(3.0)	3(4.8)	0(0.0)	0(0.0)	24(3.2)	47(6.2)	52(4.0)	26(5.6)	0.7(1.2)	**28**	7.0
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		0.3(1.1)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**7.89**	

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Steno-therm species	Alien species	Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Native Salmonids	Benthic OInsect-vores	Black Basses	Fluvial Specialist	Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
32.00	A	08/28/2009	1000	4650	3(0.9)	0(0.0)	5(0.0)	0(0.0)	3(4.8)	0(0.0)	0(0.0)	15(4.4)	0(0.0)	98(0.0)	0(0.0)	0.0(10.0)	**17**	4.1
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 1(5.5)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **5.45**					
32.00	A	09/07/2009	1000	4650	4(2.5)	0(0.0)	4(0.5)	0(0.0)	0(0.0)	0(0.0)	2(0.2)	43(1.7)	2(2.9)	92(0.1)	0(0.0)	0.0(10.0)	**15**	4.7
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.5(1.5)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **9.19**					
32.00	A	09/15/2009	4680	4650	5(3.3)	0(0.0)	8(0.0)	0(0.0)	5(5.0)	0(0.0)	0(0.0)	17(4.1)	0(0.0)	95(0.0)	0(0.0)	0.0(10.0)	**19**	3.3
					Log(Eel Rel No.): 0.2(1.1)		Log(Diad. Rel No.): 0.4(1.3)		No. Diad. Sp.: 3(10.0)		Log(Clupeid Rel. No.: -0.7(0.0)		Diad. IBI.: **12.37**					
27.40	A	08/28/2009	1000	4819	6(4.2)	0(0.0)	7(0.0)	1(3.0)	6(5.1)	0(0.0)	1(0.1)	6(6.5)	2(2.9)	80(1.3)	2(3.8)	1.1(1.0)	**23**	5.7
					Log(Eel Rel No.): 1.5(5.1)		Log(Diad. Rel No.): 1.5(4.6)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **17.37**					
27.40	A	09/18/2009	4060	4819	6(3.3)	1(7.2)	9(0.0)	1(3.0)	46(8.3)	1(9.5)	0(0.0)	18(3.8)	1(2.9)	81(1.2)	0(0.0)	0.0(10.0)	**41**	2.9
					Log(Eel Rel No.): 1.3(4.2)		Log(Diad. Rel No.): 1.3(3.8)		No. Diad. Sp.: 3(10.0)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **17.97**					
20.50	A	09/17/2009	4000	4846	4(0.9)	0(0.0)	6(0.0)	0(0.0)	4(4.8)	0(0.0)	0(0.0)	54(1.2)	1(2.9)	91(0.2)	0(0.0)	0.0(10.0)	**17**	2.5
					Log(Eel Rel No.): 0.4(1.6)		Log(Diad. Rel No.): 0.4(1.3)		No. Diad. Sp.: 1(5.5)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **8.32**					
Nashua River - (85100)																		
Year: 2009																		
1.50	A	08/28/2009	1000	264	4(2.5)	1(7.2)	3(1.7)	1(3.0)	16(6.1)	0(0.0)	1(0.1)	1(11.0)	71(7.9)	29(6.2)	32(6.0)	0.3(1.6)	**44**	7.1
					Log(Eel Rel No.): 0.0(0.0)		Log(Diad. Rel No.): 0.0(0.0)		No. Diad. Sp.: 0(0.0)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **0.00**					
Taunton River - (86001)																		
Year: 2008																		
37.10	A	08/16/2008	1000	139	7(6.6)	0(0.0)	3(1.7)	2(5.7)	5(5.0)	0(0.0)	3(0.3)	4(7.8)	54(6.7)	40(5.1)	148(10.0)	1.5(0.9)	**42**	6.5
					Log(Eel Rel No.): 0.8(2.6)		Log(Diad. Rel No.): 0.8(2.4)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **12.74**					
34.00	A	08/07/2008	880	186	5(5.0)	0(0.0)	3(1.7)	1(3.0)	4(4.9)	0(0.0)	0(0.0)	6(6.5)	18(4.1)	54(3.8)	0(0.0)	0.0(10.0)	**33**	3.6
					Log(Eel Rel No.): 1.3(4.5)		Log(Diad. Rel No.): 1.4(4.1)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 0.4(0.6)		Diad. IBI.: **16.86**					
34.00	A	10/14/2008	530	186	3(2.5)	0(0.0)	0(10.0)	1(3.0)	0(0.0)	0(0.0)	0(0.0)	0(10.0)	20(4.1)	67(2.6)	0(0.0)	0.0(10.0)	**35**	2.4
					Log(Eel Rel No.): 0.6(2.1)		Log(Diad. Rel No.): 0.6(1.7)		No. Diad. Sp.: 1(5.5)		Log(Clupeid Rel. No.: 0.0(0.0)		Diad. IBI.: **9.20**					
33.00	A	08/08/2008	1000	1000	5(4.2)	0(0.0)	2(3.6)	1(3.0)	2(4.7)	0(0.0)	5(0.6)	11(5.1)	11(3.6)	60(3.2)	0(0.0)	0.0(10.0)	**32**	3.3
					Log(Eel Rel No.): 1.5(5.0)		Log(Diad. Rel No.): 1.6(4.7)		No. Diad. Sp.: 2(7.7)		Log(Clupeid Rel. No.: 0.8(0.8)		Diad. IBI.: **18.19**					

* - Native species and intra-state exotics
** - Excludes fallfish

Appendix Table C-1. New England Maine IBI and Diadromous IBI scores and metrics at boat sites from 2002-2009.

River Mile	Type	Date	Distance (meters)	Drainage area (sq mi)	Number of: Total Native♦ species	Number of: Steno-therm species	Number of: Alien species	Number of: Non-Guard. Litho-phils	Percent of Individuals: Cyp-rinids**	Percent of Individuals: Native Salmonids	Percent of Individuals: Benthic OInsect-vores	Percent of Individuals: Black Basses	Percent of Individuals: Fluvial Specialist	Percent of Individuals: Macrohab. Generalists	White & Longnose Sucker (PB)	DELT anomalies	IBI	Modified Iwb
27.90	A	08/14/2008	1000	270	7(5.8)	0(0.0)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	10(1.1)	15(4.4)	28(4.8)	50(4.2)	49(7.0)	0.0(10.0)	**34**	7.6
					Log(Eel Rel No.):	1.7(5.7)	Log(Diad. Rel No.):		1.7(5.2)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**19.21**	
24.20	A	08/12/2008	1000	286	8(7.5)	0(0.0)	2(3.6)	2(5.7)	2(4.7)	0(0.0)	6(0.6)	7(6.4)	48(6.3)	31(6.0)	85(8.7)	0.8(1.1)	**42**	7.4
					Log(Eel Rel No.):	1.6(5.6)	Log(Diad. Rel No.):		1.7(5.2)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.7(0.8)	Diad. IBI.:	**19.25**	
19.90	A	10/09/2008	1000	314	6(5.0)	0(0.0)	4(0.5)	1(3.0)	0(0.0)	0(0.0)	4(0.5)	7(6.3)	30(4.9)	54(3.8)	57(7.5)	0.0(10.0)	**35**	6.7
					Log(Eel Rel No.):	0.7(2.4)	Log(Diad. Rel No.):		1.3(3.7)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		1.1(0.9)	Diad. IBI.:	**14.69**	
15.20	A	10/09/2008	1000	1000	8(5.8)	0(0.0)	2(3.6)	1(3.0)	0(4.5)	0(0.0)	0(0.0)	1(11.8)	0(0.0)	94(0.0)	0(0.0)	0.0(10.0)	**32**	6.1
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		1.4(4.2)	No. Diad. Sp.:		5(10.0)	Log(Clupeid Rel. No.:		1.3(0.9)	Diad. IBI.:	**16.48**	
14.90	A	08/06/2008	1320	367	8(7.5)	0(0.0)	3(1.7)	1(3.0)	1(4.6)	0(0.0)	5(0.6)	3(8.7)	10(3.5)	39(5.2)	0(0.0)	0.0(10.0)	**37**	4.7
					Log(Eel Rel No.):	0.5(1.8)	Log(Diad. Rel No.):		2.3(7.9)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		2.3(1.0)	Diad. IBI.:	**20.70**	
13.10	A	08/17/2008	1000	457	11(10.0)	0(0.0)	4(0.5)	2(5.7)	0(4.5)	0(0.0)	1(0.1)	5(7.0)	2(2.9)	75(1.7)	0(0.0)	0.0(10.0)	**35**	7.8
					Log(Eel Rel No.):	1.2(3.9)	Log(Diad. Rel No.):		1.4(4.0)	No. Diad. Sp.:		5(10.0)	Log(Clupeid Rel. No.:		0.7(0.8)	Diad. IBI.:	**18.65**	
Year: 2009																		
34.00	A	07/09/2009	1000	186	4(3.3)	0(0.0)	4(0.5)	1(3.0)	7(5.2)	0(0.0)	0(0.0)	5(7.2)	35(5.3)	44(4.7)	60(7.6)	0.0(10.0)	**39**	5.6
					Log(Eel Rel No.):	1.0(3.2)	Log(Diad. Rel No.):		1.0(2.7)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.32**	
33.00	A	07/09/2009	1000	1000	3(3.3)	0(0.0)	3(1.7)	1(3.0)	6(5.1)	0(0.0)	0(0.0)	8(5.7)	24(4.5)	69(2.4)	51(7.2)	0.0(10.0)	**36**	6.5
					Log(Eel Rel No.):	0.9(3.0)	Log(Diad. Rel No.):		0.9(2.6)	No. Diad. Sp.:		1(5.5)	Log(Clupeid Rel. No.:		0.0(0.0)	Diad. IBI.:	**11.01**	
19.40	A	07/09/2009	1000	301	5(5.0)	0(0.0)	5(0.0)	1(3.0)	1(4.6)	0(0.0)	9(1.0)	6(6.4)	22(4.4)	72(2.1)	27(5.6)	1.4(0.9)	**28**	7.7
					Log(Eel Rel No.):	1.2(4.0)	Log(Diad. Rel No.):		1.3(3.6)	No. Diad. Sp.:		2(7.7)	Log(Clupeid Rel. No.:		0.3(0.6)	Diad. IBI.:	**15.95**	
14.90	A	09/18/2009	1000	367	7(5.8)	0(0.0)	4(0.5)	1(3.0)	2(4.6)	0(0.0)	0(0.0)	5(6.9)	7(3.3)	76(1.7)	20(5.2)	1.7(0.8)	**27**	7.2
					Log(Eel Rel No.):	0.3(1.4)	Log(Diad. Rel No.):		1.3(3.8)	No. Diad. Sp.:		3(10.0)	Log(Clupeid Rel. No.:		1.3(0.9)	Diad. IBI.:	**16.02**	

* - Native species and intra-state exotics
** - Excludes fallfish

Rivers: *Saco River; Saco River Old Course; Ossipee River; Presumpscot River; Piscataqua River; Pleasant River; Little River; Presumpscot R. - dst. Falls; St. John River; Meduxnekeag River; Allagash River; Fish River*

Years: 2002; 2003; 2004; 2005; 2006; 2007; 2008; 2009

Number of Samples: 517 Data Sources: 99 Data Types: A; P

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	459	459.0	0.29	1913	0.05	4.1
01-007	AMER BROOK LAMPREY		R				1	1.0	0.00	4	0.00	4.0
08-003	ATLANTIC STURGEON	I		A	NGL	M	1	1.0	0.00	2700	0.06	2700.0
08-004	SHORTNOSE STURGEON	I		A	NGL	M	1	1.0	0.00	4050	0.10	4050.0
10-004	LONGNOSE GAR						1	1.0	0.00	10	0.00	10.0
15-001	BOWFIN						9	9.0	0.01	7000	0.17	777.7
20-002	ALEWIFE	PL		A	PS	M	5484	5484.0	3.52	14686	0.35	2.6
20-005	BLUEBACK HERRING	PL		A	NGL	M	8	8.0	0.01	48	0.00	6.0
20-006	AMERICAN SHAD	PL		A	PS	M	477	477.0	0.31	3492	0.08	7.3
25-001	BROWN TROUT	C		FD	LN	S	375	375.0	0.24	31929	0.76	85.1
25-002	RAINBOW TROUT	C		FD	LN	S	395	395.0	0.25	29051	0.69	73.5
25-003	BROOK TROUT	C		FD	L	S	225	225.0	0.14	9868	0.24	43.8
25-009	ROUND WHITEFISH	C	I	FD	L	S	90	90.0	0.06	4545	0.11	50.5
25-010	ATLANTIC SALMON	C		A	LN	S	254	254.0	0.16	20465	0.49	80.5
25-011	LANDLOCKED SALMON	C		FD	LN	S	592	592.0	0.38	14183	0.34	23.9
25-012	LAKE TROUT X BROOK TROUT	C		FD	LN	S	1	1.0	0.00	135	0.00	135.0
30-001	RAINBOW SMELT	I		A	L	M	24	24.0	0.02	44	0.00	1.8
34-001	CENTRAL MUDMINNOW	I	T	MG	VN	E	2	2.0	0.00	23	0.00	11.5
37-002	CHAIN PICKEREL	P		MG	L	M	1309	1309.0	0.84	67710	1.62	51.7
37-003	NORTHERN PIKE	P		MG	L	M	76	76.0	0.05	51077	1.22	672.0
37-004	MUSKELLUNGE	P		MG	L	M	38	25.4	0.02	25520	0.91	1006.8
37-007	REDFIN PICKEREL	P	P	MG		M	95	95.0	0.06	2151	0.05	22.6
40-008	SILVER REDHORSE		M				16	16.0	0.01	2270	0.05	141.8
40-011	SHORTHEAD REDHORSE		M				16	16.0	0.01	3340	0.08	208.7
40-016	WHITE SUCKER	I	T	FD	NGL	M	24412	24412.0	15.66	1563326	37.33	64.0
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	141	141.0	0.09	15910	0.38	112.8
40-019	LAKE CHUBSUCKER						2	2.0	0.00	14	0.00	7.0
40-020	CREEK CHUBSUCKER	I		FD	NGL	M	85	85.0	0.05	2781	0.07	32.7
43-001	COMMON CARP	O	T	MG	V	E	401	401.0	0.26	299432	7.15	746.7
43-003	GOLDEN SHINER	G	T	MG	L	E	4112	4112.0	2.64	15155	0.36	3.6
43-011	WESTERN BLACKNOSE DACE		T				105	105.0	0.07	80	0.00	0.7
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	1019	1019.0	0.65	3220	0.08	3.1
43-013	CREEK CHUB	I	T	MG	L	E	717	717.0	0.46	3238	0.08	4.5
43-016	SOUTH. REDBELLY DACE						4	4.0	0.00	500	0.01	125.0
43-020	EMERALD SHINER						55	55.0	0.04	80	0.00	1.4
43-022	ROSYFACE SHINER	I	I	FD		E	80	80.0	0.05	96	0.00	1.2
43-026	COMMON SHINER	I		FD	NGL	E	14639	14639.0	9.39	26848	0.64	1.8
43-028	SPOTTAIL SHINER	I	P	MG	L	E	10768	10768.0	6.91	20402	0.49	1.8
43-032	SPOTFIN SHINER						38	38.0	0.02	105	0.00	2.7

Midwest Biodiversity Institute
Fish Species List

Rivers: *Saco River; Saco River Old Course; Ossipee River; Presumpscot River; Piscataqua River; Pleasant River; Little River; Presumpscot R. - dst. Falls; St. John River; Meduxnekeag River; Allagash River; Fish River*

Years: 2002; 2003; 2004; 2005; 2006; 2007; 2008; 2009

Number of Samples: 517 Data Sources: 99 Data Types: A; P

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-035	MIMIC SHINER	I	I	MG		E	443	443.0	0.28	285	0.01	0.6
43-037	BLACKNOSE SHINER	I	R	MG	L	E	158	158.0	0.10	860	0.02	5.4
43-042	FATHEAD MINNOW	G	T	MG	CN	E	136	136.0	0.09	170	0.00	1.2
43-043	BLUNTNOSE MINNOW		T				303	303.0	0.19	893	0.02	2.9
43-082	Northern Redbelly Dace	G		MG	NGL	M	69	69.0	0.04	100	0.00	1.4
43-083	Pearl Dace	G		FD	NGL	S	1	1.0	0.00	2	0.00	2.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	2725	2725.0	1.75	6129	0.15	2.2
43-100	FALLFISH	G		FS	LN	E	20148	20148.0	12.93	116286	2.78	5.7
43-110	LAKE CHUB	BI		FD	NGL	S	1311	1311.0	0.84	9895	0.24	7.5
43-115	BRIDLE SHINER	I		MG	V	M	141	141.0	0.09	34	0.00	0.2
43-116	CUTLIPS MINNOW		S				4	4.0	0.00	73	0.00	18.2
43-121	Eastern Silvery Minnow	G		MG		E	1	1.0	0.00	6	0.00	6.0
47-002	CHANNEL CATFISH						10	10.0	0.01	7217	0.17	721.7
47-003	WHITE CATFISH	I		MG	P	E	65	65.0	0.04	13001	0.31	200.0
47-004	YELLOW BULLHEAD	G	T	MG		E	120	181.8	0.08	2757	0.04	15.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	557	557.0	0.36	45975	1.10	82.5
47-013	TADPOLE MADTOM						2	2.0	0.00	24	0.00	12.0
47-017	MARGINED MADTOM		I				265	378.7	0.17	4887	0.08	12.9
50-001	AMERICAN EEL	C		C		M	8343	8343.0	5.35	542994	12.97	65.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1525	1525.0	0.98	2498	0.06	1.6
54-004	MUMMICHOG	D		TS	VN	E	176	176.0	0.11	243	0.01	1.3
60-001	BURBOT	C		FD	NGL	S	592	592.0	0.38	24828	0.59	41.9
60-002	ATLANTIC TOMCOD	I		TS	P	M	5	5.0	0.00	145	0.00	29.0
63-001	TROUT-PERCH						44	44.0	0.03	126	0.00	2.8
65-001	HOGCHOKER	BI		MG		E	10	10.0	0.01	54	0.00	5.4
70-002	ATLANTIC SILVERSIDE	I	M	TS		E	13	13.0	0.01	33	0.00	2.5
74-002	STRIPED BASS	P		A	L	M	308	308.0	0.20	104280	2.49	338.5
74-003	WHITE PERCH	C		MG	L	M	844	844.0	0.54	27318	0.65	32.3
74-006	YELLOW BASS		P				1	1.0	0.00	40	0.00	40.0
77-001	WHITE CRAPPIE			MG		E	11	11.0	0.01	30	0.00	2.7
77-002	BLACK CRAPPIE	C		MG	PN	E	380	380.0	0.24	22237	0.53	58.5
77-003	ROCK BASS	C		MG	LN	E	1118	1118.0	0.72	34467	0.82	30.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	21171	21171.0	13.58	457745	10.93	21.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	2762	2762.0	1.77	124377	2.97	45.0
77-008	GREEN SUNFISH	I		MG	VN	E	59	59.0	0.04	505	0.01	8.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1799	1799.0	1.15	45224	1.08	25.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4617	4617.0	2.96	70258	1.68	15.2
77-014	BLUEGILL X PUMPKINSEED						1	1.0	0.00	200	0.00	200.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	5714	5714.0	3.67	104760	2.50	18.3

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Number of Samples: 517 Data Sources: 99 Data Types: A; P

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
77-032	BANDED SUNFISH	I		MG	PN	E	6	6.0	0.00	50	0.00	8.3
77-999	HYBRID X SUNFISH	I		MG		E	28	28.0	0.02	224	0.01	8.0
79-001	BLUEFISH	P		MG		E	6	6.0	0.00	300	0.01	50.0
80-001	SAUGER						1	1.0	0.00	220	0.01	220.0
80-002	WALLEYE	C		MG		M	16	16.0	0.01	9354	0.22	584.6
80-003	YELLOW PERCH	C		MG	V	M	10739	10739.0	6.89	143186	3.42	13.3
80-011	LOGPERCH		M				35	35.0	0.02	290	0.01	8.2
80-013	EASTERN SAND DARTER		R				2	2.0	0.00	8	0.00	4.0
80-024	FANTAIL DARTER						4	4.0	0.00	4	0.00	1.0
80-035	TESSELATED DARTER	BI		FD		M	1472	1472.0	0.94	1919	0.05	1.3
87-001	ROUND GOBY						1	1.0	0.00	2	0.00	2.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	974	974.0	0.62	3142	0.08	3.2
95-001	BROOK STICKLEBACK	I		MG	VCN	M	4	4.0	0.00	9	0.00	2.2
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	62	62.0	0.04	110	0.00	1.7
95-003	FOUR-SPINE STICKLEBACK	PL		TS	VCN	M	1	1.0	0.00	1	0.00	1.0
95-004	NINE-SPINE STICKLEBACK	PL		MG	VCN	M	18	18.0	0.01	27	0.00	1.5

No Species: 94 **Nat. Species:** 38 **Hybrids:** 3 **Total Counted:** 155848 **Total Wt. (kg):** 4187.540

4

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 0.00 Date: 07/14/2006

Time Fished: 2022 Distance: 1.000 Drainge (sq mi): 1736.4 Depth: 0

Location: Lat: 43.49410 Long: -70.44460

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	3	3.0	2.88	44	0.38	14.6
20-006	AMERICAN SHAD	PL		A	PS	M	1	2.0	0.96	2500	10.91	1250.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	8.0	3.85	40	0.17	5.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	37	37.0	35.58	130	1.13	3.5
50-001	AMERICAN EEL	C		C		M	26	26.0	25.00	112	0.98	4.3
74-002	STRIPED BASS	P		A	L	M	8	8.0	7.69	5900	51.47	737.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	10	10.0	9.62	455	3.97	45.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	6	6.0	5.77	3382	29.51	563.6
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	0.96	7	0.06	7.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	3.85	100	0.87	25.0
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	3.85	62	0.54	15.5

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 104 **Total Rel. Wt. :** 12732

IBI: 22.3

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 0.00 Date: 09/25/2006

Time Fished: 3659 Distance: 1.000 Drainge (sq mi): 1736.4 Depth: 0

Location: Lat: 43.49410 Long: -70.44460

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-100	FALLFISH	G		FS	LN	E	257	257.0	76.26	660	9.81	2.5
50-001	AMERICAN EEL	C		C		M	60	60.0	17.80	1700	25.28	28.3
74-002	STRIPED BASS	P		A	L	M	4	4.0	1.19	3485	51.82	871.2
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.30	10	0.15	10.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	7	7.0	2.08	741	11.02	105.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	0.59	60	0.89	30.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.59	8	0.12	4.0
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	1.19	61	0.91	15.2

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 337 **Total Rel. Wt. :** 6725

IBI: 34.6

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 0.30 Date: 07/14/2006

Time Fished: 2146 Distance: 1.000 Drainge (sq mi): 1735.4 Depth: 0

Location: Lat: 43.49940 Long: -70.45240

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	2.56	18	0.14	18.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	10	10.0	25.64	10212	79.89	1021.2
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	2.56	22	0.17	22.0
50-001	AMERICAN EEL	C		C		M	4	4.0	10.26	1450	11.34	362.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	10	10.0	25.64	648	5.07	64.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	12	12.0	30.77	414	3.24	34.5
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	2.56	18	0.14	18.0

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 39 **Total Rel. Wt. :** 12782

IBI: 39.6

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 0.40 Date: 07/14/2006

Time Fished: 2762 Distance: 1.000 Drainge (sq mi): 1735.4 Depth: 0

Location: Lat: 43.50000 Long: -70.45500

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	4	4.0	11.43	308	8.08	77.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	5.71	1600	41.98	800.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	2	2.0	5.71	10	0.26	5.0
43-100	FALLFISH	G		FS	LN	E	3	3.0	8.57	29	0.76	9.6
50-001	AMERICAN EEL	C		C		M	2	2.0	5.71	1400	36.74	700.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	8	8.0	22.86	290	7.61	36.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	13	13.0	37.14	146	3.83	11.2
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	2.86	28	0.73	28.0

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 35 **Total Rel. Wt. :** 3811

IBI: 33.2

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 1.00 Date: 09/04/2009

Time Fished: 2872 Distance: 1.000 Drainge (sq mi): 1683.0 Depth: 250

Location: Lat: 43.49919 Long: -70.47067

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	10	10.0	5.52	795	5.85	79.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	2.76	4825	35.53	965.0
43-003	GOLDEN SHINER	G	T	MG	L	E	12	12.0	6.63	71	0.52	5.9
43-028	SPOTTAIL SHINER	I	P	MG	L	E	51	51.0	28.18	130	0.96	2.5
43-100	FALLFISH	G		FS	LN	E	11	11.0	6.08	8	0.06	0.7
50-001	AMERICAN EEL	C		C		M	3	3.0	1.66	310	2.28	103.3
77-002	BLACK CRAPPIE	C		MG	PN	E	3	3.0	1.66	481	3.54	160.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	7	7.0	3.87	700	5.16	100.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	8	8.0	4.42	3333	24.55	416.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	33	33.0	18.23	1156	8.51	35.0
80-003	YELLOW PERCH	C		MG	V	M	38	38.0	20.99	1770	13.03	46.5

No Species: 11 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 181 **Total Rel. Wt. :** 13579

IBI: 25.3

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 4.00 Date: 07/15/2006

Time Fished: 2055 Distance: 1.000 Drainge (sq mi): 1648.7 Depth: 0

Location: Lat: 43.50853 Long: -70.51453

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	1.37	210	7.31	210.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	8	8.0	10.96	54	1.88	6.7
43-100	FALLFISH	G		FS	LN	E	31	31.0	42.47	257	8.95	8.2
50-001	AMERICAN EEL	C		C		M	4	4.0	5.48	1200	41.77	300.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	6	6.0	8.22	690	24.02	115.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	4	4.0	5.48	64	2.23	16.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	15	15.0	20.55	334	11.63	22.2
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	5.48	64	2.23	16.0

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 73 **Total Rel. Wt. :** 2873

IBI: 30.6

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 4.80 Date: 07/16/2006

Time Fished: 1841 Distance: 0.500 Drainge (sq mi): 1647.7 Depth: 0

Location: Lat: 43.51700 Long: -70.52200

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	14	28.0	22.22	17640	73.95	630.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	2.0	1.59	20	0.08	10.0
43-026	COMMON SHINER	I		FD	NGL	E	3	6.0	4.76	30	0.13	5.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	3	6.0	4.76	76	0.32	12.6
43-100	FALLFISH	G		FS	LN	E	5	10.0	7.94	152	0.64	15.2
47-005	BROWN BULLHEAD	G	T	MG	P	E	3	6.0	4.76	540	2.26	90.0
50-001	AMERICAN EEL	C		C		M	15	30.0	23.81	1800	7.55	60.0
74-003	WHITE PERCH	C		MG	L	M	1	2.0	1.59	228	0.96	114.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	10	20.0	15.87	3152	13.21	157.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	10.0	7.94	100	0.42	10.0
80-003	YELLOW PERCH	C		MG	V	M	3	6.0	4.76	116	0.49	19.3

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 63 **Total Rel. Wt. :** 23854

IBI: 44.5

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 8.00 Date: 07/15/2006

Time Fished: 3883 Distance: 1.000 Drainge (sq mi): 1631.7 Depth: 0

Location: Lat: 43.55490 Long: -70.52910

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	3	3.0	1.13	402	2.66	134.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	13	13.0	4.89	9280	61.47	713.8
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.38	10	0.07	10.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	205	205.0	77.07	670	4.44	3.2
43-100	FALLFISH	G		FS	LN	E	8	8.0	3.01	81	0.54	10.1
50-001	AMERICAN EEL	C		C		M	8	8.0	3.01	1400	9.27	175.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	17	17.0	6.39	2805	18.58	165.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.38	2	0.01	2.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	8	8.0	3.01	366	2.42	45.7
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	0.75	82	0.54	41.0

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 266 **Total Rel. Wt. :** 15098

IBI: 38.2

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 11.00 Date: 07/15/2006

Time Fished: 4734 Distance: 1.000 Drainge (sq mi): 1625.7 Depth: 0

Location: Lat: 43.56990 Long: -70.55590

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	56	56.0	19.93	89	0.38	1.5
25-011	LANDLOCKED SALMON	C		FD	LN	S	1	1.0	0.36	800	3.43	800.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.36	1200	5.14	1200.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	22	22.0	7.83	13648	58.48	620.3
43-003	GOLDEN SHINER	G	T	MG	L	E	7	7.0	2.49	35	0.15	5.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	67	67.0	23.84	308	1.32	4.6
43-100	FALLFISH	G		FS	LN	E	7	7.0	2.49	44	0.19	6.2
47-005	BROWN BULLHEAD	G	T	MG	P	E	3	3.0	1.07	2000	8.57	666.6
50-001	AMERICAN EEL	C		C		M	32	32.0	11.39	1605	6.88	50.1
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.36	30	0.13	30.0
77-002	BLACK CRAPPIE	C		MG	PN	E	3	3.0	1.07	130	0.56	43.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	10	10.0	3.56	1304	5.59	130.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.36	1150	4.93	1150.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	0.36	8	0.03	8.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	18	18.0	6.41	421	1.80	23.3
80-003	YELLOW PERCH	C		MG	V	M	51	51.0	18.15	565	2.42	11.0

No Species: 16 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 281 **Total Rel. Wt. :** 23337

IBI: 39.8

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 12.40 Date: 07/16/2006

Time Fished: 3133 Distance: 1.000 Drainge (sq mi): 1605.0 Depth: 0

Location: Lat: 43.58950 Long: -70.55390

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
50-001	AMERICAN EEL	C		C		M	1	1.0	0.56	100	1.18	100.0
74-003	WHITE PERCH	C		MG	L	M	3	3.0	1.68	510	6.04	170.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	33	33.0	18.44	3476	41.15	105.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	18	18.0	10.06	1120	13.26	62.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	49	49.0	27.37	680	8.05	13.8
80-003	YELLOW PERCH	C		MG	V	M	75	75.0	41.90	2562	30.33	34.1

No Species: 6 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 179 **Total Rel. Wt. :** 8448

IBI: 14.4

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 12.50 Date: 09/04/2009

Time Fished: 3263 Distance: 1.000 Drainge (sq mi): 1592.0 Depth: 300

Location: Saco River Reservoir Lat: 43.58498 Long: -70.55234

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	3	3.0	1.00	580	4.85	193.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	1.00	2235	18.69	745.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.33	190	1.59	190.0
50-001	AMERICAN EEL	C		C		M	2	2.0	0.67	1200	10.03	600.0
77-002	BLACK CRAPPIE	C		MG	PN	E	2	2.0	0.67	1	0.01	0.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	12	12.0	4.01	1305	10.91	108.7
77-006	LARGEMOUTH BASS	C		MG	PN	E	43	43.0	14.38	1220	10.20	28.3
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	0.33	10	0.08	10.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	115	115.0	38.46	2610	21.82	22.7
80-003	YELLOW PERCH	C		MG	V	M	117	117.0	39.13	2610	21.82	22.3

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 299 **Total Rel. Wt. :** 11961

IBI: 22.4

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 13.90 Date: 07/17/2006

Time Fished: 3075 Distance: 1.000 Drainge (sq mi): 1591.0 Depth: 0

Location: Lat: 43.61300 Long: -70.55130

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	8	8.0	11.27	3552	36.28	444.0
43-100	FALLFISH	G		FS	LN	E	1	1.0	1.41	20	0.20	20.0
50-001	AMERICAN EEL	C		C		M	10	10.0	14.08	780	7.97	78.0
74-003	WHITE PERCH	C		MG	L	M	1	1.0	1.41	165	1.69	165.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	36	36.0	50.70	3153	32.21	87.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	2.82	1750	17.88	875.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	7	7.0	9.86	240	2.45	34.2
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	8.45	130	1.33	21.6

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 71 **Total Rel. Wt. :** 9790

IBI: 26.2

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 15.30 Date: 07/16/2006

Time Fished: 3995 Distance: 1.000 Drainge (sq mi): 1580.0 Depth: 0

Location: Lat: 43.61690 Long: -70.57410

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	5	5.0	2.22	85	0.63	17.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	16	16.0	7.11	7019	51.65	438.6
43-003	GOLDEN SHINER	G	T	MG	L	E	7	7.0	3.11	60	0.44	8.5
43-026	COMMON SHINER	I		FD	NGL	E	19	19.0	8.44	56	0.41	2.9
43-100	FALLFISH	G		FS	LN	E	83	83.0	36.89	941	6.92	11.3
50-001	AMERICAN EEL	C		C		M	1	1.0	0.44	600	4.42	600.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	16	16.0	7.11	1849	13.61	115.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	7	7.0	3.11	720	5.30	102.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	58	58.0	25.78	1985	14.61	34.2
80-003	YELLOW PERCH	C		MG	V	M	13	13.0	5.78	274	2.02	21.0

No Species: 10 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 225 **Total Rel. Wt. :** 13589

IBI: 44.3

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 19.30 Date: 07/16/2006

Time Fished: 3700 Distance: 1.000 Drainge (sq mi): 1561.0 Depth: 0

Location: Lat: 43.66601 Long: -70.60300

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.48	680	4.38	680.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	55	55.0	26.32	5977	38.52	108.6
43-003	GOLDEN SHINER	G	T	MG	L	E	5	5.0	2.39	180	1.16	36.0
43-026	COMMON SHINER	I		FD	NGL	E	12	12.0	5.74	30	0.19	2.5
43-100	FALLFISH	G		FS	LN	E	47	47.0	22.49	343	2.21	7.3
50-001	AMERICAN EEL	C		C		M	33	33.0	15.79	2700	17.40	81.8
60-001	BURBOT	C		FD	NGL	S	2	2.0	0.96	60	0.39	30.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	27	27.0	12.92	4535	29.23	167.9
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.48	42	0.27	42.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	16	16.0	7.66	674	4.34	42.1
80-003	YELLOW PERCH	C		MG	V	M	10	10.0	4.78	295	1.90	29.5

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 209 **Total Rel. Wt. :** 15516

IBI: 44.6

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 20.60 Date: 07/16/2006

Time Fished: 3560 Distance: 1.000 Drainge (sq mi): 1556.2 Depth: 0

Location: Lat: 43.68730 Long: -70.61170

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.27	135	0.99	135.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	106	106.0	28.42	4836	35.45	45.6
43-026	COMMON SHINER	I		FD	NGL	E	138	138.0	37.00	544	3.99	3.9
43-100	FALLFISH	G		FS	LN	E	24	24.0	6.43	410	3.01	17.0
50-001	AMERICAN EEL	C		C		M	1	1.0	0.27	600	4.40	600.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.27	60	0.44	60.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	22	22.0	5.90	4395	32.22	199.7
77-006	LARGEMOUTH BASS	C		MG	PN	E	7	7.0	1.88	552	4.05	78.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	8	8.0	2.14	260	1.91	32.5
80-003	YELLOW PERCH	C		MG	V	M	65	65.0	17.43	1850	13.56	28.4

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 373 **Total Rel. Wt. :** 13642

IBI: 55.6

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 22.30 Date: 07/18/2006

Time Fished: 3285 Distance: 1.000 Drainge (sq mi): 1548.7 Depth: 0

Location: Lat: 43.70390 Long: -70.62650

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	3	3.0	3.53	28	0.12	9.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	12	12.0	14.12	13208	58.95	1100.6
43-026	COMMON SHINER	I		FD	NGL	E	5	5.0	5.88	18	0.08	3.6
43-100	FALLFISH	G		FS	LN	E	2	2.0	2.35	28	0.12	14.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	2.35	900	4.02	450.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	11.0	12.94	3442	15.36	312.9
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	2.35	6	0.03	3.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	19	19.0	22.35	1104	4.93	58.1
80-003	YELLOW PERCH	C		MG	V	M	29	29.0	34.12	3671	16.38	126.5

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 85 **Total Rel. Wt. :** 22405

IBI: 37.3

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 24.40 Date: 09/03/2009

Time Fished: 2937 Distance: 1.000 Drainge (sq mi): 1540.0 Depth: 300

Location: Dst. Standish ME; Adj. Hardscabble Rd. Lat: 43.69953 Long: -70.65266

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	14	14.0	2.65	570	4.98	40.7
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.19	1	0.01	1.0
40-020	CREEK CHUBSUCKER	I		FD	NGL	M	1	1.0	0.19	1	0.01	1.0
43-003	GOLDEN SHINER	G	T	MG	L	E	11	11.0	2.08	73	0.64	6.6
43-026	COMMON SHINER	I		FD	NGL	E	217	217.0	41.10	50	0.44	0.2
43-100	FALLFISH	G		FS	LN	E	89	89.0	16.86	275	2.40	3.0
50-001	AMERICAN EEL	C		C		M	1	1.0	0.19	1370	11.97	1370.0
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.19	500	4.37	500.0
77-002	BLACK CRAPPIE	C		MG	PN	E	7	7.0	1.33	13	0.11	1.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	9	9.0	1.70	1516	13.25	168.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	32	32.0	6.06	4470	39.06	139.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	7	7.0	1.33	875	7.65	125.0
80-003	YELLOW PERCH	C		MG	V	M	138	138.0	26.14	1730	15.12	12.5

No Species: 13 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 528 **Total Rel. Wt. :** 11444

IBI: 42.3

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 26.00 Date: 07/18/2006

Time Fished: 4011 Distance: 1.000 Drainge (sq mi): 1537.0 Depth: 0

Location: Lat: 43.73100 Long: -70.65420

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	4	4.0	4.76	540	6.85	135.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	3.57	2202	27.94	734.0
43-026	COMMON SHINER	I		FD	NGL	E	37	37.0	44.05	92	1.17	2.4
43-100	FALLFISH	G		FS	LN	E	6	6.0	7.14	50	0.63	8.3
50-001	AMERICAN EEL	C		C		M	1	1.0	1.19	500	6.34	500.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	1.19	26	0.33	26.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	12	12.0	14.29	2926	37.13	243.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	10	10.0	11.90	875	11.10	87.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	4.76	330	4.19	82.5
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	7.14	340	4.31	56.6

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 84 **Total Rel. Wt. :** 7881

IBI: 50.7

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 27.30 Date: 07/18/2006

Time Fished: 3370 Distance: 1.000 Drainge (sq mi): 1350.0 Depth: 0

Location: Lat: 43.74460 Long: -70.64590

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	6	6.0	11.32	30	0.34	5.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	9.43	4180	47.89	836.0
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	5.66	20	0.23	6.6
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	5.66	10	0.11	3.3
43-100	FALLFISH	G		FS	LN	E	2	2.0	3.77	122	1.40	61.0
50-001	AMERICAN EEL	C		C		M	2	2.0	3.77	1000	11.46	500.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	17	17.0	32.08	2945	33.74	173.2
77-006	LARGEMOUTH BASS	C		MG	PN	E	4	4.0	7.55	64	0.73	16.0
80-003	YELLOW PERCH	C		MG	V	M	11	11.0	20.75	358	4.10	32.5

No Species: 9 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 53 **Total Rel. Wt. :** 8729

IBI: 35.7

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 30.90 Date: 08/13/2006

Time Fished: 3544 Distance: 1.000 Drainge (sq mi): 1336.5 Depth: 0

Location: Lat: 43.78310 Long: -70.65580

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	2.90	990	8.04	495.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	1.45	20	0.16	20.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	8.70	2980	24.21	496.6
43-026	COMMON SHINER	I		FD	NGL	E	8	8.0	11.59	42	0.34	5.2
50-001	AMERICAN EEL	C		C		M	7	7.0	10.14	800	6.50	114.2
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	11.0	15.94	4767	38.73	433.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	6	6.0	8.70	2408	19.57	401.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	9	9.0	13.04	80	0.65	8.8
80-003	YELLOW PERCH	C		MG	V	M	19	19.0	27.54	220	1.79	11.5

No Species: 9 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 69 **Total Rel. Wt. :** 12307

IBI: 40.1

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 32.90 Date: 08/12/2006

Time Fished: 3228 Distance: 1.000 Drainge (sq mi): 1330.1 Depth: 0

Location: Lat: 43.78822 Long: -70.67322

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	16	16.0	19.51	705	10.81	44.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	1.22	220	3.37	220.0
43-026	COMMON SHINER	I		FD	NGL	E	38	38.0	46.34	30	0.46	0.7
50-001	AMERICAN EEL	C		C		M	11	11.0	13.41	1150	17.63	104.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	6	6.0	7.32	564	8.65	94.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	6.10	3694	56.63	738.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	2.44	20	0.31	10.0
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	3.66	140	2.15	46.6

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 82 **Total Rel. Wt. :** 6523

IBI: 38.4

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 38.60 Date: 08/12/2006

Time Fished: 2847 Distance: 1.000 Drainge (sq mi): 1301.8 Depth: 0

Location: Lat: 43.78933 Long: -70.75502

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	11	11.0	12.50	8566	67.97	778.7
43-026	COMMON SHINER	I		FD	NGL	E	40	40.0	45.45	65	0.52	1.6
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	1.14	170	1.35	170.0
50-001	AMERICAN EEL	C		C		M	11	11.0	12.50	1700	13.49	154.5
60-001	BURBOT	C		FD	NGL	S	1	1.0	1.14	130	1.03	130.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	13	13.0	14.77	1945	15.43	149.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	2.27	6	0.05	3.0
80-003	YELLOW PERCH	C		MG	V	M	9	9.0	10.23	20	0.16	2.2

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 88 **Total Rel. Wt. :** 12602

IBI: 51.7

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 44.00 Date: 08/12/2006

Time Fished: 3406 Distance: 1.000 Drainge (sq mi): 821.4 Depth: 0

Location: Lat: 43.84922 Long: -70.79391

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	9.52	1942	18.40	485.5
43-026	COMMON SHINER	I		FD	NGL	E	16	16.0	38.10	18	0.17	1.1
50-001	AMERICAN EEL	C		C		M	3	3.0	7.14	2500	23.68	833.3
60-001	BURBOT	C		FD	NGL	S	3	3.0	7.14	195	1.85	65.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	13	13.0	30.95	5090	48.21	391.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	4.76	586	5.55	293.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	2.38	226	2.14	226.0

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 42 **Total Rel. Wt. :** 10557

IBI: 47.5

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 45.70 Date: 08/11/2006

Time Fished: 2654 Distance: 1.000 Drainge (sq mi): 819.4 Depth: 0

Location: Lat: 43.86250 Long: -70.79744

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	7	7.0	4.40	157	5.96	22.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	1.89	1650	62.62	550.0
43-026	COMMON SHINER	I		FD	NGL	E	128	128.0	80.50	58	2.20	0.4
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.63	245	9.30	245.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.63	70	2.66	70.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	1.26	300	11.39	150.0
80-003	YELLOW PERCH	C		MG	V	M	17	17.0	10.69	155	5.88	9.1

No Species: 7 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 159 **Total Rel. Wt. :** 2635

IBI: 57.0

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 47.00 Date: 08/11/2006

Time Fished: 3169 Distance: 1.000 Drainge (sq mi): 799.5 Depth: 0

Location: Lat: 43.88780 Long: -70.80116

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	8	8.0	19.05	378	53.69	47.2
43-026	COMMON SHINER	I		FD	NGL	E	29	29.0	69.05	40	5.68	1.3
43-100	FALLFISH	G		FS	LN	E	1	1.0	2.38	8	1.14	8.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	2	2.0	4.76	260	36.93	130.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	4.76	18	2.56	9.0

No Species: 5 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 42 **Total Rel. Wt. :** 704

IBI: 42.1

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 52.70 Date: 08/11/2006

Time Fished: 2840 Distance: 1.000 Drainge (sq mi): 785.5 Depth: 0

Location: Lat: 43.92183 Long: -70.82769

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	1	1.0	2.63	4	0.09	4.0
37-002	CHAIN PICKEREL	P		MG	L	M	12	12.0	31.58	1025	23.62	85.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	5.26	1595	36.75	797.5
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	7.89	2	0.05	0.6
43-100	FALLFISH	G		FS	LN	E	4	4.0	10.53	792	18.25	198.0
50-001	AMERICAN EEL	C		C		M	2	2.0	5.26	600	13.82	300.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	5.26	12	0.28	6.0
80-003	YELLOW PERCH	C		MG	V	M	12	12.0	31.58	310	7.14	25.8

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 38 **Total Rel. Wt. :** 4340

IBI: 42.2

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 57.70 Date: 08/11/2006

Time Fished: 2528 Distance: 1.000 Drainge (sq mi): 729.0 Depth: 0

Location: Lat: 43.95010 Long: -70.84480

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	17	17.0	22.37	2062	36.93	121.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	1.32	200	3.58	200.0
43-026	COMMON SHINER	I		FD	NGL	E	22	22.0	28.95	75	1.34	3.4
43-100	FALLFISH	G		FS	LN	E	8	8.0	10.53	180	3.22	22.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	1	1.0	1.32	1480	26.51	1480.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	2.63	4	0.07	2.0
80-003	YELLOW PERCH	C		MG	V	M	25	25.0	32.89	1582	28.34	63.2

No Species: 7 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 76 **Total Rel. Wt. :** 5583

IBI: 37.3

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 62.80 Date: 08/11/2006

Time Fished: 5497 Distance: 1.000 Drainge (sq mi): 726.0 Depth: 0

Location: Lat: 43.96566 Long: -70.89322

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	6	6.0	3.05	24	0.09	4.0
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.51	850	3.07	850.0
37-002	CHAIN PICKEREL	P		MG	L	M	14	14.0	7.11	5500	19.88	392.8
40-016	WHITE SUCKER	I	T	FD	NGL	M	16	16.0	8.12	1455	5.26	90.9
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.51	15	0.05	15.0
43-026	COMMON SHINER	I		FD	NGL	E	90	90.0	45.69	81	0.29	0.9
43-100	FALLFISH	G		FS	LN	E	8	8.0	4.06	1235	4.46	154.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	8	8.0	4.06	16234	58.68	2029.2
80-003	YELLOW PERCH	C		MG	V	M	53	53.0	26.90	2270	8.21	42.8

No Species: 9 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 197 **Total Rel. Wt. :** 27664

IBI: 48.3

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 71.40 Date: 07/20/2006

Time Fished: 3400 Distance: 1.000 Drainge (sq mi): 658.3 Depth: 0

Location: Lat: 44.03950 Long: -70.90022

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	3	3.0	4.29	510	7.88	170.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	11	11.0	15.71	555	8.57	50.4
43-026	COMMON SHINER	I		FD	NGL	E	6	6.0	8.57	36	0.56	6.0
43-100	FALLFISH	G		FS	LN	E	9	9.0	12.86	318	4.91	35.3
50-001	AMERICAN EEL	C		C		M	1	1.0	1.43	500	7.72	500.0
60-001	BURBOT	C		FD	NGL	S	2	2.0	2.86	400	6.18	200.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	3	3.0	4.29	2910	44.95	970.0
80-003	YELLOW PERCH	C		MG	V	M	35	35.0	50.00	1245	19.23	35.5

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 70 **Total Rel. Wt. :** 6474

IBI: 46.3

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 73.20 Date: 07/22/2006

Time Fished: 4405 Distance: 1.000 Drainge (sq mi): 656.3 Depth: 0

Location: Lat: 44.06352 Long: -70.90541

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	3	3.0	1.78	550	2.03	183.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	10	10.0	5.92	8460	31.15	846.0
43-026	COMMON SHINER	I		FD	NGL	E	77	77.0	45.56	530	1.95	6.8
43-100	FALLFISH	G		FS	LN	E	38	38.0	22.49	3827	14.09	100.7
50-001	AMERICAN EEL	C		C		M	2	2.0	1.18	2100	7.73	1050.0
60-001	BURBOT	C		FD	NGL	S	5	5.0	2.96	535	1.97	107.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	7	7.0	4.14	6010	22.13	858.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.59	2700	9.94	2700.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.59	6	0.02	6.0
80-003	YELLOW PERCH	C		MG	V	M	25	25.0	14.79	2440	8.98	97.6

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 169 **Total Rel. Wt. :** 27158

IBI: 57.4

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 77.40 Date: 07/19/2006

Time Fished: 2733 Distance: 1.000 Drainge (sq mi): 458.0 Depth: 0

Location: Lat: 44.06550 Long: -70.95738

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.86	500	3.46	250.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	28	28.0	12.02	4292	29.72	153.2
40-020	CREEK CHUBSUCKER	I		FD	NGL	M	4	4.0	1.72	10	0.07	2.5
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.86	20	0.14	10.0
43-026	COMMON SHINER	I		FD	NGL	E	26	26.0	11.16	212	1.47	8.1
43-100	FALLFISH	G		FS	LN	E	125	125.0	53.65	1894	13.12	15.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.43	22	0.15	22.0
60-001	BURBOT	C		FD	NGL	S	3	3.0	1.29	134	0.93	44.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	6	6.0	2.58	4199	29.08	699.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.43	2000	13.85	2000.0
80-003	YELLOW PERCH	C		MG	V	M	35	35.0	15.02	1158	8.02	33.0

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 233 **Total Rel. Wt. :** 14441

IBI: 58.3

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 80.60 Date: 07/19/2006

Time Fished: 1709 Distance: 1.000 Drainge (sq mi): 456.0 Depth: 0

Location: Lat: 44.03805 Long: -70.98141

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	1.52	290	1.62	290.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	24	24.0	36.36	11270	63.10	469.5
43-026	COMMON SHINER	I		FD	NGL	E	5	5.0	7.58	53	0.30	10.6
43-100	FALLFISH	G		FS	LN	E	3	3.0	4.55	125	0.70	41.6
60-001	BURBOT	C		FD	NGL	S	3	3.0	4.55	160	0.90	53.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	7	7.0	10.61	5355	29.98	765.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	3.03	33	0.18	16.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	1.52	110	0.62	110.0
80-003	YELLOW PERCH	C		MG	V	M	20	20.0	30.30	465	2.60	23.2

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 66 **Total Rel. Wt. :** 17861

IBI: 49.1

Appendix C-3
Fish Species List

River: 10-001 Saco River RM: 82.80 Date: 08/10/2006

Time Fished: 4438 Distance: 1.000 Drainge (sq mi): 429.8 Depth: 0

Location: Lat: 44.02269 Long: -70.99766

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.89	106	3.37	106.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	11	11.0	9.82	935	29.68	85.0
43-026	COMMON SHINER	I		FD	NGL	E	62	62.0	55.36	240	7.62	3.8
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	1	1.0	0.89	1	0.03	1.0
43-100	FALLFISH	G		FS	LN	E	25	25.0	22.32	380	12.06	15.2
43-110	LAKE CHUB	BI		FD	NGL	S	7	7.0	6.25	56	1.78	8.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	4	4.0	3.57	1419	45.05	354.7
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.89	13	0.41	13.0

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 112 **Total Rel. Wt. :** 3150

IBI: 59.8

Appendix C-3
Fish Species List

River: 10-100 Saco River Old Course RM: 3.60 Date: 07/19/2006

Time Fished: 4515 Distance: 1.000 Drainge (sq mi): 133.0 Depth: 0

Location: Lat: 44.09810 Long: -70.92100

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	15	15.0	8.33	1096	5.27	73.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	21	21.0	11.67	6950	33.41	330.9
40-020	CREEK CHUBSUCKER	I		FD	NGL	M	4	4.0	2.22	216	1.04	54.0
43-003	GOLDEN SHINER	G	T	MG	L	E	5	5.0	2.78	170	0.82	34.0
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.56	4	0.02	4.0
43-100	FALLFISH	G		FS	LN	E	3	3.0	1.67	70	0.34	23.3
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.56	180	0.87	180.0
50-001	AMERICAN EEL	C		C		M	4	4.0	2.22	2050	9.86	512.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	1	1.0	0.56	6	0.03	6.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	15	15.0	8.33	3710	17.84	247.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	1.67	475	2.28	158.3
80-003	YELLOW PERCH	C		MG	V	M	107	107.0	59.44	5873	28.24	54.8

No Species: 12 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 180 **Total Rel. Wt. :** 20800

IBI: 31.3

Appendix C-3
Fish Species List

River: 10-500 Ossipee River RM: 11.20 Date: 08/19/2006

Time Fished: 5655 Distance: 1.000 Drainge (sq mi): 390.0 Depth: 0

Location: Lat: 43.78550 Long: -70.95909

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	15	15.0	10.14	1106	8.93	73.7
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	3.38	2630	21.24	526.0
40-020	CREEK CHUBSUCKER	I		FD	NGL	M	7	7.0	4.73	649	5.24	92.7
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.68	60	0.48	60.0
43-026	COMMON SHINER	I		FD	NGL	E	10	10.0	6.76	4	0.03	0.4
43-037	BLACKNOSE SHINER	I	R	MG	L	E	1	1.0	0.68	1	0.01	1.0
43-100	FALLFISH	G		FS	LN	E	3	3.0	2.03	55	0.44	18.3
47-005	BROWN BULLHEAD	G	T	MG	P	E	8	8.0	5.41	1020	8.24	127.5
50-001	AMERICAN EEL	C		C		M	8	8.0	5.41	3500	28.27	437.5
60-001	BURBOT	C		FD	NGL	S	3	3.0	2.03	210	1.70	70.0
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.68	670	5.41	670.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	4	4.0	2.70	264	2.13	66.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	3.38	357	2.88	71.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	2.70	182	1.47	45.5
80-003	YELLOW PERCH	C		MG	V	M	73	73.0	49.32	1673	13.51	22.9

No Species: 15 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 148 **Total Rel. Wt. :** 12381

IBI: 42.6

Appendix C-3
Fish Species List

River: 10-500 Ossipee River RM: 17.20 Date: 08/19/2006

Time Fished: 5234 Distance: 1.000 Drainge (sq mi): 331.0 Depth: 0

Location: Lat: 43.79744 Long: -71.05455

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	11	11.0	5.05	2060	9.94	187.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	1.83	2150	10.38	537.5
40-020	CREEK CHUBSUCKER	I		FD	NGL	M	8	8.0	3.67	1722	8.31	215.2
43-003	GOLDEN SHINER	G	T	MG	L	E	27	27.0	12.39	346	1.67	12.8
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	1.38	2	0.01	0.6
43-100	FALLFISH	G		FS	LN	E	4	4.0	1.83	188	0.91	47.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	16	16.0	7.34	1800	8.69	112.5
50-001	AMERICAN EEL	C		C		M	21	21.0	9.63	6500	31.38	309.5
60-001	BURBOT	C		FD	NGL	S	2	2.0	0.92	260	1.26	130.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	7	7.0	3.21	324	1.56	46.2
77-006	LARGEMOUTH BASS	C		MG	PN	E	8	8.0	3.67	1033	4.99	129.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	12	12.0	5.50	384	1.85	32.0
80-003	YELLOW PERCH	C		MG	V	M	95	95.0	43.58	3945	19.05	41.5

No Species: 13 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 218 **Total Rel. Wt. :** 20714

IBI: 47.6

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 0.70 Date: 08/17/2006

Time Fished: 4227 Distance: 1.000 Drainge (sq mi): 641.4 Depth: 0

Location: Lat: 43.72819 Long: -70.28465

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	1	1.0	1.19	3	0.07	3.0
50-001	AMERICAN EEL	C		C		M	46	46.0	54.76	2000	44.18	43.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	24	24.0	28.57	2234	49.35	93.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	13	13.0	15.48	290	6.41	22.3

No Species: 4 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 84 **Total Rel. Wt. :** 4527

IBI: 19.7

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 3.70 Date: 08/17/2006

Time Fished: 3894 Distance: 1.000 Drainge (sq mi): 613.5 Depth: 0

Location: Lat: 43.70663 Long: -70.32327

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	3.28	460	7.89	230.0
50-001	AMERICAN EEL	C		C		M	33	33.0	54.10	3000	51.46	90.9
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	22	22.0	36.07	2140	36.71	97.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	6.56	230	3.95	57.5

No Species: 4 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 61 **Total Rel. Wt. :** 5830

IBI: 24.3

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 3.70 Date: 09/26/2006

Time Fished: 3944 Distance: 1.000 Drainge (sq mi): 613.5 Depth: 0

Location: Lat: 43.70663 Long: -70.32327

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	2	2.0	1.50	8	0.11	4.0
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.75	176	2.32	176.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.75	48	0.63	48.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	11	11.0	8.27	3820	50.39	347.2
50-001	AMERICAN EEL	C		C		M	104	104.0	78.20	3018	39.81	29.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	7	7.0	5.26	342	4.51	48.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	1.50	18	0.24	9.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	3.01	141	1.86	35.2
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.75	10	0.13	10.0

No Species: 9 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 133 **Total Rel. Wt. :** 7581

IBI: 39.8

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 5.50 Date: 08/17/2006

Time Fished: 4096 Distance: 1.000 Drainge (sq mi): 598.1 Depth: 0

Location: Lat: 43.68952 Long: -70.33625

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	1	1.0	1.92	2	0.02	2.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	7.69	5830	54.28	1457.5
43-100	FALLFISH	G		FS	LN	E	7	7.0	13.46	420	3.91	60.0
50-001	AMERICAN EEL	C		C		M	21	21.0	40.38	1300	12.10	61.9
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	18	18.0	34.62	3119	29.04	173.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	1.92	70	0.65	70.0

No Species: 6 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 52 **Total Rel. Wt. :** 10741

IBI: 32.5

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 5.50 Date: 09/26/2006

Time Fished: 3732 Distance: 1.000 Drainge (sq mi): 598.1 Depth: 0

Location: Lat: 43.68952 Long: -70.33625

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	14	14.0	10.45	2358	27.00	168.4
50-001	AMERICAN EEL	C		C		M	77	77.0	57.46	3054	34.97	39.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	35	35.0	26.12	3054	34.97	87.2
77-006	LARGEMOUTH BASS	C		MG	PN	E	4	4.0	2.99	48	0.55	12.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	2.24	210	2.40	70.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.75	8	0.09	8.0

No Species: 6 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 134 **Total Rel. Wt. :** 8732

IBI: 28.3

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 6.40 Date: 08/17/2006

Time Fished: 4479 Distance: 1.000 Drainge (sq mi): 596.5 Depth: 0

Location: Lat: 43.68400 Long: -70.35100

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	3	3.0	3.53	2020	13.88	673.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	5.88	5750	39.51	1150.0
50-001	AMERICAN EEL	C		C		M	31	31.0	36.47	2510	17.24	80.9
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	43	43.0	50.59	3891	26.73	90.4
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	3.53	384	2.64	128.0

No Species: 5 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 85 **Total Rel. Wt. :** 14555

IBI: 21.2

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 6.40 Date: 09/26/2006

Time Fished: 4002 Distance: 1.000 Drainge (sq mi): 596.5 Depth: 0

Location: Lat: 43.68400 Long: -70.35100

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	13	13.0	10.74	16400	71.28	1261.5
43-100	FALLFISH	G		FS	LN	E	3	3.0	2.48	3	0.01	1.0
50-001	AMERICAN EEL	C		C		M	52	52.0	42.98	3486	15.15	67.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	50	50.0	41.32	2949	12.82	58.9
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	2.48	170	0.74	56.6

No Species: 5 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 121 **Total Rel. Wt. :** 23008

IBI: 31.2

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 7.60 Date: 08/18/2006

Time Fished: 5198 Distance: 1.000 Drainge (sq mi): 595.5 Depth: 0

Location: Lat: 43.67786 Long: -70.36638

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	7	7.0	3.41	602	2.81	86.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	7	7.0	3.41	7838	36.64	1119.7
43-003	GOLDEN SHINER	G	T	MG	L	E	25	25.0	12.20	840	3.93	33.6
43-026	COMMON SHINER	I		FD	NGL	E	2	2.0	0.98	27	0.13	13.5
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.49	25	0.12	25.0
50-001	AMERICAN EEL	C		C		M	63	63.0	30.73	7057	32.99	112.0
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.49	3	0.01	3.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	32	32.0	15.61	2204	10.30	68.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	8	8.0	3.90	648	3.03	81.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	43	43.0	20.98	2090	9.77	48.6
80-003	YELLOW PERCH	C		MG	V	M	16	16.0	7.80	60	0.28	3.7

No Species: 11 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 205 **Total Rel. Wt. :** 21394

IBI: 35.4

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 7.60 Date: 09/25/2006

Time Fished: 3081 Distance: 1.000 Drainge (sq mi): 595.5 Depth: 0

Location: Lat: 43.67786 Long: -70.36638

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	2.44	50	0.50	50.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	14.63	6920	69.30	1153.3
43-100	FALLFISH	G		FS	LN	E	3	3.0	7.32	3	0.03	1.0
50-001	AMERICAN EEL	C		C		M	8	8.0	19.51	1640	16.42	205.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	11.0	26.83	948	9.49	86.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	2.44	4	0.04	4.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	9	9.0	21.95	410	4.11	45.5
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	4.88	10	0.10	5.0

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 41 **Total Rel. Wt. :** 9985

IBI: 31.0

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 8.60 Date: 08/16/2006

Time Fished: 3381 Distance: 1.000 Drainge (sq mi): 594.5 Depth: 0

Location: Lat: 43.69077 Long: -70.37844

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	6	6.0	5.50	405	13.50	67.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.92	150	5.00	150.0
43-003	GOLDEN SHINER	G	T	MG	L	E	17	17.0	15.60	340	11.33	20.0
43-026	COMMON SHINER	I		FD	NGL	E	9	9.0	8.26	30	1.00	3.3
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.92	70	2.33	70.0
50-001	AMERICAN EEL	C		C		M	20	20.0	18.35	500	16.66	25.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	5	5.0	4.59	530	17.66	106.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	10	10.0	9.17	160	5.33	16.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	30	30.0	27.52	766	25.52	25.5
80-003	YELLOW PERCH	C		MG	V	M	10	10.0	9.17	50	1.67	5.0

No Species: 10 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 109 **Total Rel. Wt. :** 3001

IBI: 33.4

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 11.30 Date: 08/16/2006

Time Fished: 3457 Distance: 1.000 Drainge (sq mi): 586.9 Depth: 0

Location: Lat: 43.71586 Long: -70.40591

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	1.37	340	8.37	340.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	2.74	220	5.41	110.0
43-003	GOLDEN SHINER	G	T	MG	L	E	7	7.0	9.59	150	3.69	21.4
50-001	AMERICAN EEL	C		C		M	40	40.0	54.79	1493	36.75	37.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	14	14.0	19.18	1415	34.83	101.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	1.37	85	2.09	85.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	8.22	230	5.66	38.3
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	2.74	130	3.20	65.0

No Species: 8 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 73 **Total Rel. Wt. :** 4063

IBI: 30.1

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 11.30 Date: 09/26/2006

Time Fished: 3222 Distance: 1.000 Drainge (sq mi): 586.9 Depth: 0

Location: Lat: 43.71586 Long: -70.40591

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	1	1.0	0.80	30	0.53	30.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	2.40	990	17.51	330.0
43-026	COMMON SHINER	I		FD	NGL	E	13	13.0	10.40	10	0.18	0.7
50-001	AMERICAN EEL	C		C		M	93	93.0	74.40	3704	65.51	39.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	15	15.0	12.00	920	16.27	61.3

No Species: 5 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 125 **Total Rel. Wt. :** 5654

IBI: 40.8

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 12.60 Date: 08/16/2006

Time Fished: 5070 Distance: 1.000 Drainge (sq mi): 529.8 Depth: 0

Location: Lat: 43.72619 Long: -70.41861

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	3.76	460	4.51	92.0
43-003	GOLDEN SHINER	G	T	MG	L	E	23	23.0	17.29	560	5.49	24.3
43-026	COMMON SHINER	I		FD	NGL	E	2	2.0	1.50	35	0.34	17.5
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	1.50	690	6.76	345.0
50-001	AMERICAN EEL	C		C		M	48	48.0	36.09	5550	54.38	115.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	41	41.0	30.83	2495	24.45	60.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	4	4.0	3.01	235	2.30	58.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	7	7.0	5.26	178	1.74	25.4
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.75	3	0.03	3.0

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 133 **Total Rel. Wt. :** 10206

IBI: 23.8

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 13.10 Date: 08/16/2006

Time Fished: 4957 Distance: 1.000 Drainge (sq mi): 529.8 Depth: 0

Location: Lat: 43.72619 Long: -70.41861

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	3.59	1090	8.67	181.6
43-026	COMMON SHINER	I		FD	NGL	E	18	18.0	10.78	70	0.56	3.8
50-001	AMERICAN EEL	C		C		M	55	55.0	32.93	4652	36.99	84.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	64	64.0	38.32	4487	35.67	70.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	1.20	1820	14.47	910.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	20	20.0	11.98	450	3.58	22.5
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.20	9	0.07	4.5

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 167 **Total Rel. Wt. :** 12578

IBI: 33.7

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 14.10 Date: 08/16/2006

Time Fished: 3829 Distance: 1.000 Drainge (sq mi): 524.6 Depth: 0

Location: Lat: 43.74058 Long: -70.43536

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.47	65	0.63	65.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	20	20.0	9.43	2560	24.83	128.0
43-003	GOLDEN SHINER	G	T	MG	L	E	27	27.0	12.74	405	3.93	15.0
43-026	COMMON SHINER	I		FD	NGL	E	14	14.0	6.60	30	0.29	2.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	4	4.0	1.89	524	5.08	131.0
50-001	AMERICAN EEL	C		C		M	95	95.0	44.81	5545	53.77	58.3
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.47	4	0.04	4.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	12	12.0	5.66	799	7.75	66.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	11	11.0	5.19	160	1.55	14.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	23	23.0	10.85	165	1.60	7.1
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	1.89	55	0.53	13.7

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 212 **Total Rel. Wt. :** 10312

IBI: 37.4

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 14.90 Date: 08/15/2006

Time Fished: 3659 Distance: 1.000 Drainge (sq mi): 524.3 Depth: 0

Location: Lat: 43.74541 Long: -70.43952

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.97	105	0.81	105.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	8.74	2360	18.25	262.2
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.97	32	0.25	32.0
43-026	COMMON SHINER	I		FD	NGL	E	4	4.0	3.88	4	0.03	1.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	5	5.0	4.85	895	6.92	179.0
50-001	AMERICAN EEL	C		C		M	25	25.0	24.27	5000	38.67	200.0
77-002	BLACK CRAPPIE	C		MG	PN	E	2	2.0	1.94	78	0.60	39.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	36	36.0	34.95	3692	28.55	102.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.97	2	0.02	2.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	17	17.0	16.50	563	4.35	33.1
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.94	200	1.55	100.0

No Species: 11 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 103 **Total Rel. Wt. :** 12931

IBI: 33.0

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 15.60 Date: 08/15/2006

Time Fished: 6173 Distance: 1.000 Drainge (sq mi): 523.4 Depth: 0

Location: Lat: 43.75200 Long: -70.44800

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	11	11.0	2.64	1490	10.66	135.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	0.72	1300	9.30	433.3
43-003	GOLDEN SHINER	G	T	MG	L	E	24	24.0	5.77	308	2.20	12.8
43-100	FALLFISH	G		FS	LN	E	148	148.0	35.58	284	2.03	1.9
43-115	BRIDLE SHINER	I		MG	V	M	3	3.0	0.72	4	0.03	1.3
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	0.48	420	3.01	210.0
50-001	AMERICAN EEL	C		C		M	40	40.0	9.62	5900	42.22	147.5
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.24	10	0.07	10.0
77-002	BLACK CRAPPIE	C		MG	PN	E	3	3.0	0.72	6	0.04	2.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	3	3.0	0.72	182	1.30	60.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	23	23.0	5.53	766	5.48	33.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	96	96.0	23.08	1496	10.70	15.5
80-003	YELLOW PERCH	C		MG	V	M	59	59.0	14.18	1810	12.95	30.6

No Species: 13 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 416 **Total Rel. Wt. :** 13976

IBI: 37.8

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 18.10 Date: 08/15/2006

Time Fished: 4830 Distance: 1.000 Drainge (sq mi): 449.8 Depth: 0

Location: Lat: 43.77969 Long: -70.45255

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	9	9.0	4.23	40	0.17	4.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	4.23	3500	14.74	388.8
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.47	4	0.02	4.0
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.47	70	0.29	70.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	4	4.0	1.88	370	1.56	92.5
50-001	AMERICAN EEL	C		C		M	65	65.0	30.52	11003	46.35	169.2
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	49	49.0	23.00	6980	29.41	142.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	12	12.0	5.63	280	1.18	23.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	30	30.0	14.08	1010	4.25	33.6
80-003	YELLOW PERCH	C		MG	V	M	33	33.0	15.49	480	2.02	14.5

No Species: 10 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 213 **Total Rel. Wt. :** 23737

IBI: 32.3

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 18.80 Date: 08/14/2006

Time Fished: 4051 Distance: 1.000 Drainge (sq mi): 448.8 Depth: 0

Location: Lat: 43.78866 Long: -70.45150

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.99	2	0.05	2.0
50-001	AMERICAN EEL	C		C		M	15	15.0	14.85	1800	40.61	120.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	13	13.0	12.87	116	2.62	8.9
77-006	LARGEMOUTH BASS	C		MG	PN	E	19	19.0	18.81	1806	40.75	95.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	45	45.0	44.55	605	13.65	13.4
80-003	YELLOW PERCH	C		MG	V	M	8	8.0	7.92	103	2.32	12.8

No Species: 6 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 101 **Total Rel. Wt. :** 4432

IBI: 14.8

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 19.90 Date: 08/14/2006

Time Fished: 4671 Distance: 1.000 Drainge (sq mi): 446.4 Depth: 0

Location: Lat: 43.80188 Long: -70.44963

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	23	23.0	14.20	29110	49.41	1265.6
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.62	16	0.03	16.0
50-001	AMERICAN EEL	C		C		M	27	27.0	16.67	8270	14.04	306.3
60-001	BURBOT	C		FD	NGL	S	4	4.0	2.47	768	1.30	192.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	85	85.0	52.47	11177	18.97	131.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	11	11.0	6.79	9035	15.33	821.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	10	10.0	6.17	523	0.89	52.3
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.62	20	0.03	20.0

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 162 **Total Rel. Wt. :** 58919

IBI: 35.8

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 20.60 Date: 08/14/2006

Time Fished: 5120 Distance: 1.000 Drainge (sq mi): 446.0 Depth: 0

Location: Lat: 43.81725 Long: -70.44883

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	1.39	500	7.32	250.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.69	340	4.98	340.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.69	30	0.44	30.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.69	180	2.64	180.0
50-001	AMERICAN EEL	C		C		M	9	9.0	6.25	1250	18.30	138.8
74-003	WHITE PERCH	C		MG	L	M	3	3.0	2.08	170	2.49	56.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	12	12.0	8.33	1060	15.52	88.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	20	20.0	13.89	802	11.74	40.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	79	79.0	54.86	2065	30.24	26.1
80-003	YELLOW PERCH	C		MG	V	M	16	16.0	11.11	432	6.33	27.0

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 144 **Total Rel. Wt. :** 6829

IBI: 26.3

Appendix C-3
Fish Species List

River: 20-001 Presumpscot River RM: 21.10 Date: 08/14/2006

Time Fished: 4083 Distance: 1.000 Drainge (sq mi): 445.4 Depth: 0

Location: Lat: 43.81725 Long: -70.44883

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.98	1	0.01	1.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.98	250	1.94	250.0
50-001	AMERICAN EEL	C		C		M	14	14.0	13.73	5050	39.14	360.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	27	27.0	26.47	5858	45.40	216.9
77-006	LARGEMOUTH BASS	C		MG	PN	E	9	9.0	8.82	270	2.09	30.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	34	34.0	33.33	1054	8.17	31.0
80-003	YELLOW PERCH	C		MG	V	M	16	16.0	15.69	420	3.26	26.2

No Species: 7 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 102 **Total Rel. Wt. :** 12903

IBI: 20.1

Appendix C-3
Fish Species List

River: 20-100 Piscataqua River RM: 1.00 Date: 08/17/2006

Time Fished: 2883 Distance: 0.500 Drainge (sq mi): 21.2 Depth: 0

Location: Lat: 43.73458 Long: -70.28706

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	2	4.0	0.50	6	0.03	1.5
25-001	BROWN TROUT	C		FD	LN	S	1	2.0	0.25	456	2.38	228.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	181	362.0	44.91	7782	40.68	21.5
43-003	GOLDEN SHINER	G	T	MG	L	E	2	4.0	0.50	12	0.06	3.0
43-013	CREEK CHUB	I	T	MG	L	E	1	2.0	0.25	2	0.01	1.0
43-026	COMMON SHINER	I		FD	NGL	E	151	302.0	37.47	302	1.58	1.0
43-100	FALLFISH	G		FS	LN	E	4	8.0	0.99	8	0.04	1.0
50-001	AMERICAN EEL	C		C		M	26	52.0	6.45	7560	39.52	145.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	12	24.0	2.98	2658	13.90	110.7
77-006	LARGEMOUTH BASS	C		MG	PN	E	7	14.0	1.74	132	0.69	9.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	10.0	1.24	114	0.60	11.4
80-003	YELLOW PERCH	C		MG	V	M	6	12.0	1.49	88	0.46	7.3
95-004	NINE-SPINE STICKLEBACK	PL		MG	VCN	M	5	10.0	1.24	8	0.04	0.8

No Species: 13 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 403 **Total Rel. Wt. :** 19128

IBI: 45.1

Appendix C-3
Fish Species List

River: 20-200 Pleasant River RM: 1.00 Date: 08/15/2006

Time Fished: 5022 Distance: 0.750 Drainge (sq mi): 63.4 Depth: 0

Location: Lat: 43.77088 Long: -70.43460

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.7	0.85	27	0.29	10.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	37	49.3	15.81	4756	48.84	96.4
43-003	GOLDEN SHINER	G	T	MG	L	E	4	5.3	1.71	25	0.26	4.7
43-026	COMMON SHINER	I		FD	NGL	E	87	116.0	37.18	450	4.63	3.8
43-100	FALLFISH	G		FS	LN	E	11	14.7	4.70	362	3.72	24.7
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.7	0.85	93	0.96	35.0
50-001	AMERICAN EEL	C		C		M	1	1.3	0.43	77	0.79	58.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	4	5.3	1.71	410	4.22	77.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	11	14.7	4.70	42	0.44	2.9
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	32	42.7	13.68	593	6.09	13.9
80-003	YELLOW PERCH	C		MG	V	M	43	57.3	18.38	2899	29.77	50.5

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 234 **Total Rel. Wt. :** 9738

IBI: 46.8

Appendix C-3
Fish Species List

River: 20-300 Little River RM: 1.00 Date: 08/16/2006

Time Fished: 5081 Distance: 1.000 Drainge (sq mi): 50.0 Depth: 0

Location: Lat: 43.71683 Long: -70.41991

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	0.23	800	12.11	400.0
25-003	BROOK TROUT	C		FD	L	S	1	1.0	0.12	270	4.09	270.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.12	18	0.27	18.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	127	127.0	14.84	1612	24.40	12.6
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	0.35	17	0.26	5.6
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	0.12	8	0.12	8.0
43-026	COMMON SHINER	I		FD	NGL	E	586	586.0	68.46	605	9.16	1.0
43-100	FALLFISH	G		FS	LN	E	29	29.0	3.39	56	0.85	1.9
50-001	AMERICAN EEL	C		C		M	14	14.0	1.64	1908	28.88	136.2
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	71	71.0	8.29	1206	18.26	16.9
77-006	LARGEMOUTH BASS	C		MG	PN	E	9	9.0	1.05	51	0.77	5.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	7	7.0	0.82	6	0.09	0.8
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	0.47	48	0.73	12.0
95-004	NINE-SPINE STICKLEBACK	PL		MG	VCN	M	1	1.0	0.12	1	0.02	1.0

No Species: 14 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 856 **Total Rel. Wt. :** 6606

IBI: 54.8

Appendix C-3
Fish Species List

River: 21-001 Presumpscot R. - dst. Falls RM: 0.40 Date: 08/18/2006

Time Fished: 5143 Distance: 1.000 Drainge (sq mi): 642.5 Depth: 0

Location: Lat: 43.71744 Long: -70.26500

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
08-003	ATLANTIC STURGEON	I		A	NGL	M	1	1.0	0.37	2700	4.55	2700.0
20-002	ALEWIFE	PL		A	PS	M	113	113.0	42.32	325	0.55	2.8
20-006	AMERICAN SHAD	PL		A	PS	M	5	5.0	1.87	160	0.27	32.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.37	75	0.13	75.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.37	80	0.13	80.0
43-026	COMMON SHINER	I		FD	NGL	E	22	22.0	8.24	13	0.02	0.5
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.37	170	0.29	170.0
50-001	AMERICAN EEL	C		C		M	30	30.0	11.24	6000	10.12	200.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	2	2.0	0.75	9	0.02	4.5
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.37	160	0.27	160.0
74-002	STRIPED BASS	P		A	L	M	57	57.0	21.35	48305	81.47	847.4
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.37	75	0.13	75.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	16	16.0	5.99	930	1.57	58.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.37	20	0.03	20.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	15	15.0	5.62	271	0.46	18.0

No Species: 15 **Nat. Species:** 11 **Hybrids:** 0 **Total Counted:** 267 **Total Rel. Wt. :** 59293

IBI: 50.3

Appendix C-3
Fish Species List

River: 21-001 Presumpscot R. - dst. Falls RM: 0.40 Date: 09/27/2006

Time Fished: 3969 Distance: 1.000 Drainge (sq mi): 642.5 Depth: 0

Location: Lat: 43.71744 Long: -70.26500

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
08-004	SHORTNOSE STURGEON	I		A	NGL	M	1	1.0	0.60	4050	9.42	4050.0
20-002	ALEWIFE	PL		A	PS	M	49	49.0	29.17	495	1.15	10.1
30-001	RAINBOW SMELT	I		A	L	M	18	18.0	10.71	25	0.06	1.3
50-001	AMERICAN EEL	C		C		M	25	25.0	14.88	2015	4.69	80.6
54-004	MUMMICHOG	D		TS	VN	E	11	11.0	6.55	40	0.09	3.6
60-002	ATLANTIC TOMCOD	I		TS	P	M	4	4.0	2.38	125	0.29	31.2
74-002	STRIPED BASS	P		A	L	M	43	43.0	25.60	35930	83.57	835.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	5	5.0	2.98	210	0.49	42.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.60	8	0.02	8.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	1.19	27	0.06	13.5
80-003	YELLOW PERCH	C		MG	V	M	9	9.0	5.36	70	0.16	7.7

No Species: 11 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 168 **Total Rel. Wt. :** 42995

IBI: 31.3

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 204.50 Date: 07/26/2005

Time Fished: 2812 Distance: 1.000 Drainge (sq mi): 6170.0 Depth: 0

Location: Lat: 47.08345 Long: -67.82223

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	2	2.0	0.78	175	12.27	87.5
25-009	ROUND WHITEFISH	C	I	FD	L	S	5	5.0	1.96	17	1.19	3.4
37-004	MUSKELLUNGE	P		MG	L	M	2	2.0	0.78	484	33.94	242.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	102	102.0	40.00	297	20.83	2.9
43-013	CREEK CHUB	I	T	MG	L	E	21	21.0	8.24	106	7.43	5.0
43-026	COMMON SHINER	I		FD	NGL	E	21	21.0	8.24	209	14.66	9.9
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	9	9.0	3.53	3	0.21	0.3
43-100	FALLFISH	G		FS	LN	E	87	87.0	34.12	12	0.84	0.1
43-110	LAKE CHUB	BI		FD	NGL	S	3	3.0	1.18	50	3.51	16.6
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	1.18	73	5.12	24.3

No Species: 10 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 255 **Total Rel. Wt. :** 1426

IBI: 53.4

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 210.00 Date: 09/20/2008

Time Fished: 1839 Distance: 1.000 Drainge (sq mi): 6170.0 Depth: 0

Location: Lat: 47.13182 Long: -67.89810

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
30-001	RAINBOW SMELT	I		A	L	M	1	1.0	1.52	10	0.89	10.0
37-004	MUSKELLUNGE	P		MG	L	M	3	3.0	4.55	60	5.32	20.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	14	14.0	21.21	782	69.33	55.8
43-011	WESTERN BLACKNOSE DACE		T				1	1.0	1.52	2	0.18	2.0
43-013	CREEK CHUB	I	T	MG	L	E	27	27.0	40.91	30	2.66	1.1
43-026	COMMON SHINER	I		FD	NGL	E	18	18.0	27.27	20	1.77	1.1
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	3.03	224	19.86	112.0

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 66 **Total Rel. Wt. :** 1128

IBI: 43.0

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 210.70 Date: 09/20/2008

Time Fished: 2211 Distance: 1.000 Drainge (sq mi): 8241.6 Depth: 350

Location: 2 km DST VAn Buren bridge, Van Buren, ME Lat: 47.13440 Long: -67.90308

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-004	MUSKELLUNGE	P		MG	L	M	2	2.0	8.33	70	28.46	35.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	12.50	104	42.28	34.6
43-011	WESTERN BLACKNOSE DACE		T				5	5.0	20.83	6	2.44	1.2
43-013	CREEK CHUB	I	T	MG	L	E	5	5.0	20.83	10	4.07	2.0
43-026	COMMON SHINER	I		FD	NGL	E	6	6.0	25.00	10	4.07	1.6
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	12.50	46	18.70	15.3

No Species: 6 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 24 **Total Rel. Wt. :** 246

IBI: 42.8

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 214.80 Date: 07/26/2005

Time Fished: 3934 Distance: 1.000 Drainge (sq mi): 6002.0 Depth: 0

Location: Lat: 47.18876 Long: -67.95202

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	54	54.0	22.88	134	6.32	2.4
43-013	CREEK CHUB	I	T	MG	L	E	2	2.0	0.85	17	0.80	8.5
43-026	COMMON SHINER	I		FD	NGL	E	96	96.0	40.68	383	18.07	3.9
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	3	3.0	1.27	2	0.09	0.6
43-100	FALLFISH	G		FS	LN	E	37	37.0	15.68	42	1.98	1.1
43-110	LAKE CHUB	BI		FD	NGL	S	7	7.0	2.97	22	1.04	3.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	4	4.0	1.69	1142	53.89	285.5
80-003	YELLOW PERCH	C		MG	V	M	31	31.0	13.14	375	17.70	12.1
95-004	NINE-SPINE STICKLEBACK	PL		MG	VCN	M	2	2.0	0.85	2	0.09	1.0

No Species: 9 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 236 **Total Rel. Wt. :** 2119

IBI: 58.8

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 222.20 Date: 07/26/2005

Time Fished: 3074 Distance: 1.500 Drainge (sq mi): 5593.0 Depth: 0

Location: Lat: 47.25756 Long: -68.06764

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-004	MUSKELLUNGE	P		MG	L	M	3	2.0	0.73	391	12.27	195.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	152	101.4	37.07	1958	61.36	19.3
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	2	1.3	0.49	242	7.61	182.0
43-013	CREEK CHUB	I	T	MG	L	E	1	0.7	0.24	6	0.21	10.0
43-026	COMMON SHINER	I		FD	NGL	E	80	53.4	19.51	204	6.42	3.8
43-100	FALLFISH	G		FS	LN	E	139	92.7	33.90	70	2.19	0.7
43-110	LAKE CHUB	BI		FD	NGL	S	7	4.7	1.71	25	0.79	5.4
80-003	YELLOW PERCH	C		MG	V	M	23	15.3	5.61	289	9.07	18.8
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	1	0.7	0.24	1	0.04	2.0
95-004	NINE-SPINE STICKLEBACK	PL		MG	VCN	M	2	1.3	0.49	1	0.04	1.0

No Species: 10 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 410 **Total Rel. Wt. :** 3191

IBI: 64.1

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 229.40 Date: 07/25/2005

Time Fished: 4018 Distance: 1.000 Drainge (sq mi): 5580.0 Depth: 0

Location: Lat: 47.32610 Long: -68.15869

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-004	MUSKELLUNGE	P		MG	L	M	2	2.0	1.54	2166	49.58	1083.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	44	44.0	33.85	214	4.90	4.8
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	4	4.0	3.08	123	2.82	30.7
43-026	COMMON SHINER	I		FD	NGL	E	12	12.0	9.23	7	0.16	0.5
43-100	FALLFISH	G		FS	LN	E	34	34.0	26.15	22	0.50	0.6
43-110	LAKE CHUB	BI		FD	NGL	S	5	5.0	3.85	7	0.16	1.4
47-005	BROWN BULLHEAD	G	T	MG	P	E	3	3.0	2.31	619	14.17	206.3
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.77	44	1.01	44.0
80-003	YELLOW PERCH	C		MG	V	M	23	23.0	17.69	1162	26.60	50.5
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	1	1.0	0.77	3	0.07	3.0
95-004	NINE-SPINE STICKLEBACK	PL		MG	VCN	M	1	1.0	0.77	2	0.05	2.0

No Species: 11 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 130 **Total Rel. Wt. :** 4369

IBI: 52.8

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 237.70 Date: 07/25/2005

Time Fished: 2884 Distance: 1.000 Drainge (sq mi): 5051.0 Depth: 0

Location: Lat: 47.35556 Long: -68.30773

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	61	61.0	19.68	6870	59.04	112.6
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	4	4.0	1.29	2150	18.48	537.5
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	0.32	7	0.06	7.0
43-026	COMMON SHINER	I		FD	NGL	E	72	72.0	23.23	32	0.27	0.4
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	55	55.0	17.74	90	0.77	1.6
43-100	FALLFISH	G		FS	LN	E	36	36.0	11.61	2135	18.35	59.3
43-110	LAKE CHUB	BI		FD	NGL	S	48	48.0	15.48	222	1.91	4.6
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.32	61	0.52	61.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	32	32.0	10.32	70	0.60	2.1

No Species: 9 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 310 **Total Rel. Wt. :** 11637

IBI: 72.3

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 244.30 Date: 07/25/2005

Time Fished: 4372 Distance: 1.000 Drainge (sq mi): 3850.0 Depth: 0

Location: Lat: 47.30593 Long: -68.38295

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	20	20.0	13.07	36	1.38	1.8
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	2	2.0	1.31	103	3.94	51.5
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	0.65	4	0.15	4.0
43-026	COMMON SHINER	I		FD	NGL	E	5	5.0	3.27	11	0.42	2.2
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	21	21.0	13.73	49	1.87	2.3
43-100	FALLFISH	G		FS	LN	E	10	10.0	6.54	14	0.53	1.4
43-110	LAKE CHUB	BI		FD	NGL	S	60	60.0	39.22	484	18.49	8.0
60-001	BURBOT	C		FD	NGL	S	6	6.0	3.92	447	17.08	74.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	17	17.0	11.11	1402	53.57	82.4
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.65	40	1.53	40.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	10	10.0	6.54	27	1.03	2.7

No Species: 11 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 153 **Total Rel. Wt. :** 2617

IBI: 65.8

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 253.00 Date: 07/13/2009

Time Fished: 2446 Distance: 1.000 Drainge (sq mi): 5885.0 Depth: 50

Location: Ust. Upper Frenchville, ME Lat: 47.29649 Long: -68.50918

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	9.68	32	0.53	5.3
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	4.84	6	0.10	2.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	11	11.0	17.74	17	0.28	1.5
43-100	FALLFISH	G		FS	LN	E	17	17.0	27.42	116	1.93	6.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	10	10.0	16.13	5760	95.78	576.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	1.61	40	0.67	40.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	14	14.0	22.58	43	0.72	3.0

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 62 **Total Rel. Wt. :** 6014

IBI: 54.5

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 258.90 Date: 07/23/2005

Time Fished: 3320 Distance: 1.000 Drainge (sq mi): 3560.0 Depth: 0

Location: Lat: 47.25842 Long: -68.59358

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-004	MUSKELLUNGE	P		MG	L	M	4	4.0	9.09	20960	91.80	5240.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	4.55	1080	4.73	540.0
43-026	COMMON SHINER	I		FD	NGL	E	4	4.0	9.09	21	0.09	5.2
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	10	10.0	22.73	20	0.09	2.0
43-100	FALLFISH	G		FS	LN	E	12	12.0	27.27	615	2.69	51.2
43-110	LAKE CHUB	BI		FD	NGL	S	2	2.0	4.55	20	0.09	10.0
60-001	BURBOT	C		FD	NGL	S	2	2.0	4.55	95	0.42	47.5
90-003	SLIMY SCULPIN	BI		FS	NGL	S	8	8.0	18.18	21	0.09	2.6

No Species: 8 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 44 **Total Rel. Wt. :** 22832

IBI: 68.3

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 266.90 Date: 07/23/2005

Time Fished: 3773 Distance: 1.000 Drainge (sq mi): 3540.0 Depth: 0

Location: Lat: 47.22997 Long: -68.73329

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
34-001	CENTRAL MUDMINNOW	I	T	MG	VN	E	1	1.0	0.47	3	0.04	3.0
37-004	MUSKELLUNGE	P		MG	L	M	4	4.0	1.87	6864	88.99	1716.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	8	8.0	3.74	12	0.16	1.5
43-026	COMMON SHINER	I		FD	NGL	E	25	25.0	11.68	45	0.58	1.8
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	100	100.0	46.73	258	3.35	2.5
43-100	FALLFISH	G		FS	LN	E	13	13.0	6.07	24	0.31	1.8
43-110	LAKE CHUB	BI		FD	NGL	S	46	46.0	21.50	417	5.41	9.0
60-001	BURBOT	C		FD	NGL	S	6	6.0	2.80	71	0.92	11.8
90-003	SLIMY SCULPIN	BI		FS	NGL	S	10	10.0	4.67	17	0.22	1.7
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	1	1.0	0.47	2	0.03	2.0

No Species: 10 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 214 **Total Rel. Wt. :** 7713

IBI: 68.3

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 270.50 Date: 07/23/2005

Time Fished: 4369 Distance: 1.000 Drainge (sq mi): 3405.0 Depth: 0

Location: Lat: 47.21342 Long: -68.80124

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-004	MUSKELLUNGE	P		MG	L	M	1	1.0	0.30	2	0.00	2.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	25	25.0	7.40	1096	2.33	43.8
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	2	2.0	0.59	43645	92.62	21822.5
43-013	CREEK CHUB	I	T	MG	L	E	3	3.0	0.89	24	0.05	8.0
43-026	COMMON SHINER	I		FD	NGL	E	174	174.0	51.48	659	1.40	3.7
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	7	7.0	2.07	90	0.19	12.8
43-110	LAKE CHUB	BI		FD	NGL	S	79	79.0	23.37	823	1.75	10.4
60-001	BURBOT	C		FD	NGL	S	20	20.0	5.92	723	1.53	36.1
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.30	42	0.09	42.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	26	26.0	7.69	19	0.04	0.7

No Species: 10 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 338 **Total Rel. Wt. :** 47123

IBI: 71.0

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 272.00 Date: 07/12/2009

Time Fished: 1882 Distance: 1.000 Drainge (sq mi): 4634.8 Depth: 100

Location: Dst. Hunnrwell Island, St. Johns ME Lat: 47.20792 Long: -68.82284

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-004	MUSKELLUNGE	P		MG	L	M	2	2.0	1.87	12	3.22	6.0
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.0	0.93	20	5.36	20.0
43-013	CREEK CHUB	I	T	MG	L	E	81	81.0	75.70	245	65.68	3.0
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.93	6	1.61	6.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	20	20.0	18.69	28	7.51	1.4
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.93	60	16.09	60.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	1	1.0	0.93	2	0.54	2.0

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 107 **Total Rel. Wt. :** 373

IBI: 56.3

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 277.00 Date: 07/22/2005

Time Fished: 3928 Distance: 1.000 Drainge (sq mi): 2784.0 Depth: 0

Location: Lat: 47.16798 Long: -68.92074

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-004	MUSKELLUNGE	P		MG	L	M	2	2.0	2.02	5000	90.46	2500.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	5.05	46	0.83	9.2
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	4	4.0	4.04	31	0.56	7.7
43-026	COMMON SHINER	I		FD	NGL	E	8	8.0	8.08	21	0.38	2.6
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	39	39.0	39.39	34	0.62	0.8
43-100	FALLFISH	G		FS	LN	E	1	1.0	1.01	2	0.04	2.0
43-110	LAKE CHUB	BI		FD	NGL	S	37	37.0	37.37	326	5.90	8.8
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	1.01	58	1.05	58.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	2	2.0	2.02	9	0.16	4.5

No Species: 9 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 99 **Total Rel. Wt. :** 5527

IBI: 71.3

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 277.00 Date: 08/25/2005

Time Fished: 2958 Distance: 1.000 Drainge (sq mi): 2784.0 Depth: 0

Location: Lat: 47.16798 Long: -68.92074

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	22	22.0	6.51	122	10.89	5.5
43-026	COMMON SHINER	I		FD	NGL	E	124	124.0	36.69	200	17.86	1.6
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	91	91.0	26.92	165	14.73	1.8
43-100	FALLFISH	G		FS	LN	E	26	26.0	7.69	35	3.13	1.3
43-110	LAKE CHUB	BI		FD	NGL	S	63	63.0	18.64	445	39.73	7.0
60-001	BURBOT	C		FD	NGL	S	3	3.0	0.89	97	8.66	32.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	3	3.0	0.89	44	3.93	14.6
90-003	SLIMY SCULPIN	BI		FS	NGL	S	6	6.0	1.78	12	1.07	2.0

No Species: 8 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 338 **Total Rel. Wt. :** 1120

IBI: 69.5

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 278.70 Date: 09/20/2008

Time Fished: 3285 Distance: 1.000 Drainge (sq mi): 4016.9 Depth: 0

Location: 300m DST NRSA "X" Lat: 47.15888 Long: -68.93522

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-004	MUSKELLUNGE	P		MG	L	M	2	2.0	0.77	80	8.59	40.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	1.53	83	8.92	20.7
43-011	WESTERN BLACKNOSE DACE		T				29	29.0	11.11	46	4.94	1.5
43-013	CREEK CHUB	I	T	MG	L	E	12	12.0	4.60	50	5.37	4.1
43-026	COMMON SHINER	I		FD	NGL	E	163	163.0	62.45	320	34.37	1.9
43-100	FALLFISH	G		FS	LN	E	11	11.0	4.21	80	8.59	7.2
43-110	LAKE CHUB	BI		FD	NGL	S	2	2.0	0.77	16	1.72	8.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	15	15.0	5.75	20	2.15	1.3
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.38	10	1.07	10.0
80-003	YELLOW PERCH	C		MG	V	M	16	16.0	6.13	210	22.56	13.1
90-003	SLIMY SCULPIN	BI		FS	NGL	S	3	3.0	1.15	6	0.64	2.0
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	3	3.0	1.15	10	1.07	3.3

No Species: 12 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 261 **Total Rel. Wt. :** 931

IBI: 59.8

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 279.10 Date: 09/20/2008

Time Fished: 2696 Distance: 1.000 Drainge (sq mi): 4015.0 Depth: 0

Location: 800m UST NRSA "X" Lat: 47.15143 Long: -68.94457

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.0	0.54	80	15.07	80.0
43-011	WESTERN BLACKNOSE DACE		T				36	36.0	19.57	59	11.11	1.6
43-026	COMMON SHINER	I		FD	NGL	E	99	99.0	53.80	210	39.55	2.1
43-100	FALLFISH	G		FS	LN	E	37	37.0	20.11	120	22.60	3.2
43-110	LAKE CHUB	BI		FD	NGL	S	6	6.0	3.26	40	7.53	6.6
60-001	BURBOT	C		FD	NGL	S	2	2.0	1.09	8	1.51	4.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.09	10	1.88	5.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	1	1.0	0.54	4	0.75	4.0

No Species: 8 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 184 **Total Rel. Wt. :** 531

IBI: 61.8

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 286.80 Date: 07/12/2009

Time Fished: 2347 Distance: 1.000 Drainge (sq mi): 2687.0 Depth: 75

Location: Dst. Allagash Confluence Lat: 47.09160 Long: -69.02053

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	2.86	40	2.24	40.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	7	7.0	20.00	690	38.59	98.5
43-026	COMMON SHINER	I		FD	NGL	E	4	4.0	11.43	60	3.36	15.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	1	1.0	2.86	80	4.47	80.0
43-100	FALLFISH	G		FS	LN	E	12	12.0	34.29	755	42.23	62.9
60-001	BURBOT	C		FD	NGL	S	2	2.0	5.71	60	3.36	30.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	2.86	80	4.47	80.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	7	7.0	20.00	23	1.29	3.2

No Species: 8 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 35 **Total Rel. Wt. :** 1788

IBI: 73.3

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 288.30 Date: 07/12/2009

Time Fished: 3268 Distance: 1.000 Drainge (sq mi): 2687.0 Depth: 75

Location: Ust. Allagash Confluence Lat: 47.09212 Long: -69.05238

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-004	MUSKELLUNGE	P		MG	L	M	1	1.0	0.88	10	0.54	10.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	27	27.0	23.89	850	45.67	31.4
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	5	5.0	4.42	75	4.03	15.0
43-026	COMMON SHINER	I		FD	NGL	E	13	13.0	11.50	130	6.99	10.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	28	28.0	24.78	126	6.77	4.5
43-100	FALLFISH	G		FS	LN	E	31	31.0	27.43	450	24.18	14.5
60-001	BURBOT	C		FD	NGL	S	2	2.0	1.77	110	5.91	55.0
80-003	YELLOW PERCH	C		MG	V	M	5	5.0	4.42	90	4.84	18.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	1	1.0	0.88	20	1.07	20.0

No Species: 9 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 113 **Total Rel. Wt. :** 1861

IBI: 64.7

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 290.60 Date: 07/22/2005

Time Fished: 3519 Distance: 1.000 Drainge (sq mi): 2685.0 Depth: 0

Location: Lat: 47.11551 Long: -69.09279

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-004	MUSKELLUNGE	P		MG	L	M	1	1.0	0.72	5000	55.02	5000.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	10	10.0	7.25	2084	22.93	208.4
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	14	14.0	10.14	1495	16.45	106.7
43-026	COMMON SHINER	I		FD	NGL	E	28	28.0	20.29	82	0.90	2.9
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	27	27.0	19.57	40	0.44	1.4
43-100	FALLFISH	G		FS	LN	E	11	11.0	7.97	41	0.45	3.7
43-110	LAKE CHUB	BI		FD	NGL	S	36	36.0	26.09	262	2.88	7.2
60-001	BURBOT	C		FD	NGL	S	8	8.0	5.80	77	0.85	9.6
90-003	SLIMY SCULPIN	BI		FS	NGL	S	3	3.0	2.17	7	0.08	2.3

No Species: 9 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 138 **Total Rel. Wt. :** 9088

IBI: 74.7

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 303.80 Date: 07/21/2005

Time Fished: 3455 Distance: 1.000 Drainge (sq mi): 2196.0 Depth: 0

Location: Lat: 47.06485 Long: -69.27863

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-004	MUSKELLUNGE	P		MG	L	M	4	4.0	2.05	6000	63.92	1500.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	31	31.0	15.90	2161	23.02	69.7
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.0	0.51	14	0.15	14.0
43-026	COMMON SHINER	I		FD	NGL	E	7	7.0	3.59	19	0.20	2.7
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	92	92.0	47.18	238	2.54	2.5
43-100	FALLFISH	G		FS	LN	E	4	4.0	2.05	45	0.48	11.2
43-110	LAKE CHUB	BI		FD	NGL	S	25	25.0	12.82	284	3.03	11.3
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.51	38	0.40	38.0
60-001	BURBOT	C		FD	NGL	S	10	10.0	5.13	559	5.96	55.9
90-003	SLIMY SCULPIN	BI		FS	NGL	S	20	20.0	10.26	28	0.30	1.4

No Species: 10 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 195 **Total Rel. Wt. :** 9386

IBI: 75.3

Appendix C-3
Fish Species List

River: 30-001 St. John River RM: 314.60 Date: 07/21/2005

Time Fished: 3965 Distance: 1.000 Drainge (sq mi): 2364.0 Depth: 0

Location: Lat: 46.97496 Long: -69.39119

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-004	MUSKELLUNGE	P		MG	L	M	2	2.0	0.87	10500	81.71	5250.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	17	17.0	7.36	248	1.93	14.5
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.0	0.43	39	0.30	39.0
43-026	COMMON SHINER	I		FD	NGL	E	22	22.0	9.52	104	0.81	4.7
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	107	107.0	46.32	282	2.19	2.6
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.43	26	0.20	26.0
43-110	LAKE CHUB	BI		FD	NGL	S	53	53.0	22.94	615	4.79	11.6
60-001	BURBOT	C		FD	NGL	S	10	10.0	4.33	656	5.11	65.6
80-003	YELLOW PERCH	C		MG	V	M	9	9.0	3.90	356	2.77	39.5
90-003	SLIMY SCULPIN	BI		FS	NGL	S	9	9.0	3.90	24	0.19	2.6

No Species: 10 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 231 **Total Rel. Wt. :** 12850

IBI: 72.3

Appendix C-3
Fish Species List

River: 30-100 Meduxnekeag River RM: 16.20 Date: 08/06/2007

Time Fished: 1886 Distance: 0.350 Drainge (sq mi): 260.0 Depth: 0

Location: Carson Rd. Lat: 46.20889 Long: -67.80052

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	2.9	0.60	3999	15.27	1400.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	20	57.1	11.90	5942	22.69	104.0
43-026	COMMON SHINER	I		FD	NGL	E	60	171.4	35.71	74	0.28	0.4
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	16	45.7	9.52	114	0.44	2.5
43-100	FALLFISH	G		FS	LN	E	6	17.1	3.57	17	0.07	1.0
43-110	LAKE CHUB	BI		FD	NGL	S	1	2.9	0.60	45	0.17	16.0
50-001	AMERICAN EEL	C		C		M	1	2.9	0.60	3428	13.09	1200.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	63	180.0	37.50	12570	47.99	69.8

No Species: 8 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 168 **Total Rel. Wt. :** 26192

IBI: 44.1

Appendix C-3
Fish Species List

River: 30-500 Allagash River RM: 1.20 Date: 08/25/2005

Time Fished: 3434 Distance: 0.810 Drainge (sq mi): 1238.0 Depth: 0

Location: Lat: 47.08886 Long: -69.05366

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	7.4	2.94	172	6.06	23.3
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	7	8.7	3.43	581	20.40	67.2
43-013	CREEK CHUB	I	T	MG	L	E	4	4.9	1.96	113	3.98	23.0
43-026	COMMON SHINER	I		FD	NGL	E	40	49.4	19.61	90	3.16	1.8
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	50	61.8	24.51	207	7.28	3.3
43-100	FALLFISH	G		FS	LN	E	44	54.3	21.57	184	6.45	3.3
43-110	LAKE CHUB	BI		FD	NGL	S	36	44.5	17.65	417	14.64	9.3
47-005	BROWN BULLHEAD	G	T	MG	P	E	4	4.9	1.96	197	6.93	40.0
60-001	BURBOT	C		FD	NGL	S	10	12.4	4.90	868	30.45	70.3
90-003	SLIMY SCULPIN	BI		FS	NGL	S	3	3.7	1.47	18	0.65	5.0

No Species: 10 **Nat. Species:** 10 **Hybrids:** 0 **Total Counted:** 204 **Total Rel. Wt. :** 2851

IBI: 64.2

Appendix C-3
Fish Species List

River: 30-500 Allagash River RM: 6.00 Date: 08/25/2005

Time Fished: 4649 Distance: 1.000 Drainge (sq mi): 1227.0 Depth: 0

Location: Lat: 47.03384 Long: -69.07941

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-009	ROUND WHITEFISH	C	I	FD	L	S	1	1.0	0.36	64	0.78	64.0
37-004	MUSKELLUNGE	P		MG	L	M	2	2.0	0.72	6828	83.11	3414.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	1.45	270	3.29	67.5
43-026	COMMON SHINER	I		FD	NGL	E	97	97.0	35.14	188	2.29	1.9
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	112	112.0	40.58	300	3.65	2.6
43-100	FALLFISH	G		FS	LN	E	17	17.0	6.16	55	0.67	3.2
43-110	LAKE CHUB	BI		FD	NGL	S	24	24.0	8.70	245	2.98	10.2
60-001	BURBOT	C		FD	NGL	S	3	3.0	1.09	220	2.68	73.3
90-003	SLIMY SCULPIN	BI		FS	NGL	S	16	16.0	5.80	46	0.56	2.8

No Species: 9 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 276 **Total Rel. Wt. :** 8216

IBI: 75.9

Appendix C-3
Fish Species List

River: 30-500 Allagash River RM: 21.10 Date: 09/15/2006

Time Fished: 4014 Distance: 0.900 Drainge (sq mi): 993.0 Depth: 0

Location: Lat: 46.90700 Long: -69.21200

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	24	26.7	8.48	8911	83.58	334.2
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.1	0.35	5	0.05	5.0
43-013	CREEK CHUB	I	T	MG	L	E	5	5.6	1.77	52	0.49	9.4
43-026	COMMON SHINER	I		FD	NGL	E	25	27.8	8.83	33	0.31	1.2
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	160	177.8	56.54	466	4.38	2.6
43-100	FALLFISH	G		FS	LN	E	38	42.2	13.43	123	1.16	2.9
43-110	LAKE CHUB	BI		FD	NGL	S	2	2.2	0.71	24	0.23	11.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	6	6.7	2.12	144	1.35	21.6
60-001	BURBOT	C		FD	NGL	S	16	17.8	5.65	877	8.23	49.3
90-003	SLIMY SCULPIN	BI		FS	NGL	S	5	5.6	1.77	22	0.21	4.0
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	1	1.1	0.35	1	0.01	1.0

No Species: 11 **Nat. Species:** 11 **Hybrids:** 0 **Total Counted:** 283 **Total Rel. Wt. :** 10662

IBI: 81.1

Appendix C-3
Fish Species List

River: 30-500 Allagash River RM: 25.00 Date: 08/26/2005

Time Fished: 2553 Distance: 1.000 Drainge (sq mi): 969.0 Depth: 0

Location: Lat: 46.86553 Long: -69.24674

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-009	ROUND WHITEFISH	C	I	FD	L	S	1	1.0	0.39	20	0.88	20.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	29	29.0	11.20	912	40.25	31.4
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	3	3.0	1.16	518	22.86	172.6
43-013	CREEK CHUB	I	T	MG	L	E	2	2.0	0.77	10	0.44	5.0
43-026	COMMON SHINER	I		FD	NGL	E	40	40.0	15.44	40	1.77	1.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	138	138.0	53.28	295	13.02	2.1
43-100	FALLFISH	G		FS	LN	E	17	17.0	6.56	26	1.15	1.5
43-110	LAKE CHUB	BI		FD	NGL	S	12	12.0	4.63	162	7.15	13.5
60-001	BURBOT	C		FD	NGL	S	7	7.0	2.70	252	11.12	36.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	8	8.0	3.09	28	1.24	3.5
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	2	2.0	0.77	3	0.13	1.5

No Species: 11 **Nat. Species:** 11 **Hybrids:** 0 **Total Counted:** 259 **Total Rel. Wt. :** 2266

IBI: 87.6

Appendix C-3
Fish Species List

River: 30-500 Allagash River RM: 32.20 Date: 08/26/2005

Time Fished: 3931 Distance: 1.000 Drainge (sq mi): 760.0 Depth: 0

Location: Lat: 46.79867 Long: -69.26958

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	1	1.0	0.20	24	0.27	24.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	91	91.0	18.20	6548	73.68	71.9
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	2	2.0	0.40	24	0.27	12.0
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	0.20	8	0.09	8.0
43-026	COMMON SHINER	I		FD	NGL	E	51	51.0	10.20	42	0.47	0.8
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	155	155.0	31.00	338	3.80	2.1
43-100	FALLFISH	G		FS	LN	E	116	116.0	23.20	357	4.02	3.0
43-110	LAKE CHUB	BI		FD	NGL	S	43	43.0	8.60	395	4.44	9.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	13	13.0	2.60	546	6.14	42.0
60-001	BURBOT	C		FD	NGL	S	21	21.0	4.20	590	6.64	28.1
90-003	SLIMY SCULPIN	BI		FS	NGL	S	6	6.0	1.20	15	0.17	2.5

No Species: 11 **Nat. Species:** 11 **Hybrids:** 0 **Total Counted:** 500 **Total Rel. Wt. :** 8887

IBI: 87.6

Appendix C-3
Fish Species List

River: 30-500 Allagash River RM: 36.80 Date: 08/26/2005

Time Fished: 4007 Distance: 1.000 Drainge (sq mi): 709.0 Depth: 0

Location: Lat: 46.76434 Long: -69.30623

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	12	12.0	3.09	373	18.98	31.0
25-009	ROUND WHITEFISH	C	I	FD	L	S	1	1.0	0.26	16	0.81	16.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	60	60.0	15.46	472	24.02	7.8
43-003	GOLDEN SHINER	G	T	MG	L	E	4	4.0	1.03	10	0.51	2.5
43-013	CREEK CHUB	I	T	MG	L	E	26	26.0	6.70	93	4.73	3.5
43-026	COMMON SHINER	I		FD	NGL	E	82	82.0	21.13	64	3.26	0.7
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	90	90.0	23.20	167	8.50	1.8
43-100	FALLFISH	G		FS	LN	E	56	56.0	14.43	140	7.12	2.5
43-110	LAKE CHUB	BI		FD	NGL	S	34	34.0	8.76	298	15.17	8.7
47-005	BROWN BULLHEAD	G	T	MG	P	E	7	7.0	1.80	67	3.41	9.5
60-001	BURBOT	C		FD	NGL	S	8	8.0	2.06	251	12.77	31.3
90-003	SLIMY SCULPIN	BI		FS	NGL	S	8	8.0	2.06	14	0.71	1.7

No Species: 12 **Nat. Species:** 11 **Hybrids:** 0 **Total Counted:** 388 **Total Rel. Wt. :** 1965

IBI: 87.6

Appendix C-3
Fish Species List

River: 30-500 Allagash River RM: 36.80 Date: 09/14/2006

Time Fished: 4000 Distance: 1.000 Drainge (sq mi): 709.0 Depth: 0

Location: Lat: 46.76434 Long: -69.30623

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	3	3.0	0.67	129	1.97	43.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	51	51.0	11.46	3608	55.13	70.7
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	0.67	5	0.08	1.6
43-013	CREEK CHUB	I	T	MG	L	E	10	10.0	2.25	276	4.22	27.6
43-026	COMMON SHINER	I		FD	NGL	E	174	174.0	39.10	300	4.58	1.7
43-037	BLACKNOSE SHINER	I	R	MG	L	E	4	4.0	0.90	6	0.09	1.5
43-042	FATHEAD MINNOW	G	T	MG	CN	E	1	1.0	0.22	1	0.02	1.0
43-082	Northern Redbelly Dace	G		MG	NGL	M	1	1.0	0.22	1	0.02	1.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	101	101.0	22.70	180	2.75	1.7
43-100	FALLFISH	G		FS	LN	E	47	47.0	10.56	610	9.32	12.9
43-110	LAKE CHUB	BI		FD	NGL	S	11	11.0	2.47	80	1.22	7.2
47-005	BROWN BULLHEAD	G	T	MG	P	E	3	3.0	0.67	235	3.59	78.3
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	3	3.0	0.67	15	0.23	5.0
60-001	BURBOT	C		FD	NGL	S	20	20.0	4.49	1040	15.89	52.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	11	11.0	2.47	55	0.84	5.0
95-004	NINE-SPINE STICKLEBACK	PL		MG	VCN	M	2	2.0	0.45	4	0.06	2.0

No Species: 16 **Nat. Species:** 14 **Hybrids:** 0 **Total Counted:** 445 **Total Rel. Wt. :** 6545

IBI: 87.0

Appendix C-3
Fish Species List

River: 30-500 Allagash River RM: 63.20 Date: 09/16/2006

Time Fished: 4547 Distance: 1.000 Drainge (sq mi): 303.0 Depth: 0

Location: Lat: 46.50600 Long: -69.28500

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	7	7.0	1.61	1335	12.77	190.7
25-009	ROUND WHITEFISH	C	I	FD	L	S	7	7.0	1.61	1280	12.24	182.8
40-016	WHITE SUCKER	I	T	FD	NGL	M	40	40.0	9.17	2031	19.43	50.7
43-003	GOLDEN SHINER	G	T	MG	L	E	7	7.0	1.61	10	0.10	1.4
43-013	CREEK CHUB	I	T	MG	L	E	7	7.0	1.61	50	0.48	7.1
43-026	COMMON SHINER	I		FD	NGL	E	76	76.0	17.43	211	2.02	2.7
43-037	BLACKNOSE SHINER	I	R	MG	L	E	14	14.0	3.21	15	0.14	1.0
43-042	FATHEAD MINNOW	G	T	MG	CN	E	23	23.0	5.28	38	0.36	1.6
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	69	69.0	15.83	100	0.96	1.4
43-100	FALLFISH	G		FS	LN	E	78	78.0	17.89	4100	39.22	52.5
43-110	LAKE CHUB	BI		FD	NGL	S	78	78.0	17.89	660	6.31	8.4
47-005	BROWN BULLHEAD	G	T	MG	P	E	5	5.0	1.15	65	0.62	13.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	7	7.0	1.61	18	0.17	2.5
60-001	BURBOT	C		FD	NGL	S	4	4.0	0.92	525	5.02	131.2
90-003	SLIMY SCULPIN	BI		FS	NGL	S	3	3.0	0.69	10	0.10	3.3
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	10	10.0	2.29	5	0.05	0.5
95-004	NINE-SPINE STICKLEBACK	PL		MG	VCN	M	1	1.0	0.23	1	0.01	1.0

No Species: 17 **Nat. Species:** 15 **Hybrids:** 0 **Total Counted:** 436 **Total Rel. Wt. :** 10454

IBI: 84.6

Appendix C-3
Fish Species List

River: 30-500 Allagash River RM: 64.90 Date: 08/24/2005

Time Fished: 3693 Distance: 0.560 Drainge (sq mi): 302.0 Depth: 0

Location: Lat: 46.50024 Long: -69.27989

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	8	14.3	1.21	1673	9.50	117.1
40-016	WHITE SUCKER	I	T	FD	NGL	M	74	132.2	11.21	7436	42.23	56.2
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	11	19.7	1.67	2321	13.18	118.1
43-003	GOLDEN SHINER	G	T	MG	L	E	182	325.1	27.58	196	1.12	0.6
43-013	CREEK CHUB	I	T	MG	L	E	14	25.0	2.12	96	0.55	3.8
43-026	COMMON SHINER	I		FD	NGL	E	26	46.4	3.94	178	1.01	3.8
43-037	BLACKNOSE SHINER	I	R	MG	L	E	5	8.9	0.76	17	0.10	2.0
43-042	FATHEAD MINNOW	G	T	MG	CN	E	78	139.3	11.82	114	0.65	0.8
43-082	Northern Redbelly Dace	G		MG	NGL	M	11	19.7	1.67	17	0.10	0.9
43-100	FALLFISH	G		FS	LN	E	198	353.6	30.00	3539	20.10	10.0
43-110	LAKE CHUB	BI		FD	NGL	S	30	53.6	4.55	464	2.64	8.6
47-005	BROWN BULLHEAD	G	T	MG	P	E	11	19.7	1.67	1050	5.96	53.4
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	5	8.9	0.76	30	0.17	3.4
60-001	BURBOT	C		FD	NGL	S	2	3.6	0.30	464	2.64	130.0
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	5	8.9	0.76	7	0.04	0.8

No Species: 15 **Nat. Species:** 13 **Hybrids:** 0 **Total Counted:** 660 **Total Rel. Wt. :** 17609

IBI: 72.0

Appendix C-3
Fish Species List

River: 30-600 Fish River RM: 2.40 Date: 07/11/2009

Time Fished: 3368 Distance: 1.000 Drainge (sq mi): 868.9 Depth: 75

Location: Ust. Jelbart Park Lat: 47.23254 Long: -68.57578

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-009	ROUND WHITEFISH	C	I	FD	L	S	3	3.0	2.31	820	5.46	273.3
25-010	ATLANTIC SALMON	C		A	LN	S	9	9.0	6.92	400	2.66	44.4
37-004	MUSKELLUNGE	P		MG	L	M	1	1.0	0.77	6300	41.92	6300.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	20	20.0	15.38	4310	28.68	215.5
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	13	13.0	10.00	2360	15.70	181.5
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	10	10.0	7.69	40	0.27	4.0
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	2.31	20	0.13	6.6
43-037	BLACKNOSE SHINER	I	R	MG	L	E	1	1.0	0.77	10	0.07	10.0
43-100	FALLFISH	G		FS	LN	E	58	58.0	44.62	413	2.75	7.1
43-110	LAKE CHUB	BI		FD	NGL	S	4	4.0	3.08	36	0.24	9.0
60-001	BURBOT	C		FD	NGL	S	4	4.0	3.08	180	1.20	45.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.77	100	0.67	100.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	3	3.0	2.31	40	0.27	13.3

No Species: 13 **Nat. Species:** 11 **Hybrids:** 0 **Total Counted:** 130 **Total Rel. Wt. :** 15029

IBI: 74.2

Appendix C-3
Fish Species List

River: 30-600 Fish River RM: 5.00 Date: 09/12/2006

Time Fished: 7332 Distance: 1.000 Drainge (sq mi): 1058.2 Depth: 0

Location: Lat: 47.20700 Long: -68.58600

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	32	32.0	10.32	4540	26.30	141.8
40-016	WHITE SUCKER	I	T	FD	NGL	M	42	42.0	13.55	7524	43.59	179.1
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	7	7.0	2.26	1215	7.04	173.5
43-013	CREEK CHUB	I	T	MG	L	E	3	3.0	0.97	63	0.36	21.0
43-026	COMMON SHINER	I		FD	NGL	E	98	98.0	31.61	553	3.20	5.6
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	12	12.0	3.87	40	0.23	3.3
43-100	FALLFISH	G		FS	LN	E	14	14.0	4.52	90	0.52	6.4
43-110	LAKE CHUB	BI		FD	NGL	S	34	34.0	10.97	332	1.92	9.7
47-005	BROWN BULLHEAD	G	T	MG	P	E	7	7.0	2.26	631	3.66	90.1
60-001	BURBOT	C		FD	NGL	S	10	10.0	3.23	1280	7.42	128.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	44	44.0	14.19	927	5.37	21.0
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	0.97	31	0.18	10.3
90-003	SLIMY SCULPIN	BI		FS	NGL	S	4	4.0	1.29	35	0.20	8.7

No Species: 13 **Nat. Species:** 10 **Hybrids:** 0 **Total Counted:** 310 **Total Rel. Wt. :** 17261

IBI: 66.8

Appendix C-3
Fish Species List

River: 30-600 Fish River RM: 8.10 Date: 09/13/2006

Time Fished: 5832 Distance: 1.000 Drainge (sq mi): 1010.2 Depth: 0

Location: Lat: 47.17000 Long: -68.58500

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	17	17.0	5.80	5975	24.10	351.4
25-009	ROUND WHITEFISH	C	I	FD	L	S	1	1.0	0.34	325	1.31	325.0
25-011	LANDLOCKED SALMON	C		FD	LN	S	43	43.0	14.68	2850	11.50	66.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	45	45.0	15.36	14975	60.40	332.7
43-013	CREEK CHUB	I	T	MG	L	E	15	15.0	5.12	280	1.13	18.6
43-026	COMMON SHINER	I		FD	NGL	E	12	12.0	4.10	8	0.03	0.6
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	103	103.0	35.15	150	0.61	1.4
43-100	FALLFISH	G		FS	LN	E	21	21.0	7.17	30	0.12	1.4
43-110	LAKE CHUB	BI		FD	NGL	S	21	21.0	7.17	110	0.44	5.2
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.34	3	0.01	3.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.34	3	0.01	3.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	13	13.0	4.44	82	0.33	6.3

No Species: 12 **Nat. Species:** 11 **Hybrids:** 0 **Total Counted:** 293 **Total Rel. Wt. :** 24791

IBI: 81.1

Appendix C-3
Fish Species List

River: 30-800 Aroostook River RM: 4.60 Date: 07/18/2005

Time Fished: 2503 Distance: 1.000 Drainge (sq mi): 2340.0 Depth: 0

Location: Lat: 46.79316 Long: -67.79511

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	7	7.0	2.43	1605	30.40	229.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	114	114.0	39.58	1994	37.77	17.4
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.0	0.35	6	0.11	6.0
43-026	COMMON SHINER	I		FD	NGL	E	77	77.0	26.74	713	13.51	9.2
43-042	FATHEAD MINNOW	G	T	MG	CN	E	3	3.0	1.04	10	0.19	3.3
43-082	Northern Redbelly Dace	G		MG	NGL	M	1	1.0	0.35	2	0.04	2.0
43-100	FALLFISH	G		FS	LN	E	14	14.0	4.86	319	6.04	22.7
43-110	LAKE CHUB	BI		FD	NGL	S	3	3.0	1.04	9	0.17	3.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	3	3.0	1.04	552	10.46	184.0
80-003	YELLOW PERCH	C		MG	V	M	64	64.0	22.22	68	1.29	1.0
95-001	BROOK STICKLEBACK	I		MG	VCN	M	1	1.0	0.35	1	0.02	1.0

No Species: 11 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 288 **Total Rel. Wt. :** 5279

IBI: 72.7

Appendix C-3
Fish Species List

River: 30-800 Aroostook River RM: 9.80 Date: 07/18/2005

Time Fished: 4284 Distance: 1.000 Drainge (sq mi): 2275.0 Depth: 0

Location: Lat: 46.79769 Long: -67.86212

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	3	3.0	0.76	226	1.56	75.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	31	31.0	7.87	11928	82.43	384.7
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	0.25	2	0.01	2.0
43-026	COMMON SHINER	I		FD	NGL	E	14	14.0	3.55	13	0.09	0.9
43-042	FATHEAD MINNOW	G	T	MG	CN	E	6	6.0	1.52	5	0.03	0.8
43-082	Northern Redbelly Dace	G		MG	NGL	M	34	34.0	8.63	44	0.30	1.2
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	74	74.0	18.78	134	0.93	1.8
43-100	FALLFISH	G		FS	LN	E	2	2.0	0.51	10	0.07	5.0
43-110	LAKE CHUB	BI		FD	NGL	S	191	191.0	48.48	800	5.53	4.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	6	6.0	1.52	662	4.57	110.3
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	7	7.0	1.78	15	0.10	2.1
60-001	BURBOT	C		FD	NGL	S	5	5.0	1.27	600	4.15	120.0
80-003	YELLOW PERCH	C		MG	V	M	5	5.0	1.27	6	0.04	1.2
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	15	15.0	3.81	26	0.18	1.7

No Species: 14 **Nat. Species:** 12 **Hybrids:** 0 **Total Counted:** 394 **Total Rel. Wt. :** 14471

IBI: 84.9

Appendix C-3
Fish Species List

River: 30-800 Aroostook River RM: 15.40 Date: 08/22/2005

Time Fished: 2962 Distance: 1.000 Drainge (sq mi): 2260.0 Depth: 0

Location: Lat: 46.84230 Long: -67.94507

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	3	3.0	2.17	152	1.13	50.6
25-011	LANDLOCKED SALMON	C		FD	LN	S	3	3.0	2.17	443	3.30	147.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	27	27.0	19.57	12618	93.87	467.3
43-026	COMMON SHINER	I		FD	NGL	E	4	4.0	2.90	7	0.05	1.7
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	93	93.0	67.39	164	1.22	1.7
43-100	FALLFISH	G		FS	LN	E	5	5.0	3.62	24	0.18	4.8
43-110	LAKE CHUB	BI		FD	NGL	S	2	2.0	1.45	17	0.13	8.5
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.72	17	0.13	17.0

No Species: 8 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 138 **Total Rel. Wt. :** 13442

IBI: 88.0

Appendix C-3
Fish Species List

River: 30-800 Aroostook River RM: 19.70 Date: 08/22/2005

Time Fished: 2962 Distance: 1.000 Drainge (sq mi): 1975.0 Depth: 0

Location: Lat: 46.85868 Long: -68.00085

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	2	2.0	0.69	604	40.48	302.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	0.69	44	2.95	22.0
43-026	COMMON SHINER	I		FD	NGL	E	186	186.0	64.58	198	13.27	1.0
43-042	FATHEAD MINNOW	G	T	MG	CN	E	1	1.0	0.35	2	0.13	2.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	45	45.0	15.63	116	7.77	2.5
43-100	FALLFISH	G		FS	LN	E	10	10.0	3.47	28	1.88	2.8
43-110	LAKE CHUB	BI		FD	NGL	S	36	36.0	12.50	140	9.38	3.8
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.35	168	11.26	168.0
60-001	BURBOT	C		FD	NGL	S	2	2.0	0.69	180	12.06	90.0
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	1.04	12	0.80	4.0

No Species: 10 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 288 **Total Rel. Wt. :** 1492

IBI: 78.3

Appendix C-3
Fish Species List

River: 30-800 Aroostook River RM: 21.70 Date: 07/20/2005

Time Fished: 2509 Distance: 1.000 Drainge (sq mi): 1915.0 Depth: 0

Location: Lat: 46.83119 Long: -67.99218

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	25	25.0	12.14	3478	80.08	139.1
40-016	WHITE SUCKER	I	T	FD	NGL	M	8	8.0	3.88	113	2.60	14.1
43-013	CREEK CHUB	I	T	MG	L	E	2	2.0	0.97	6	0.14	3.0
43-026	COMMON SHINER	I		FD	NGL	E	101	101.0	49.03	667	15.36	6.6
43-082	Northern Redbelly Dace	G		MG	NGL	M	1	1.0	0.49	1	0.02	1.0
43-100	FALLFISH	G		FS	LN	E	67	67.0	32.52	70	1.61	1.0
43-110	LAKE CHUB	BI		FD	NGL	S	2	2.0	0.97	8	0.18	4.0

No Species: 7 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 206 **Total Rel. Wt. :** 4343

IBI: 64.3

Appendix C-3
Fish Species List

River: 30-800 Aroostook River RM: 33.60 Date: 07/20/2005

Time Fished: 2676 Distance: 1.000 Drainge (sq mi): 1872.0 Depth: 0

Location: Lat: 46.70030 Long: -68.00177

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	59	59.0	27.57	34603	94.14	586.4
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	2	2.0	0.93	306	0.83	153.0
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	0.47	2	0.01	2.0
43-026	COMMON SHINER	I		FD	NGL	E	24	24.0	11.21	112	0.30	4.6
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	77	77.0	35.98	179	0.49	2.3
43-100	FALLFISH	G		FS	LN	E	34	34.0	15.89	796	2.17	23.4
43-110	LAKE CHUB	BI		FD	NGL	S	4	4.0	1.87	7	0.02	1.7
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.47	8	0.02	8.0
60-001	BURBOT	C		FD	NGL	S	7	7.0	3.27	368	1.00	52.5
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	1.87	374	1.02	93.5
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	1	1.0	0.47	2	0.01	2.0

No Species: 11 **Nat. Species:** 10 **Hybrids:** 0 **Total Counted:** 214 **Total Rel. Wt. :** 36757

IBI: 70.9

Appendix C-3
Fish Species List

River: 30-800 Aroostook River RM: 44.00 Date: 07/20/2005

Time Fished: 4091 Distance: 1.000 Drainge (sq mi): 1598.0 Depth: 0

Location: Lat: 46.77722 Long: -68.15941

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	5	5.0	1.82	350	2.90	70.0
25-011	LANDLOCKED SALMON	C		FD	LN	S	1	1.0	0.36	26	0.22	26.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	56	56.0	20.44	10680	88.39	190.7
43-013	CREEK CHUB	I	T	MG	L	E	2	2.0	0.73	8	0.07	4.0
43-026	COMMON SHINER	I		FD	NGL	E	33	33.0	12.04	54	0.45	1.6
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	110	110.0	40.15	252	2.09	2.2
43-100	FALLFISH	G		FS	LN	E	12	12.0	4.38	40	0.33	3.3
43-110	LAKE CHUB	BI		FD	NGL	S	35	35.0	12.77	300	2.48	8.5
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	0.73	159	1.32	79.5
60-001	BURBOT	C		FD	NGL	S	5	5.0	1.82	191	1.58	38.2
90-003	SLIMY SCULPIN	BI		FS	NGL	S	1	1.0	0.36	2	0.02	2.0
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	10	10.0	3.65	18	0.15	1.8
95-004	NINE-SPINE STICKLEBACK	PL		MG	VCN	M	2	2.0	0.73	3	0.02	1.5

No Species: 13 **Nat. Species:** 12 **Hybrids:** 0 **Total Counted:** 274 **Total Rel. Wt. :** 12083

IBI: 91.6

Appendix C-3
Fish Species List

River: 30-800 Aroostook River RM: 65.30 Date: 07/19/2005

Time Fished: 3463 Distance: 0.900 Drainge (sq mi): 1405.0 Depth: 0

Location: Lat: 46.63400 Long: -68.41787

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	20	22.2	16.39	10525	92.01	473.7
43-026	COMMON SHINER	I		FD	NGL	E	14	15.6	11.48	76	0.67	4.9
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	59	65.6	48.36	162	1.42	2.4
43-100	FALLFISH	G		FS	LN	E	9	10.0	7.38	86	0.76	8.6
43-110	LAKE CHUB	BI		FD	NGL	S	11	12.2	9.02	122	1.07	10.0
60-001	BURBOT	C		FD	NGL	S	9	10.0	7.38	466	4.08	46.6

No Species: 6 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 122 **Total Rel. Wt. :** 11439

IBI: 78.8

Appendix C-3
Fish Species List

River: 30-800 Aroostook River RM: 76.60 Date: 07/19/2005

Time Fished: 3292 Distance: 0.580 Drainge (sq mi): 855.0 Depth: 0

Location: Lat: 46.50512 Long: -68.36220

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	2	3.5	1.02	37	0.31	11.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	34	58.6	17.26	9697	79.83	165.4
43-026	COMMON SHINER	I		FD	NGL	E	60	103.4	30.46	294	2.43	2.8
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	57	98.3	28.93	255	2.10	2.6
43-100	FALLFISH	G		FS	LN	E	5	8.6	2.54	155	1.28	18.0
43-110	LAKE CHUB	BI		FD	NGL	S	24	41.4	12.18	368	3.04	8.9
60-001	BURBOT	C		FD	NGL	S	12	20.7	6.09	1143	9.41	55.2
77-030	REDBREAST SUNFISH	I		MG	PN	E	3	5.2	1.52	194	1.60	37.6

No Species: 8 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 197 **Total Rel. Wt. :** 12147

IBI: 77.6

Appendix C-3
Fish Species List

River: 30-800 Aroostook River RM: 91.80 Date: 07/13/2009

Time Fished: 2746 Distance: 1.000 Drainge (sq mi): 492.9 Depth: 150

Location: 2 Miles Ust. Oxbow Lat: 46.42470 Long: -68.50872

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	8	8.0	2.78	1090	15.30	136.2
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	0.35	20	0.28	20.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	57	57.0	19.79	4160	58.41	72.9
43-026	COMMON SHINER	I		FD	NGL	E	101	101.0	35.07	536	7.53	5.3
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	12	12.0	4.17	25	0.35	2.0
43-100	FALLFISH	G		FS	LN	E	86	86.0	29.86	490	6.88	5.7
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	0.69	60	0.84	30.0
60-001	BURBOT	C		FD	NGL	S	8	8.0	2.78	372	5.22	46.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.35	70	0.98	70.0
80-003	YELLOW PERCH	C		MG	V	M	10	10.0	3.47	275	3.86	27.5
90-003	SLIMY SCULPIN	BI		FS	NGL	S	1	1.0	0.35	10	0.14	10.0
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	1	1.0	0.35	14	0.20	14.0

No Species: 12 **Nat. Species:** 11 **Hybrids:** 0 **Total Counted:** 288 **Total Rel. Wt. :** 7122

IBI: 76.3

Appendix C-3
Fish Species List

River: 30-800 Aroostook River RM: 94.00 Date: 07/19/2005

Time Fished: 3185 Distance: 0.830 Drainge (sq mi): 560.0 Depth: 0

Location: Lat: 46.42738 Long: -68.55599

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.8	1.87	756	29.58	157.0
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.2	0.47	3	0.14	3.0
43-013	CREEK CHUB	I	T	MG	L	E	3	3.6	1.40	22	0.89	6.3
43-026	COMMON SHINER	I		FD	NGL	E	13	15.7	6.07	48	1.88	3.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	121	145.8	56.54	361	14.13	2.4
43-100	FALLFISH	G		FS	LN	E	28	33.7	13.08	338	13.24	10.0
43-110	LAKE CHUB	BI		FD	NGL	S	26	31.3	12.15	313	12.25	10.0
60-001	BURBOT	C		FD	NGL	S	15	18.1	7.01	682	26.66	37.7
90-003	SLIMY SCULPIN	BI		FS	NGL	S	3	3.6	1.40	31	1.22	8.6

No Species: 9 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 214 **Total Rel. Wt. :** 2558

IBI: 80.2

Appendix C-3
Fish Species List

River: 35-001 Machias River RM: 7.20 Date: 09/21/2008

Time Fished: 4751 Distance: 1.000 Drainge (sq mi): 547.1 Depth: 260

Location: UST boat ramp, Whitneyville, ME Lat: 44.73738 Long: -67.54989

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	3	3.0	3.66	30	1.15	10.0
37-002	CHAIN PICKEREL	P		MG	L	M	32	32.0	39.02	780	29.81	24.3
43-003	GOLDEN SHINER	G	T	MG	L	E	28	28.0	34.15	52	1.99	1.8
43-013	CREEK CHUB	I	T	MG	L	E	8	8.0	9.76	120	4.59	15.0
43-100	FALLFISH	G		FS	LN	E	2	2.0	2.44	20	0.76	10.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	1.22	2	0.08	2.0
50-001	AMERICAN EEL	C		C		M	5	5.0	6.10	1037	39.63	207.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	2	2.0	2.44	570	21.78	285.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	1.22	6	0.23	6.0

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 82 **Total Rel. Wt. :** 2617

IBI: 30.4

Appendix C-3
Fish Species List

River: 35-001 Machias River RM: 10.40 Date: 09/21/2008

Time Fished: 4751 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 260

Location: Lat: 44.73738 Long: -67.54989

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	3	3.0	3.66	30	1.15	10.0
37-002	CHAIN PICKEREL	P		MG	L	M	32	32.0	39.02	780	29.81	24.3
43-003	GOLDEN SHINER	G	T	MG	L	E	28	28.0	34.15	52	1.99	1.8
43-013	CREEK CHUB	I	T	MG	L	E	8	8.0	9.76	120	4.59	15.0
43-100	FALLFISH	G		FS	LN	E	2	2.0	2.44	20	0.76	10.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	1.22	2	0.08	2.0
50-001	AMERICAN EEL	C		C		M	5	5.0	6.10	1037	39.63	207.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	2	2.0	2.44	570	21.78	285.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	1.22	6	0.23	6.0

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 82 **Total Rel. Wt. :** 2617

IBI: 30.4

Appendix C-3
Fish Species List

River: 40-001 St. Croix River (ust. Milltown Dam) RM: 1.10 Date: 09/21/2005

Time Fished: 3543 Distance: 1.000 Drainge (sq mi): 1460.0 Depth: 0

Location: Lat: 45.16686 Long: -67.29959

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	8	8.0	4.97	40	1.55	5.0
37-002	CHAIN PICKEREL	P		MG	L	M	5	5.0	3.11	253	9.82	50.6
43-003	GOLDEN SHINER	G	T	MG	L	E	31	31.0	19.25	65	2.52	2.1
43-026	COMMON SHINER	I		FD	NGL	E	6	6.0	3.73	12	0.47	2.0
43-100	FALLFISH	G		FS	LN	E	3	3.0	1.86	45	1.75	15.0
50-001	AMERICAN EEL	C		C		M	25	25.0	15.53	812	31.52	32.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	35	35.0	21.74	547	21.23	15.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	48	48.0	29.81	802	31.13	16.7

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 161 **Total Rel. Wt. :** 2576

IBI: 31.3

Appendix C-3
Fish Species List

River: 40-001 St. Croix River (ust. Milltown Dam) RM: 4.30 Date: 09/21/2005

Time Fished: 4743 Distance: 1.000 Drainge (sq mi): 1378.0 Depth: 0

Location: Lat: 45.13328 Long: -67.31956

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.48	84	0.71	42.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	0.48	1750	14.70	875.0
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.48	89	0.75	44.5
43-026	COMMON SHINER	I		FD	NGL	E	120	120.0	28.57	68	0.57	0.5
43-100	FALLFISH	G		FS	LN	E	82	82.0	19.52	1750	14.70	21.3
50-001	AMERICAN EEL	C		C		M	148	148.0	35.24	3800	31.91	25.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	45	45.0	10.71	3889	32.66	86.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	19	19.0	4.52	477	4.01	25.1

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 420 **Total Rel. Wt. :** 11907

IBI: 46.1

Appendix C-3
Fish Species List

River: 40-001 St. Croix River (ust. Milltown Dam) RM: 7.40 Date: 09/21/2005

Time Fished: 4161 Distance: 1.000 Drainge (sq mi): 1357.0 Depth: 0

Location: Lat: 45.13926 Long: -67.36704

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	68	68.0	33.01	19950	79.14	293.3
43-003	GOLDEN SHINER	G	T	MG	L	E	7	7.0	3.40	267	1.06	38.1
43-026	COMMON SHINER	I		FD	NGL	E	8	8.0	3.88	44	0.17	5.5
43-100	FALLFISH	G		FS	LN	E	59	59.0	28.64	2660	10.55	45.0
50-001	AMERICAN EEL	C		C		M	47	47.0	22.82	1800	7.14	38.3
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.49	6	0.02	6.0
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.49	52	0.21	52.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	9	9.0	4.37	205	0.81	22.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	2.91	225	0.89	37.5

No Species: 9 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 206 **Total Rel. Wt. :** 25209

IBI: 53.2

Appendix C-3
Fish Species List

River: 40-001 St. Croix River (ust. Milltown Dam) RM: 8.90 Date: 08/31/2005

Time Fished: 4056 Distance: 1.000 Drainge (sq mi): 1347.0 Depth: 0

Location: Lat: 45.15371 Long: -67.39019

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	3	3.0	0.79	6	0.02	2.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	90	90.0	23.81	19564	60.68	217.3
43-003	GOLDEN SHINER	G	T	MG	L	E	41	41.0	10.85	771	2.39	18.8
43-026	COMMON SHINER	I		FD	NGL	E	27	27.0	7.14	185	0.57	6.8
43-100	FALLFISH	G		FS	LN	E	70	70.0	18.52	3038	9.42	43.4
47-005	BROWN BULLHEAD	G	T	MG	P	E	5	5.0	1.32	1110	3.44	222.0
50-001	AMERICAN EEL	C		C		M	50	50.0	13.23	3141	9.74	62.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	55	55.0	14.55	3394	10.53	61.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	36	36.0	9.52	988	3.06	27.4
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.26	43	0.13	43.0

No Species: 10 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 378 **Total Rel. Wt. :** 32240

IBI: 45.9

Appendix C-3
Fish Species List

River: 40-001 St. Croix River (ust. Milltown Dam) RM: 9.30 Date: 08/31/2005

Time Fished: 3605 Distance: 1.000 Drainge (sq mi): 1324.0 Depth: 0

Location: Lat: 45.15581 Long: -67.39546

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	2	2.0	0.65	4	0.05	2.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	1.63	892	10.22	178.4
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.65	11	0.13	5.5
43-026	COMMON SHINER	I		FD	NGL	E	8	8.0	2.61	44	0.50	5.5
43-100	FALLFISH	G		FS	LN	E	33	33.0	10.78	786	9.01	23.8
50-001	AMERICAN EEL	C		C		M	151	151.0	49.35	2650	30.38	17.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	92	92.0	30.07	4129	47.33	44.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	13	13.0	4.25	208	2.38	16.0

No Species: 8 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 306 **Total Rel. Wt. :** 8724

IBI: 38.5

Appendix C-3
Fish Species List

River: 40-001 St. Croix River (ust. Milltown Dam) RM: 15.90 Date: 08/30/2005

Time Fished: 3391 Distance: 1.000 Drainge (sq mi): 1310.0 Depth: 0

Location: Lat: 45.23032 Long: -67.44448

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	4	4.0	1.77	10	0.27	2.5
37-002	CHAIN PICKEREL	P		MG	L	M	11	11.0	4.87	725	19.53	65.9
43-003	GOLDEN SHINER	G	T	MG	L	E	67	67.0	29.65	1060	28.56	15.8
43-026	COMMON SHINER	I		FD	NGL	E	11	11.0	4.87	22	0.59	2.0
43-100	FALLFISH	G		FS	LN	E	73	73.0	32.30	85	2.29	1.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.44	178	4.80	178.0
50-001	AMERICAN EEL	C		C		M	6	6.0	2.65	250	6.73	41.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	11.0	4.87	358	9.64	32.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	12	12.0	5.31	518	13.95	43.1
80-003	YELLOW PERCH	C		MG	V	M	30	30.0	13.27	506	13.63	16.8

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 226 **Total Rel. Wt. :** 3712

IBI: 39.6

Appendix C-3
Fish Species List

River: 40-001 St. Croix River (ust. Milltown Dam) RM: 18.90 Date: 08/30/2005

Time Fished: 4148 Distance: 1.000 Drainge (sq mi): 1301.0 Depth: 0

Location: Lat: 45.26474 Long: -67.47582

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	2	2.0	0.66	300	2.00	150.0
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.66	800	5.32	400.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	1.99	3511	23.35	585.1
43-003	GOLDEN SHINER	G	T	MG	L	E	23	23.0	7.64	160	1.06	6.9
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.33	3	0.02	3.0
43-100	FALLFISH	G		FS	LN	E	54	54.0	17.94	1170	7.78	21.6
50-001	AMERICAN EEL	C		C		M	19	19.0	6.31	3608	23.99	189.8
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.33	3	0.02	3.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	180	180.0	59.80	4545	30.23	25.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	11	11.0	3.65	735	4.89	66.8
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	0.66	202	1.34	101.0

No Species: 11 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 301 **Total Rel. Wt. :** 15037

IBI: 37.0

Appendix C-3
Fish Species List

River: 40-001 St. Croix River (ust. Milltown Dam) RM: 19.30 Date: 08/30/2005

Time Fished: 2895 Distance: 0.600 Drainge (sq mi): 1299.0 Depth: 0

Location: Lat: 45.26865 Long: -67.47676

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.7	0.83	1	0.02	1.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	3.3	1.65	210	2.91	63.0
50-001	AMERICAN EEL	C		C		M	12	20.0	9.92	1875	25.94	93.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	96	160.0	79.34	4467	61.79	27.9
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	10	16.7	8.26	675	9.34	40.5

No Species: 5 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 121 **Total Rel. Wt. :** 7229

IBI: 18.3

Appendix C-3
Fish Species List

River: 40-001 St. Croix River (ust. Milltown Dam) RM: 23.50 Date: 09/20/2005

Time Fished: 3732 Distance: 1.000 Drainge (sq mi): 633.0 Depth: 0

Location: Lat: 45.29941 Long: -67.46245

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	3	3.0	2.01	247	3.16	82.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	6.04	2755	35.20	306.1
43-026	COMMON SHINER	I		FD	NGL	E	11	11.0	7.38	42	0.54	3.8
43-100	FALLFISH	G		FS	LN	E	31	31.0	20.81	508	6.49	16.3
50-001	AMERICAN EEL	C		C		M	1	1.0	0.67	90	1.15	90.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	70	70.0	46.98	3537	45.20	50.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	4.03	85	1.09	14.1
80-003	YELLOW PERCH	C		MG	V	M	18	18.0	12.08	562	7.18	31.2

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 149 **Total Rel. Wt. :** 7826

IBI: 37.7

Appendix C-3
Fish Species List

River: 40-001 St. Croix River (ust. Milltown Dam) RM: 30.30 Date: 09/20/2005

Time Fished: 5324 Distance: 1.000 Drainge (sq mi): 500.0 Depth: 0

Location: Lat: 45.37389 Long: -67.42204

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	3	3.0	0.99	538	1.03	179.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	1.32	369	0.71	92.2
43-003	GOLDEN SHINER	G	T	MG	L	E	12	12.0	3.97	18	0.03	1.5
43-026	COMMON SHINER	I		FD	NGL	E	48	48.0	15.89	25	0.05	0.5
43-100	FALLFISH	G		FS	LN	E	141	141.0	46.69	1585	3.04	11.2
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.33	115	0.22	115.0
50-001	AMERICAN EEL	C		C		M	3	3.0	0.99	44988	86.35	14996.0
74-003	WHITE PERCH	C		MG	L	M	2	2.0	0.66	73	0.14	36.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	86	86.0	28.48	4337	8.32	50.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.66	51	0.10	25.5

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 302 **Total Rel. Wt. :** 52099

IBI: 40.8

Appendix C-3
Fish Species List

River: 40-001 St. Croix River (ust. Milltown Dam) RM: 36.00 Date: 08/29/2005

Time Fished: 2307 Distance: 1.000 Drainge (sq mi): 495.0 Depth: 0

Location: Lat: 45.43585 Long: -67.47863

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	2	2.0	2.94	135	2.57	67.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	2.94	1500	28.53	750.0
43-100	FALLFISH	G		FS	LN	E	27	27.0	39.71	128	2.43	4.7
50-001	AMERICAN EEL	C		C		M	2	2.0	2.94	750	14.27	375.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	35	35.0	51.47	2744	52.20	78.4

No Species: 5 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 68 **Total Rel. Wt. :** 5257

IBI: 37.1

Appendix C-3
Fish Species List

River: 40-001 St. Croix River (ust. Milltown Dam) RM: 44.10 Date: 08/29/2005

Time Fished: 4030 Distance: 1.000 Drainge (sq mi): 451.0 Depth: 0

Location: Lat: 45.50600 Long: -67.46921

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	1	1.0	0.48	2	0.00	2.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.48	275	0.35	275.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	7	7.0	3.38	898	1.14	128.2
43-026	COMMON SHINER	I		FD	NGL	E	33	33.0	15.94	28	0.04	0.8
43-100	FALLFISH	G		FS	LN	E	90	90.0	43.48	74791	95.32	831.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	70	70.0	33.82	2367	3.02	33.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	5.0	2.42	105	0.13	21.0

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 207 **Total Rel. Wt. :** 78466

IBI: 43.9

Appendix C-3
Fish Species List

River: 40-001 St. Croix River (ust. Milltown Dam) RM: 53.90 Date: 08/28/2005

Time Fished: 4097 Distance: 1.000 Drainge (sq mi): 414.0 Depth: 0

Location: Lat: 45.56196 Long: -67.42699

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	2	2.0	0.28	14	0.13	7.0
25-011	LANDLOCKED SALMON	C		FD	LN	S	8	8.0	1.11	1025	9.48	128.1
30-001	RAINBOW SMELT	I		A	L	M	1	1.0	0.14	4	0.04	4.0
37-002	CHAIN PICKEREL	P		MG	L	M	12	12.0	1.67	150	1.39	12.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	42	42.0	5.83	4338	40.14	103.2
43-003	GOLDEN SHINER	G	T	MG	L	E	33	33.0	4.58	28	0.26	0.8
43-026	COMMON SHINER	I		FD	NGL	E	463	463.0	64.31	915	8.47	1.9
43-100	FALLFISH	G		FS	LN	E	89	89.0	12.36	2230	20.63	25.0
50-001	AMERICAN EEL	C		C		M	1	1.0	0.14	350	3.24	350.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.14	46	0.43	46.0
74-003	WHITE PERCH	C		MG	L	M	17	17.0	2.36	811	7.50	47.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	40	40.0	5.56	572	5.29	14.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	5.0	0.69	60	0.56	12.0
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	0.83	265	2.45	44.1

No Species: 14 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 720 **Total Rel. Wt. :** 10808

IBI: 65.4

Appendix C-3
Fish Species List

River: 41-001 St. Croix River (dst. Milltown Dam) RM: 0.60 Date: 08/31/2005

Time Fished: 0 Distance: 1.000 Drainge (sq mi): 1462.0 Depth: 0

Location: Lat: 45.18136 Long: -67.29085

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.52	2	0.02	2.0
43-100	FALLFISH	G		FS	LN	E	17	17.0	8.85	122	1.03	7.1
50-001	AMERICAN EEL	C		C		M	129	129.0	67.19	1654	13.90	12.8
74-002	STRIPED BASS	P		A	L	M	2	2.0	1.04	4660	39.16	2330.0
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.52	61	0.51	61.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	41	41.0	21.35	5371	45.14	131.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.52	29	0.24	29.0

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 192 **Total Rel. Wt. :** 11899

IBI: 33.2

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 0.10 Date: 09/25/2008

Time Fished: 4485 Distance: 1.000 Drainge (sq mi): 5469.0 Depth: 300

Location: Lat: 44.33058 Long: -69.76851

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	10	10.0	5.65	110	0.18	11.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	11	11.0	6.21	8390	14.03	762.7
43-028	SPOTTAIL SHINER	I	P	MG	L	E	7	7.0	3.95	10	0.02	1.4
43-100	FALLFISH	G		FS	LN	E	11	11.0	6.21	30	0.05	2.7
47-003	WHITE CATFISH	I		MG	P	E	2	2.0	1.13	230	0.38	115.0
50-001	AMERICAN EEL	C		C		M	30	30.0	16.95	2536	4.24	84.5
74-002	STRIPED BASS	P		A	L	M	18	18.0	10.17	42740	71.45	2374.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	66	66.0	37.29	5335	8.92	80.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	1.13	10	0.02	5.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	20	20.0	11.30	424	0.71	21.2

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 177 **Total Rel. Wt. :** 59815

IBI: 29.3

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 0.10 Date: 10/03/2009

Time Fished: 2760 Distance: 1.000 Drainge (sq mi): 5469.0 Depth: 230

Location: Lat: 44.33058 Long: -69.76851

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	6	6.0	9.52	100	1.91	16.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	3.17	1600	30.57	800.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	5	5.0	7.94	12	0.23	2.4
43-100	FALLFISH	G		FS	LN	E	22	22.0	34.92	72	1.38	3.2
50-001	AMERICAN EEL	C		C		M	10	10.0	15.87	880	16.81	88.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	17	17.0	26.98	2510	47.96	147.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	1.59	60	1.15	60.0

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 63 **Total Rel. Wt. :** 5234

IBI: 23.7

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 4.00 Date: 08/13/2002

Time Fished: 3460 Distance: 1.150 Drainge (sq mi): 5450.0 Depth: 0

Location: Lat: 44.37756 Long: -69.72866

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	131	114.0	14.69	755	1.60	6.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	82	71.3	9.19	27203	57.75	381.3
43-003	GOLDEN SHINER	G	T	MG	L	E	12	10.4	1.35	127	0.27	12.1
43-028	SPOTTAIL SHINER	I	P	MG	L	E	143	124.4	16.03	586	1.24	4.7
43-100	FALLFISH	G		FS	LN	E	1	0.9	0.11	4	0.01	5.0
47-003	WHITE CATFISH	I		MG	P	E	4	3.5	0.45	464	0.99	133.5
50-001	AMERICAN EEL	C		C		M	241	209.7	27.02	4067	8.63	19.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	126	109.6	14.13	10987	23.32	100.2
77-006	LARGEMOUTH BASS	C		MG	PN	E	16	13.9	1.79	95	0.20	6.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	4.4	0.56	81	0.17	18.8
77-030	REDBREAST SUNFISH	I		MG	PN	E	128	111.4	14.35	2664	5.66	23.9
80-003	YELLOW PERCH	C		MG	V	M	3	2.6	0.34	69	0.15	26.6

No Species: 12 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 892 **Total Rel. Wt. :** 47107

IBI: 29.1

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 4.00 Date: 09/23/2002

Time Fished: 3075 Distance: 1.150 Drainge (sq mi): 5450.0 Depth: 0

Location: Lat: 44.37756 Long: -69.72866

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	116	100.9	9.85	1547	1.56	15.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	55	47.9	4.67	21759	22.00	454.7
43-028	SPOTTAIL SHINER	I	P	MG	L	E	290	252.3	24.62	1541	1.56	6.1
43-100	FALLFISH	G		FS	LN	E	3	2.6	0.25	15	0.02	6.0
50-001	AMERICAN EEL	C		C		M	354	308.0	30.05	5459	5.52	17.7
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	8	7.0	0.68	16	0.02	2.3
74-002	STRIPED BASS	P		A	L	M	23	20.0	1.95	48546	49.08	2426.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	103	89.6	8.74	16127	16.31	179.9
77-006	LARGEMOUTH BASS	C		MG	PN	E	51	44.4	4.33	760	0.77	17.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	7	6.1	0.59	328	0.33	54.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	167	145.3	14.18	2730	2.76	18.7
80-003	YELLOW PERCH	C		MG	V	M	1	0.9	0.08	71	0.07	82.0

No Species: 12 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 1178 **Total Rel. Wt. :** 98904

IBI: 29.2

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 4.20 Date: 09/25/2008

Time Fished: 3832 Distance: 1.000 Drainge (sq mi): 5450.0 Depth: 500

Location: Lat: 44.38586 Long: -69.72981

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	7430	7430.0	97.29	10730	33.51	1.4
43-100	FALLFISH	G		FS	LN	E	6	6.0	0.08	40	0.12	6.6
50-001	AMERICAN EEL	C		C		M	51	51.0	0.67	10390	32.45	203.7
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.01	230	0.72	230.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	71	71.0	0.93	7700	24.05	108.4
77-030	REDBREAST SUNFISH	I		MG	PN	E	78	78.0	1.02	2930	9.15	37.5

No Species: 6 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 7637 **Total Rel. Wt. :** 32020

IBI: 41.6

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 4.20 Date: 10/03/2009

Time Fished: 3991 Distance: 1.000 Drainge (sq mi): 5450.0 Depth: 200

Location: Lat: 44.38586 Long: -69.72981

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	1217	1217.0	95.15	19461	47.51	15.9
20-005	BLUEBACK HERRING	PL		A	NGL	M	1	1.0	0.08	10	0.02	10.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	11	11.0	0.86	9860	24.07	896.3
43-100	FALLFISH	G		FS	LN	E	4	4.0	0.31	22	0.05	5.5
50-001	AMERICAN EEL	C		C		M	18	18.0	1.41	2760	6.74	153.3
74-002	STRIPED BASS	P		A	L	M	2	2.0	0.16	4300	10.50	2150.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	17	17.0	1.33	4202	10.26	247.1
77-030	REDBREAST SUNFISH	I		MG	PN	E	9	9.0	0.70	350	0.85	38.8

No Species: 8 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 1279 **Total Rel. Wt. :** 40965

IBI: 42.8

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 6.85 Date: 08/13/2002

Time Fished: 2499 Distance: 1.000 Drainge (sq mi): 5437.0 Depth: 0

Location: Lat: 44.41081 Long: -69.71377

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	1	1.0	0.11	3	0.01	3.0
20-006	AMERICAN SHAD	PL		A	PS	M	2	2.0	0.22	3	0.01	1.5
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.11	1250	4.55	1250.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	70	70.0	7.58	4051	14.74	57.8
43-001	COMMON CARP	O	T	MG	V	E	1	1.0	0.11	2950	10.73	2950.0
43-013	CREEK CHUB	I	T	MG	L	E	2	2.0	0.22	17	0.06	8.5
43-028	SPOTTAIL SHINER	I	P	MG	L	E	181	181.0	19.59	1244	4.53	6.8
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.11	1	0.00	1.0
47-003	WHITE CATFISH	I		MG	P	E	1	1.0	0.11	144	0.52	144.0
50-001	AMERICAN EEL	C		C		M	211	211.0	22.84	3690	13.43	17.4
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	11	11.0	1.19	37	0.13	3.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	42	42.0	4.55	5558	20.22	132.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	213	213.0	23.05	815	2.97	3.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	14	14.0	1.52	338	1.23	24.1
77-030	REDBREAST SUNFISH	I		MG	PN	E	157	157.0	16.99	6949	25.29	44.2
80-003	YELLOW PERCH	C		MG	V	M	16	16.0	1.73	431	1.57	26.9

No Species: 16 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 924 **Total Rel. Wt. :** 27481

IBI: 21.5

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 6.85 Date: 09/23/2002

Time Fished: 3206 Distance: 1.000 Drainge (sq mi): 5437.0 Depth: 0

Location: Lat: 44.41081 Long: -69.71377

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.12	4	0.02	4.0
20-002	ALEWIFE	PL		A	PS	M	74	74.0	8.76	841	4.89	11.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	79	79.0	9.35	6300	36.62	79.7
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.24	27	0.16	13.5
43-028	SPOTTAIL SHINER	I	P	MG	L	E	40	40.0	4.73	344	2.00	8.6
50-001	AMERICAN EEL	C		C		M	167	167.0	19.76	1497	8.70	8.9
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	17	17.0	2.01	88	0.51	5.1
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.12	4	0.02	4.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	33	33.0	3.91	948	5.51	28.7
77-006	LARGEMOUTH BASS	C		MG	PN	E	238	238.0	28.17	3088	17.95	12.9
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	7	7.0	0.83	412	2.39	58.8
77-030	REDBREAST SUNFISH	I		MG	PN	E	182	182.0	21.54	3536	20.55	19.4
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	0.47	114	0.66	28.5

No Species: 13 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 845 **Total Rel. Wt. :** 17203

IBI: 27.1

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 7.50 Date: 09/25/2008

Time Fished: 2421 Distance: 1.000 Drainge (sq mi): 5437.0 Depth: 390

Location: DST Sidney boat ramp, Sidney, ME Lat: 44.42155 Long: -69.70560

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	317	317.0	68.76	3198	23.59	10.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	0.87	3220	23.75	805.0
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.22	40	0.30	40.0
50-001	AMERICAN EEL	C		C		M	16	16.0	3.47	1430	10.55	89.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	72	72.0	15.62	3406	25.12	47.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	4	4.0	0.87	840	6.20	210.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	45	45.0	9.76	1260	9.29	28.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	0.43	164	1.21	82.0

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 461 **Total Rel. Wt. :** 13558

IBI: 24.6

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 9.00 Date: 09/23/2008

Time Fished: 2134 Distance: 1.000 Drainge (sq mi): 5419.0 Depth: 200

Location: Lat: 44.44346 Long: -69.69695

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	24	24.0	3.26	110	0.65	4.5
20-002	ALEWIFE	PL		A	PS	M	607	607.0	82.47	6040	35.70	9.9
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.14	6710	39.66	6710.0
43-100	FALLFISH	G		FS	LN	E	23	23.0	3.13	90	0.53	3.9
50-001	AMERICAN EEL	C		C		M	47	47.0	6.39	2842	16.80	60.4
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.14	6	0.04	6.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	18	18.0	2.45	900	5.32	50.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.14	30	0.18	30.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	14	14.0	1.90	190	1.12	13.5

No Species: 9 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 736 **Total Rel. Wt. :** 16918

IBI: 33.3

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 9.00 Date: 10/02/2009

Time Fished: 2461 Distance: 1.000 Drainge (sq mi): 5419.0 Depth: 80

Location: Lat: 44.44346 Long: -69.69695

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.16	10	0.01	10.0
20-002	ALEWIFE	PL		A	PS	M	502	502.0	81.49	3700	4.35	7.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	79	79.0	12.82	70560	83.03	893.1
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.16	4	0.00	4.0
50-001	AMERICAN EEL	C		C		M	14	14.0	2.27	1166	1.37	83.2
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.16	8	0.01	8.0
74-002	STRIPED BASS	P		A	L	M	1	1.0	0.16	4500	5.30	4500.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	15	15.0	2.44	4990	5.87	332.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	2	2.0	0.32	45	0.05	22.5

No Species: 9 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 616 **Total Rel. Wt. :** 84983

IBI: 41.5

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 11.00 Date: 08/12/2002

Time Fished: 2173 Distance: 1.000 Drainge (sq mi): 5412.0 Depth: 0

Location: Lat: 44.46805 Long: -69.68568

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.27	8	0.01	8.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	51	51.0	13.53	25102	45.89	492.2
43-028	SPOTTAIL SHINER	I	P	MG	L	E	2	2.0	0.53	20	0.04	10.0
43-100	FALLFISH	G		FS	LN	E	12	12.0	3.18	16	0.03	1.3
50-001	AMERICAN EEL	C		C		M	164	164.0	43.50	5645	10.32	34.4
74-002	STRIPED BASS	P		A	L	M	4	4.0	1.06	6155	11.25	1538.7
77-002	BLACK CRAPPIE	C		MG	PN	E	7	7.0	1.86	7070	12.93	1010.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	92	92.0	24.40	9604	17.56	104.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	11	11.0	2.92	57	0.10	5.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	0.80	57	0.10	19.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	30	30.0	7.96	964	1.76	32.1

No Species: 11 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 377 **Total Rel. Wt. :** 54698

IBI: 26.8

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 11.00 Date: 09/22/2002

Time Fished: 1968 Distance: 1.000 Drainge (sq mi): 5412.0 Depth: 0

Location: Lat: 44.46805 Long: -69.68568

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	11	11.0	2.09	5073	7.63	461.1
43-028	SPOTTAIL SHINER	I	P	MG	L	E	1	1.0	0.19	10	0.02	10.0
43-100	FALLFISH	G		FS	LN	E	9	9.0	1.71	195	0.29	21.6
50-001	AMERICAN EEL	C		C		M	405	405.0	77.00	8972	13.50	22.1
74-002	STRIPED BASS	P		A	L	M	48	48.0	9.13	48850	73.49	1017.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	30	30.0	5.70	2920	4.39	97.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	6	6.0	1.14	66	0.10	11.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.19	19	0.03	19.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	15	15.0	2.85	366	0.55	24.4

No Species: 9 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 526 **Total Rel. Wt. :** 66471

IBI: 35.8

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 11.00 Date: 09/24/2008

Time Fished: 2625 Distance: 1.000 Drainge (sq mi): 5412.0 Depth: 200

Location: Lat: 44.46805 Long: -69.68568

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	179	179.0	33.46	1547	4.86	8.6
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.19	100	0.31	100.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	23	23.0	4.30	16550	52.01	719.5
43-003	GOLDEN SHINER	G	T	MG	L	E	68	68.0	12.71	306	0.96	4.5
43-028	SPOTTAIL SHINER	I	P	MG	L	E	42	42.0	7.85	90	0.28	2.1
43-100	FALLFISH	G		FS	LN	E	75	75.0	14.02	450	1.41	6.0
50-001	AMERICAN EEL	C		C		M	47	47.0	8.79	2350	7.39	50.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	29	29.0	5.42	110	0.35	3.7
74-002	STRIPED BASS	P		A	L	M	2	2.0	0.37	2700	8.49	1350.0
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.19	250	0.79	250.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	23	23.0	4.30	6190	19.45	269.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	13	13.0	2.43	946	2.97	72.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	12	12.0	2.24	80	0.25	6.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	2	2.0	0.37	39	0.12	19.5
80-003	YELLOW PERCH	C		MG	V	M	18	18.0	3.36	110	0.35	6.1

No Species: 15 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 535 **Total Rel. Wt. :** 31818

IBI: 43.1

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 11.00 Date: 10/02/2009

Time Fished: 2383 Distance: 1.000 Drainge (sq mi): 5412.0 Depth: 160

Location: Lat: 44.46805 Long: -69.68568

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	1.37	6	0.01	6.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	25	25.0	34.25	26530	43.60	1061.2
43-100	FALLFISH	G		FS	LN	E	11	11.0	15.07	280	0.46	25.4
47-003	WHITE CATFISH	I		MG	P	E	1	1.0	1.37	4	0.01	4.0
50-001	AMERICAN EEL	C		C		M	22	22.0	30.14	1859	3.05	84.5
74-002	STRIPED BASS	P		A	L	M	5	5.0	6.85	29300	48.15	5860.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	7	7.0	9.59	2845	4.68	406.4
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	1.37	30	0.05	30.0

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 73 **Total Rel. Wt. :** 60854

IBI: 36.8

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 15.10 Date: 08/12/2002

Time Fished: 2446 Distance: 1.000 Drainge (sq mi): 5181.0 Depth: 0

Location: Lat: 44.52236 Long: -69.65501

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	1	1.0	0.17	5	0.01	5.0
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.17	262	0.39	262.0
25-010	ATLANTIC SALMON	C		A	LN	S	2	2.0	0.35	2200	3.25	1100.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	50	50.0	8.74	43077	63.68	861.5
43-028	SPOTTAIL SHINER	I	P	MG	L	E	107	107.0	18.71	867	1.28	8.1
43-100	FALLFISH	G		FS	LN	E	94	94.0	16.43	1339	1.98	14.2
47-003	WHITE CATFISH	I		MG	P	E	1	1.0	0.17	270	0.40	270.0
50-001	AMERICAN EEL	C		C		M	209	209.0	36.54	6247	9.24	29.8
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.17	4	0.01	4.0
74-002	STRIPED BASS	P		A	L	M	2	2.0	0.35	3260	4.82	1630.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	93	93.0	16.26	9827	14.53	105.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	0.52	46	0.07	15.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.17	7	0.01	7.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	6	6.0	1.05	206	0.30	34.3
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.17	25	0.04	25.0

No Species: 15 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 572 **Total Rel. Wt. :** 67642

IBI: 46.2

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 15.10 Date: 09/22/2002

Time Fished: 2240 Distance: 1.000 Drainge (sq mi): 5181.0 Depth: 0

Location: Lat: 44.52236 Long: -69.65501

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	36	36.0	6.75	39075	75.94	1085.4
43-100	FALLFISH	G		FS	LN	E	17	17.0	3.19	105	0.20	6.1
50-001	AMERICAN EEL	C		C		M	409	409.0	76.74	2416	4.70	5.9
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	3	3.0	0.56	28	0.05	9.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	62	62.0	11.63	9712	18.87	156.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	0.38	55	0.11	27.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	4	4.0	0.75	66	0.13	16.5

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 533 **Total Rel. Wt. :** 51457

IBI: 27.4

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 15.10 Date: 09/24/2008

Time Fished: 2097 Distance: 1.000 Drainge (sq mi): 5181.0 Depth: 200

Location: Lat: 44.52236 Long: -69.65501

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	2	2.0	1.68	20	0.15	10.0
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.84	490	3.61	490.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	7.56	6700	49.31	744.4
43-100	FALLFISH	G		FS	LN	E	50	50.0	42.02	350	2.58	7.0
50-001	AMERICAN EEL	C		C		M	35	35.0	29.41	2620	19.28	74.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	8	8.0	6.72	2280	16.78	285.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	4.20	940	6.92	188.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	2.52	107	0.79	35.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	4	4.0	3.36	77	0.57	19.2
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.68	4	0.03	2.0

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 119 **Total Rel. Wt. :** 13588

IBI: 42.7

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 15.10 Date: 10/02/2009

Time Fished: 2022 Distance: 1.000 Drainge (sq mi): 5181.0 Depth: 150

Location: Lat: 44.52236 Long: -69.65501

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	1.92	5	0.01	5.0
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	1.92	1730	4.35	1730.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	22	22.0	42.31	17020	42.78	773.6
50-001	AMERICAN EEL	C		C		M	14	14.0	26.92	1686	4.24	120.4
74-002	STRIPED BASS	P		A	L	M	4	4.0	7.69	17200	43.23	4300.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	8	8.0	15.38	1825	4.59	228.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	1.92	300	0.75	300.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	1.92	20	0.05	20.0

No Species: 8 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 52 **Total Rel. Wt. :** 39786

IBI: 40.6

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 16.50 Date: 08/12/2002

Time Fished: 1472 Distance: 1.000 Drainge (sq mi): 5181.0 Depth: 0

Location: Lat: 44.53445 Long: -69.63996

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	30	30.0	4.56	106	0.17	3.5
20-005	BLUEBACK HERRING	PL		A	NGL	M	2	2.0	0.30	2	0.00	1.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	80	80.0	12.16	39247	63.50	490.5
43-028	SPOTTAIL SHINER	I	P	MG	L	E	2	2.0	0.30	19	0.03	9.5
43-100	FALLFISH	G		FS	LN	E	22	22.0	3.34	348	0.56	15.8
50-001	AMERICAN EEL	C		C		M	384	384.0	58.36	15550	25.16	40.4
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	2	2.0	0.30	4	0.01	2.0
74-002	STRIPED BASS	P		A	L	M	1	1.0	0.15	700	1.13	700.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	108	108.0	16.41	5012	8.11	46.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	0.76	75	0.12	15.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	0.91	93	0.15	15.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	15	15.0	2.28	653	1.06	43.5
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.15	2	0.00	2.0

No Species: 13 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 658 **Total Rel. Wt. :** 61811

IBI: 33.6

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 16.50 Date: 09/22/2002

Time Fished: 1998 Distance: 1.000 Drainge (sq mi): 5181.0 Depth: 0

Location: Lat: 44.53445 Long: -69.63996

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	307	307.0	32.87	3960	5.56	12.9
40-016	WHITE SUCKER	I	T	FD	NGL	M	76	76.0	8.14	52893	74.31	695.9
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.11	2	0.00	2.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	97	97.0	10.39	1089	1.53	11.2
43-100	FALLFISH	G		FS	LN	E	48	48.0	5.14	1170	1.64	24.3
50-001	AMERICAN EEL	C		C		M	150	150.0	16.06	5476	7.69	36.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	200	200.0	21.41	5399	7.59	27.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	0.54	122	0.17	24.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	11	11.0	1.18	290	0.41	26.3
77-030	REDBREAST SUNFISH	I		MG	PN	E	38	38.0	4.07	776	1.09	20.4
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.11	3	0.00	3.0

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 934 **Total Rel. Wt. :** 71180

IBI: 29.7

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 16.70 Date: 09/24/2008

Time Fished: 2185 Distance: 1.000 Drainge (sq mi): 5181.0 Depth: 150

Location: Lat: 44.53479 Long: -69.63667

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	839	839.0	87.12	8422	6.00	10.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	95	95.0	9.87	94590	67.39	995.6
43-100	FALLFISH	G		FS	LN	E	4	4.0	0.42	540	0.38	135.0
47-003	WHITE CATFISH	I		MG	P	E	5	5.0	0.52	3930	2.80	786.0
50-001	AMERICAN EEL	C		C		M	6	6.0	0.62	520	0.37	86.6
74-002	STRIPED BASS	P		A	L	M	5	5.0	0.52	29040	20.69	5808.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	6	6.0	0.62	2755	1.96	459.1
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	0.31	560	0.40	186.6

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 963 **Total Rel. Wt. :** 140357

IBI: 42.9

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 16.70 Date: 10/01/2009

Time Fished: 2605 Distance: 1.000 Drainge (sq mi): 5181.0 Depth: 70

Location: Lat: 44.53479 Long: -69.63667

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	100	100.0	78.13	99128	75.19	991.2
43-001	COMMON CARP	O	T	MG	V	E	1	1.0	0.78	7780	5.90	7780.0
47-003	WHITE CATFISH	I		MG	P	E	4	4.0	3.13	3440	2.61	860.0
50-001	AMERICAN EEL	C		C		M	6	6.0	4.69	840	0.64	140.0
74-002	STRIPED BASS	P		A	L	M	5	5.0	3.91	15550	11.80	3110.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	11.0	8.59	5091	3.86	462.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.78	4	0.00	4.0

No Species: 7 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 128 **Total Rel. Wt. :** 131833

IBI: 31.3

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 17.40 Date: 08/14/2002

Time Fished: 2524 Distance: 1.000 Drainge (sq mi): 3134.0 Depth: 0

Location: Lat: 44.54518 Long: -69.62703

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	5	5.0	0.71	15	0.02	3.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	27	27.0	3.85	22459	22.64	831.8
43-001	COMMON CARP	O	T	MG	V	E	4	4.0	0.57	23100	23.28	5775.0
43-003	GOLDEN SHINER	G	T	MG	L	E	4	4.0	0.57	58	0.06	14.5
43-100	FALLFISH	G		FS	LN	E	51	51.0	7.28	640	0.65	12.5
47-003	WHITE CATFISH	I		MG	P	E	3	3.0	0.43	3	0.00	1.0
50-001	AMERICAN EEL	C		C		M	257	257.0	36.66	6807	6.86	26.4
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	13	13.0	1.85	19	0.02	1.4
74-002	STRIPED BASS	P		A	L	M	39	39.0	5.56	33871	34.14	868.4
74-003	WHITE PERCH	C		MG	L	M	3	3.0	0.43	500	0.50	166.6
77-002	BLACK CRAPPIE	C		MG	PN	E	5	5.0	0.71	870	0.88	174.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	199	199.0	28.39	8292	8.36	41.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	36	36.0	5.14	452	0.46	12.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	0.86	249	0.25	41.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	31	31.0	4.42	1164	1.17	37.5
80-003	YELLOW PERCH	C		MG	V	M	18	18.0	2.57	711	0.72	39.5

No Species: 16 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 701 **Total Rel. Wt. :** 99210

IBI: 32.9

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 17.40 Date: 09/24/2002

Time Fished: 3846 Distance: 1.000 Drainge (sq mi): 3134.0 Depth: 0

Location: Lat: 44.54518 Long: -69.62703

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	6	6.0	1.46	108	0.08	18.0
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.49	2275	1.75	1137.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	26	26.0	6.34	40301	30.99	1550.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	5	5.0	1.22	14	0.01	2.8
43-100	FALLFISH	G		FS	LN	E	8	8.0	1.95	164	0.13	20.5
47-003	WHITE CATFISH	I		MG	P	E	6	6.0	1.46	1710	1.32	285.0
50-001	AMERICAN EEL	C		C		M	103	103.0	25.12	8656	6.66	84.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	3	3.0	0.73	15	0.01	5.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.24	42	0.03	42.0
74-002	STRIPED BASS	P		A	L	M	21	21.0	5.12	44810	34.46	2133.8
77-002	BLACK CRAPPIE	C		MG	PN	E	19	19.0	4.63	4500	3.46	236.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	149	149.0	36.34	23460	18.04	157.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	12	12.0	2.93	1952	1.50	162.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	17	17.0	4.15	814	0.63	47.8
77-030	REDBREAST SUNFISH	I		MG	PN	E	26	26.0	6.34	610	0.47	23.4
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	1.46	602	0.46	100.3

No Species: 16 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 410 **Total Rel. Wt. :** 130033

IBI: 32.6

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 17.40 Date: 09/24/2008

Time Fished: 2627 Distance: 1.000 Drainge (sq mi): 3134.0 Depth: 150

Location: Lat: 44.54518 Long: -69.62703

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	2	2.0	1.64	10	0.04	5.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	4.92	8010	32.42	1335.0
43-100	FALLFISH	G		FS	LN	E	74	74.0	60.66	400	1.62	5.4
50-001	AMERICAN EEL	C		C		M	15	15.0	12.30	3490	14.12	232.6
74-002	STRIPED BASS	P		A	L	M	2	2.0	1.64	10420	42.17	5210.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	14	14.0	11.48	1936	7.84	138.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	1.64	60	0.24	30.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.82	7	0.03	7.0
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	4.92	375	1.52	62.5

No Species: 9 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 122 **Total Rel. Wt. :** 24708

IBI: 31.8

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 17.40 Date: 10/01/2009

Time Fished: 4544 Distance: 1.000 Drainge (sq mi): 3134.0 Depth: 250

Location: Lat: 44.54518 Long: -69.62703

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	2	2.0	1.50	15	0.04	7.5
20-002	ALEWIFE	PL		A	PS	M	2	2.0	1.50	10	0.02	5.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	27	27.0	20.30	30795	75.22	1140.5
43-100	FALLFISH	G		FS	LN	E	51	51.0	38.35	167	0.41	3.2
47-003	WHITE CATFISH	I		MG	P	E	1	1.0	0.75	560	1.37	560.0
50-001	AMERICAN EEL	C		C		M	27	27.0	20.30	3270	7.99	121.1
74-002	STRIPED BASS	P		A	L	M	1	1.0	0.75	3000	7.33	3000.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	16	16.0	12.03	2620	6.40	163.7
77-030	REDBREAST SUNFISH	I		MG	PN	E	3	3.0	2.26	91	0.22	30.3
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	2.26	410	1.00	136.6

No Species: 10 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 133 **Total Rel. Wt. :** 40938

IBI: 39.7

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 18.50 Date: 08/11/2002

Time Fished: 2464 Distance: 1.000 Drainge (sq mi): 3125.0 Depth: 0

Location: Lat: 44.55500 Long: -69.62400

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	2	2.0	0.73	722	4.15	361.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	10	10.0	3.66	1146	6.59	114.6
43-100	FALLFISH	G		FS	LN	E	3	3.0	1.10	13	0.07	4.3
50-001	AMERICAN EEL	C		C		M	59	59.0	21.61	4550	26.17	77.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	183	183.0	67.03	10829	62.29	59.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.37	15	0.09	15.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	14	14.0	5.13	95	0.55	6.7
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.37	14	0.08	14.0

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 273 **Total Rel. Wt. :** 17384

IBI: 23.4

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 20.85 Date: 08/11/2002

Time Fished: 2728 Distance: 1.000 Drainge (sq mi): 3124.0 Depth: 0

Location: Lat: 44.58389 Long: -69.59445

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	5	5.0	1.01	25	0.13	5.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.20	2	0.01	2.0
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.40	3	0.02	1.5
43-100	FALLFISH	G		FS	LN	E	27	27.0	5.45	63	0.33	2.3
50-001	AMERICAN EEL	C		C		M	54	54.0	10.91	7600	39.73	140.7
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	26	26.0	5.25	49	0.26	1.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	161	161.0	32.53	6715	35.10	41.7
77-006	LARGEMOUTH BASS	C		MG	PN	E	38	38.0	7.68	110	0.57	2.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.40	28	0.15	14.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	172	172.0	34.75	3996	20.89	23.2
80-003	YELLOW PERCH	C		MG	V	M	7	7.0	1.41	540	2.82	77.1

No Species: 11 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 495 **Total Rel. Wt. :** 19131

IBI: 26.9

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 23.90 Date: 08/08/2002

Time Fished: 2028 Distance: 1.000 Drainge (sq mi): 3114.0 Depth: 0

Location: Lat: 44.62281 Long: -69.58084

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	6	6.0	1.67	27	0.07	4.5
25-001	BROWN TROUT	C		FD	LN	S	8	8.0	2.22	2688	6.57	336.0
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.28	346	0.85	346.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	42	42.0	11.67	8646	21.12	205.8
43-003	GOLDEN SHINER	G	T	MG	L	E	11	11.0	3.06	176	0.43	16.0
43-026	COMMON SHINER	I		FD	NGL	E	4	4.0	1.11	38	0.09	9.5
43-100	FALLFISH	G		FS	LN	E	67	67.0	18.61	539	1.32	8.0
50-001	AMERICAN EEL	C		C		M	60	60.0	16.67	19625	47.95	327.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.28	8	0.02	8.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	121	121.0	33.61	8162	19.94	67.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	10	10.0	2.78	43	0.11	4.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.56	75	0.18	37.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	16	16.0	4.44	316	0.77	19.7
80-003	YELLOW PERCH	C		MG	V	M	11	11.0	3.06	242	0.59	22.0

No Species: 14 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 360 **Total Rel. Wt. :** 40931

IBI: 36.3

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 25.10 Date: 08/10/2002

Time Fished: 1819 Distance: 1.000 Drainge (sq mi): 3111.0 Depth: 0

Location: Lat: 44.63797 Long: -69.59071

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	82	82.0	12.69	365	1.33	4.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	14	14.0	2.17	7474	27.19	533.8
43-003	GOLDEN SHINER	G	T	MG	L	E	5	5.0	0.77	6	0.02	1.2
43-026	COMMON SHINER	I		FD	NGL	E	4	4.0	0.62	4	0.01	1.0
43-100	FALLFISH	G		FS	LN	E	8	8.0	1.24	83	0.30	10.3
50-001	AMERICAN EEL	C		C		M	9	9.0	1.39	8010	29.14	890.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	15	15.0	2.32	56	0.20	3.7
74-003	WHITE PERCH	C		MG	L	M	3	3.0	0.46	435	1.58	145.0
77-002	BLACK CRAPPIE	C		MG	PN	E	16	16.0	2.48	903	3.29	56.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	87	87.0	13.47	3673	13.36	42.2
77-006	LARGEMOUTH BASS	C		MG	PN	E	153	153.0	23.68	831	3.02	5.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	36	36.0	5.57	1039	3.78	28.8
77-030	REDBREAST SUNFISH	I		MG	PN	E	129	129.0	19.97	2538	9.23	19.6
80-003	YELLOW PERCH	C		MG	V	M	85	85.0	13.16	2067	7.52	24.3

No Species: 14 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 646 **Total Rel. Wt. :** 27484

IBI: 27.2

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 32.10 Date: 08/02/2002

Time Fished: 690 Distance: 1.000 Drainge (sq mi): 2955.0 Depth: 0

Location: Lat: 44.73189 Long: -69.64312

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	8	8.0	9.52	26	0.23	3.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	3.57	1845	16.40	615.0
43-100	FALLFISH	G		FS	LN	E	9	9.0	10.71	268	2.38	29.7
50-001	AMERICAN EEL	C		C		M	3	3.0	3.57	3320	29.51	1106.6
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	1.19	4	0.04	4.0
74-003	WHITE PERCH	C		MG	L	M	8	8.0	9.52	1644	14.61	205.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	19	19.0	22.62	2452	21.79	129.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	2.38	109	0.97	54.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	5.0	5.95	31	0.28	6.2
77-030	REDBREAST SUNFISH	I		MG	PN	E	10	10.0	11.90	362	3.22	36.2
80-003	YELLOW PERCH	C		MG	V	M	16	16.0	19.05	1190	10.58	74.3

No Species: 11 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 84 **Total Rel. Wt. :** 11251

IBI: 29.4

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 32.10 Date: 08/07/2002

Time Fished: 1062 Distance: 1.000 Drainge (sq mi): 2955.0 Depth: 0

Location: Lat: 44.73189 Long: -69.64312

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	14	14.0	6.73	31	0.45	2.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	8	8.0	3.85	181	2.66	22.6
43-003	GOLDEN SHINER	G	T	MG	L	E	10	10.0	4.81	12	0.18	1.2
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.48	1	0.01	1.0
43-100	FALLFISH	G		FS	LN	E	27	27.0	12.98	108	1.58	4.0
50-001	AMERICAN EEL	C		C		M	12	12.0	5.77	1616	23.72	134.6
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	12	12.0	5.77	12	0.18	1.0
74-003	WHITE PERCH	C		MG	L	M	4	4.0	1.92	627	9.20	156.7
77-002	BLACK CRAPPIE	C		MG	PN	E	3	3.0	1.44	57	0.84	19.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	43	43.0	20.67	1795	26.34	41.7
77-006	LARGEMOUTH BASS	C		MG	PN	E	40	40.0	19.23	1090	16.00	27.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.48	28	0.41	28.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	19	19.0	9.13	244	3.58	12.8
80-003	YELLOW PERCH	C		MG	V	M	14	14.0	6.73	1012	14.85	72.2

No Species: 14 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 208 **Total Rel. Wt. :** 6814

IBI: 30.9

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 32.10 Date: 09/07/2002

Time Fished: 833 Distance: 1.000 Drainge (sq mi): 2955.0 Depth: 0

Location: Lat: 44.73189 Long: -69.64312

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	37	37.0	17.79	395	6.75	10.6
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.48	205	3.50	205.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	0.96	785	13.41	392.5
43-003	GOLDEN SHINER	G	T	MG	L	E	34	34.0	16.35	63	1.08	1.8
43-100	FALLFISH	G		FS	LN	E	9	9.0	4.33	272	4.65	30.2
50-001	AMERICAN EEL	C		C		M	2	2.0	0.96	540	9.22	270.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	4	4.0	1.92	18	0.31	4.5
77-002	BLACK CRAPPIE	C		MG	PN	E	10	10.0	4.81	25	0.43	2.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	41	41.0	19.71	2323	39.68	56.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	26	26.0	12.50	88	1.50	3.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	2.88	290	4.95	48.3
77-030	REDBREAST SUNFISH	I		MG	PN	E	12	12.0	5.77	305	5.21	25.4
80-003	YELLOW PERCH	C		MG	V	M	24	24.0	11.54	545	9.31	22.7

No Species: 13 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 208 **Total Rel. Wt. :** 5854

IBI: 25.3

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 36.50 Date: 08/01/2002

Time Fished: 512 Distance: 1.000 Drainge (sq mi): 2804.0 Depth: 0

Location: Lat: 44.76757 Long: -69.69794

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.50	167	0.16	167.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	41	41.0	20.30	62949	59.36	1535.3
43-100	FALLFISH	G		FS	LN	E	42	42.0	20.79	1339	1.26	31.8
50-001	AMERICAN EEL	C		C		M	26	26.0	12.87	33654	31.74	1294.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	89	89.0	44.06	7888	7.44	88.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	2	2.0	0.99	22	0.02	11.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.50	23	0.02	23.0

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 202 **Total Rel. Wt. :** 106042

IBI: 28.9

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 36.50 Date: 09/07/2002

Time Fished: 838 Distance: 1.000 Drainge (sq mi): 2804.0 Depth: 0

Location: Lat: 44.76757 Long: -69.69794

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	1.11	168	1.15	168.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	2.22	1615	11.10	807.5
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	3.33	15	0.10	5.0
43-100	FALLFISH	G		FS	LN	E	2	2.0	2.22	67	0.46	33.5
50-001	AMERICAN EEL	C		C		M	14	14.0	15.56	7780	53.47	555.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	67	67.0	74.44	4890	33.61	72.9
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	1.11	15	0.10	15.0

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 90 **Total Rel. Wt. :** 14550

IBI: 36.0

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 38.90 Date: 08/08/2002

Time Fished: 1829 Distance: 1.000 Drainge (sq mi): 2800.0 Depth: 0

Location: Lat: 44.75856 Long: -69.73289

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	8	8.0	3.56	70	0.85	8.7
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	0.89	4	0.05	2.0
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.89	18	0.22	9.0
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.44	18	0.22	18.0
43-100	FALLFISH	G		FS	LN	E	13	13.0	5.78	70	0.85	5.3
50-001	AMERICAN EEL	C		C		M	4	4.0	1.78	4450	54.32	1112.5
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	5	5.0	2.22	8	0.10	1.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	27	27.0	12.00	1279	15.61	47.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	18	18.0	8.00	211	2.58	11.7
77-030	REDBREAST SUNFISH	I		MG	PN	E	144	144.0	64.00	1854	22.63	12.8
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.44	210	2.56	210.0

No Species: 11 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 225 **Total Rel. Wt. :** 8192

IBI: 33.8

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 46.10 Date: 09/21/2002

Time Fished: 2686 Distance: 1.000 Drainge (sq mi): 2770.0 Depth: 0

Location: Lat: 44.74663 Long: -69.83977

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	3	3.0	0.53	986	4.01	328.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	21	21.0	3.73	4695	19.09	223.5
43-026	COMMON SHINER	I		FD	NGL	E	7	7.0	1.24	7	0.03	1.0
43-100	FALLFISH	G		FS	LN	E	191	191.0	33.93	472	1.92	2.4
50-001	AMERICAN EEL	C		C		M	12	12.0	2.13	2860	11.63	238.3
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	8	8.0	1.42	20	0.08	2.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	225	225.0	39.96	13175	53.56	58.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	5.0	0.89	200	0.81	40.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	85	85.0	15.10	1810	7.36	21.2
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	1.07	375	1.52	62.5

No Species: 10 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 563 **Total Rel. Wt. :** 24600

IBI: 42.8

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 47.10 Date: 08/30/2009

Time Fished: 3616 Distance: 1.000 Drainge (sq mi): 2730.0 Depth: 140

Location: Ust, Norridgewock; adj. Father Rasle Rd. Lat: 44.75414 Long: -69.85590

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.27	120	2.30	120.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	15	15.0	4.07	20	0.38	1.3
43-026	COMMON SHINER	I		FD	NGL	E	2	2.0	0.54	5	0.10	2.5
43-100	FALLFISH	G		FS	LN	E	301	301.0	81.57	815	15.64	2.7
50-001	AMERICAN EEL	C		C		M	2	2.0	0.54	260	4.99	130.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	33	33.0	8.94	3800	72.91	115.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	6	6.0	1.63	32	0.61	5.3
77-030	REDBREAST SUNFISH	I		MG	PN	E	2	2.0	0.54	50	0.96	25.0
80-003	YELLOW PERCH	C		MG	V	M	7	7.0	1.90	110	2.11	15.7

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 369 **Total Rel. Wt. :** 5212

IBI: 44.7

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 49.90 Date: 08/07/2002

Time Fished: 733 Distance: 1.000 Drainge (sq mi): 2730.0 Depth: 0

Location: Lat: 44.76894 Long: -69.88910

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	13	13.0	3.88	9194	17.79	707.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	71	71.0	21.19	31601	61.13	445.0
43-026	COMMON SHINER	I		FD	NGL	E	105	105.0	31.34	595	1.15	5.6
43-100	FALLFISH	G		FS	LN	E	95	95.0	28.36	736	1.42	7.7
50-001	AMERICAN EEL	C		C		M	5	5.0	1.49	1780	3.44	356.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	43	43.0	12.84	7775	15.04	180.8
77-030	REDBREAST SUNFISH	I		MG	PN	E	2	2.0	0.60	8	0.02	4.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	1	1.0	0.30	3	0.01	3.0

No Species: 8 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 335 **Total Rel. Wt. :** 51692

IBI: 49.8

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 53.20 Date: 08/08/2002

Time Fished: 1391 Distance: 1.000 Drainge (sq mi): 2356.0 Depth: 0

Location: Lat: 44.81323 Long: -69.89055

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	11	11.0	11.46	641	8.52	58.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	7	7.0	7.29	1872	24.88	267.4
43-003	GOLDEN SHINER	G	T	MG	L	E	6	6.0	6.25	16	0.21	2.6
50-001	AMERICAN EEL	C		C		M	9	9.0	9.38	1250	16.62	138.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	33	33.0	34.38	3349	44.52	101.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	14	14.0	14.58	186	2.47	13.2
77-030	REDBREAST SUNFISH	I		MG	PN	E	16	16.0	16.67	209	2.78	13.0

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 96 **Total Rel. Wt. :** 7523

IBI: 32.3

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 57.20 Date: 08/08/2002

Time Fished: 2005 Distance: 1.000 Drainge (sq mi): 2346.0 Depth: 0

Location: Lat: 44.84139 Long: -69.87701

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	12	12.0	7.23	94	1.80	7.8
40-016	WHITE SUCKER	I	T	FD	NGL	M	8	8.0	4.82	494	9.45	61.7
43-003	GOLDEN SHINER	G	T	MG	L	E	5	5.0	3.01	23	0.44	4.6
43-026	COMMON SHINER	I		FD	NGL	E	17	17.0	10.24	62	1.19	3.6
43-100	FALLFISH	G		FS	LN	E	85	85.0	51.20	350	6.70	4.1
50-001	AMERICAN EEL	C		C		M	6	6.0	3.61	2800	53.57	466.6
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.60	3	0.06	3.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	26	26.0	15.66	1355	25.92	52.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.60	3	0.06	3.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.60	4	0.08	4.0
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	2.41	39	0.75	9.7

No Species: 11 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 166 **Total Rel. Wt. :** 5227

IBI: 46.9

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 59.30 Date: 08/15/2002

Time Fished: 2215 Distance: 1.000 Drainge (sq mi): 1943.0 Depth: 0

Location: Lat: 44.86233 Long: -69.86492

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	5	5.0	1.99	76	0.48	15.2
25-002	RAINBOW TROUT	C		FD	LN	S	5	5.0	1.99	78	0.49	15.6
25-011	LANDLOCKED SALMON	C		FD	LN	S	9	9.0	3.59	143	0.90	15.8
40-016	WHITE SUCKER	I	T	FD	NGL	M	74	74.0	29.48	11658	73.36	157.5
43-013	CREEK CHUB	I	T	MG	L	E	6	6.0	2.39	20	0.13	3.3
43-026	COMMON SHINER	I		FD	NGL	E	14	14.0	5.58	54	0.34	3.8
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	1	1.0	0.40	2	0.01	2.0
43-100	FALLFISH	G		FS	LN	E	71	71.0	28.29	135	0.85	1.9
50-001	AMERICAN EEL	C		C		M	7	7.0	2.79	2100	13.22	300.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	2	2.0	0.80	3	0.02	1.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	48	48.0	19.12	1611	10.14	33.5
90-003	SLIMY SCULPIN	BI		FS	NGL	S	3	3.0	1.20	7	0.04	2.3
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	6	6.0	2.39	4	0.03	0.6

No Species: 13 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 251 **Total Rel. Wt. :** 15891

IBI: 56.3

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 64.90 Date: 08/08/2002

Time Fished: 1022 Distance: 1.000 Drainge (sq mi): 1913.0 Depth: 0

Location: Lat: 44.93477 Long: -69.86204

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	2.20	640	6.51	320.0
25-011	LANDLOCKED SALMON	C		FD	LN	S	12	12.0	13.19	1430	14.55	119.1
40-016	WHITE SUCKER	I	T	FD	NGL	M	20	20.0	21.98	3361	34.19	168.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	3	3.0	3.30	7	0.07	2.3
43-100	FALLFISH	G		FS	LN	E	7	7.0	7.69	60	0.61	8.5
50-001	AMERICAN EEL	C		C		M	19	19.0	20.88	3850	39.17	202.6
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	1.10	4	0.04	4.0
60-001	BURBOT	C		FD	NGL	S	4	4.0	4.40	214	2.18	53.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	21	21.0	23.08	247	2.51	11.7
90-003	SLIMY SCULPIN	BI		FS	NGL	S	2	2.0	2.20	16	0.16	8.0

No Species: 10 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 91 **Total Rel. Wt. :** 9829

IBI: 52.9

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 66.10 Date: 08/08/2002

Time Fished: 1722 Distance: 1.000 Drainge (sq mi): 1900.0 Depth: 0

Location: Lat: 44.94644 Long: -69.86641

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.79	107	2.13	107.0
25-011	LANDLOCKED SALMON	C		FD	LN	S	14	14.0	11.11	230	4.58	16.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	8	8.0	6.35	1062	21.13	132.7
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	29	29.0	23.02	40	0.80	1.3
43-100	FALLFISH	G		FS	LN	E	13	13.0	10.32	80	1.59	6.1
50-001	AMERICAN EEL	C		C		M	8	8.0	6.35	2400	47.74	300.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	2	2.0	1.59	6	0.12	3.0
60-001	BURBOT	C		FD	NGL	S	6	6.0	4.76	551	10.96	91.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	44	44.0	34.92	548	10.90	12.4
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.79	3	0.06	3.0

No Species: 10 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 126 **Total Rel. Wt. :** 5027

IBI: 52.1

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 68.20 Date: 08/09/2002

Time Fished: 2711 Distance: 1.000 Drainge (sq mi): 1865.0 Depth: 0

Location: Lat: 44.97528 Long: -69.86981

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.11	62	1.00	62.0
25-012	LAKE TROUT X BROOK TROUT	C		FD	LN	S	1	1.0	0.11	135	2.17	135.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	35	35.0	3.91	355	5.70	10.1
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	0.11	12	0.19	12.0
43-026	COMMON SHINER	I		FD	NGL	E	46	46.0	5.15	239	3.84	5.2
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	3	3.0	0.34	5	0.08	1.6
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	560	560.0	62.64	1212	19.46	2.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	41	41.0	4.59	1350	21.68	32.9
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	8	8.0	0.89	131	2.10	16.3
77-030	REDBREAST SUNFISH	I		MG	PN	E	6	6.0	0.67	28	0.45	4.6
80-003	YELLOW PERCH	C		MG	V	M	192	192.0	21.48	2698	43.33	14.0

No Species: 11 **Nat. Species:** 7 **Hybrids:** 1 **Total Counted:** 894 **Total Rel. Wt. :** 6227

IBI: 34.3

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 72.90 Date: 07/15/2009

Time Fished: 1857 Distance: 1.000 Drainge (sq mi): 1837.0 Depth: 75

Location: Dst, Bingham Public Boat Launch Lat: 45.03640 Long: -69.87060

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	3	3.0	2.91	930	3.57	310.0
25-003	BROOK TROUT	C		FD	L	S	7	7.0	6.80	448	1.72	64.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	22	22.0	21.36	22045	84.53	1002.0
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.97	10	0.04	10.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	4	4.0	3.88	15	0.06	3.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	8	8.0	7.77	2470	9.47	308.7
90-003	SLIMY SCULPIN	BI		FS	NGL	S	58	58.0	56.31	163	0.62	2.8

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 103 **Total Rel. Wt. :** 26081

IBI: 71.2

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 72.90 Date: 08/30/2009

Time Fished: 2294 Distance: 1.000 Drainge (sq mi): 1837.0 Depth: 90

Location: Dst, Bingham Public Boat Launch Lat: 45.03640 Long: -69.87060

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	7	7.0	5.65	1010	9.76	144.2
25-011	LANDLOCKED SALMON	C		FD	LN	S	1	1.0	0.81	12	0.12	12.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	12	12.0	9.68	5805	56.09	483.7
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	2	2.0	1.61	20	0.19	10.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	6	6.0	4.84	2932	28.33	488.6
90-003	SLIMY SCULPIN	BI		FS	NGL	S	96	96.0	77.42	570	5.51	5.9

No Species: 6 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 124 **Total Rel. Wt. :** 10349

IBI: 57.9

Appendix C-3
Fish Species List

River: 50-001 Kennebec River (ust. Edwards Dam) RM: 74.70 Date: 08/09/2002

Time Fished: 2562 Distance: 1.000 Drainge (sq mi): 1837.0 Depth: 0

Location: Lat: 45.05424 Long: -69.88921

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	8	8.0	1.03	955	3.83	119.3
25-011	LANDLOCKED SALMON	C		FD	LN	S	7	7.0	0.90	673	2.70	96.1
40-016	WHITE SUCKER	I	T	FD	NGL	M	57	57.0	7.34	15126	60.67	265.3
43-026	COMMON SHINER	I		FD	NGL	E	382	382.0	49.16	1370	5.50	3.5
43-100	FALLFISH	G		FS	LN	E	5	5.0	0.64	212	0.85	42.4
43-110	LAKE CHUB	BI		FD	NGL	S	4	4.0	0.51	42	0.17	10.5
50-001	AMERICAN EEL	C		C		M	5	5.0	0.64	2885	11.57	577.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	272	272.0	35.01	3399	13.63	12.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.26	8	0.03	4.0
80-003	YELLOW PERCH	C		MG	V	M	7	7.0	0.90	157	0.63	22.4
90-003	SLIMY SCULPIN	BI		FS	NGL	S	28	28.0	3.60	103	0.41	3.6

No Species: 11 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 777 **Total Rel. Wt. :** 24930

IBI: 57.2

Appendix C-3
Fish Species List

River: 50-100 Sebasticook River RM: 1.80 Date: 09/21/2009

Time Fished: 3315 Distance: 1.000 Drainge (sq mi): 891.8 Depth: 210

Location: Ust. Fort Halifax Dam ruins Lat: 44.53832 Long: -69.60575

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.97	1000	3.94	1000.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	7	7.0	6.80	5800	22.85	828.5
43-028	SPOTTAIL SHINER	I	P	MG	L	E	1	1.0	0.97	8	0.03	8.0
43-100	FALLFISH	G		FS	LN	E	2	2.0	1.94	30	0.12	15.0
50-001	AMERICAN EEL	C		C		M	64	64.0	62.14	9180	36.16	143.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	10	10.0	9.71	7626	30.04	762.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	10	10.0	9.71	700	2.76	70.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	5.0	4.85	680	2.68	136.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.97	20	0.08	20.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.94	340	1.34	170.0

No Species: 10 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 103 **Total Rel. Wt. :** 25384

IBI: 25.8

Appendix C-3
Fish Species List

River: 50-100 Sebasticook River RM: 3.70 Date: 09/21/2009

Time Fished: 3535 Distance: 1.000 Drainge (sq mi): 891.8 Depth: 100

Location: Ust. tip of first Island Dst. Bention Falls Lat: 44.55606 Long: -69.57619

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	12	12.0	16.67	9260	48.42	771.6
43-100	FALLFISH	G		FS	LN	E	3	3.0	4.17	30	0.16	10.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	2.78	10	0.05	5.0
50-001	AMERICAN EEL	C		C		M	28	28.0	38.89	5475	28.63	195.5
77-002	BLACK CRAPPIE	C		MG	PN	E	2	2.0	2.78	690	3.61	345.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	11.0	15.28	3130	16.37	284.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	1.39	6	0.03	6.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	2.78	60	0.31	30.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	8	8.0	11.11	165	0.86	20.6
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	4.17	300	1.57	100.0

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 72 **Total Rel. Wt. :** 19126

IBI: 22.1

Appendix C-3
Fish Species List

River: 50-100 Sebasticook River RM: 5.30 Date: 09/25/2008

Time Fished: 1656 Distance: 1.000 Drainge (sq mi): 859.3 Depth: 75

Location: DST Benton Falls Dam, Benton Falls, ME Lat: 44.57407 Long: -69.55857

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	3	3.0	3.49	40	0.11	13.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	32	32.0	37.21	15280	43.48	477.5
43-100	FALLFISH	G		FS	LN	E	6	6.0	6.98	1720	4.89	286.6
50-001	AMERICAN EEL	C		C		M	1	1.0	1.16	55	0.16	55.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	24	24.0	27.91	17536	49.90	730.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	3	3.0	3.49	30	0.09	10.0
80-003	YELLOW PERCH	C		MG	V	M	17	17.0	19.77	480	1.37	28.2

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 86 **Total Rel. Wt. :** 35141

IBI: 36.2

Appendix C-3
Fish Species List

River: 50-100 Sebasticook River RM: 5.30 Date: 09/21/2009

Time Fished: 2580 Distance: 1.000 Drainge (sq mi): 859.3 Depth: 80

Location: DST Benton Falls Dam, Benton Falls, ME Lat: 44.57407 Long: -69.55857

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	57	57.0	20.14	30625	58.01	537.2
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.71	30	0.06	15.0
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.35	15	0.03	15.0
43-100	FALLFISH	G		FS	LN	E	162	162.0	57.24	1205	2.28	7.4
50-001	AMERICAN EEL	C		C		M	28	28.0	9.89	2356	4.46	84.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	28	28.0	9.89	18210	34.49	650.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	0.71	20	0.04	10.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.35	90	0.17	90.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	0.71	245	0.46	122.5

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 283 **Total Rel. Wt. :** 52796

IBI: 43.9

Appendix C-3
Fish Species List

River: 50-100 Sebasticook River RM: 6.30 Date: 05/30/2007

Time Fished: 3241 Distance: 1.000 Drainge (sq mi): 856.0 Depth: 100

Location: Lat: 44.60050 Long: -69.53677

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	13.16	6510	63.45	1302.0
43-100	FALLFISH	G		FS	LN	E	2	2.0	5.26	30	0.29	15.0
50-001	AMERICAN EEL	C		C		M	20	20.0	52.63	1380	13.45	69.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	11.0	28.95	2340	22.81	212.7

No Species: 4 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 38 **Total Rel. Wt. :** 10260

IBI: 24.5

Appendix C-3
Fish Species List

River: 50-100 Sebasticook River RM: 12.40 Date: 09/22/2009

Time Fished: 3623 Distance: 1.000 Drainge (sq mi): 824.6 Depth: 70

Location: Ust. Clinton ME Lat: 44.62481 Long: -69.49104

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	4	4.0	1.82	835	2.20	208.7
40-016	WHITE SUCKER	I	T	FD	NGL	M	36	36.0	16.36	20950	55.19	581.9
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.45	20	0.05	20.0
43-026	COMMON SHINER	I		FD	NGL	E	32	32.0	14.55	94	0.25	2.9
43-100	FALLFISH	G		FS	LN	E	42	42.0	19.09	452	1.19	10.7
50-001	AMERICAN EEL	C		C		M	25	25.0	11.36	5270	13.88	210.8
60-001	BURBOT	C		FD	NGL	S	2	2.0	0.91	55	0.14	27.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	23	23.0	10.45	8115	21.38	352.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	6	6.0	2.73	120	0.32	20.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	45	45.0	20.45	1550	4.08	34.4
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	1.82	500	1.32	125.0

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 220 **Total Rel. Wt. :** 37961

IBI: 42.5

Appendix C-3
Fish Species List

River: 50-100 Sebasticook River RM: 17.30 Date: 09/22/2009

Time Fished: 3415 Distance: 1.000 Drainge (sq mi): 735.7 Depth: 310

Location: Dst. Burnham ME Lat: 44.66295 Long: -69.45121

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	30	30.0	14.22	372	1.83	12.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	20	20.0	9.48	10360	51.05	518.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.47	4	0.02	4.0
43-026	COMMON SHINER	I		FD	NGL	E	35	35.0	16.59	132	0.65	3.7
43-100	FALLFISH	G		FS	LN	E	31	31.0	14.69	90	0.44	2.9
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.47	40	0.20	40.0
50-001	AMERICAN EEL	C		C		M	25	25.0	11.85	6520	32.13	260.8
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.47	20	0.10	20.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	2	2.0	0.95	350	1.72	175.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	8	8.0	3.79	60	0.30	7.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	5.0	2.37	108	0.53	21.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	38	38.0	18.01	990	4.88	26.0
80-003	YELLOW PERCH	C		MG	V	M	14	14.0	6.64	1248	6.15	89.1

No Species: 13 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 211 **Total Rel. Wt. :** 20294

IBI: 53.2

Appendix C-3
Fish Species List

River: 50-300 Sandy River RM: 3.50 Date: 07/12/2006

Time Fished: 2529 Distance: 1.000 Drainge (sq mi): 579.0 Depth: 0

Location: Lat: 44.74000 Long: -69.89800

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	5.36	2300	19.52	766.6
43-100	FALLFISH	G		FS	LN	E	1	1.0	1.79	105	0.89	105.0
50-001	AMERICAN EEL	C		C		M	5	5.0	8.93	1100	9.33	220.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	1.79	60	0.51	60.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	45	45.0	80.36	8215	69.71	182.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	1.79	5	0.04	5.0

No Species: 6 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 56 **Total Rel. Wt. :** 11785

IBI: 34.0

Appendix C-3
Fish Species List

River: 50-300 Sandy River RM: 4.30 Date: 09/21/2009

Time Fished: 3660 Distance: 1.000 Drainge (sq mi): 578.6 Depth: 110

Location: Dst. Former Dam Lat: 44.73547 Long: -69.89786

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	0.62	160	1.00	80.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	35	35.0	10.87	5420	33.88	154.8
43-026	COMMON SHINER	I		FD	NGL	E	27	27.0	8.39	40	0.25	1.4
43-100	FALLFISH	G		FS	LN	E	179	179.0	55.59	395	2.47	2.2
50-001	AMERICAN EEL	C		C		M	5	5.0	1.55	980	6.13	196.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.31	160	1.00	160.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	72	72.0	22.36	8812	55.09	122.3
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.31	30	0.19	30.0

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 322 **Total Rel. Wt. :** 15997

IBI: 49.8

Appendix C-3
Fish Species List

River: 50-300 Sandy River RM: 4.60 Date: 07/12/2006

Time Fished: 5387 Distance: 1.000 Drainge (sq mi): 572.0 Depth: 0

Location: Lat: 44.73100 Long: -69.89800

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	0.67	230	1.06	115.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	22	22.0	7.36	11085	51.30	503.8
43-026	COMMON SHINER	I		FD	NGL	E	32	32.0	10.70	84	0.39	2.6
43-100	FALLFISH	G		FS	LN	E	28	28.0	9.36	551	2.55	19.6
50-001	AMERICAN EEL	C		C		M	3	3.0	1.00	2290	10.60	763.3
60-001	BURBOT	C		FD	NGL	S	4	4.0	1.34	590	2.73	147.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	183	183.0	61.20	6561	30.36	35.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.33	30	0.14	30.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.33	2	0.01	2.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	21	21.0	7.02	124	0.57	5.9
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	0.67	61	0.28	30.5

No Species: 11 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 299 **Total Rel. Wt. :** 21608

IBI: 43.1

Appendix C-3
Fish Species List

River: 50-300 Sandy River RM: 5.00 Date: 07/12/2006

Time Fished: 2657 Distance: 1.000 Drainge (sq mi): 565.0 Depth: 0

Location: Lat: 44.73316 Long: -69.88530

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.97	20	0.63	20.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.97	12	0.38	12.0
43-026	COMMON SHINER	I		FD	NGL	E	12	12.0	11.65	348	10.93	29.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	1	1.0	0.97	1	0.03	1.0
43-100	FALLFISH	G		FS	LN	E	13	13.0	12.62	58	1.82	4.4
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.97	12	0.38	12.0
50-001	AMERICAN EEL	C		C		M	2	2.0	1.94	650	20.42	325.0
60-001	BURBOT	C		FD	NGL	S	2	2.0	1.94	70	2.20	35.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	55	55.0	53.40	1670	52.47	30.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	3.88	24	0.75	6.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	11	11.0	10.68	318	9.99	28.9

No Species: 11 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 103 **Total Rel. Wt. :** 3183

IBI: 43.0

Appendix C-3
Fish Species List

River: 50-300 Sandy River RM: 5.50 Date: 07/12/2006

Time Fished: 2022 Distance: 1.000 Drainge (sq mi): 563.0 Depth: 0

Location: Lat: 44.72647 Long: -69.88511

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	2.86	710	25.88	355.0
43-026	COMMON SHINER	I		FD	NGL	E	4	4.0	5.71	4	0.15	1.0
43-110	LAKE CHUB	BI		FD	NGL	S	1	1.0	1.43	4	0.15	4.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	41	41.0	58.57	1868	68.10	45.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	5.71	30	1.09	7.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	17	17.0	24.29	126	4.59	7.4
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	1.43	1	0.04	1.0

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 70 **Total Rel. Wt. :** 2743

IBI: 41.3

Appendix C-3
Fish Species List

River: 50-300 Sandy River RM: 5.60 Date: 09/20/2009

Time Fished: 2978 Distance: 1.000 Drainge (sq mi): 578.6 Depth: 110

Location: Bottom of Farmer Impoundment Lat: 44.73084 Long: -69.88546

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	61	61.0	48.41	12140	56.50	199.0
43-100	FALLFISH	G		FS	LN	E	6	6.0	4.76	18	0.08	3.0
50-001	AMERICAN EEL	C		C		M	7	7.0	5.56	4520	21.04	645.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	28	28.0	22.22	4622	21.51	165.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	2.38	28	0.13	9.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.79	20	0.09	20.0
80-003	YELLOW PERCH	C		MG	V	M	20	20.0	15.87	140	0.65	7.0

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 126 **Total Rel. Wt. :** 21488

IBI: 33.3

Appendix C-3
Fish Species List

River: 50-300 Sandy River RM: 6.60 Date: 07/12/2006

Time Fished: 2336 Distance: 1.000 Drainge (sq mi): 576.6 Depth: 0

Location: Dst. Island Pt. top of farmer impoundment Lat: 44.71825 Long: -69.89488

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	12	12.0	8.22	5900	45.13	491.6
43-100	FALLFISH	G		FS	LN	E	5	5.0	3.42	100	0.76	20.0
43-110	LAKE CHUB	BI		FD	NGL	S	1	1.0	0.68	2	0.02	2.0
50-001	AMERICAN EEL	C		C		M	6	6.0	4.11	3300	25.24	550.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	75	75.0	51.37	2630	20.12	35.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	40	40.0	27.40	690	5.28	17.2
80-003	YELLOW PERCH	C		MG	V	M	7	7.0	4.79	451	3.45	64.4

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 146 **Total Rel. Wt. :** 13073

IBI: 42.4

Appendix C-3
Fish Species List

River: 50-300 Sandy River RM: 6.60 Date: 09/20/2009

Time Fished: 2941 Distance: 1.000 Drainge (sq mi): 576.6 Depth: 100

Location: Dst. Island Pt. top of farmer impoundment Lat: 44.71825 Long: -69.89488

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	10	10.0	7.94	8400	41.68	840.0
43-100	FALLFISH	G		FS	LN	E	42	42.0	33.33	20	0.10	0.4
50-001	AMERICAN EEL	C		C		M	3	3.0	2.38	220	1.09	73.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	66	66.0	52.38	11230	55.72	170.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.79	4	0.02	4.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	3	3.0	2.38	220	1.09	73.3
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.79	60	0.30	60.0

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 126 **Total Rel. Wt. :** 20154

IBI: 28.7

Appendix C-3
Fish Species List

River: 50-300 Sandy River RM: 8.30 Date: 07/13/2006

Time Fished: 2415 Distance: 1.000 Drainge (sq mi): 491.0 Depth: 0

Location: Lat: 44.70375 Long: -69.92630

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	169	169.0	49.27	10560	58.89	62.4
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	0.87	35	0.20	11.6
43-026	COMMON SHINER	I		FD	NGL	E	12	12.0	3.50	83	0.46	6.9
43-100	FALLFISH	G		FS	LN	E	46	46.0	13.41	1067	5.95	23.2
50-001	AMERICAN EEL	C		C		M	2	2.0	0.58	2300	12.83	1150.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	85	85.0	24.78	3550	19.80	41.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	8	8.0	2.33	82	0.46	10.2
77-030	REDBREAST SUNFISH	I		MG	PN	E	10	10.0	2.92	71	0.40	7.1
80-003	YELLOW PERCH	C		MG	V	M	8	8.0	2.33	185	1.03	23.1

No Species: 9 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 343 **Total Rel. Wt. :** 17933

IBI: 35.8

Appendix C-3
Fish Species List

River: 50-300 Sandy River RM: 9.00 Date: 07/13/2006

Time Fished: 3650 Distance: 1.000 Drainge (sq mi): 489.0 Depth: 0

Location: Lat: 44.70830 Long: -69.94505

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	14	14.0	8.28	6920	44.39	494.2
43-100	FALLFISH	G		FS	LN	E	4	4.0	2.37	376	2.41	94.0
50-001	AMERICAN EEL	C		C		M	3	3.0	1.78	1520	9.75	506.6
60-001	BURBOT	C		FD	NGL	S	2	2.0	1.18	87	0.56	43.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	134	134.0	79.29	4850	31.11	36.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	5.0	2.96	57	0.37	11.4
77-030	REDBREAST SUNFISH	I		MG	PN	E	7	7.0	4.14	1778	11.41	254.0

No Species: 7 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 169 **Total Rel. Wt. :** 15588

IBI: 36.8

Appendix C-3
Fish Species List

River: 50-300 Sandy River RM: 9.50 Date: 09/20/2009

Time Fished: 3505 Distance: 1.000 Drainge (sq mi): 517.7 Depth: 100

Location: Dst. USGS Gage Station Lat: 44.70856 Long: -69.93934

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	7	7.0	6.86	1800	4.44	257.1
25-003	BROOK TROUT	C		FD	L	S	1	1.0	0.98	140	0.35	140.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	42	42.0	41.18	29430	72.61	700.7
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.98	20	0.05	20.0
50-001	AMERICAN EEL	C		C		M	6	6.0	5.88	2150	5.30	358.3
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.98	220	0.54	220.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	42	42.0	41.18	6750	16.65	160.7
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.96	20	0.05	10.0

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 102 **Total Rel. Wt. :** 40530

IBI: 49.9

Appendix C-3
Fish Species List

River: 50-500 Dead River RM: 15.46 Date: 08/23/2007

Time Fished: 3235 Distance: 1.000 Drainge (sq mi): 760.5 Depth: 0

Location: Below Grand Falls Lat: 45.29800 Long: -70.22254

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	11	11.0	18.33	2863	26.69	260.2
25-011	LANDLOCKED SALMON	C		FD	LN	S	23	23.0	38.33	6870	64.05	298.7
43-026	COMMON SHINER	I		FD	NGL	E	4	4.0	6.67	24	0.22	6.0
43-100	FALLFISH	G		FS	LN	E	2	2.0	3.33	49	0.46	24.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	19	19.0	31.67	832	7.76	43.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	1.67	88	0.82	88.0

No Species: 6 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 60 **Total Rel. Wt. :** 10726

IBI: 49.6

Appendix C-3
Fish Species List

River: 50-500 Dead River RM: 22.00 Date: 09/14/2007

Time Fished: 4350 Distance: 1.000 Drainge (sq mi): 547.9 Depth: 0

Location: Dst. Long Falls Lat: 45.23498 Long: -70.19787

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	2	2.0	0.68	2185	9.34	1092.5
25-003	BROOK TROUT	C		FD	L	S	5	5.0	1.71	1422	6.08	284.4
25-011	LANDLOCKED SALMON	C		FD	LN	S	33	33.0	11.30	6768	28.92	205.0
30-001	RAINBOW SMELT	I		A	L	M	2	2.0	0.68	6	0.03	3.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	49	49.0	16.78	12397	52.97	253.0
43-003	GOLDEN SHINER	G	T	MG	L	E	4	4.0	1.37	38	0.16	9.5
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	0.34	8	0.03	8.0
43-026	COMMON SHINER	I		FD	NGL	E	7	7.0	2.40	52	0.22	7.4
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	3	3.0	1.03	10	0.04	3.3
43-100	FALLFISH	G		FS	LN	E	12	12.0	4.11	30	0.13	2.5
43-110	LAKE CHUB	BI		FD	NGL	S	34	34.0	11.64	354	1.51	10.4
80-003	YELLOW PERCH	C		MG	V	M	140	140.0	47.95	136	0.58	0.9

No Species: 12 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 292 **Total Rel. Wt. :** 23406

IBI: 65.3

Appendix C-3
Fish Species List

River: 50-600 West Outlet - Moosehead Lake RM: 0.83 Date: 08/17/2007

Time Fished: 5153 Distance: 1.000 Drainge (sq mi): 1263.0 Depth: 0

Location: Below 2nd Deadwater Lat: 45.57900 Long: -69.76676

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	3	3.0	1.57	510	3.77	170.0
25-011	LANDLOCKED SALMON	C		FD	LN	S	1	1.0	0.52	200	1.48	200.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	19	19.0	9.95	3350	24.76	176.3
43-100	FALLFISH	G		FS	LN	E	20	20.0	10.47	962	7.11	48.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	102	102.0	53.40	7479	55.27	73.3
80-003	YELLOW PERCH	C		MG	V	M	46	46.0	24.08	1031	7.62	22.4

No Species: 6 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 191 **Total Rel. Wt. :** 13532

IBI: 41.4

Appendix C-3
Fish Species List

River: 50-600 West Outlet - Moosehead Lake RM: 6.65 Date: 08/17/2007

Time Fished: 3777 Distance: 1.000 Drainge (sq mi): 1258.0 Depth: 0

Location: Pond in River Dst. Lat: 45.63152 Long: -69.76514

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	18	18.0	11.04	2930	28.80	162.7
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	1.23	35	0.34	17.5
43-026	COMMON SHINER	I		FD	NGL	E	14	14.0	8.59	38	0.37	2.7
43-100	FALLFISH	G		FS	LN	E	43	43.0	26.38	1639	16.11	38.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	45	45.0	27.61	4300	42.26	95.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	20	20.0	12.27	320	3.15	16.0
80-003	YELLOW PERCH	C		MG	V	M	21	21.0	12.88	912	8.96	43.4

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 163 **Total Rel. Wt. :** 10174

IBI: 35.3

Appendix C-3
Fish Species List

River: 50-600 West Outlet - Moosehead Lake RM: 8.36 Date: 08/17/2007

Time Fished: 2564 Distance: 0.500 Drainge (sq mi): 1253.0 Depth: 0

Location: Dst. St. Rt. 6/15 Lat: 45.64896 Long: -69.75366

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	29	58.0	7.02	3038	28.81	52.3
43-003	GOLDEN SHINER	G	T	MG	L	E	1	2.0	0.24	86	0.82	43.0
43-013	CREEK CHUB	I	T	MG	L	E	1	2.0	0.24	44	0.42	22.0
43-026	COMMON SHINER	I		FD	NGL	E	21	42.0	5.08	272	2.58	6.4
43-100	FALLFISH	G		FS	LN	E	276	552.0	66.83	4902	46.49	8.8
74-003	WHITE PERCH	C		MG	L	M	2	4.0	0.48	56	0.53	14.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	22.0	2.66	1096	10.39	49.8
80-003	YELLOW PERCH	C		MG	V	M	72	144.0	17.43	1050	9.96	7.2

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 413 **Total Rel. Wt. :** 10544

IBI: 45.1

Appendix C-3
Fish Species List

River: 50-700 East Outlet - Moosehead Lake RM: 0.90 Date: 08/18/2007

Time Fished: 2762 Distance: 1.000 Drainge (sq mi): 1253.0 Depth: 0

Location: Dst. Sluice 1/2 Mile Lat: 45.56534 Long: -69.73679

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	36	36.0	73.47	3799	43.38	105.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	2.04	1200	13.70	1200.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	2.04	143	1.63	143.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	5	5.0	10.20	3583	40.91	716.6
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	2.04	5	0.06	5.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	4	4.0	8.16	26	0.30	6.5
95-001	BROOK STICKLEBACK	I		MG	VCN	M	1	1.0	2.04	2	0.02	2.0

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 49 **Total Rel. Wt. :** 8758

IBI: 51.8

Appendix C-3
Fish Species List

River: 50-700 East Outlet - Moosehead Lake RM: 2.47 Date: 08/18/2007

Time Fished: 2931 Distance: 1.000 Drainge (sq mi): 1251.0 Depth: 0

Location: Dst. Dam St. Rt. 6/15 Lat: 45.58306 Long: -69.72125

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	22	22.0	34.38	591	10.31	26.8
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	9.38	3350	58.43	558.3
43-100	FALLFISH	G		FS	LN	E	1	1.0	1.56	2	0.03	2.0
60-001	BURBOT	C		FD	NGL	S	2	2.0	3.13	191	3.33	95.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	3	3.0	4.69	1397	24.37	465.6
90-003	SLIMY SCULPIN	BI		FS	NGL	S	30	30.0	46.88	202	3.52	6.7

No Species: 6 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 64 **Total Rel. Wt. :** 5733

IBI: 60.9

Appendix C-3
Fish Species List

River: 50-900 Moose River RM: 26.47 Date: 08/22/2007

Time Fished: 5370 Distance: 1.000 Drainge (sq mi): 414.6 Depth: 0

Location: DS. Jackman Campground Lat: 45.63621 Long: -70.21281

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.27	158	4.54	158.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	13	13.0	3.56	278	7.98	21.3
43-003	GOLDEN SHINER	G	T	MG	L	E	16	16.0	4.38	96	2.76	6.0
43-013	CREEK CHUB	I	T	MG	L	E	123	123.0	33.70	691	19.84	5.6
43-026	COMMON SHINER	I		FD	NGL	E	44	44.0	12.05	182	5.23	4.1
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	3	3.0	0.82	2	0.06	0.6
43-100	FALLFISH	G		FS	LN	E	75	75.0	20.55	745	21.39	9.9
43-110	LAKE CHUB	BI		FD	NGL	S	8	8.0	2.19	88	2.53	11.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	1.10	65	1.87	16.2
80-003	YELLOW PERCH	C		MG	V	M	78	78.0	21.37	1178	33.82	15.1

No Species: 10 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 365 **Total Rel. Wt. :** 3483

IBI: 50.7

Appendix C-3
Fish Species List

River: 55-100 Quinebaug River RM: 14.10 Date: 10/04/2009

Time Fished: 3634 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 210

Location: Lat: 41.67571 Long: -71.95352

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	38	38.0	20.43	40800	42.20	1073.6
43-001	COMMON CARP	O	T	MG	V	E	10	10.0	5.38	40400	41.78	4040.0
43-100	FALLFISH	G		FS	LN	E	7	7.0	3.76	560	0.58	80.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	1.08	240	0.25	120.0
50-001	AMERICAN EEL	C		C		M	3	3.0	1.61	880	0.91	293.3
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.54	200	0.21	200.0
77-003	ROCK BASS	C		MG	LN	E	47	47.0	25.27	7400	7.65	157.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	3	3.0	1.61	300	0.31	100.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	1.08	2800	2.90	1400.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	9	9.0	4.84	530	0.55	58.8
77-030	REDBREAST SUNFISH	I		MG	PN	E	54	54.0	29.03	1280	1.32	23.7
80-003	YELLOW PERCH	C		MG	V	M	10	10.0	5.38	1300	1.34	130.0

No Species: 12 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 186 **Total Rel. Wt. :** 96690

IBI: 26.0

Appendix C-3
Fish Species List

River: 55-100 Quinebaug River RM: 15.20 Date: 10/04/2009

Time Fished: 3630 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 90

Location: Lat: 41.67571 Long: -71.95547

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	29	29.0	16.20	25100	51.02	865.5
43-001	COMMON CARP	O	T	MG	V	E	3	3.0	1.68	15700	31.92	5233.3
43-100	FALLFISH	G		FS	LN	E	8	8.0	4.47	520	1.06	65.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.56	200	0.41	200.0
74-003	WHITE PERCH	C		MG	L	M	27	27.0	15.08	4020	8.17	148.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	6	6.0	3.35	480	0.98	80.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	4	4.0	2.23	540	1.10	135.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	3	3.0	1.68	252	0.51	84.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	97	97.0	54.19	2160	4.39	22.2
80-001	SAUGER						1	1.0	0.56	220	0.45	220.0

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 179 **Total Rel. Wt. :** 49192

IBI: 23.7

Appendix C-3
Fish Species List

River: 55-100 Quinebaug River RM: 21.50 Date: 10/10/2008

Time Fished: 3420 Distance: 1.000 Drainge (sq mi): 462.3 Depth: 100

Location: DST Danielson WWTP Lat: 41.78220 Long: -71.89589

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	43	43.0	25.75	35000	76.03	813.9
43-001	COMMON CARP	O	T	MG	V	E	1	1.0	0.60	3480	7.56	3480.0
43-100	FALLFISH	G		FS	LN	E	52	52.0	31.14	2610	5.67	50.1
50-001	AMERICAN EEL	C		C		M	1	1.0	0.60	240	0.52	240.0
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.60	5	0.01	5.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	31	31.0	18.56	2710	5.89	87.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	1.80	20	0.04	6.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	27	27.0	16.17	1265	2.75	46.8
80-003	YELLOW PERCH	C		MG	V	M	8	8.0	4.79	705	1.53	88.1

No Species: 9 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 167 **Total Rel. Wt. :** 46035

IBI: 29.3

Appendix C-3
Fish Species List

River: 55-100 Quinebaug River RM: 24.90 Date: 10/06/2009

Time Fished: 3273 Distance: 1.000 Drainge (sq mi): 400.0 Depth: 150

Location: Lat: 41.78410 Long: -71.89008

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.72	290	0.50	290.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	30	30.0	21.58	31400	53.94	1046.6
43-001	COMMON CARP	O	T	MG	V	E	4	4.0	2.88	15400	26.45	3850.0
43-100	FALLFISH	G		FS	LN	E	10	10.0	7.19	1420	2.44	142.0
50-001	AMERICAN EEL	C		C		M	3	3.0	2.16	1080	1.86	360.0
74-003	WHITE PERCH	C		MG	L	M	2	2.0	1.44	560	0.96	280.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	37	37.0	26.62	4720	8.11	127.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	9	9.0	6.47	774	1.33	86.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	42	42.0	30.22	2430	4.17	57.8
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.72	140	0.24	140.0

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 139 **Total Rel. Wt. :** 58214

IBI: 37.3

Appendix C-3
Fish Species List

River: 55-100 Quinebaug River RM: 31.30 Date: 10/10/2008

Time Fished: 2700 Distance: 1.000 Drainge (sq mi): 372.9 Depth: 100

Location: DST at Rogers Corporation Lat: 41.83809 Long: -71.91092

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	3	3.0	1.73	75	0.08	25.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	20	20.0	11.56	16310	18.30	815.5
43-001	COMMON CARP	O	T	MG	V	E	14	14.0	8.09	62480	70.10	4462.8
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	1.16	15	0.02	7.5
43-016	SOUTH. REDBELLY DACE						4	4.0	2.31	500	0.56	125.0
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	1.73	65	0.07	21.6
43-100	FALLFISH	G		FS	LN	E	43	43.0	24.86	591	0.66	13.7
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.58	80	0.09	80.0
50-001	AMERICAN EEL	C		C		M	2	2.0	1.16	610	0.68	305.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	44	44.0	25.43	7580	8.50	172.2
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.58	10	0.01	10.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	2	2.0	1.16	30	0.03	15.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	3.47	75	0.08	12.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	25	25.0	14.45	575	0.65	23.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.16	125	0.14	62.5
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.58	10	0.01	10.0

No Species: 16 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 173 **Total Rel. Wt. :** 89131

IBI: 37.7

Appendix C-3
Fish Species List

River: 55-100 Quinebaug River RM: 38.10 Date: 10/05/2009

Time Fished: 3150 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 50

Location: Lat: 41.91109 Long: -71.91237

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	15	15.0	5.05	4165	6.93	277.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	83	83.0	27.95	44020	73.29	530.3
43-003	GOLDEN SHINER	G	T	MG	L	E	5	5.0	1.68	72	0.12	14.4
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	1.01	140	0.23	46.6
43-028	SPOTTAIL SHINER	I	P	MG	L	E	1	1.0	0.34	10	0.02	10.0
43-100	FALLFISH	G		FS	LN	E	14	14.0	4.71	1298	2.16	92.7
47-005	BROWN BULLHEAD	G	T	MG	P	E	9	9.0	3.03	880	1.47	97.7
50-001	AMERICAN EEL	C		C		M	2	2.0	0.67	380	0.63	190.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	2	2.0	0.67	10	0.02	5.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	8	8.0	2.69	1220	2.03	152.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	9	9.0	3.03	300	0.50	33.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	26	26.0	8.75	440	0.73	16.9
77-030	REDBREAST SUNFISH	I		MG	PN	E	116	116.0	39.06	6630	11.04	57.1
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	1.35	500	0.83	125.0

No Species: 14 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 297 **Total Rel. Wt. :** 60065

IBI: 40.9

Appendix C-3
Fish Species List

River: 55-110 Shetucket River RM: 4.00 Date: 10/06/2009

Time Fished: 3747 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 50

Location: Lat: 41.59716 Long: -72.04906

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-005	BLUEBACK HERRING	PL		A	NGL	M	1	1.0	0.20	10	0.01	10.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	0.60	1480	1.03	493.3
43-001	COMMON CARP	O	T	MG	V	E	47	47.0	9.34	119980	83.19	2552.7
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.40	40	0.03	20.0
43-100	FALLFISH	G		FS	LN	E	2	2.0	0.40	180	0.12	90.0
50-001	AMERICAN EEL	C		C		M	2	2.0	0.40	780	0.54	390.0
77-002	BLACK CRAPPIE	C		MG	PN	E	3	3.0	0.60	88	0.06	29.3
77-003	ROCK BASS	C		MG	LN	E	74	74.0	14.71	5184	3.59	70.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	24	24.0	4.77	3360	2.33	140.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	6	6.0	1.19	2674	1.85	445.6
77-008	GREEN SUNFISH	I		MG	VN	E	4	4.0	0.80	310	0.21	77.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	159	159.0	31.61	3689	2.56	23.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	166	166.0	33.00	5920	4.10	35.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	8	8.0	1.59	350	0.24	43.7
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	0.40	180	0.12	90.0

No Species: 15 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 503 **Total Rel. Wt. :** 144225

IBI: 21.5

Appendix C-3
Fish Species List

River: 55-110 Shetucket River RM: 6.30 Date: 10/11/2008

Time Fished: 2440 Distance: 1.000 Drainge (sq mi): 450.4 Depth: 50

Location: UST SR. 207 bridge Lat: 41.62374 Long: -72.08733

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	9	9.0	9.57	8280	31.17	920.0
25-010	ATLANTIC SALMON	C		A	LN	S	7	7.0	7.45	12700	47.81	1814.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	1.06	60	0.23	60.0
43-100	FALLFISH	G		FS	LN	E	18	18.0	19.15	415	1.56	23.0
50-001	AMERICAN EEL	C		C		M	6	6.0	6.38	710	2.67	118.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	52	52.0	55.32	4391	16.53	84.4
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	1.06	10	0.04	10.0

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 94 **Total Rel. Wt. :** 26566

IBI: 38.2

Appendix C-3
Fish Species List

River: 55-200 Farmington River RM: 0.30 Date: 08/31/2009

Time Fished: 3702 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 270

Location: Lat: 41.84447 Long: -72.63790

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.17	10	0.02	10.0
20-006	AMERICAN SHAD	PL		A	PS	M	5	5.0	0.84	14	0.03	2.8
34-001	CENTRAL MUDMINNOW	I	T	MG	VN	E	1	1.0	0.17	20	0.04	20.0
37-003	NORTHERN PIKE	P		MG	L	M	2	2.0	0.34	1960	3.66	980.0
37-007	REDFIN PICKEREL	P	P	MG		M	2	2.0	0.34	34	0.06	17.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	33	33.0	5.54	28040	52.42	849.7
43-001	COMMON CARP	O	T	MG	V	E	4	4.0	0.67	13700	25.61	3425.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	488	488.0	81.88	4055	7.58	8.3
50-001	AMERICAN EEL	C		C		M	5	5.0	0.84	280	0.52	56.0
74-003	WHITE PERCH	C		MG	L	M	4	4.0	0.67	220	0.41	55.0
77-002	BLACK CRAPPIE	C		MG	PN	E	2	2.0	0.34	220	0.41	110.0
77-003	ROCK BASS	C		MG	LN	E	4	4.0	0.67	380	0.71	95.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	3	3.0	0.50	2530	4.73	843.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	0.34	210	0.39	105.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	14	14.0	2.35	480	0.90	34.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	0.50	50	0.09	16.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.17	14	0.03	14.0
80-003	YELLOW PERCH	C		MG	V	M	20	20.0	3.36	1260	2.36	63.0
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	0.34	12	0.02	6.0

No Species: 19 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 596 **Total Rel. Wt. :** 53489

IBI: 33.3

Appendix C-3
Fish Species List

River: 55-200 Farmington River RM: 2.20 Date: 08/31/2009

Time Fished: 3740 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 200

Location: Lat: 41.86233 Long: -72.64698

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	10	10.0	4.57	40	0.09	4.0
37-003	NORTHERN PIKE	P		MG	L	M	2	2.0	0.91	2510	5.57	1255.0
37-007	REDFIN PICKEREL	P	P	MG		M	1	1.0	0.46	15	0.03	15.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	33	33.0	15.07	29110	64.57	882.1
43-028	SPOTTAIL SHINER	I	P	MG	L	E	86	86.0	39.27	343	0.76	3.9
43-100	FALLFISH	G		FS	LN	E	3	3.0	1.37	56	0.12	18.6
47-002	CHANNEL CATFISH						3	3.0	1.37	5530	12.27	1843.3
50-001	AMERICAN EEL	C		C		M	5	5.0	2.28	320	0.71	64.0
74-003	WHITE PERCH	C		MG	L	M	5	5.0	2.28	420	0.93	84.0
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.46	100	0.22	100.0
77-003	ROCK BASS	C		MG	LN	E	3	3.0	1.37	340	0.75	113.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	6	6.0	2.74	2150	4.77	358.3
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	9	9.0	4.11	200	0.44	22.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.46	30	0.07	30.0
80-003	YELLOW PERCH	C		MG	V	M	51	51.0	23.29	3920	8.69	76.8

No Species: 15 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 219 **Total Rel. Wt. :** 45084

IBI: 30.6

Appendix C-3
Fish Species List

River: 55-200 Farmington River RM: 5.60 Date: 09/01/2009

Time Fished: 3000 Distance: 1.000 Drainge (sq mi): 591.0 Depth: 80

Location: UST I-91 bridge, Windsor, CT Lat: 41.89168 Long: -72.66233

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	7	7.0	2.41	20	0.06	2.8
20-006	AMERICAN SHAD	PL		A	PS	M	1	1.0	0.34	7	0.02	7.0
37-007	REDFIN PICKEREL	P	P	MG		M	2	2.0	0.69	80	0.25	40.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	18	18.0	6.21	8920	27.89	495.5
43-001	COMMON CARP	O	T	MG	V	E	3	3.0	1.03	16180	50.60	5393.3
50-001	AMERICAN EEL	C		C		M	173	173.0	59.66	1826	5.71	10.5
74-003	WHITE PERCH	C		MG	L	M	9	9.0	3.10	620	1.94	68.8
77-002	BLACK CRAPPIE	C		MG	PN	E	6	6.0	2.07	480	1.50	80.0
77-003	ROCK BASS	C		MG	LN	E	16	16.0	5.52	650	2.03	40.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	15	15.0	5.17	1940	6.07	129.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.34	70	0.22	70.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	9	9.0	3.10	170	0.53	18.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	12	12.0	4.14	215	0.67	17.9
77-030	REDBREAST SUNFISH	I		MG	PN	E	9	9.0	3.10	210	0.66	23.3
80-003	YELLOW PERCH	C		MG	V	M	7	7.0	2.41	580	1.81	82.8
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	0.69	10	0.03	5.0

No Species: 16 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 290 **Total Rel. Wt. :** 31978

IBI: 31.7

Appendix C-3
Fish Species List

River: 55-200 Farmington River RM: 21.80 Date: 09/29/2009

Time Fished: 3540 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 170

Location: Lat: 41.80000 Long: -72.80697

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	114	114.0	42.54	1310	2.15	11.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	61	61.0	22.76	48560	79.88	796.0
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	1.12	60	0.10	20.0
43-100	FALLFISH	G		FS	LN	E	8	8.0	2.99	760	1.25	95.0
50-001	AMERICAN EEL	C		C		M	13	13.0	4.85	6180	10.17	475.3
77-002	BLACK CRAPPIE	C		MG	PN	E	2	2.0	0.75	140	0.23	70.0
77-003	ROCK BASS	C		MG	LN	E	2	2.0	0.75	200	0.33	100.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	7	7.0	2.61	580	0.95	82.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	4	4.0	1.49	252	0.41	63.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	20	20.0	7.46	720	1.18	36.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	15	15.0	5.60	480	0.79	32.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	6	6.0	2.24	200	0.33	33.3
80-003	YELLOW PERCH	C		MG	V	M	12	12.0	4.48	1340	2.20	111.6
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.37	8	0.01	8.0

No Species: 14 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 268 **Total Rel. Wt. :** 60790

IBI: 40.9

Appendix C-3
Fish Species List

River: 55-200 Farmington River RM: 25.70 Date: 09/30/2009

Time Fished: 3663 Distance: 1.000 Drainge (sq mi): 476.0 Depth: 110

Location: UST SR 44 bridge. Avon, CT Lat: 41.80310 Long: -72.82963

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	34	34.0	20.99	260	0.61	7.6
37-007	REDFIN PICKEREL	P	P	MG		M	1	1.0	0.62	40	0.09	40.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	43	43.0	26.54	35148	82.39	817.4
43-100	FALLFISH	G		FS	LN	E	10	10.0	6.17	112	0.26	11.2
50-001	AMERICAN EEL	C		C		M	14	14.0	8.64	4590	10.76	327.8
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.62	60	0.14	60.0
77-003	ROCK BASS	C		MG	LN	E	3	3.0	1.85	240	0.56	80.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	11.0	6.79	1236	2.90	112.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	1.85	74	0.17	24.6
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	10	10.0	6.17	222	0.52	22.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	8	8.0	4.94	228	0.53	28.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	4	4.0	2.47	88	0.21	22.0
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	2.47	318	0.75	79.5
80-035	TESSELATED DARTER	BI		FD		M	16	16.0	9.88	46	0.11	2.8

No Species: 14 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 162 **Total Rel. Wt. :** 42662

IBI: 34.6

Appendix C-3
Fish Species List

River: 55-250 W. Br. Farmington River RM: 15.30 Date: 09/29/2009

Time Fished: 3520 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 80

Location: Lat: 41.87385 Long: -72.96462

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	76	76.0	21.84	6090	9.85	80.1
25-003	BROOK TROUT	C		FD	L	S	5	5.0	1.44	505	0.82	101.0
25-010	ATLANTIC SALMON	C		A	LN	S	90	90.0	25.86	3255	5.26	36.1
40-016	WHITE SUCKER	I	T	FD	NGL	M	70	70.0	20.11	48590	78.55	694.1
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	6	6.0	1.72	30	0.05	5.0
43-013	CREEK CHUB	I	T	MG	L	E	4	4.0	1.15	120	0.19	30.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	82	82.0	23.56	264	0.43	3.2
50-001	AMERICAN EEL	C		C		M	9	9.0	2.59	2960	4.79	328.8
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	0.57	18	0.03	9.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	4	4.0	1.15	25	0.04	6.2

No Species: 10 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 348 **Total Rel. Wt. :** 61857

IBI: 67.5

Appendix C-3
Fish Species List

River: 55-300 Pawcatuck River RM: 4.20 Date: 06/28/2009

Time Fished: 0 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 80

Location: Lat: 41.39803 Long: -71.84196

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-010	ATLANTIC SALMON	C		A	LN	S	11	11.0	8.73	680	1.22	61.8
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	1.59	300	0.54	150.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	50	50.0	39.68	51210	91.56	1024.2
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.79	10	0.02	10.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	1	1.0	0.79	10	0.02	10.0
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.79	80	0.14	80.0
47-003	WHITE CATFISH	I		MG	P	E	4	4.0	3.17	182	0.33	45.5
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.79	200	0.36	200.0
50-001	AMERICAN EEL	C		C		M	11	11.0	8.73	1620	2.90	147.2
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	1	1.0	0.79	50	0.09	50.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	4	4.0	3.17	130	0.23	32.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	2.38	110	0.20	36.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	36	36.0	28.57	1346	2.41	37.3

No Species: 13 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 126 **Total Rel. Wt. :** 55928

IBI: 62.9

Appendix C-3
Fish Species List

River: 55-300 Pawcatuck River RM: 4.20 Date: 10/07/2009

Time Fished: 3089 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 70

Location: Lat: 41.39803 Long: -71.84196

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	4	4.0	2.99	640	0.79	160.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	69	69.0	51.49	76280	94.29	1105.5
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.75	20	0.02	20.0
47-003	WHITE CATFISH	I		MG	P	E	12	12.0	8.96	890	1.10	74.1
50-001	AMERICAN EEL	C		C		M	15	15.0	11.19	840	1.04	56.0
60-002	ATLANTIC TOMCOD	I		TS	P	M	1	1.0	0.75	20	0.02	20.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	16	16.0	11.94	1470	1.82	91.8
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	10	10.0	7.46	520	0.64	52.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	5	5.0	3.73	200	0.25	40.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.75	20	0.02	20.0

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 134 **Total Rel. Wt. :** 80900

IBI: 32.5

Appendix C-3
Fish Species List

River: 55-300 Pawcatuck River RM: 7.60 Date: 06/27/2009

Time Fished: 3526 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 75

Location: Lat: 41.41238 Long: -71.83865

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	2.02	190	0.58	95.0
37-007	REDFIN PICKEREL	P	P	MG		M	1	1.0	1.01	0	0.00	0.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	20	20.0	20.20	23560	72.21	1178.0
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	2.02	17	0.05	8.5
43-100	FALLFISH	G		FS	LN	E	9	9.0	9.09	24	0.07	2.6
47-003	WHITE CATFISH	I		MG	P	E	1	1.0	1.01	200	0.61	200.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	2.02	3311	10.15	1655.5
50-001	AMERICAN EEL	C		C		M	13	13.0	13.13	1300	3.98	100.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	12	12.0	12.12	2450	7.51	204.1
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	8	8.0	8.08	130	0.40	16.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	1.01	40	0.12	40.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	27	27.0	27.27	1400	4.29	51.8
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	1.01	4	0.01	4.0

No Species: 13 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 99 **Total Rel. Wt. :** 32626

IBI: 36.4

Appendix C-3
Fish Species List

River: 55-300 Pawcatuck River RM: 8.60 Date: 06/27/2009

Time Fished: 0 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 120

Location: Lat: 41.41879 Long: -71.82120

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	6	6.0	6.06	2370	6.75	395.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	25	25.0	25.25	26630	75.82	1065.2
40-020	CREEK CHUBSUCKER	I		FD	NGL	M	1	1.0	1.01	10	0.03	10.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	1	1.0	1.01	8	0.02	8.0
43-100	FALLFISH	G		FS	LN	E	5	5.0	5.05	45	0.13	9.0
47-003	WHITE CATFISH	I		MG	P	E	3	3.0	3.03	1590	4.53	530.0
50-001	AMERICAN EEL	C		C		M	13	13.0	13.13	1400	3.99	107.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	5.05	1780	5.07	356.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	7	7.0	7.07	110	0.31	15.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	2.02	75	0.21	37.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	26	26.0	26.26	745	2.12	28.6
80-003	YELLOW PERCH	C		MG	V	M	5	5.0	5.05	360	1.02	72.0

No Species: 12 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 99 **Total Rel. Wt. :** 35123

IBI: 43.6

Appendix C-3
Fish Species List

River: 55-300 Pawcatuck River RM: 10.10 Date: 09/02/2009

Time Fished: 3587 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 70

Location: Lat: 41.41435 Long: -71.79675

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.63	60	0.15	60.0
37-007	REDFIN PICKEREL	P	P	MG		M	2	2.0	1.26	15	0.04	7.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	24	24.0	15.09	25360	64.25	1056.6
43-003	GOLDEN SHINER	G	T	MG	L	E	7	7.0	4.40	115	0.29	16.4
47-003	WHITE CATFISH	I		MG	P	E	6	6.0	3.77	1400	3.55	233.3
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	1.26	200	0.51	100.0
50-001	AMERICAN EEL	C		C		M	12	12.0	7.55	1930	4.89	160.8
77-002	BLACK CRAPPIE	C		MG	PN	E	6	6.0	3.77	200	0.51	33.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	2	2.0	1.26	600	1.52	300.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	10	10.0	6.29	6564	16.63	656.4
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	44	44.0	27.67	1820	4.61	41.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	8	8.0	5.03	260	0.66	32.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	30	30.0	18.87	705	1.79	23.5
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	1.89	220	0.56	73.3
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	1.26	20	0.05	10.0

No Species: 15 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 159 **Total Rel. Wt. :** 39469

IBI: 27.1

Appendix C-3
Fish Species List

River: 55-300 Pawcatuck River RM: 12.40 Date: 06/28/2009

Time Fished: 3471 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 250

Location: Lat: 41.39259 Long: -71.79353

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	1.13	820	6.11	410.0
37-007	REDFIN PICKEREL	P	P	MG		M	11	11.0	6.21	1070	7.97	97.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	1.69	2800	20.87	933.3
43-003	GOLDEN SHINER	G	T	MG	L	E	5	5.0	2.82	20	0.15	4.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	1.13	550	4.10	275.0
50-001	AMERICAN EEL	C		C		M	20	20.0	11.30	3030	22.58	151.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	11	11.0	6.21	350	2.61	31.8
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	38	38.0	21.47	1002	7.47	26.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	12	12.0	6.78	700	5.22	58.3
77-030	REDBREAST SUNFISH	I		MG	PN	E	8	8.0	4.52	546	4.07	68.2
80-002	WALLEYE	C		MG		M	2	2.0	1.13	70	0.52	35.0
80-003	YELLOW PERCH	C		MG	V	M	63	63.0	35.59	2460	18.33	39.0

No Species: 12 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 177 **Total Rel. Wt. :** 13418

IBI: 25.3

Appendix C-3
Fish Species List

River: 55-300 Pawcatuck River RM: 13.40 Date: 06/26/2009

Time Fished: 3833 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 190

Location: Lat: 41.38988 Long: -71.78378

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	6	6.0	2.63	581	2.94	96.8
37-007	REDFIN PICKEREL	P	P	MG		M	6	6.0	2.63	302	1.53	50.3
43-003	GOLDEN SHINER	G	T	MG	L	E	29	29.0	12.72	380	1.92	13.1
50-001	AMERICAN EEL	C		C		M	20	20.0	8.77	2600	13.14	130.0
77-002	BLACK CRAPPIE	C		MG	PN	E	5	5.0	2.19	90	0.45	18.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	17	17.0	7.46	1950	9.85	114.7
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	35	35.0	15.35	2210	11.17	63.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	2.63	430	2.17	71.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	12	12.0	5.26	840	4.24	70.0
80-003	YELLOW PERCH	C		MG	V	M	92	92.0	40.35	10407	52.59	113.1

No Species: 11 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 228 **Total Rel. Wt. :** 19790

IBI: 21.4

Appendix C-3
Fish Species List

River: 55-300 Pawcatuck River RM: 13.50 Date: 06/26/2009

Time Fished: 4316 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 310

Location: Lat: 41.38908 Long: -71.77897

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	6	6.0	2.53	30	0.20	5.0
37-007	REDFIN PICKEREL	P	P	MG		M	9	9.0	3.80	270	1.80	30.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	1.27	2500	16.63	833.3
40-020	CREEK CHUBSUCKER	I		FD	NGL	M	1	1.0	0.42	25	0.17	25.0
43-003	GOLDEN SHINER	G	T	MG	L	E	8	8.0	3.38	30	0.20	3.7
50-001	AMERICAN EEL	C		C		M	13	13.0	5.49	2350	15.63	180.7
77-003	ROCK BASS	C		MG	LN	E	11	11.0	4.64	1180	7.85	107.2
77-006	LARGEMOUTH BASS	C		MG	PN	E	8	8.0	3.38	1310	8.71	163.7
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	75	75.0	31.65	2070	13.77	27.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.84	140	0.93	70.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	6	6.0	2.53	440	2.93	73.3
80-003	YELLOW PERCH	C		MG	V	M	95	95.0	40.08	4690	31.19	49.3

No Species: 12 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 237 **Total Rel. Wt. :** 15035

IBI: 34.5

Appendix C-3
Fish Species List

River: 55-300 Pawcatuck River RM: 18.00 Date: 06/25/2009

Time Fished: 3783 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 240

Location: Lat: 41.40095 Long: -71.73458

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	3	3.0	1.30	980	6.05	326.6
37-002	CHAIN PICKEREL	P		MG	L	M	7	7.0	3.04	100	0.62	14.2
37-007	REDFIN PICKEREL	P	P	MG		M	13	13.0	5.65	670	4.13	51.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	0.87	2550	15.74	1275.0
40-020	CREEK CHUBSUCKER	I		FD	NGL	M	3	3.0	1.30	40	0.25	13.3
43-003	GOLDEN SHINER	G	T	MG	L	E	20	20.0	8.70	40	0.25	2.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	0.87	40	0.25	20.0
50-001	AMERICAN EEL	C		C		M	12	12.0	5.22	990	6.11	82.5
77-002	BLACK CRAPPIE	C		MG	PN	E	4	4.0	1.74	240	1.48	60.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	0.87	2450	15.12	1225.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	14	14.0	6.09	170	1.05	12.1
77-030	REDBREAST SUNFISH	I		MG	PN	E	14	14.0	6.09	960	5.92	68.5
80-003	YELLOW PERCH	C		MG	V	M	134	134.0	58.26	6975	43.04	52.0

No Species: 13 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 230 **Total Rel. Wt. :** 16205

IBI: 43.0

Appendix C-3
Fish Species List

River: 55-300 Pawcatuck River RM: 20.50 Date: 06/28/2009

Time Fished: 0 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 110

Location: Lat: 41.41661 Long: -71.72861

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	6	6.0	1.32	1960	7.21	326.6
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.44	105	0.39	52.5
37-007	REDFIN PICKEREL	P	P	MG		M	8	8.0	1.77	340	1.25	42.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	14	14.0	3.09	17450	64.20	1246.4
40-020	CREEK CHUBSUCKER	I		FD	NGL	M	1	1.0	0.22	85	0.31	85.0
43-003	GOLDEN SHINER	G	T	MG	L	E	23	23.0	5.08	220	0.81	9.5
47-003	WHITE CATFISH	I		MG	P	E	1	1.0	0.22	12	0.04	12.0
50-001	AMERICAN EEL	C		C		M	4	4.0	0.88	500	1.84	125.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	0.44	170	0.63	85.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	7	7.0	1.55	40	0.15	5.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	0.66	43	0.16	14.3
77-030	REDBREAST SUNFISH	I		MG	PN	E	10	10.0	2.21	260	0.96	26.0
80-003	YELLOW PERCH	C		MG	V	M	371	371.0	81.90	5992	22.04	16.1
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.22	4	0.01	4.0

No Species: 14 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 453 **Total Rel. Wt. :** 27181

IBI: 46.2

Appendix C-3
Fish Species List

River: 55-300 Pawcatuck River RM: 21.90 Date: 06/25/2009

Time Fished: 3723 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 0

Location: Lat: 41.42840 Long: -71.71884

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	5	5.0	2.92	1330	5.19	266.0
25-010	ATLANTIC SALMON	C		A	LN	S	2	2.0	1.17	100	0.39	50.0
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	1.17	300	1.17	150.0
37-007	REDFIN PICKEREL	P	P	MG		M	3	3.0	1.75	120	0.47	40.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	21	21.0	12.28	17300	67.52	823.8
40-020	CREEK CHUBSUCKER	I		FD	NGL	M	1	1.0	0.58	80	0.31	80.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.58	20	0.08	20.0
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.58	30	0.12	30.0
50-001	AMERICAN EEL	C		C		M	6	6.0	3.51	400	1.56	66.6
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.58	30	0.12	30.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	1.75	690	2.69	230.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	3	3.0	1.75	36	0.14	12.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	1.17	85	0.33	42.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	13	13.0	7.60	680	2.65	52.3
80-003	YELLOW PERCH	C		MG	V	M	105	105.0	61.40	4410	17.21	42.0
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	1.17	12	0.05	6.0

No Species: 16 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 171 **Total Rel. Wt. :** 25623

IBI: 55.3

Appendix C-3
Fish Species List

River: 56-001 Housatonic River RM: 43.10 Date: 09/29/2008

Time Fished: 4542 Distance: 1.000 Drainge (sq mi): 1120.5 Depth: 0

Location: UST bridge, New MIlford, CT Lat: 41.57493 Long: -73.41535

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	3.75	2620	7.39	436.6
43-001	COMMON CARP	O	T	MG	V	E	5	5.0	3.13	23300	65.74	4660.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	1	1.0	0.63	10	0.03	10.0
43-043	BLUNTNOSE MINNOW		T				2	2.0	1.25	10	0.03	5.0
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.63	230	0.65	230.0
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.63	190	0.54	190.0
77-003	ROCK BASS	C		MG	LN	E	19	19.0	11.88	1460	4.12	76.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	37	37.0	23.13	3383	9.54	91.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	7	7.0	4.38	690	1.95	98.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	2	2.0	1.25	45	0.13	22.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.63	90	0.25	90.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	72	72.0	45.00	2405	6.79	33.4
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	3.75	1010	2.85	168.3

No Species: 13 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 160 **Total Rel. Wt. :** 35443

IBI: 24.6

Appendix C-3
Fish Species List

River: 56-001 Housatonic River RM: 47.90 Date: 09/17/2009

Time Fished: 2478 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 210

Location: Lat: 41.62704 Long: -73.46374

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	1.94	340	0.55	170.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	5.83	8980	14.47	1496.6
43-001	COMMON CARP	O	T	MG	V	E	6	6.0	5.83	47560	76.64	7926.6
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	2	2.0	1.94	40	0.06	20.0
43-043	BLUNTNOSE MINNOW		T				5	5.0	4.85	10	0.02	2.0
43-100	FALLFISH	G		FS	LN	E	8	8.0	7.77	20	0.03	2.5
43-116	CUTLIPS MINNOW		S				3	3.0	2.91	65	0.10	21.6
77-003	ROCK BASS	C		MG	LN	E	13	13.0	12.62	580	0.93	44.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	21	21.0	20.39	3633	5.85	173.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	26	26.0	25.24	480	0.77	18.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	5.0	4.85	90	0.15	18.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	4	4.0	3.88	250	0.40	62.5
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	1.94	6	0.01	3.0

No Species: 13 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 103 **Total Rel. Wt. :** 62054

IBI: 29.8

Appendix C-3
Fish Species List

River: 56-001 Housatonic River RM: 50.00 Date: 09/30/2008

Time Fished: 2443 Distance: 1.000 Drainge (sq mi): 1011.0 Depth: 0

Location: DSR SR. 7 Gaylordsville, CT Lat: 41.64285 Long: -73.47883

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.42	340	0.57	340.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	34	34.0	14.23	32535	54.40	956.9
43-001	COMMON CARP	O	T	MG	V	E	4	4.0	1.67	22840	38.19	5710.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	92	92.0	38.49	310	0.52	3.3
43-043	BLUNTNOSE MINNOW		T				15	15.0	6.28	30	0.05	2.0
43-100	FALLFISH	G		FS	LN	E	59	59.0	24.69	404	0.68	6.8
43-116	CUTLIPS MINNOW		S				1	1.0	0.42	8	0.01	8.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	14	14.0	5.86	3280	5.48	234.2
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	13	13.0	5.44	20	0.03	1.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.42	10	0.02	10.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	0.84	15	0.03	7.5
80-035	TESSELATED DARTER	BI		FD		M	3	3.0	1.26	10	0.02	3.3

No Species: 12 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 239 **Total Rel. Wt. :** 59802

IBI: 36.4

Appendix C-3
Fish Species List

River: 56-001 Housatonic River RM: 61.60 Date: 09/30/2008

Time Fished: 1984 Distance: 1.000 Drainge (sq mi): 746.8 Depth: 75

Location: UST N. Kent, CT Lat: 41.77001 Long: -73.43267

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	4	4.0	1.85	2190	3.34	547.5
25-002	RAINBOW TROUT	C		FD	LN	S	13	13.0	6.02	9180	14.01	706.1
40-016	WHITE SUCKER	I	T	FD	NGL	M	35	35.0	16.20	41620	63.53	1189.1
43-028	SPOTTAIL SHINER	I	P	MG	L	E	8	8.0	3.70	30	0.05	3.7
43-043	BLUNTNOSE MINNOW		T				5	5.0	2.31	40	0.06	8.0
43-100	FALLFISH	G		FS	LN	E	92	92.0	42.59	310	0.47	3.3
77-003	ROCK BASS	C		MG	LN	E	4	4.0	1.85	180	0.27	45.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	53	53.0	24.54	11910	18.18	224.7
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	0.46	20	0.03	20.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.46	30	0.05	30.0

No Species: 10 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 216 **Total Rel. Wt. :** 65510

IBI: 34.4

Appendix C-3
Fish Species List

River: 56-001 Housatonic River RM: 80.90 Date: 09/17/2009

Time Fished: 4104 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 500

Location: Lat: 42.00051 Long: -73.36383

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.39	220	0.78	220.0
37-003	NORTHERN PIKE	P		MG	L	M	4	4.0	1.54	4280	15.23	1070.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.39	1500	5.34	1500.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	2	2.0	0.77	14	0.05	7.0
43-043	BLUNTNOSE MINNOW		T				34	34.0	13.13	120	0.43	3.5
77-002	BLACK CRAPPIE	C		MG	PN	E	12	12.0	4.63	280	1.00	23.3
77-003	ROCK BASS	C		MG	LN	E	42	42.0	16.22	2480	8.83	59.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	43	43.0	16.60	16895	60.13	392.9
77-008	GREEN SUNFISH	I		MG	VN	E	7	7.0	2.70	63	0.22	9.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	25	25.0	9.65	770	2.74	30.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	40	40.0	15.44	780	2.78	19.5
80-003	YELLOW PERCH	C		MG	V	M	43	43.0	16.60	674	2.40	15.6
80-035	TESSELATED DARTER	BI		FD		M	5	5.0	1.93	20	0.07	4.0

No Species: 13 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 259 **Total Rel. Wt. :** 28096

IBI: 26.5

Appendix C-3
Fish Species List

River: 56-001 Housatonic River RM: 90.20 Date: 09/16/2009

Time Fished: 4144 Distance: 1.000 Drainge (sq mi): 466.8 Depth: 340

Location: DST Sheffield, MA Lat: 42.09106 Long: -73.32835

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-003	NORTHERN PIKE	P		MG	L	M	10	10.0	2.99	8980	9.70	898.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	26	26.0	7.78	11114	12.00	427.4
43-001	COMMON CARP	O	T	MG	V	E	8	8.0	2.40	53880	58.19	6735.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	6	6.0	1.80	24	0.03	4.0
43-043	BLUNTNOSE MINNOW		T				12	12.0	3.59	56	0.06	4.6
43-100	FALLFISH	G		FS	LN	E	8	8.0	2.40	286	0.31	35.7
47-005	BROWN BULLHEAD	G	T	MG	P	E	6	6.0	1.80	1080	1.17	180.0
77-002	BLACK CRAPPIE	C		MG	PN	E	4	4.0	1.20	100	0.11	25.0
77-003	ROCK BASS	C		MG	LN	E	38	38.0	11.38	4200	4.54	110.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	26	26.0	7.78	5016	5.42	192.9
77-006	LARGEMOUTH BASS	C		MG	PN	E	8	8.0	2.40	2688	2.90	336.0
77-008	GREEN SUNFISH	I		MG	VN	E	46	46.0	13.77	590	0.64	12.8
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	32	32.0	9.58	1740	1.88	54.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	28	28.0	8.38	760	0.82	27.1
77-999	HYBRID X SUNFISH	I		MG		E	22	22.0	6.59	320	0.35	14.5
80-003	YELLOW PERCH	C		MG	V	M	44	44.0	13.17	1720	1.86	39.0
80-035	TESSELATED DARTER	BI		FD		M	10	10.0	2.99	36	0.04	3.6

No Species: 17 **Nat. Species:** 4 **Hybrids:** 1 **Total Counted:** 334 **Total Rel. Wt. :** 92590

IBI: 28.8

Appendix C-3
Fish Species List

River: 57-100 Blackstone River RM: 5.60 Date: 06/22/2009

Time Fished: 3248 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 150

Location: Lat: 41.95085 Long: -71.45161

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	5	5.0	6.94	1950	6.24	390.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	24	24.0	33.33	14656	46.92	610.6
43-001	COMMON CARP	O	T	MG	V	E	3	3.0	4.17	13050	41.78	4350.0
43-003	GOLDEN SHINER	G	T	MG	L	E	9	9.0	12.50	130	0.42	14.4
43-026	COMMON SHINER	I		FD	NGL	E	9	9.0	12.50	80	0.26	8.8
43-100	FALLFISH	G		FS	LN	E	2	2.0	2.78	100	0.32	50.0
47-004	YELLOW BULLHEAD	G	T	MG		E	4	4.0	5.56	350	1.12	87.5
50-001	AMERICAN EEL	C		C		M	2	2.0	2.78	260	0.83	130.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	3	3.0	4.17	580	1.86	193.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	2.78	35	0.11	17.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	7	7.0	9.72	34	0.11	4.8
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	2.78	12	0.04	6.0

No Species: 12 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 72 **Total Rel. Wt. :** 31237

IBI: 48.5

Appendix C-3
Fish Species List

River: 57-100 Blackstone River RM: 7.00 Date: 06/23/2009

Time Fished: 3602 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 0

Location: Lat: 41.88722 Long: -71.38041

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	66	66.0	25.10	40401	74.10	612.1
43-001	COMMON CARP	O	T	MG	V	E	1	1.0	0.38	5900	10.82	5900.0
43-003	GOLDEN SHINER	G	T	MG	L	E	16	16.0	6.08	198	0.36	12.3
43-026	COMMON SHINER	I		FD	NGL	E	47	47.0	17.87	640	1.17	13.6
43-100	FALLFISH	G		FS	LN	E	2	2.0	0.76	180	0.33	90.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	3	3.0	1.14	500	0.92	166.6
50-001	AMERICAN EEL	C		C		M	12	12.0	4.56	2650	4.86	220.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	10	10.0	3.80	1260	2.31	126.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	6	6.0	2.28	640	1.17	106.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	98	98.0	37.26	2045	3.75	20.8
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.38	100	0.18	100.0
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.38	8	0.01	8.0

No Species: 12 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 263 **Total Rel. Wt. :** 54522

IBI: 37.7

Appendix C-3
Fish Species List

River: 57-100 Blackstone River RM: 7.00 Date: 10/07/2009

Time Fished: 2553 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 0

Location: Lat: 41.88722 Long: -71.38041

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	25	25.0	86.21	23440	97.99	937.6
50-001	AMERICAN EEL	C		C		M	1	1.0	3.45	380	1.59	380.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	1	1.0	3.45	40	0.17	40.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	3.45	40	0.17	40.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	3.45	20	0.08	20.0

No Species: 5 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 29 **Total Rel. Wt. :** 23920

IBI: 41.7

Appendix C-3
Fish Species List

River: 57-100 Blackstone River RM: 7.90 Date: 06/22/2009

Time Fished: 3334 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 75

Location: Lat: 41.97078 Long: -71.47002

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	1.68	112	0.18	56.0
37-003	NORTHERN PIKE	P		MG	L	M	2	2.0	1.68	8820	13.98	4410.0
37-007	REDFIN PICKEREL	P	P	MG		M	1	1.0	0.84	50	0.08	50.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	52	52.0	43.70	42000	66.58	807.6
43-001	COMMON CARP	O	T	MG	V	E	1	1.0	0.84	5085	8.06	5085.0
43-003	GOLDEN SHINER	G	T	MG	L	E	6	6.0	5.04	90	0.14	15.0
43-026	COMMON SHINER	I		FD	NGL	E	8	8.0	6.72	150	0.24	18.7
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.84	900	1.43	900.0
47-004	YELLOW BULLHEAD	G	T	MG		E	2	2.0	1.68	140	0.22	70.0
50-001	AMERICAN EEL	C		C		M	2	2.0	1.68	580	0.92	290.0
77-002	BLACK CRAPPIE	C		MG	PN	E	4	4.0	3.36	400	0.63	100.0
77-003	ROCK BASS	C		MG	LN	E	2	2.0	1.68	110	0.17	55.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	9	9.0	7.56	1450	2.30	161.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.84	15	0.02	15.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	12	12.0	10.08	1027	1.63	85.5
80-003	YELLOW PERCH	C		MG	V	M	14	14.0	11.76	2150	3.41	153.5

No Species: 16 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 119 **Total Rel. Wt. :** 63079

IBI: 33.3

Appendix C-3
Fish Species List

River: 57-100 Blackstone River RM: 11.00 Date: 06/20/2009

Time Fished: 3920 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 170

Location: Lat: 41.99491 Long: -71.49263

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	3	3.0	2.13	550	2.53	183.3
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	0.71	5250	24.11	5250.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	7	7.0	4.96	4820	22.13	688.5
43-003	GOLDEN SHINER	G	T	MG	L	E	8	8.0	5.67	80	0.37	10.0
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.71	14	0.06	14.0
43-100	FALLFISH	G		FS	LN	E	10	10.0	7.09	1150	5.28	115.0
50-001	AMERICAN EEL	C		C		M	1	1.0	0.71	70	0.32	70.0
77-002	BLACK CRAPPIE	C		MG	PN	E	10	10.0	7.09	1150	5.28	115.0
77-003	ROCK BASS	C		MG	LN	E	2	2.0	1.42	50	0.23	25.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	1	1.0	0.71	300	1.38	300.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	10	10.0	7.09	585	2.69	58.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	40	40.0	28.37	2380	10.93	59.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	21	21.0	14.89	720	3.31	34.2
80-003	YELLOW PERCH	C		MG	V	M	26	26.0	18.44	4660	21.40	179.2

No Species: 14 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 141 **Total Rel. Wt. :** 21779

IBI: 26.8

Appendix C-3
Fish Species List

River: 57-100 Blackstone River RM: 13.30 Date: 06/18/2009

Time Fished: 3488 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 260

Location: Lat: 41.01502 Long: -71.52876

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	3	3.0	0.58	57	0.12	19.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	26	26.0	5.01	24280	50.57	933.8
43-001	COMMON CARP	O	T	MG	V	E	2	2.0	0.39	16020	33.36	8010.0
43-003	GOLDEN SHINER	G	T	MG	L	E	445	445.0	85.74	2044	4.26	4.5
77-003	ROCK BASS	C		MG	LN	E	2	2.0	0.39	220	0.46	110.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	5	5.0	0.96	850	1.77	170.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	0.58	1425	2.97	475.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	20	20.0	3.85	2085	4.34	104.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	1.16	330	0.69	55.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	2	2.0	0.39	105	0.22	52.5
80-003	YELLOW PERCH	C		MG	V	M	5	5.0	0.96	600	1.25	120.0

No Species: 11 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 519 **Total Rel. Wt. :** 48016

IBI: 30.3

Appendix C-3
Fish Species List

River: 57-100 Blackstone River RM: 14.70 Date: 06/20/2009

Time Fished: 3656 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 90

Location: Lat: 42.00990 Long: -71.54839

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	46	46.0	30.46	22000	27.84	478.2
43-001	COMMON CARP	O	T	MG	V	E	12	12.0	7.95	46110	58.34	3842.5
43-003	GOLDEN SHINER	G	T	MG	L	E	10	10.0	6.62	40	0.05	4.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	6	6.0	3.97	840	1.06	140.0
77-002	BLACK CRAPPIE	C		MG	PN	E	2	2.0	1.32	240	0.30	120.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	39	39.0	25.83	7845	9.93	201.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	1.32	80	0.10	40.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	16	16.0	10.60	995	1.26	62.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	11	11.0	7.28	490	0.62	44.5
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	3.97	380	0.48	63.3
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.66	10	0.01	10.0

No Species: 12 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 151 **Total Rel. Wt. :** 79030

IBI: 22.1

Appendix C-3
Fish Species List

River: 57-100 Blackstone River RM: 31.70 Date: 08/27/2009

Time Fished: 3676 Distance: 1.000 Drainge (sq mi): 138.6 Depth: 130

Location: DST Pete's Nursery access Lat: 42.16092 Long: -71.66389

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	224	224.0	55.45	32790	34.07	146.3
43-001	COMMON CARP	O	T	MG	V	E	53	53.0	13.12	59010	61.32	1113.4
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.50	10	0.01	5.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	3	3.0	0.74	120	0.12	40.0
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.25	200	0.21	200.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	10	10.0	2.48	740	0.77	74.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	14	14.0	3.47	420	0.44	30.0
80-003	YELLOW PERCH	C		MG	V	M	95	95.0	23.51	2940	3.05	30.9
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	0.50	6	0.01	3.0

No Species: 9 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 404 **Total Rel. Wt. :** 96236

IBI: 30.5

Appendix C-3
Fish Species List

River: 57-100 Blackstone River RM: 32.00 Date: 08/27/2009

Time Fished: 4822 Distance: 1.000 Drainge (sq mi): 138.4 Depth: 170

Location: DST Depot St. bridge, Northbridge,MA Lat: 41.16956 Long: -71.67844

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	371	371.0	50.48	45310	40.28	122.1
43-001	COMMON CARP	O	T	MG	V	E	91	91.0	12.38	56950	50.62	625.8
43-003	GOLDEN SHINER	G	T	MG	L	E	6	6.0	0.82	60	0.05	10.0
47-004	YELLOW BULLHEAD	G	T	MG		E	4	4.0	0.54	340	0.30	85.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	7	7.0	0.95	420	0.37	60.0
77-002	BLACK CRAPPIE	C		MG	PN	E	10	10.0	1.36	1320	1.17	132.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	0.41	330	0.29	110.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	25	25.0	3.40	1970	1.75	78.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	27	27.0	3.67	780	0.69	28.8
80-003	YELLOW PERCH	C		MG	V	M	191	191.0	25.99	5020	4.46	26.2

No Species: 10 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 735 **Total Rel. Wt. :** 112500

IBI: 29.6

Appendix C-3
Fish Species List

River: 57-100 Blackstone River RM: 37.60 Date: 08/26/2009

Time Fished: 4465 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 110

Location: Lat: 42.18774 Long: -71.74420

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	1.37	50	0.33	25.0
37-007	REDFIN PICKEREL	P	P	MG		M	1	1.0	0.68	20	0.13	20.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	34	34.0	23.29	10820	72.28	318.2
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	1.37	20	0.13	10.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	17	17.0	11.64	1050	7.01	61.7
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.68	40	0.27	40.0
77-002	BLACK CRAPPIE	C		MG	PN	E	3	3.0	2.05	110	0.73	36.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	3.42	20	0.13	4.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	6	6.0	4.11	140	0.94	23.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	55	55.0	37.67	1620	10.82	29.4
80-003	YELLOW PERCH	C		MG	V	M	20	20.0	13.70	1080	7.21	54.0

No Species: 11 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 146 **Total Rel. Wt. :** 14970

IBI: 33.9

Appendix C-3
Fish Species List

River: 57-100 Blackstone River RM: 38.00 Date: 08/26/2009

Time Fished: 2727 Distance: 1.000 Drainge (sq mi): 84.0 Depth: 120

Location: DST lowhead dam, Northbridge, MA Lat: 42.18774 Long: -71.74420

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.44	60	0.24	60.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	90	90.0	39.30	19170	76.22	213.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	13	13.0	5.68	580	2.31	44.6
74-003	WHITE PERCH	C		MG	L	M	12	12.0	5.24	520	2.07	43.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	7	7.0	3.06	400	1.59	57.1
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	18	18.0	7.86	620	2.47	34.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	16	16.0	6.99	400	1.59	25.0
80-003	YELLOW PERCH	C		MG	V	M	72	72.0	31.44	3400	13.52	47.2

No Species: 8 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 229 **Total Rel. Wt. :** 25150

IBI: 26.5

Appendix C-3
Fish Species List

River: 57-100 Blackstone River RM: 40.80 Date: 08/25/2009

Time Fished: 4815 Distance: 1.000 Drainge (sq mi): 71.7 Depth: 170

Location: DST UBWPCD WWTP Milbury, MA Lat: 42.19805 Long: -71.77324

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	632	632.0	96.19	89895	98.34	142.2
47-005	BROWN BULLHEAD	G	T	MG	P	E	4	4.0	0.61	450	0.49	112.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	0.46	46	0.05	15.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	8	8.0	1.22	200	0.22	25.0
80-003	YELLOW PERCH	C		MG	V	M	10	10.0	1.52	820	0.90	82.0

No Species: 5 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 657 **Total Rel. Wt. :** 91411

IBI: 41.8

Appendix C-3
Fish Species List

River: 57-100 Blackstone River RM: 43.40 Date: 08/24/2009

Time Fished: 2456 Distance: 1.000 Drainge (sq mi): 62.7 Depth: 60

Location: UST BWPCD WWTP, Millbury, MA (by new Walmart) Lat: 42.23069 Long: -71.79353

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	288	288.0	71.29	15310	64.01	53.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	6	6.0	1.49	520	2.17	86.6
74-003	WHITE PERCH	C		MG	L	M	10	10.0	2.48	440	1.84	44.0
77-002	BLACK CRAPPIE	C		MG	PN	E	7	7.0	1.73	480	2.01	68.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	15	15.0	3.71	2488	10.40	165.8
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	8	8.0	1.98	940	3.93	117.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	20	20.0	4.95	840	3.51	42.0
80-003	YELLOW PERCH	C		MG	V	M	50	50.0	12.38	2900	12.12	58.0

No Species: 8 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 404 **Total Rel. Wt. :** 23918

IBI: 27.8

Appendix C-3
Fish Species List

River: 57-200 Pawtuxet River RM: 1.30 Date: 06/23/2009

Time Fished: 3724 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 90

Location: Lat: 41.71664 Long: -71.51053

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	7	7.0	3.80	1830	11.49	261.4
37-002	CHAIN PICKEREL	P		MG	L	M	18	18.0	9.78	295	1.85	16.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	15	15.0	8.15	9370	58.85	624.6
43-003	GOLDEN SHINER	G	T	MG	L	E	4	4.0	2.17	40	0.25	10.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	1.09	300	1.88	150.0
50-001	AMERICAN EEL	C		C		M	1	1.0	0.54	60	0.38	60.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	2	2.0	1.09	205	1.29	102.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	10	10.0	5.43	2400	15.07	240.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	40	40.0	21.74	670	4.21	16.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	85	85.0	46.20	752	4.72	8.8

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 184 **Total Rel. Wt. :** 15922

IBI: 32.1

Appendix C-3
Fish Species List

River: 57-200 Pawtuxet River RM: 3.00 Date: 06/21/2009

Time Fished: 4698 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 50

Location: Lat: 41.72660 Long: -71.48918

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.64	180	0.40	180.0
37-002	CHAIN PICKEREL	P		MG	L	M	5	5.0	3.21	382	0.84	76.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	57	57.0	36.54	34260	75.50	601.0
47-002	CHANNEL CATFISH						2	2.0	1.28	260	0.57	130.0
47-003	WHITE CATFISH	I		MG	P	E	1	1.0	0.64	300	0.66	300.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	12	12.0	7.69	2230	4.91	185.8
50-001	AMERICAN EEL	C		C		M	25	25.0	16.03	2010	4.43	80.4
77-002	BLACK CRAPPIE	C		MG	PN	E	2	2.0	1.28	150	0.33	75.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	1	1.0	0.64	25	0.06	25.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	14	14.0	8.97	3980	8.77	284.2
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	20	20.0	12.82	1380	3.04	69.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	16	16.0	10.26	220	0.48	13.7

No Species: 12 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 156 **Total Rel. Wt. :** 45377

IBI: 30.0

Appendix C-3
Fish Species List

River: 57-200 Pawtuxet River RM: 4.10 Date: 06/21/2009

Time Fished: 4201 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 220

Location: Lat: 41.71984 Long: -71.47717

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	1.79	44	0.38	22.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	5.36	3210	27.87	535.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	1.79	380	3.30	190.0
50-001	AMERICAN EEL	C		C		M	13	13.0	11.61	680	5.90	52.3
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.89	80	0.69	80.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	1	1.0	0.89	100	0.87	100.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	15	15.0	13.39	3967	34.44	264.4
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	27	27.0	24.11	1598	13.87	59.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	45	45.0	40.18	1460	12.67	32.4

No Species: 9 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 112 **Total Rel. Wt. :** 11519

IBI: 17.2

Appendix C-3
Fish Species List

River: 57-200 Pawtuxet River RM: 5.10 Date: 06/18/2009

Time Fished: 3650 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 100

Location: Lat: 41.72625 Long: -71.46912

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-007	REDFIN PICKEREL	P	P	MG		M	2	2.0	0.98	50	0.07	25.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	132	132.0	64.39	67620	94.41	512.2
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.49	6	0.01	6.0
50-001	AMERICAN EEL	C		C		M	26	26.0	12.68	2430	3.39	93.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	6	6.0	2.93	1050	1.47	175.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	38	38.0	18.54	470	0.66	12.3

No Species: 7 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 205 **Total Rel. Wt. :** 71626

IBI: 45.4

Appendix C-3
Fish Species List

River: 57-200 Pawtuxet River RM: 8.20 Date: 06/18/2009

Time Fished: 4254 Distance: 1.000 Drainge (sq mi): 2000.0 Depth: 100

Location: Lat: 41.75828 Long: -71.44014

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	8	8.0	3.86	8	0.01	1.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	153	153.0	73.91	76290	93.69	498.6
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	1	1.0	0.48	10	0.01	10.0
47-002	CHANNEL CATFISH						2	2.0	0.97	168	0.21	84.0
47-004	YELLOW BULLHEAD	G	T	MG		E	5	5.0	2.42	600	0.74	120.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	8	8.0	3.86	1346	1.65	168.2
50-001	AMERICAN EEL	C		C		M	29	29.0	14.01	2980	3.66	102.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.48	25	0.03	25.0

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 207 **Total Rel. Wt. :** 81427

IBI: 55.7

Appendix C-3
Fish Species List

River: 57-200 Pawtuxet River RM: 8.90 Date: 06/18/2009

Time Fished: 3528 Distance: 1.000 Drainge (sq mi): 2000.0 Depth: 100

Location: Lat: 41.76096 Long: -71.43039

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.74	400	0.82	400.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	117	117.0	86.03	45200	92.14	386.3
47-004	YELLOW BULLHEAD	G	T	MG		E	2	2.0	1.47	240	0.49	120.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	4	4.0	2.94	900	1.83	225.0
50-001	AMERICAN EEL	C		C		M	10	10.0	7.35	2284	4.66	228.4
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	2	2.0	1.47	30	0.06	15.0

No Species: 6 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 136 **Total Rel. Wt. :** 49054

IBI: 40.9

Appendix C-3
Fish Species List

River: 57-300 Wood River RM: 6.40 Date: 06/25/2009

Time Fished: 4325 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 100

Location: Lat: 41.50940 Long: -71.70827

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	30	30.0	16.76	9050	47.03	301.6
37-002	CHAIN PICKEREL	P		MG	L	M	14	14.0	7.82	330	1.71	23.5
37-007	REDFIN PICKEREL	P	P	MG		M	3	3.0	1.68	80	0.42	26.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	13	13.0	7.26	5730	29.77	440.7
40-020	CREEK CHUBSUCKER	I		FD	NGL	M	52	52.0	29.05	215	1.12	4.1
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	1.68	6	0.03	2.0
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	1.68	100	0.52	33.3
43-100	FALLFISH	G		FS	LN	E	26	26.0	14.53	90	0.47	3.4
50-001	AMERICAN EEL	C		C		M	19	19.0	10.61	3290	17.10	173.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.56	10	0.05	10.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	6	6.0	3.35	300	1.56	50.0
80-035	TESSELATED DARTER	BI		FD		M	9	9.0	5.03	44	0.23	4.8

No Species: 12 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 179 **Total Rel. Wt. :** 19245

IBI: 53.3

Appendix C-3
Fish Species List

River: 58-100 Contoocook River RM: 3.30 Date: 08/13/2009

Time Fished: 3152 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 420

Location: Lat: 43.25231 Long: -71.61900

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	12	12.0	4.84	1460	11.62	121.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	0.81	2180	17.35	1090.0
43-003	GOLDEN SHINER	G	T	MG	L	E	6	6.0	2.42	24	0.19	4.0
43-026	COMMON SHINER	I		FD	NGL	E	10	10.0	4.03	36	0.29	3.6
43-028	SPOTTAIL SHINER	I	P	MG	L	E	6	6.0	2.42	36	0.29	6.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	18	18.0	7.26	3220	25.62	178.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	20	20.0	8.06	50	0.40	2.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	32	32.0	12.90	440	3.50	13.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	32	32.0	12.90	482	3.84	15.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	66	66.0	26.61	2040	16.23	30.9
80-003	YELLOW PERCH	C		MG	V	M	42	42.0	16.94	2580	20.53	61.4
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	0.81	20	0.16	10.0

No Species: 12 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 248 **Total Rel. Wt. :** 12568

IBI: 31.2

Appendix C-3
Fish Species List

River: 58-100 Contoocook River RM: 3.30 Date: 09/10/2009

Time Fished: 3156 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 260

Location: Lat: 43.25231 Long: -71.61900

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	22	22.0	5.61	1360	12.50	61.8
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	1.02	2000	18.38	500.0
43-003	GOLDEN SHINER	G	T	MG	L	E	34	34.0	8.67	620	5.70	18.2
43-026	COMMON SHINER	I		FD	NGL	E	62	62.0	15.82	124	1.14	2.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	86	86.0	21.94	280	2.57	3.2
43-100	FALLFISH	G		FS	LN	E	4	4.0	1.02	12	0.11	3.0
77-002	BLACK CRAPPIE	C		MG	PN	E	2	2.0	0.51	12	0.11	6.0
77-003	ROCK BASS	C		MG	LN	E	2	2.0	0.51	120	1.10	60.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	6	6.0	1.53	3040	27.94	506.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	38	38.0	9.69	300	2.76	7.8
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	14	14.0	3.57	572	5.26	40.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	38	38.0	9.69	640	5.88	16.8
77-030	REDBREAST SUNFISH	I		MG	PN	E	22	22.0	5.61	302	2.78	13.7
80-003	YELLOW PERCH	C		MG	V	M	58	58.0	14.80	1500	13.78	25.8

No Species: 14 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 392 **Total Rel. Wt. :** 10882

IBI: 29.0

Appendix C-3
Fish Species List

River: 58-100 Contoocook River RM: 28.70 Date: 09/12/2009

Time Fished: 2567 Distance: 0.700 Drainge (sq mi): 1000.0 Depth: 100

Location: Lat: 43.14653 Long: -71.86374

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	18	25.7	6.08	6859	8.96	266.6
25-002	RAINBOW TROUT	C		FD	LN	S	10	14.3	3.38	3872	5.06	271.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	86	122.9	29.05	52187	68.13	424.6
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	4	5.7	1.35	142	0.19	25.0
43-026	COMMON SHINER	I		FD	NGL	E	10	14.3	3.38	228	0.30	16.0
43-100	FALLFISH	G		FS	LN	E	20	28.6	6.76	828	1.08	29.0
47-017	MARGINED MADTOM		I				66	94.3	22.30	2515	3.28	26.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	76	108.6	25.68	9302	12.15	85.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.9	0.68	514	0.67	180.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	5.7	1.35	142	0.19	25.0

No Species: 10 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 296 **Total Rel. Wt. :** 76594

IBI: 40.6

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 1.50 Date: 07/25/2003

Time Fished: 1562 Distance: 1.000 Drainge (sq mi): 3557.0 Depth: 0

Location: Lat: 43.92386 Long: -69.98677

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.33	15	0.07	15.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	69	69.0	23.08	10389	47.57	150.5
43-003	GOLDEN SHINER	G	T	MG	L	E	32	32.0	10.70	160	0.73	5.0
43-026	COMMON SHINER	I		FD	NGL	E	51	51.0	17.06	327	1.50	6.4
43-028	SPOTTAIL SHINER	I	P	MG	L	E	49	49.0	16.39	299	1.37	6.1
43-100	FALLFISH	G		FS	LN	E	23	23.0	7.69	96	0.44	4.1
50-001	AMERICAN EEL	C		C		M	2	2.0	0.67	500	2.29	250.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	2	2.0	0.67	8	0.04	4.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	45	45.0	15.05	9348	42.81	207.7
77-030	REDBREAST SUNFISH	I		MG	PN	E	25	25.0	8.36	696	3.19	27.8

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 299 **Total Rel. Wt. :** 21838

IBI: 37.1

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 4.30 Date: 07/25/2003

Time Fished: 1937 Distance: 1.000 Drainge (sq mi): 3547.0 Depth: 0

Location: Lat: 43.95072 Long: -70.02205

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	91	91.0	13.87	150	0.45	1.6
20-006	AMERICAN SHAD	PL		A	PS	M	33	33.0	5.03	14	0.04	0.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	16	16.0	2.44	13860	41.90	866.2
43-028	SPOTTAIL SHINER	I	P	MG	L	E	4	4.0	0.61	31	0.09	7.7
43-100	FALLFISH	G		FS	LN	E	303	303.0	46.19	2616	7.91	8.6
50-001	AMERICAN EEL	C		C		M	3	3.0	0.46	1400	4.23	466.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	95	95.0	14.48	10510	31.77	110.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	111	111.0	16.92	4500	13.60	40.5

No Species: 8 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 656 **Total Rel. Wt. :** 33081

IBI: 32.3

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 7.00 Date: 07/31/2003

Time Fished: 3297 Distance: 1.000 Drainge (sq mi): 3542.0 Depth: 0

Location: Lat: 43.97587 Long: -70.03423

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	21	21.0	1.78	38	0.19	1.8
37-002	CHAIN PICKEREL	P		MG	L	M	9	9.0	0.76	2425	11.86	269.4
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	0.08	80	0.39	80.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	0.34	2770	13.54	692.5
43-003	GOLDEN SHINER	G	T	MG	L	E	15	15.0	1.27	254	1.24	16.9
43-026	COMMON SHINER	I		FD	NGL	E	10	10.0	0.85	21	0.10	2.1
43-028	SPOTTAIL SHINER	I	P	MG	L	E	773	773.0	65.51	584	2.86	0.7
43-100	FALLFISH	G		FS	LN	E	25	25.0	2.12	622	3.04	24.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	47	47.0	3.98	6780	33.15	144.2
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	0.42	9	0.04	1.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	0.34	232	1.13	58.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	112	112.0	9.49	2900	14.18	25.8
80-003	YELLOW PERCH	C		MG	V	M	154	154.0	13.05	3736	18.27	24.2

No Species: 13 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 1180 **Total Rel. Wt. :** 20451

IBI: 37.8

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 8.00 Date: 07/31/2003

Time Fished: 4724 Distance: 1.000 Drainge (sq mi): 3537.0 Depth: 0

Location: Lat: 43.98273 Long: -70.04258

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	288	288.0	44.86	408	1.67	1.4
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.31	12	0.05	6.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	25	25.0	3.89	7084	29.07	283.3
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.16	1	0.00	1.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	2	2.0	0.31	3	0.01	1.5
43-100	FALLFISH	G		FS	LN	E	5	5.0	0.78	6	0.02	1.2
50-001	AMERICAN EEL	C		C		M	2	2.0	0.31	1244	5.10	622.0
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.16	3	0.01	3.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	189	189.0	29.44	13018	53.42	68.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.16	2	0.01	2.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	5.0	0.78	120	0.49	24.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	110	110.0	17.13	2201	9.03	20.0
80-003	YELLOW PERCH	C		MG	V	M	11	11.0	1.71	267	1.10	24.2

No Species: 13 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 642 **Total Rel. Wt. :** 24369

IBI: 36.0

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 9.60 Date: 07/30/2003

Time Fished: 4194 Distance: 1.000 Drainge (sq mi): 3501.0 Depth: 0

Location: Lat: 44.00522 Long: -70.08398

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	168	168.0	25.81	346	1.17	2.0
37-002	CHAIN PICKEREL	P		MG	L	M	25	25.0	3.84	616	2.08	24.6
43-003	GOLDEN SHINER	G	T	MG	L	E	10	10.0	1.54	114	0.39	11.4
43-028	SPOTTAIL SHINER	I	P	MG	L	E	3	3.0	0.46	22	0.07	7.3
47-005	BROWN BULLHEAD	G	T	MG	P	E	5	5.0	0.77	1239	4.18	247.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	106	106.0	16.28	15488	52.31	146.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	13	13.0	2.00	204	0.69	15.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	14	14.0	2.15	402	1.36	28.7
77-030	REDBREAST SUNFISH	I		MG	PN	E	277	277.0	42.55	10000	33.77	36.1
80-003	YELLOW PERCH	C		MG	V	M	30	30.0	4.61	1177	3.98	39.2

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 651 **Total Rel. Wt. :** 29608

IBI: 21.3

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 10.80 Date: 09/03/2009

Time Fished: 2470 Distance: 1.000 Drainge (sq mi): 3307.0 Depth: 280

Location: Dst. Lisbon Falls; Androscoggin Reservoir Lat: 44.00265 Long: -70.09787

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	5	5.0	1.13	25	0.16	5.0
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	0.23	1800	11.75	1800.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	15	15.0	3.38	6887	44.96	459.1
43-028	SPOTTAIL SHINER	I	P	MG	L	E	35	35.0	7.88	35	0.23	1.0
43-100	FALLFISH	G		FS	LN	E	305	305.0	68.69	275	1.80	0.9
50-001	AMERICAN EEL	C		C		M	2	2.0	0.45	600	3.92	300.0
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.23	1	0.01	1.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	22	22.0	4.95	2651	17.31	120.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	0.68	21	0.14	7.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	11	11.0	2.48	220	1.44	20.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	31	31.0	6.98	2465	16.09	79.5
80-003	YELLOW PERCH	C		MG	V	M	12	12.0	2.70	338	2.21	28.1
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.23	1	0.01	1.0

No Species: 13 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 444 **Total Rel. Wt. :** 15319

IBI: 39.3

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 12.80 Date: 09/07/2003

Time Fished: 6892 Distance: 1.000 Drainge (sq mi): 3428.0 Depth: 0

Location: Lat: 43.98402 Long: -70.12634

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	7	7.0	0.78	85	0.09	12.1
40-016	WHITE SUCKER	I	T	FD	NGL	M	102	102.0	11.32	49020	53.04	480.5
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.11	40	0.04	40.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	159	159.0	17.65	290	0.31	1.8
43-100	FALLFISH	G		FS	LN	E	77	77.0	8.55	516	0.56	6.7
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.11	2	0.00	2.0
50-001	AMERICAN EEL	C		C		M	23	23.0	2.55	10160	10.99	441.7
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	2	2.0	0.22	4	0.00	2.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	366	366.0	40.62	26190	28.34	71.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.11	25	0.03	25.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	162	162.0	17.98	6085	6.58	37.5

No Species: 11 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 901 **Total Rel. Wt. :** 92417

IBI: 29.7

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 16.00 Date: 07/30/2003

Time Fished: 1916 Distance: 1.000 Drainge (sq mi): 3412.0 Depth: 0

Location: Lat: 44.01655 Long: -70.16634

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	2	2.0	0.20	10	0.06	5.0
37-002	CHAIN PICKEREL	P		MG	L	M	4	4.0	0.40	170	1.10	42.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	18	18.0	1.79	4324	27.97	240.2
43-003	GOLDEN SHINER	G	T	MG	L	E	11	11.0	1.09	40	0.26	3.6
43-026	COMMON SHINER	I		FD	NGL	E	5	5.0	0.50	12	0.08	2.4
43-028	SPOTTAIL SHINER	I	P	MG	L	E	790	790.0	78.53	1270	8.22	1.6
43-100	FALLFISH	G		FS	LN	E	23	23.0	2.29	1007	6.51	43.7
50-001	AMERICAN EEL	C		C		M	8	8.0	0.80	2486	16.08	310.7
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	2	2.0	0.20	6	0.04	3.0
74-003	WHITE PERCH	C		MG	L	M	2	2.0	0.20	2	0.01	1.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	53	53.0	5.27	3928	25.41	74.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	32	32.0	3.18	460	2.98	14.3
77-030	REDBREAST SUNFISH	I		MG	PN	E	29	29.0	2.88	1124	7.27	38.7
80-003	YELLOW PERCH	C		MG	V	M	27	27.0	2.68	618	4.00	22.8

No Species: 14 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 1006 **Total Rel. Wt. :** 15457

IBI: 42.8

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 20.40 Date: 07/27/2003

Time Fished: 4365 Distance: 1.000 Drainge (sq mi): 3406.0 Depth: 0

Location: Lat: 44.06616 Long: -70.20755

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	42	42.0	18.83	29666	60.53	706.3
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.45	22	0.04	22.0
50-001	AMERICAN EEL	C		C		M	14	14.0	6.28	3900	7.96	278.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	125	125.0	56.05	14077	28.72	112.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	0.90	45	0.09	22.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	35	35.0	15.70	1234	2.52	35.2
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	1.79	67	0.14	16.7

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 223 **Total Rel. Wt. :** 49011

IBI: 26.9

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 21.90 Date: 07/27/2003

Time Fished: 1709 Distance: 1.000 Drainge (sq mi): 3404.0 Depth: 0

Location: Lat: 44.08814 Long: -70.21926

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	2	2.0	1.72	635	2.49	317.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	17	17.0	14.66	11620	45.58	683.5
43-028	SPOTTAIL SHINER	I	P	MG	L	E	2	2.0	1.72	2	0.01	1.0
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.86	2	0.01	2.0
50-001	AMERICAN EEL	C		C		M	4	4.0	3.45	3230	12.67	807.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	78	78.0	67.24	9467	37.14	121.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	3.45	52	0.20	13.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	6	6.0	5.17	480	1.88	80.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.72	5	0.02	2.5

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 116 **Total Rel. Wt. :** 25493

IBI: 27.0

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 22.60 Date: 07/27/2003

Time Fished: 1959 Distance: 1.000 Drainge (sq mi): 3064.0 Depth: 0

Location: Lat: 44.09354 Long: -70.22422

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
50-001	AMERICAN EEL	C		C		M	2	2.0	2.78	300	9.03	150.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	45	45.0	62.50	2376	71.52	52.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	5.56	24	0.72	6.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	21	21.0	29.17	622	18.72	29.6

No Species: 4 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 72 **Total Rel. Wt. :** 3322

IBI: 14.0

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 25.20 Date: 07/26/2003

Time Fished: 2084 Distance: 1.000 Drainge (sq mi): 3030.0 Depth: 0

Location: Lat: 44.12813 Long: -70.20792

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	46	46.0	17.62	26800	61.89	582.6
43-028	SPOTTAIL SHINER	I	P	MG	L	E	12	12.0	4.60	61	0.14	5.0
43-100	FALLFISH	G		FS	LN	E	13	13.0	4.98	708	1.64	54.4
50-001	AMERICAN EEL	C		C		M	8	8.0	3.07	1500	3.46	187.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	97	97.0	37.16	11811	27.28	121.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	20	20.0	7.66	160	0.37	8.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	47	47.0	18.01	1892	4.37	40.2
80-003	YELLOW PERCH	C		MG	V	M	18	18.0	6.90	370	0.85	20.5

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 261 **Total Rel. Wt. :** 43302

IBI: 25.7

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 26.90 Date: 07/26/2003

Time Fished: 2215 Distance: 1.000 Drainge (sq mi): 3020.0 Depth: 0

Location: Lat: 44.14890 Long: -70.20961

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.21	184	0.81	184.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	0.42	2100	9.30	1050.0
43-003	GOLDEN SHINER	G	T	MG	L	E	27	27.0	5.61	28	0.12	1.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	102	102.0	21.21	79	0.35	0.7
47-005	BROWN BULLHEAD	G	T	MG	P	E	3	3.0	0.62	1052	4.66	350.6
50-001	AMERICAN EEL	C		C		M	4	4.0	0.83	1168	5.17	292.0
74-003	WHITE PERCH	C		MG	L	M	39	39.0	8.11	51	0.23	1.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	93	93.0	19.33	14088	62.36	151.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.21	6	0.03	6.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	29	29.0	6.03	1162	5.14	40.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	18	18.0	3.74	1022	4.52	56.7
80-003	YELLOW PERCH	C		MG	V	M	162	162.0	33.68	1652	7.31	10.2

No Species: 12 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 481 **Total Rel. Wt. :** 22592

IBI: 31.3

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 27.90 Date: 07/31/2003

Time Fished: 2090 Distance: 1.000 Drainge (sq mi): 3019.0 Depth: 0

Location: Lat: 44.16032 Long: -70.20315

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	60	60.0	4.67	23885	55.54	398.0
43-003	GOLDEN SHINER	G	T	MG	L	E	24	24.0	1.87	450	1.05	18.7
43-028	SPOTTAIL SHINER	I	P	MG	L	E	532	532.0	41.40	1852	4.31	3.4
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.08	338	0.79	338.0
74-003	WHITE PERCH	C		MG	L	M	394	394.0	30.66	6410	14.91	16.2
77-002	BLACK CRAPPIE	C		MG	PN	E	4	4.0	0.31	176	0.41	44.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	90	90.0	7.00	7012	16.31	77.9
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	0.23	146	0.34	48.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	69	69.0	5.37	1155	2.69	16.7
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.08	75	0.17	75.0
80-003	YELLOW PERCH	C		MG	V	M	107	107.0	8.33	1503	3.50	14.0

No Species: 11 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 1285 **Total Rel. Wt. :** 43002

IBI: 34.6

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 31.40 Date: 08/02/2003

Time Fished: 2000 Distance: 1.000 Drainge (sq mi): 3011.0 Depth: 0

Location: Lat: 44.20898 Long: -70.19644

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	6	6.0	0.50	100	0.52	16.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	31	31.0	2.57	4711	24.65	151.9
43-003	GOLDEN SHINER	G	T	MG	L	E	7	7.0	0.58	34	0.18	4.8
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.08	45	0.24	45.0
74-003	WHITE PERCH	C		MG	L	M	11	11.0	0.91	41	0.21	3.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	32	32.0	2.66	7123	37.28	222.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	39	39.0	3.24	307	1.61	7.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	177	177.0	14.69	1873	9.80	10.5
80-003	YELLOW PERCH	C		MG	V	M	901	901.0	74.77	4874	25.51	5.4

No Species: 9 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 1205 **Total Rel. Wt. :** 19108

IBI: 26.3

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 35.40 Date: 09/07/2003

Time Fished: 1757 Distance: 1.000 Drainge (sq mi): 3006.0 Depth: 0

Location: Lat: 44.26314 Long: -70.17679

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	43	43.0	7.56	1290	6.53	30.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	0.53	1770	8.96	590.0
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	0.53	46	0.23	15.3
43-028	SPOTTAIL SHINER	I	P	MG	L	E	2	2.0	0.35	4	0.02	2.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	13	13.0	2.28	4010	20.30	308.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	100	100.0	17.57	6570	33.27	65.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	23	23.0	4.04	1095	5.54	47.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	3	3.0	0.53	315	1.59	105.0
80-003	YELLOW PERCH	C		MG	V	M	379	379.0	66.61	4650	23.54	12.2

No Species: 9 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 569 **Total Rel. Wt. :** 19750

IBI: 27.6

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 38.90 Date: 08/01/2003

Time Fished: 1767 Distance: 1.000 Drainge (sq mi): 2511.0 Depth: 0

Location: Lat: 44.31275 Long: -70.18269

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	3	3.0	0.58	570	6.86	190.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.19	400	4.81	400.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.19	1	0.01	1.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	371	371.0	72.04	378	4.55	1.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	71	71.0	13.79	4095	49.26	57.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	21	21.0	4.08	562	6.76	26.7
77-030	REDBREAST SUNFISH	I		MG	PN	E	22	22.0	4.27	1060	12.75	48.1
80-003	YELLOW PERCH	C		MG	V	M	25	25.0	4.85	1247	15.00	49.8

No Species: 8 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 515 **Total Rel. Wt. :** 8313

IBI: 23.0

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 41.20 Date: 08/01/2003

Time Fished: 5539 Distance: 1.000 Drainge (sq mi): 2505.0 Depth: 0

Location: Lat: 44.33670 Long: -70.19409

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.39	855	2.17	427.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	23	23.0	4.45	14411	36.65	626.5
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.19	16	0.04	16.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	29	29.0	5.61	40	0.10	1.3
43-100	FALLFISH	G		FS	LN	E	185	185.0	35.78	757	1.93	4.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	146	146.0	28.24	16660	42.37	114.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	19	19.0	3.68	1736	4.41	91.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	7	7.0	1.35	283	0.72	40.4
77-030	REDBREAST SUNFISH	I		MG	PN	E	10	10.0	1.93	1198	3.05	119.8
80-003	YELLOW PERCH	C		MG	V	M	95	95.0	18.38	3365	8.56	35.4

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 517 **Total Rel. Wt. :** 39321

IBI: 27.3

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 46.60 Date: 09/11/2003

Time Fished: 4057 Distance: 1.000 Drainge (sq mi): 2430.0 Depth: 0

Location: Lat: 44.38897 Long: -70.15065

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	44	44.0	7.37	27240	65.11	619.0
43-026	COMMON SHINER	I		FD	NGL	E	15	15.0	2.51	20	0.05	1.3
43-028	SPOTTAIL SHINER	I	P	MG	L	E	72	72.0	12.06	100	0.24	1.3
43-100	FALLFISH	G		FS	LN	E	113	113.0	18.93	2084	4.98	18.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	332	332.0	55.61	12120	28.97	36.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.17	2	0.00	2.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	20	20.0	3.35	271	0.65	13.5

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 597 **Total Rel. Wt. :** 41837

IBI: 36.7

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 51.10 Date: 09/11/2003

Time Fished: 1862 Distance: 1.000 Drainge (sq mi): 2370.0 Depth: 0

Location: Lat: 44.44528 Long: -70.17399

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.13	40	0.18	40.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	19	19.0	2.53	4451	20.17	234.2
43-003	GOLDEN SHINER	G	T	MG	L	E	42	42.0	5.59	402	1.82	9.5
43-026	COMMON SHINER	I		FD	NGL	E	77	77.0	10.25	166	0.75	2.1
43-028	SPOTTAIL SHINER	I	P	MG	L	E	188	188.0	25.03	214	0.97	1.1
43-100	FALLFISH	G		FS	LN	E	48	48.0	6.39	517	2.34	10.7
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.13	300	1.36	300.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	187	187.0	24.90	12694	57.54	67.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	83	83.0	11.05	1155	5.24	13.9
77-030	REDBREAST SUNFISH	I		MG	PN	E	61	61.0	8.12	1649	7.47	27.0
80-003	YELLOW PERCH	C		MG	V	M	44	44.0	5.86	474	2.15	10.7

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 751 **Total Rel. Wt. :** 22062

IBI: 46.0

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 52.80 Date: 09/11/2003

Time Fished: 2713 Distance: 1.000 Drainge (sq mi): 2359.0 Depth: 0

Location: Lat: 44.46716 Long: -70.18613

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.15	60	0.18	60.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	13	13.0	1.91	10282	31.39	790.9
43-028	SPOTTAIL SHINER	I	P	MG	L	E	228	228.0	33.48	325	0.99	1.4
43-100	FALLFISH	G		FS	LN	E	16	16.0	2.35	44	0.13	2.7
60-001	BURBOT	C		FD	NGL	S	2	2.0	0.29	380	1.16	190.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	354	354.0	51.98	20244	61.80	57.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	37	37.0	5.43	538	1.64	14.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	26	26.0	3.82	832	2.54	32.0
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	0.59	50	0.15	12.5

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 681 **Total Rel. Wt. :** 32755

IBI: 39.5

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 55.80 Date: 09/10/2003

Time Fished: 3612 Distance: 1.000 Drainge (sq mi): 2349.0 Depth: 0

Location: Lat: 44.50193 Long: -70.21718

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	8	8.0	0.39	760	2.98	95.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	0.15	688	2.70	229.3
43-028	SPOTTAIL SHINER	I	P	MG	L	E	1633	1633.0	79.66	2072	8.12	1.2
43-100	FALLFISH	G		FS	LN	E	88	88.0	4.29	2480	9.72	28.1
60-001	BURBOT	C		FD	NGL	S	2	2.0	0.10	60	0.24	30.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	202	202.0	9.85	18450	72.28	91.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	10	10.0	0.49	125	0.49	12.5
80-003	YELLOW PERCH	C		MG	V	M	104	104.0	5.07	890	3.49	8.5

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 2050 **Total Rel. Wt. :** 25525

IBI: 42.6

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 57.10 Date: 08/02/2003

Time Fished: 3699 Distance: 1.000 Drainge (sq mi): 2346.0 Depth: 0

Location: Lat: 44.51119 Long: -70.23727

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	74	74.0	20.27	130	1.37	1.7
43-100	FALLFISH	G		FS	LN	E	72	72.0	19.73	95	1.00	1.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	163	163.0	44.66	8993	94.96	55.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.55	31	0.33	15.5
80-003	YELLOW PERCH	C		MG	V	M	54	54.0	14.79	221	2.33	4.0

No Species: 5 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 365 **Total Rel. Wt. :** 9470

IBI: 25.4

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 58.40 Date: 08/02/2003

Time Fished: 4388 Distance: 1.000 Drainge (sq mi): 2316.0 Depth: 0

Location: Lat: 44.50484 Long: -70.25015

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	37	37.0	7.72	12739	36.40	344.3
43-100	FALLFISH	G		FS	LN	E	92	92.0	19.21	124	0.35	1.3
60-001	BURBOT	C		FD	NGL	S	16	16.0	3.34	815	2.33	50.9
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	325	325.0	67.85	21277	60.79	65.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	0.63	27	0.08	9.0
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	1.25	17	0.05	2.8

No Species: 6 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 479 **Total Rel. Wt. :** 34999

IBI: 29.3

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 61.70 Date: 09/09/2003

Time Fished: 3536 Distance: 1.000 Drainge (sq mi): 2314.0 Depth: 0

Location: Lat: 44.47755 Long: -70.27131

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	5	5.0	0.88	160	0.92	32.0
43-026	COMMON SHINER	I		FD	NGL	E	12	12.0	2.11	70	0.40	5.8
43-028	SPOTTAIL SHINER	I	P	MG	L	E	15	15.0	2.64	54	0.31	3.6
43-100	FALLFISH	G		FS	LN	E	157	157.0	27.59	670	3.84	4.2
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.18	120	0.69	120.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	357	357.0	62.74	15790	90.52	44.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	1.05	370	2.12	61.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.18	50	0.29	50.0
80-003	YELLOW PERCH	C		MG	V	M	15	15.0	2.64	160	0.92	10.6

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 569 **Total Rel. Wt. :** 17444

IBI: 35.8

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 66.20 Date: 09/09/2003

Time Fished: 3552 Distance: 1.000 Drainge (sq mi): 2282.0 Depth: 0

Location: Lat: 44.48184 Long: -70.31918

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	5	5.0	0.54	400	2.32	80.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	0.22	588	3.42	294.0
43-100	FALLFISH	G		FS	LN	E	63	63.0	6.81	308	1.79	4.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	836	836.0	90.38	15738	91.44	18.8
77-030	REDBREAST SUNFISH	I		MG	PN	E	4	4.0	0.43	100	0.58	25.0
80-003	YELLOW PERCH	C		MG	V	M	15	15.0	1.62	78	0.45	5.2

No Species: 6 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 925 **Total Rel. Wt. :** 17212

IBI: 23.5

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 70.80 Date: 09/09/2003

Time Fished: 1711 Distance: 1.000 Drainge (sq mi): 2252.0 Depth: 0

Location: Lat: 44.50313 Long: -70.39828

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	0.23	1380	5.19	690.0
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.11	200	0.75	200.0
37-002	CHAIN PICKEREL	P		MG	L	M	4	4.0	0.46	250	0.94	62.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	26	26.0	2.99	1395	5.24	53.6
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	2	2.0	0.23	10	0.04	5.0
43-100	FALLFISH	G		FS	LN	E	155	155.0	17.82	1170	4.40	7.5
60-001	BURBOT	C		FD	NGL	S	6	6.0	0.69	883	3.32	147.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	665	665.0	76.44	21213	79.74	31.9
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.23	6	0.02	3.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.11	62	0.23	62.0
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	0.69	33	0.12	5.5

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 870 **Total Rel. Wt. :** 26602

IBI: 32.6

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 76.90 Date: 09/08/2003

Time Fished: 1921 Distance: 1.000 Drainge (sq mi): 2222.0 Depth: 0

Location: Lat: 44.53179 Long: -70.50765

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	0.27	690	1.22	345.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	50	50.0	6.82	31528	55.57	630.5
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.14	10	0.02	10.0
43-026	COMMON SHINER	I		FD	NGL	E	22	22.0	3.00	308	0.54	14.0
43-100	FALLFISH	G		FS	LN	E	206	206.0	28.10	1922	3.39	9.3
60-001	BURBOT	C		FD	NGL	S	2	2.0	0.27	290	0.51	145.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	450	450.0	61.39	21986	38.75	48.8

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 733 **Total Rel. Wt. :** 56734

IBI: 44.2

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 78.50 Date: 09/08/2003

Time Fished: 1642 Distance: 1.000 Drainge (sq mi): 2219.0 Depth: 0

Location: Lat: 44.54373 Long: -70.52824

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	5	5.0	1.29	2375	3.76	475.0
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.26	780	1.24	780.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	75	75.0	19.33	33115	52.46	441.5
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	0.77	18	0.03	6.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	2	2.0	0.52	11	0.02	5.5
43-100	FALLFISH	G		FS	LN	E	3	3.0	0.77	71	0.11	23.6
60-001	BURBOT	C		FD	NGL	S	3	3.0	0.77	448	0.71	149.3
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.26	150	0.24	150.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	290	290.0	74.74	26112	41.36	90.0
80-003	YELLOW PERCH	C		MG	V	M	5	5.0	1.29	48	0.08	9.6

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 388 **Total Rel. Wt. :** 63128

IBI: 34.8

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 79.30 Date: 09/08/2003

Time Fished: 3831 Distance: 1.000 Drainge (sq mi): 2215.0 Depth: 0

Location: Lat: 44.55437 Long: -70.53993

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	8	8.0	1.27	2920	5.78	365.0
25-002	RAINBOW TROUT	C		FD	LN	S	2	2.0	0.32	1100	2.18	550.0
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.32	68	0.13	34.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	27	27.0	4.29	24712	48.93	915.2
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	5	5.0	0.79	20	0.04	4.0
43-100	FALLFISH	G		FS	LN	E	2	2.0	0.32	23	0.05	11.5
60-001	BURBOT	C		FD	NGL	S	10	10.0	1.59	735	1.46	73.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	570	570.0	90.48	20908	41.40	36.6
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	0.63	18	0.04	4.5

No Species: 9 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 630 **Total Rel. Wt. :** 50504

IBI: 37.7

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 81.60 Date: 08/31/2009

Time Fished: 3018 Distance: 1.000 Drainge (sq mi): 2056.0 Depth: 100

Location: Dst. Rumford; Wheeler Island Lat: 44.52704 Long: -70.53881

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	52	52.0	69.33	210	5.66	4.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	2.67	1910	51.45	955.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	1.33	113	3.04	113.0
60-001	BURBOT	C		FD	NGL	S	4	4.0	5.33	285	7.68	71.2
74-003	WHITE PERCH	C		MG	L	M	1	1.0	1.33	18	0.48	18.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	4	4.0	5.33	856	23.06	214.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	6.67	100	2.69	20.0
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	8.00	220	5.93	36.6

No Species: 8 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 75 **Total Rel. Wt. :** 3712

IBI: 36.0

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 83.10 Date: 08/14/2003

Time Fished: 1613 Distance: 1.000 Drainge (sq mi): 2064.0 Depth: 0

Location: Lat: 44.50776 Long: -70.56682

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	14	14.0	2.88	798	26.20	57.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	0.41	928	30.47	464.0
43-003	GOLDEN SHINER	G	T	MG	L	E	17	17.0	3.50	380	12.48	22.3
43-026	COMMON SHINER	I		FD	NGL	E	2	2.0	0.41	2	0.07	1.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	359	359.0	73.87	140	4.60	0.3
43-100	FALLFISH	G		FS	LN	E	9	9.0	1.85	4	0.13	0.4
47-005	BROWN BULLHEAD	G	T	MG	P	E	3	3.0	0.62	46	1.51	15.3
60-001	BURBOT	C		FD	NGL	S	2	2.0	0.41	16	0.53	8.0
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.21	5	0.16	5.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	33	33.0	6.79	530	17.40	16.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	28	28.0	5.76	81	2.66	2.8
80-003	YELLOW PERCH	C		MG	V	M	16	16.0	3.29	116	3.81	7.2

No Species: 12 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 486 **Total Rel. Wt. :** 3046

IBI: 39.5

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 88.70 Date: 08/14/2003

Time Fished: 1375 Distance: 1.000 Drainge (sq mi): 2053.0 Depth: 0

Location: Lat: 44.48613 Long: -70.64429

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	3	3.0	0.59	716	7.71	238.6
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.39	58	0.62	29.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	125	125.0	24.56	5773	62.16	46.1
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	0.20	5	0.05	5.0
43-026	COMMON SHINER	I		FD	NGL	E	25	25.0	4.91	25	0.27	1.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	5	5.0	0.98	44	0.47	8.8
43-100	FALLFISH	G		FS	LN	E	192	192.0	37.72	574	6.18	2.9
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.20	112	1.21	112.0
60-001	BURBOT	C		FD	NGL	S	3	3.0	0.59	85	0.92	28.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	107	107.0	21.02	1644	17.70	15.3
80-003	YELLOW PERCH	C		MG	V	M	45	45.0	8.84	252	2.71	5.6

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 509 **Total Rel. Wt. :** 9288

IBI: 50.5

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 97.30 Date: 08/14/2003

Time Fished: 1722 Distance: 1.000 Drainge (sq mi): 1842.0 Depth: 0

Location: Lat: 44.48699 Long: -70.77745

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	0.32	1060	3.31	530.0
25-002	RAINBOW TROUT	C		FD	LN	S	13	13.0	2.08	2141	6.69	164.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	88	88.0	14.10	26121	81.66	296.8
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	12	12.0	1.92	40	0.13	3.3
43-026	COMMON SHINER	I		FD	NGL	E	16	16.0	2.56	20	0.06	1.2
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	1	1.0	0.16	1	0.00	1.0
43-100	FALLFISH	G		FS	LN	E	423	423.0	67.79	439	1.37	1.0
60-001	BURBOT	C		FD	NGL	S	5	5.0	0.80	179	0.56	35.8
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.16	20	0.06	20.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	61	61.0	9.78	1956	6.12	32.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.16	8	0.03	8.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	1	1.0	0.16	1	0.00	1.0

No Species: 12 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 624 **Total Rel. Wt. :** 31986

IBI: 61.5

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 103.70 Date: 08/14/2003

Time Fished: 2182 Distance: 1.000 Drainge (sq mi): 1756.0 Depth: 0

Location: Lat: 44.41713 Long: -70.79574

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.11	20	0.10	20.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.11	210	1.07	210.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	151	151.0	16.95	12616	64.21	83.5
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.11	18	0.09	18.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	11	11.0	1.23	32	0.16	2.9
43-026	COMMON SHINER	I		FD	NGL	E	11	11.0	1.23	26	0.13	2.3
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	1	1.0	0.11	1	0.01	1.0
43-100	FALLFISH	G		FS	LN	E	443	443.0	49.72	2268	11.54	5.1
60-001	BURBOT	C		FD	NGL	S	7	7.0	0.79	270	1.37	38.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	253	253.0	28.40	4146	21.10	16.3
80-003	YELLOW PERCH	C		MG	V	M	11	11.0	1.23	42	0.21	3.8

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 891 **Total Rel. Wt. :** 19649

IBI: 54.8

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 112.80 Date: 08/08/2003

Time Fished: 1794 Distance: 1.000 Drainge (sq mi): 1619.0 Depth: 0

Location: Lat: 44.39816 Long: -70.95787

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	0.22	358	1.56	179.0
25-002	RAINBOW TROUT	C		FD	LN	S	5	5.0	0.56	488	2.12	97.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	63	63.0	7.06	15429	67.11	244.9
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	2	2.0	0.22	42	0.18	21.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	151	151.0	16.93	514	2.24	3.4
43-026	COMMON SHINER	I		FD	NGL	E	7	7.0	0.78	22	0.10	3.1
43-028	SPOTTAIL SHINER	I	P	MG	L	E	2	2.0	0.22	1	0.00	0.5
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	2	2.0	0.22	3	0.01	1.5
43-100	FALLFISH	G		FS	LN	E	524	524.0	58.74	2852	12.41	5.4
43-110	LAKE CHUB	BI		FD	NGL	S	2	2.0	0.22	25	0.11	12.5
60-001	BURBOT	C		FD	NGL	S	7	7.0	0.78	503	2.19	71.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	103	103.0	11.55	2702	11.75	26.2
80-003	YELLOW PERCH	C		MG	V	M	22	22.0	2.47	51	0.22	2.3

No Species: 13 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 892 **Total Rel. Wt. :** 22990

IBI: 61.8

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 119.80 Date: 08/08/2003

Time Fished: 2112 Distance: 1.000 Drainge (sq mi): 1487.0 Depth: 0

Location: Lat: 44.40528 Long: -71.06850

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	7	7.0	3.59	2090	10.47	298.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	23	23.0	11.79	11824	59.22	514.0
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	4	4.0	2.05	440	2.20	110.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	23	23.0	11.79	64	0.32	2.7
43-100	FALLFISH	G		FS	LN	E	15	15.0	7.69	304	1.52	20.2
43-110	LAKE CHUB	BI		FD	NGL	S	6	6.0	3.08	126	0.63	21.0
60-001	BURBOT	C		FD	NGL	S	4	4.0	2.05	148	0.74	37.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	111	111.0	56.92	4816	24.12	43.3
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.03	154	0.77	77.0

No Species: 9 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 195 **Total Rel. Wt. :** 19966

IBI: 45.1

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 123.40 Date: 08/13/2003

Time Fished: 2086 Distance: 1.000 Drainge (sq mi): 1462.0 Depth: 0

Location: Lat: 44.39773 Long: -71.12628

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	7	7.0	2.46	912	10.48	130.2
43-003	GOLDEN SHINER	G	T	MG	L	E	14	14.0	4.91	380	4.37	27.1
43-026	COMMON SHINER	I		FD	NGL	E	14	14.0	4.91	170	1.95	12.1
43-028	SPOTTAIL SHINER	I	P	MG	L	E	78	78.0	27.37	500	5.75	6.4
43-100	FALLFISH	G		FS	LN	E	44	44.0	15.44	2703	31.06	61.4
47-005	BROWN BULLHEAD	G	T	MG	P	E	10	10.0	3.51	556	6.39	55.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	95	95.0	33.33	2884	33.14	30.3
80-003	YELLOW PERCH	C		MG	V	M	23	23.0	8.07	597	6.86	25.9

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 285 **Total Rel. Wt. :** 8702

IBI: 28.3

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 124.40 Date: 08/09/2003

Time Fished: 1519 Distance: 1.000 Drainge (sq mi): 1459.0 Depth: 0

Location: Lat: 44.39163 Long: -71.14515

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	3	3.0	0.53	366	1.11	122.0
25-002	RAINBOW TROUT	C		FD	LN	S	11	11.0	1.96	2758	8.38	250.7
40-016	WHITE SUCKER	I	T	FD	NGL	M	88	88.0	15.66	19091	58.01	216.9
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.0	0.18	160	0.49	160.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	36	36.0	6.41	170	0.52	4.7
43-026	COMMON SHINER	I		FD	NGL	E	12	12.0	2.14	58	0.18	4.8
43-028	SPOTTAIL SHINER	I	P	MG	L	E	3	3.0	0.53	6	0.02	2.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	1	1.0	0.18	1	0.00	1.0
43-100	FALLFISH	G		FS	LN	E	276	276.0	49.11	3650	11.09	13.2
43-110	LAKE CHUB	BI		FD	NGL	S	2	2.0	0.36	20	0.06	10.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	91	91.0	16.19	5265	16.00	57.8
80-003	YELLOW PERCH	C		MG	V	M	38	38.0	6.76	1367	4.15	35.9

No Species: 12 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 562 **Total Rel. Wt. :** 32912

IBI: 57.9

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 128.00 Date: 08/12/2003

Time Fished: 4531 Distance: 1.000 Drainge (sq mi): 1373.0 Depth: 0

Location: Lat: 44.40562 Long: -71.19706

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	21	21.0	3.22	1937	18.17	92.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	214	214.0	32.77	6830	64.06	31.9
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	2	2.0	0.31	96	0.90	48.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	203	203.0	31.09	474	4.45	2.3
43-013	CREEK CHUB	I	T	MG	L	E	2	2.0	0.31	55	0.52	27.5
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.15	1	0.01	1.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	1	1.0	0.15	7	0.07	7.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	6	6.0	0.92	27	0.25	4.5
43-100	FALLFISH	G		FS	LN	E	149	149.0	22.82	575	5.39	3.8
43-110	LAKE CHUB	BI		FD	NGL	S	22	22.0	3.37	256	2.40	11.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	32	32.0	4.90	404	3.79	12.6

No Species: 11 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 653 **Total Rel. Wt. :** 10662

IBI: 61.2

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 128.60 Date: 08/05/2003

Time Fished: 1592 Distance: 1.000 Drainge (sq mi): 1372.0 Depth: 0

Location: Lat: 44.41506 Long: -71.19201

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	102	102.0	12.23	3283	25.43	32.1
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.24	45	0.35	22.5
43-026	COMMON SHINER	I		FD	NGL	E	183	183.0	21.94	316	2.45	1.7
43-028	SPOTTAIL SHINER	I	P	MG	L	E	61	61.0	7.31	332	2.57	5.4
43-100	FALLFISH	G		FS	LN	E	314	314.0	37.65	1656	12.83	5.2
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	0.24	334	2.59	167.0
77-003	ROCK BASS	C		MG	LN	E	6	6.0	0.72	123	0.95	20.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	160	160.0	19.18	6803	52.69	42.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	0.36	15	0.12	5.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.12	4	0.03	4.0

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 834 **Total Rel. Wt. :** 12911

IBI: 33.6

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 130.50 Date: 08/05/2003

Time Fished: 1631 Distance: 1.000 Drainge (sq mi): 1359.0 Depth: 0

Location: Lat: 44.44141 Long: -71.18672

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.18	433	1.42	433.0
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.18	932	3.06	932.0
25-011	LANDLOCKED SALMON	C		FD	LN	S	1	1.0	0.18	188	0.62	188.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	89	89.0	16.06	13227	43.37	148.6
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.0	0.18	330	1.08	330.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	124	124.0	22.38	571	1.87	4.6
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	0.18	8	0.03	8.0
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	0.54	97	0.32	32.3
43-100	FALLFISH	G		FS	LN	E	200	200.0	36.10	3256	10.68	16.2
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	125	125.0	22.56	11248	36.88	89.9
77-006	LARGEMOUTH BASS	C		MG	PN	E	4	4.0	0.72	32	0.10	8.0
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	0.72	177	0.58	44.2

No Species: 12 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 554 **Total Rel. Wt. :** 30499

IBI: 47.7

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 131.50 Date: 08/13/2003

Time Fished: 2086 Distance: 1.000 Drainge (sq mi): 1356.0 Depth: 0

Location: Lat: 44.45309 Long: -71.18720

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	1	1.0	0.46	110	0.93	110.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	1.83	882	7.48	220.5
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.46	20	0.17	20.0
43-100	FALLFISH	G		FS	LN	E	8	8.0	3.67	408	3.46	51.0
77-003	ROCK BASS	C		MG	LN	E	1	1.0	0.46	190	1.61	190.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	189	189.0	86.70	10060	85.33	53.2
77-006	LARGEMOUTH BASS	C		MG	PN	E	14	14.0	6.42	120	1.02	8.5

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 218 **Total Rel. Wt. :** 11790

IBI: 39.2

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 132.00 Date: 08/09/2003

Time Fished: 2588 Distance: 1.000 Drainge (sq mi): 1355.0 Depth: 0

Location: Lat: 44.46124 Long: -71.18588

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-100	FALLFISH	G		FS	LN	E	16	16.0	9.82	70	1.10	4.3
77-003	ROCK BASS	C		MG	LN	E	1	1.0	0.61	10	0.16	10.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	132	132.0	80.98	6252	97.87	47.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	11	11.0	6.75	50	0.78	4.5
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	1.84	6	0.09	2.0

No Species: 5 **Nat. Species:** 1 **Hybrids:** 0 **Total Counted:** 163 **Total Rel. Wt. :** 6388

IBI: 12.9

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 134.10 Date: 08/12/2003

Time Fished: 1810 Distance: 1.000 Drainge (sq mi): 1335.0 Depth: 0

Location: Lat: 44.48321 Long: -71.16663

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	1.83	214	4.60	107.0
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.92	130	2.80	130.0
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	2.75	26	0.56	8.6
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.92	16	0.34	16.0
43-100	FALLFISH	G		FS	LN	E	22	22.0	20.18	60	1.29	2.7
77-003	ROCK BASS	C		MG	LN	E	3	3.0	2.75	37	0.80	12.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	65	65.0	59.63	4104	88.28	63.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	12	12.0	11.01	62	1.33	5.1

No Species: 8 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 109 **Total Rel. Wt. :** 4649

IBI: 27.4

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 139.20 Date: 08/07/2003

Time Fished: 1708 Distance: 1.000 Drainge (sq mi): 1311.0 Depth: 0

Location: Lat: 44.54484 Long: -71.17194

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	0.35	118	1.04	59.0
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.18	180	1.59	180.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.18	10	0.09	10.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	12	12.0	2.10	4254	37.48	354.5
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	2	2.0	0.35	18	0.16	9.0
43-026	COMMON SHINER	I		FD	NGL	E	199	199.0	34.85	602	5.30	3.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	3	3.0	0.53	34	0.30	11.3
43-100	FALLFISH	G		FS	LN	E	238	238.0	41.68	1164	10.26	4.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	80	80.0	14.01	4748	41.83	59.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	30	30.0	5.25	144	1.27	4.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.18	18	0.16	18.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	0.35	60	0.53	30.0

No Species: 12 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 571 **Total Rel. Wt. :** 11350

IBI: 51.3

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 144.70 Date: 08/07/2003

Time Fished: 2280 Distance: 1.000 Drainge (sq mi): 1215.3 Depth: 0

Location: Lat: 44.61595 Long: -71.22078

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	2	2.0	1.08	83	1.84	41.5
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.54	10	0.22	10.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	1.62	536	11.89	178.6
43-003	GOLDEN SHINER	G	T	MG	L	E	11	11.0	5.95	58	1.29	5.2
43-026	COMMON SHINER	I		FD	NGL	E	19	19.0	10.27	110	2.44	5.7
43-100	FALLFISH	G		FS	LN	E	43	43.0	23.24	101	2.24	2.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	76	76.0	41.08	3401	75.43	44.7
77-006	LARGEMOUTH BASS	C		MG	PN	E	21	21.0	11.35	80	1.77	3.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	1.08	24	0.53	12.0
80-003	YELLOW PERCH	C		MG	V	M	7	7.0	3.78	106	2.35	15.1

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 185 **Total Rel. Wt. :** 4509

IBI: 36.3

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 148.10 Date: 08/04/2003

Time Fished: 3160 Distance: 1.000 Drainge (sq mi): 1210.2 Depth: 0

Location: Lat: 44.63565 Long: -71.23368

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	52	52.0	32.10	764	26.92	14.6
43-003	GOLDEN SHINER	G	T	MG	L	E	24	24.0	14.81	45	1.59	1.8
43-100	FALLFISH	G		FS	LN	E	17	17.0	10.49	13	0.46	0.7
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.62	26	0.92	26.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	11.0	6.79	881	31.04	80.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	28	28.0	17.28	42	1.48	1.5
80-003	YELLOW PERCH	C		MG	V	M	29	29.0	17.90	1067	37.60	36.7

No Species: 7 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 162 **Total Rel. Wt. :** 2838

IBI: 23.6

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 158.80 Date: 08/04/2003

Time Fished: 3764 Distance: 1.000 Drainge (sq mi): 1142.5 Depth: 0

Location: Lat: 44.74183 Long: -71.17874

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	0.79	432	5.60	216.0
25-002	RAINBOW TROUT	C		FD	LN	S	4	4.0	1.57	744	9.64	186.0
25-011	LANDLOCKED SALMON	C		FD	LN	S	2	2.0	0.79	258	3.34	129.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	2.36	3600	46.63	600.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	5	5.0	1.97	36	0.47	7.2
43-026	COMMON SHINER	I		FD	NGL	E	181	181.0	71.26	27	0.35	0.1
43-100	FALLFISH	G		FS	LN	E	10	10.0	3.94	58	0.75	5.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	43	43.0	16.93	2555	33.10	59.4
90-003	SLIMY SCULPIN	BI		FS	NGL	S	1	1.0	0.39	10	0.13	10.0

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 254 **Total Rel. Wt. :** 7720

IBI: 58.8

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 164.30 Date: 08/04/2003

Time Fished: 2029 Distance: 1.000 Drainge (sq mi): 1135.6 Depth: 0

Location: Lat: 44.77612 Long: -71.13542

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	0.97	200	1.36	100.0
25-002	RAINBOW TROUT	C		FD	LN	S	2	2.0	0.97	107	0.73	53.5
25-011	LANDLOCKED SALMON	C		FD	LN	S	1	1.0	0.49	100	0.68	100.0
37-002	CHAIN PICKEREL	P		MG	L	M	7	7.0	3.40	202	1.37	28.8
40-016	WHITE SUCKER	I	T	FD	NGL	M	35	35.0	16.99	9400	63.78	268.5
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.97	1	0.01	0.5
43-026	COMMON SHINER	I		FD	NGL	E	34	34.0	16.50	134	0.91	3.9
43-100	FALLFISH	G		FS	LN	E	69	69.0	33.50	1599	10.85	23.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	31	31.0	15.05	2696	18.29	86.9
77-006	LARGEMOUTH BASS	C		MG	PN	E	12	12.0	5.83	36	0.24	3.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.97	39	0.26	19.5
80-003	YELLOW PERCH	C		MG	V	M	9	9.0	4.37	224	1.52	24.8

No Species: 12 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 206 **Total Rel. Wt. :** 14738

IBI: 45.0

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 170.90 Date: 08/31/2009

Time Fished: 3253 Distance: 1.000 Drainge (sq mi): 1220.0 Depth: 310

Location: Ust. Milan NH; Adj. E, of River Rd. Lat: 44.60103 Long: -71.20210

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	11	11.0	4.95	410	11.53	37.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	1.35	857	24.11	285.6
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.90	10	0.28	5.0
43-026	COMMON SHINER	I		FD	NGL	E	58	58.0	26.13	200	5.63	3.4
43-100	FALLFISH	G		FS	LN	E	37	37.0	16.67	252	7.09	6.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	10	10.0	4.50	1115	31.36	111.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	45	45.0	20.27	258	7.26	5.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	1.80	20	0.56	5.0
80-003	YELLOW PERCH	C		MG	V	M	52	52.0	23.42	433	12.18	8.3

No Species: 9 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 222 **Total Rel. Wt. :** 3555

IBI: 35.3

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 171.00 Date: 08/14/2009

Time Fished: 3061 Distance: 1.000 Drainge (sq mi): 1220.0 Depth: 590

Location: Lat: 44.74361 Long: -71.14440

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	3	3.0	2.63	620	7.09	206.6
25-010	ATLANTIC SALMON	C		A	LN	S	2	2.0	1.75	490	5.60	245.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.88	20	0.23	20.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	46	46.0	40.35	5990	68.51	130.2
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	3	3.0	2.63	45	0.51	15.0
43-026	COMMON SHINER	I		FD	NGL	E	28	28.0	24.56	104	1.19	3.7
43-100	FALLFISH	G		FS	LN	E	10	10.0	8.77	120	1.37	12.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	8	8.0	7.02	680	7.78	85.0
80-003	YELLOW PERCH	C		MG	V	M	13	13.0	11.40	674	7.71	51.8

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 114 **Total Rel. Wt. :** 8743

IBI: 51.7

Appendix C-3
Fish Species List

River: 60-001 Androscoggin River (ust. Brunswick Dam) RM: 171.00 Date: 09/27/2009

Time Fished: 3258 Distance: 1.000 Drainge (sq mi): 1220.0 Depth: 420

Location: Lat: 44.74361 Long: -71.14440

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	1	1.0	0.23	80	5.36	80.0
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.47	280	18.75	140.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	46	46.0	10.70	515	34.49	11.2
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.47	6	0.40	3.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	1	1.0	0.23	4	0.27	4.0
43-026	COMMON SHINER	I		FD	NGL	E	216	216.0	50.23	288	19.29	1.3
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	1	1.0	0.23	8	0.54	8.0
43-100	FALLFISH	G		FS	LN	E	133	133.0	30.93	126	8.44	0.9
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	4	4.0	0.93	122	8.17	30.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	2	2.0	0.47	4	0.27	2.0
80-003	YELLOW PERCH	C		MG	V	M	22	22.0	5.12	60	4.02	2.7

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 430 **Total Rel. Wt. :** 1493

IBI: 67.8

Appendix C-3
Fish Species List

River: 60-700 Magalloway RM: 15.82 Date: 09/13/2007

Time Fished: 3838 Distance: 1.000 Drainge (sq mi): 218.3 Depth: 0

Location: Lat: 44.93856 Long: -71.03175

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	26	26.0	20.80	2795	57.57	107.5
25-011	LANDLOCKED SALMON	C		FD	LN	S	17	17.0	13.60	778	16.02	45.7
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	1.60	790	16.27	395.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.80	4	0.08	4.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	16	16.0	12.80	102	2.10	6.3
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.80	2	0.04	2.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	7	7.0	5.60	6	0.12	0.8
43-100	FALLFISH	G		FS	LN	E	3	3.0	2.40	6	0.12	2.0
43-110	LAKE CHUB	BI		FD	NGL	S	2	2.0	1.60	13	0.27	6.5
47-005	BROWN BULLHEAD	G	T	MG	P	E	7	7.0	5.60	171	3.52	24.4
90-003	SLIMY SCULPIN	BI		FS	NGL	S	43	43.0	34.40	188	3.87	4.3

No Species: 11 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 125 **Total Rel. Wt. :** 4855

IBI: 77.6

Appendix C-3
Fish Species List

River: 60-800 Rapid River RM: 4.90 Date: 09/12/2007

Time Fished: 5923 Distance: 1.000 Drainge (sq mi): 564.6 Depth: 0

Location: Lat: 44.76562 Long: -70.94633

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	5	5.0	3.31	2390	18.96	478.0
25-011	LANDLOCKED SALMON	C		FD	LN	S	22	22.0	14.57	6833	54.21	310.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	1.99	1865	14.80	621.6
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	5	5.0	3.31	58	0.46	11.6
43-026	COMMON SHINER	I		FD	NGL	E	43	43.0	28.48	31	0.25	0.7
43-100	FALLFISH	G		FS	LN	E	40	40.0	26.49	45	0.36	1.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	33	33.0	21.85	1382	10.96	41.8

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 151 **Total Rel. Wt. :** 12604

IBI: 58.6

Appendix C-3
Fish Species List

River: 60-800 Rapid River RM: 5.90 Date: 09/21/2006

Time Fished: 5858 Distance: 1.000 Drainge (sq mi): 562.5 Depth: 0

Location: Lat: 44.76100 Long: -70.93500

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	2	2.0	1.64	44	0.63	22.0
25-011	LANDLOCKED SALMON	C		FD	LN	S	34	34.0	27.87	4690	66.73	137.9
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.82	158	2.25	158.0
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	2.46	24	0.34	8.0
43-100	FALLFISH	G		FS	LN	E	2	2.0	1.64	8	0.11	4.0
43-110	LAKE CHUB	BI		FD	NGL	S	2	2.0	1.64	36	0.51	18.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	62	62.0	50.82	1841	26.20	29.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	12	12.0	9.84	143	2.03	11.9
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	3.28	84	1.20	21.0

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 122 **Total Rel. Wt. :** 7028

IBI: 40.3

Appendix C-3
Fish Species List

River: 60-800 Rapid River RM: 7.25 Date: 09/11/2007

Time Fished: 4393 Distance: 0.900 Drainge (sq mi): 560.9 Depth: 0

Location: Lat: 44.77277 Long: -70.92650

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	3	3.3	2.97	2110	10.62	633.3
25-011	LANDLOCKED SALMON	C		FD	LN	S	27	30.0	26.73	7883	39.66	262.8
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	10.0	8.91	5776	29.06	577.6
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.1	0.99	11	0.06	10.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	2	2.2	1.98	55	0.28	25.0
43-026	COMMON SHINER	I		FD	NGL	E	4	4.4	3.96	44	0.22	10.0
43-100	FALLFISH	G		FS	LN	E	4	4.4	3.96	157	0.79	35.5
43-110	LAKE CHUB	BI		FD	NGL	S	4	4.4	3.96	69	0.35	15.7
47-005	BROWN BULLHEAD	G	T	MG	P	E	5	5.6	4.95	307	1.55	55.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	42	46.7	41.58	3459	17.41	74.1

No Species: 10 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 101 **Total Rel. Wt. :** 19876

IBI: 59.3

Appendix C-3
Fish Species List

River: 60-900 C Pond RM: 0.10 Date: 06/12/2006

Time Fished: 6820 Distance: 1.000 Drainge (sq mi): 2.9 Depth: 0

Location: Lat: 44.71500 Long: -70.88200

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	5	5.0	1.21	75	1.01	15.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	54	54.0	13.04	3445	46.53	63.8
43-003	GOLDEN SHINER	G	T	MG	L	E	184	184.0	44.44	350	4.73	1.9
43-013	CREEK CHUB	I	T	MG	L	E	9	9.0	2.17	240	3.24	26.6
43-026	COMMON SHINER	I		FD	NGL	E	31	31.0	7.49	400	5.40	12.9
43-037	BLACKNOSE SHINER	I	R	MG	L	E	47	47.0	11.35	150	2.03	3.1
43-042	FATHEAD MINNOW	G	T	MG	CN	E	10	10.0	2.42	50	0.68	5.0
43-100	FALLFISH	G		FS	LN	E	21	21.0	5.07	570	7.70	27.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	6	6.0	1.45	260	3.51	43.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	13	13.0	3.14	214	2.89	16.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	34	34.0	8.21	1650	22.29	48.5

No Species: 11 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 414 **Total Rel. Wt. :** 7404

IBI: 60.5

Appendix C-3
Fish Species List

River: 60-900 C Pond RM: 3.00 Date: 09/18/2006

Time Fished: 4108 Distance: 1.000 Drainge (sq mi): 2.9 Depth: 0

Location: Lat: 44.71971 Long: -70.88505

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	8	8.0	0.94	330	3.92	41.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	63	63.0	7.37	3550	42.15	56.3
43-003	GOLDEN SHINER	G	T	MG	L	E	21	21.0	2.46	250	2.97	11.9
43-013	CREEK CHUB	I	T	MG	L	E	10	10.0	1.17	95	1.13	9.5
43-026	COMMON SHINER	I		FD	NGL	E	251	251.0	29.36	760	9.02	3.0
43-037	BLACKNOSE SHINER	I	R	MG	L	E	1	1.0	0.12	2	0.02	2.0
43-100	FALLFISH	G		FS	LN	E	143	143.0	16.73	810	9.62	5.6
43-110	LAKE CHUB	BI		FD	NGL	S	4	4.0	0.47	30	0.36	7.5
47-005	BROWN BULLHEAD	G	T	MG	P	E	11	11.0	1.29	125	1.48	11.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	71	71.0	8.30	1810	21.49	25.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	272	272.0	31.81	660	7.84	2.4

No Species: 11 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 855 **Total Rel. Wt. :** 8422

IBI: 59.8

Appendix C-3
Fish Species List

River: 65-001 Winooski River RM: 4.10 Date: 08/16/2009

Time Fished: 4442 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 210

Location: Lat: 44.53842 Long: -73.26266

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
10-004	LONGNOSE GAR						1	1.0	0.32	10	0.03	10.0
15-001	BOWFIN						1	1.0	0.32	2910	8.44	2910.0
37-003	NORTHERN PIKE	P		MG	L	M	4	4.0	1.27	4560	13.23	1140.0
40-008	SILVER REDHORSE		M				11	11.0	3.50	11540	33.47	1049.0
43-001	COMMON CARP	O	T	MG	V	E	1	1.0	0.32	5020	14.56	5020.0
43-003	GOLDEN SHINER	G	T	MG	L	E	8	8.0	2.55	73	0.21	9.1
43-020	EMERALD SHINER						55	55.0	17.52	94	0.27	1.7
43-028	SPOTTAIL SHINER	I	P	MG	L	E	1	1.0	0.32	12	0.03	12.0
43-032	SPOTFIN SHINER						12	12.0	3.82	35	0.10	2.9
43-035	MIMIC SHINER	I	I	MG		E	10	10.0	3.18	20	0.06	2.0
43-043	BLUNTNOSE MINNOW		T				25	25.0	7.96	80	0.23	3.2
77-003	ROCK BASS	C		MG	LN	E	21	21.0	6.69	860	2.49	40.9
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	10	10.0	3.18	2784	8.07	278.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	0.96	17	0.05	5.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	49	49.0	15.61	1054	3.06	21.5
80-002	WALLEYE	C		MG		M	3	3.0	0.96	3460	10.04	1153.3
80-003	YELLOW PERCH	C		MG	V	M	99	99.0	31.53	1950	5.66	19.7

No Species: 17 **Nat. Species:** 1 **Hybrids:** 0 **Total Counted:** 314 **Total Rel. Wt. :** 34479

IBI: 23.1

Appendix C-3
Fish Species List

River: 65-001 Winooski River RM: 12.40 Date: 09/03/2008

Time Fished: 3893 Distance: 1.000 Drainge (sq mi): 1052.0 Depth: 230

Location: DST SR-7 bridge, Winooski, VT Lat: 44.49087 Long: -73.19576

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	0.15	1600	5.18	1600.0
40-008	SILVER REDHORSE		M				5	5.0	0.74	6350	20.55	1270.0
40-011	SHORTHEAD REDHORSE		M				16	16.0	2.38	17040	55.14	1065.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	90	90.0	13.39	1992	6.45	22.1
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.15	4	0.01	4.0
43-022	ROSYFACE SHINER	I	I	FD		E	22	22.0	3.27	28	0.09	1.2
43-032	SPOTFIN SHINER						26	26.0	3.87	70	0.23	2.6
43-035	MIMIC SHINER	I	I	MG		E	95	95.0	14.14	150	0.49	1.5
43-042	FATHEAD MINNOW	G	T	MG	CN	E	1	1.0	0.15	4	0.01	4.0
43-043	BLUNTNOSE MINNOW		T				10	10.0	1.49	50	0.16	5.0
43-100	FALLFISH	G		FS	LN	E	81	81.0	12.05	110	0.36	1.3
50-001	AMERICAN EEL	C		C		M	1	1.0	0.15	30	0.10	30.0
63-001	TROUT-PERCH						4	4.0	0.60	10	0.03	2.5
77-003	ROCK BASS	C		MG	LN	E	16	16.0	2.38	1028	3.33	64.2
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	29	29.0	4.32	1510	4.89	52.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	0.15	2	0.01	2.0
80-003	YELLOW PERCH	C		MG	V	M	250	250.0	37.20	780	2.52	3.1
80-011	LOGPERCH		M				20	20.0	2.98	140	0.45	7.0
80-035	TESSELATED DARTER	BI		FD		M	3	3.0	0.45	6	0.02	2.0

No Species: 19 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 672 **Total Rel. Wt. :** 30904

IBI: 28.1

Appendix C-3
Fish Species List

River: 65-001 Winooski River RM: 15.30 Date: 08/21/2009

Time Fished: 3407 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 270

Location: Lat: 44.48913 Long: -73.14298

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	3.26	6993	59.71	777.0
43-022	ROSYFACE SHINER	I	I	FD		E	10	10.0	3.62	19	0.16	1.9
43-100	FALLFISH	G		FS	LN	E	186	186.0	67.39	1165	9.95	6.2
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	37	37.0	13.41	3416	29.17	92.3
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.36	90	0.77	90.0
80-013	EASTERN SAND DARTER		R				2	2.0	0.72	8	0.07	4.0
80-035	TESSELATED DARTER	BI		FD		M	31	31.0	11.23	20	0.17	0.6

No Species: 7 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 276 **Total Rel. Wt. :** 11711

IBI: 35.4

Appendix C-3
Fish Species List

River: 65-001 Winooski River RM: 21.40 Date: 08/15/2009

Time Fished: 2741 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 240

Location: Lat: 44.47194 Long: -73.09956

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	584	584.0	65.77	5675	55.81	9.7
43-003	GOLDEN SHINER	G	T	MG	L	E	5	5.0	0.56	180	1.77	36.0
43-026	COMMON SHINER	I		FD	NGL	E	15	15.0	1.69	10	0.10	0.6
43-028	SPOTTAIL SHINER	I	P	MG	L	E	2	2.0	0.23	2	0.02	1.0
43-043	BLUNTNOSE MINNOW		T				10	10.0	1.13	40	0.39	4.0
43-100	FALLFISH	G		FS	LN	E	18	18.0	2.03	1026	10.09	57.0
43-121	Eastern Silvery Minnow	G		MG		E	1	1.0	0.11	6	0.06	6.0
63-001	TROUT-PERCH						37	37.0	4.17	100	0.98	2.7
77-003	ROCK BASS	C		MG	LN	E	10	10.0	1.13	240	2.36	24.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	11.0	1.24	2590	25.47	235.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	4	4.0	0.45	10	0.10	2.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	9	9.0	1.01	100	0.98	11.1
80-003	YELLOW PERCH	C		MG	V	M	10	10.0	1.13	77	0.76	7.7
80-035	TESSELATED DARTER	BI		FD		M	172	172.0	19.37	112	1.10	0.6

No Species: 14 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 888 **Total Rel. Wt. :** 10168

IBI: 49.6

Appendix C-3
Fish Species List

River: 65-001 Winooski River RM: 21.40 Date: 09/15/2009

Time Fished: 3701 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 220

Location: Lat: 44.47194 Long: -73.09956

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	140	140.0	35.00	8350	59.97	59.6
43-026	COMMON SHINER	I		FD	NGL	E	2	2.0	0.50	6	0.04	3.0
43-100	FALLFISH	G		FS	LN	E	125	125.0	31.25	690	4.96	5.5
77-003	ROCK BASS	C		MG	LN	E	2	2.0	0.50	8	0.06	4.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	17	17.0	4.25	4468	32.09	262.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	8	8.0	2.00	155	1.11	19.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.25	30	0.22	30.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.25	60	0.43	60.0
80-035	TESSELATED DARTER	BI		FD		M	102	102.0	25.50	150	1.08	1.4
95-001	BROOK STICKLEBACK	I		MG	VCN	M	2	2.0	0.50	6	0.04	3.0

No Species: 10 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 400 **Total Rel. Wt. :** 13923

IBI: 49.1

Appendix C-3
Fish Species List

River: 65-001 Winooski River RM: 23.00 Date: 08/15/2009

Time Fished: 3081 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 350

Location: Lat: 44.47401 Long: -73.05540

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	47	47.0	29.01	4080	51.68	86.8
43-022	ROSYFACE SHINER	I	I	FD		E	2	2.0	1.23	10	0.13	5.0
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	1.85	20	0.25	6.6
43-100	FALLFISH	G		FS	LN	E	38	38.0	23.46	500	6.33	13.1
77-003	ROCK BASS	C		MG	LN	E	5	5.0	3.09	180	2.28	36.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	38	38.0	23.46	2843	36.01	74.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	1.23	11	0.14	5.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	19	19.0	11.73	210	2.66	11.0
80-035	TESSELATED DARTER	BI		FD		M	8	8.0	4.94	40	0.51	5.0

No Species: 9 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 162 **Total Rel. Wt. :** 7894

IBI: 30.3

Appendix C-3
Fish Species List

River: 65-001 Winooski River RM: 28.10 Date: 08/15/2009

Time Fished: 2213 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 240

Location: Lat: 44.44271 Long: -73.02418

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	3	3.0	3.90	480	3.37	160.0
25-002	RAINBOW TROUT	C		FD	LN	S	3	3.0	3.90	540	3.79	180.0
25-010	ATLANTIC SALMON	C		A	LN	S	4	4.0	5.19	420	2.94	105.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	19	19.0	24.68	11080	77.68	583.1
43-026	COMMON SHINER	I		FD	NGL	E	2	2.0	2.60	12	0.08	6.0
43-035	MIMIC SHINER	I	I	MG		E	1	1.0	1.30	8	0.06	8.0
43-100	FALLFISH	G		FS	LN	E	12	12.0	15.58	30	0.21	2.5
63-001	TROUT-PERCH						1	1.0	1.30	10	0.07	10.0
77-003	ROCK BASS	C		MG	LN	E	1	1.0	1.30	30	0.21	30.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	19	19.0	24.68	1578	11.06	83.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	7.79	42	0.29	7.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	1.30	10	0.07	10.0
80-035	TESSELATED DARTER	BI		FD		M	5	5.0	6.49	23	0.16	4.6

No Species: 13 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 77 **Total Rel. Wt. :** 14263

IBI: 48.6

Appendix C-3
Fish Species List

River: 65-001 Winooski River RM: 31.00 Date: 09/01/2008

Time Fished: 4508 Distance: 1.000 Drainge (sq mi): 968.0 Depth: 260

Location: UST I-89 bridge @ Richmond, VT exit Lat: 44.42187 Long: -73.01537

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	1.06	360	2.55	180.0
25-010	ATLANTIC SALMON	C		A	LN	S	4	4.0	2.12	32	0.23	8.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	28	28.0	14.81	10632	75.27	379.7
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.0	0.53	10	0.07	10.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	2	2.0	1.06	10	0.07	5.0
43-013	CREEK CHUB	I	T	MG	L	E	2	2.0	1.06	10	0.07	5.0
43-022	ROSYFACE SHINER	I	I	FD		E	6	6.0	3.17	12	0.08	2.0
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.53	20	0.14	20.0
43-100	FALLFISH	G		FS	LN	E	47	47.0	24.87	210	1.49	4.4
77-003	ROCK BASS	C		MG	LN	E	7	7.0	3.70	100	0.71	14.2
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	65	65.0	34.39	2580	18.27	39.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	10	10.0	5.29	110	0.78	11.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.06	14	0.10	7.0
80-035	TESSELATED DARTER	BI		FD		M	12	12.0	6.35	25	0.18	2.0

No Species: 14 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 189 **Total Rel. Wt. :** 14125

IBI: 52.5

Appendix C-3
Fish Species List

River: 65-001 Winooski River RM: 48.00 Date: 09/04/2008

Time Fished: 4955 Distance: 1.000 Drainge (sq mi): 682.0 Depth: 100

Location: DST Waterbury, VT bridge Lat: 44.32889 Long: -72.74815

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	14	14.0	1.49	6248	23.66	446.2
25-002	RAINBOW TROUT	C		FD	LN	S	12	12.0	1.28	5314	20.13	442.8
25-010	ATLANTIC SALMON	C		A	LN	S	16	16.0	1.71	361	1.37	22.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	94	94.0	10.03	10030	37.99	106.7
43-011	WESTERN BLACKNOSE DACE		T				2	2.0	0.21	0	0.00	0.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	27	27.0	2.88	53	0.20	1.9
43-013	CREEK CHUB	I	T	MG	L	E	29	29.0	3.09	910	3.45	31.3
43-026	COMMON SHINER	I		FD	NGL	E	315	315.0	33.62	1260	4.77	4.0
43-043	BLUNTNOSE MINNOW		T				60	60.0	6.40	176	0.67	2.9
43-100	FALLFISH	G		FS	LN	E	354	354.0	37.78	1970	7.46	5.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	2	2.0	0.21	52	0.20	26.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.21	10	0.04	5.0
80-035	TESSELATED DARTER	BI		FD		M	10	10.0	1.07	18	0.07	1.8

No Species: 13 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 937 **Total Rel. Wt. :** 26402

IBI: 72.8

Appendix C-3
Fish Species List

River: 65-001 Winooski River RM: 49.70 Date: 09/02/2008

Time Fished: 4288 Distance: 1.000 Drainge (sq mi): 673.0 Depth: 500

Location: 2 km UST Waterbury, VT bridge Lat: 44.31823 Long: -72.72694

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.14	10	0.07	10.0
25-002	RAINBOW TROUT	C		FD	LN	S	6	6.0	0.85	2570	18.00	428.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	99	99.0	13.98	8782	61.50	88.7
43-011	WESTERN BLACKNOSE DACE		T				30	30.0	4.24	62	0.43	2.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	18	18.0	2.54	13	0.09	0.7
43-013	CREEK CHUB	I	T	MG	L	E	11	11.0	1.55	100	0.70	9.0
43-026	COMMON SHINER	I		FD	NGL	E	319	319.0	45.06	1500	10.50	4.7
43-043	BLUNTNOSE MINNOW		T				30	30.0	4.24	110	0.77	3.6
43-100	FALLFISH	G		FS	LN	E	170	170.0	24.01	710	4.97	4.1
77-003	ROCK BASS	C		MG	LN	E	1	1.0	0.14	70	0.49	70.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	5	5.0	0.71	258	1.81	51.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	9	9.0	1.27	80	0.56	8.8
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.14	2	0.01	2.0
80-035	TESSELATED DARTER	BI		FD		M	8	8.0	1.13	12	0.08	1.5

No Species: 14 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 708 **Total Rel. Wt. :** 14279

IBI: 55.7

Appendix C-3
Fish Species List

River: 66-001 Missisquoi River RM: 40.10 Date: 09/05/2008

Time Fished: 6251 Distance: 1.000 Drainge (sq mi): 481.0 Depth: 75

Location: DST Randy King Farm access, E. Berkshire, VT Lat: 44.93774 Long: -72.69974

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.07	60	0.28	60.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	166	166.0	12.35	13904	65.17	83.7
43-011	WESTERN BLACKNOSE DACE		T				1	1.0	0.07	2	0.01	2.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	6	6.0	0.45	22	0.10	3.6
43-013	CREEK CHUB	I	T	MG	L	E	52	52.0	3.87	338	1.58	6.5
43-022	ROSYFACE SHINER	I	I	FD		E	7	7.0	0.52	16	0.08	2.2
43-026	COMMON SHINER	I		FD	NGL	E	657	657.0	48.88	1850	8.67	2.8
43-028	SPOTTAIL SHINER	I	P	MG	L	E	5	5.0	0.37	6	0.03	1.2
43-035	MIMIC SHINER	I	I	MG		E	29	29.0	2.16	34	0.16	1.1
43-043	BLUNTNOSE MINNOW		T				93	93.0	6.92	268	1.26	2.8
43-100	FALLFISH	G		FS	LN	E	190	190.0	14.14	2400	11.25	12.6
63-001	TROUT-PERCH						2	2.0	0.15	8	0.04	4.0
77-002	BLACK CRAPPIE	C		MG	PN	E	27	27.0	2.01	460	2.16	17.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	24	24.0	1.79	1370	6.42	57.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	59	59.0	4.39	424	1.99	7.1
80-011	LOGPERCH		M				15	15.0	1.12	152	0.71	10.1
80-024	FANTAIL DARTER						4	4.0	0.30	8	0.04	2.0
80-035	TESSELATED DARTER	BI		FD		M	6	6.0	0.45	12	0.06	2.0

No Species: 18 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 1344 **Total Rel. Wt. :** 21334

IBI: 51.1

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 0.40 Date: 07/30/2004

Time Fished: 3818 Distance: 1.000 Drainge (sq mi): 7351.0 Depth: 0

Location: Lat: 44.92441 Long: -68.63617

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	11	11.0	5.21	16	0.29	1.4
43-026	COMMON SHINER	I		FD	NGL	E	38	38.0	18.01	45	0.82	1.1
43-100	FALLFISH	G		FS	LN	E	44	44.0	20.85	44	0.81	1.0
50-001	AMERICAN EEL	C		C		M	7	7.0	3.32	1100	20.15	157.1
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	2	2.0	0.95	4	0.07	2.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	92	92.0	43.60	3588	65.74	39.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.47	1	0.02	1.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	16	16.0	7.58	660	12.09	41.2

No Species: 8 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 211 **Total Rel. Wt. :** 5458

IBI: 35.7

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 1.60 Date: 07/30/2004

Time Fished: 3789 Distance: 1.000 Drainge (sq mi): 7345.0 Depth: 0

Location: Lat: 44.93666 Long: -68.64039

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	0.63	2900	28.22	2900.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	2.52	6	0.06	1.5
43-026	COMMON SHINER	I		FD	NGL	E	25	25.0	15.72	17	0.17	0.6
43-100	FALLFISH	G		FS	LN	E	30	30.0	18.87	55	0.54	1.8
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	1.26	320	3.11	160.0
50-001	AMERICAN EEL	C		C		M	29	29.0	18.24	2820	27.44	97.2
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	66	66.0	41.51	3885	37.80	58.8
77-030	REDBREAST SUNFISH	I		MG	PN	E	2	2.0	1.26	275	2.68	137.5

No Species: 8 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 159 **Total Rel. Wt. :** 10278

IBI: 49.8

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 3.30 Date: 07/30/2004

Time Fished: 2983 Distance: 1.000 Drainge (sq mi): 7343.0 Depth: 0

Location: Lat: 44.95726 Long: -68.64597

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	2.29	5	0.08	1.6
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.76	1	0.02	1.0
43-026	COMMON SHINER	I		FD	NGL	E	25	25.0	19.08	39	0.65	1.5
43-100	FALLFISH	G		FS	LN	E	22	22.0	16.79	26	0.44	1.1
50-001	AMERICAN EEL	C		C		M	4	4.0	3.05	710	11.89	177.5
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.76	5	0.08	5.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	41	41.0	31.30	3790	63.47	92.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	1.53	80	1.34	40.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	32	32.0	24.43	1315	22.02	41.0

No Species: 9 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 131 **Total Rel. Wt. :** 5971

IBI: 36.4

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 8.80 Date: 08/29/2009

Time Fished: 2214 Distance: 1.000 Drainge (sq mi): 2.4 Depth: 130

Location: Adj, St. Rt. 2 @ Thorofare Island Lat: 45.05231 Long: -68.65762

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	15	15.0	6.05	935	10.45	62.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	2.02	852	9.52	170.4
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.81	1	0.01	0.5
43-026	COMMON SHINER	I		FD	NGL	E	106	106.0	42.74	50	0.56	0.4
43-100	FALLFISH	G		FS	LN	E	46	46.0	18.55	270	3.02	5.8
50-001	AMERICAN EEL	C		C		M	3	3.0	1.21	1600	17.88	533.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	5	5.0	2.02	3445	38.50	689.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	1.21	150	1.68	50.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	57	57.0	22.98	1319	14.74	23.1
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	2.42	325	3.63	54.1

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 248 **Total Rel. Wt. :** 8947

IBI: 47.5

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 11.70 Date: 07/30/2004

Time Fished: 3216 Distance: 1.000 Drainge (sq mi): 7299.0 Depth: 0

Location: Lat: 45.06712 Long: -68.65769

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	5	5.0	0.40	26	0.20	5.2
37-002	CHAIN PICKEREL	P		MG	L	M	7	7.0	0.56	1525	11.90	217.8
40-016	WHITE SUCKER	I	T	FD	NGL	M	24	24.0	1.91	20	0.16	0.8
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.16	5	0.04	2.5
43-026	COMMON SHINER	I		FD	NGL	E	932	932.0	74.26	1992	15.54	2.1
43-100	FALLFISH	G		FS	LN	E	232	232.0	18.49	1308	10.21	5.6
47-005	BROWN BULLHEAD	G	T	MG	P	E	6	6.0	0.48	1600	12.49	266.6
50-001	AMERICAN EEL	C		C		M	8	8.0	0.64	1525	11.90	190.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	14	14.0	1.12	4042	31.54	288.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	0.48	160	1.25	26.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	18	18.0	1.43	600	4.68	33.3
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.08	12	0.09	12.0

No Species: 12 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 1255 **Total Rel. Wt. :** 12815

IBI: 49.2

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 17.40 Date: 07/29/2004

Time Fished: 3843 Distance: 1.000 Drainge (sq mi): 7161.0 Depth: 0

Location: Lat: 45.13269 Long: -68.62806

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	1.01	5	0.03	5.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	1.01	140	0.81	140.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	8	8.0	8.08	5180	29.96	647.5
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	1.01	2	0.01	2.0
43-026	COMMON SHINER	I		FD	NGL	E	17	17.0	17.17	13	0.08	0.7
43-100	FALLFISH	G		FS	LN	E	26	26.0	26.26	292	1.69	11.2
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	1.01	10	0.06	10.0
50-001	AMERICAN EEL	C		C		M	4	4.0	4.04	1300	7.52	325.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	39	39.0	39.39	10345	59.83	265.2
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	1.01	4	0.02	4.0

No Species: 10 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 99 **Total Rel. Wt. :** 17291

IBI: 44.0

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 26.00 Date: 07/29/2004

Time Fished: 5133 Distance: 1.000 Drainge (sq mi): 5215.0 Depth: 0

Location: Lat: 45.24221 Long: -68.65280

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.52	450	3.86	450.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	8	8.0	4.17	1180	10.13	147.5
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.0	0.52	1275	10.95	1275.0
43-026	COMMON SHINER	I		FD	NGL	E	25	25.0	13.02	24	0.21	0.9
43-100	FALLFISH	G		FS	LN	E	121	121.0	63.02	400	3.44	3.3
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	1.04	356	3.06	178.0
50-001	AMERICAN EEL	C		C		M	4	4.0	2.08	500	4.29	125.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.52	72	0.62	72.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	23	23.0	11.98	7345	63.08	319.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	1.56	32	0.27	10.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	3	3.0	1.56	10	0.09	3.3

No Species: 11 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 192 **Total Rel. Wt. :** 11644

IBI: 59.3

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 26.00 Date: 09/07/2004

Time Fished: **** Distance: 1.000 Drainge (sq mi): 5215.0 Depth: 0

Location: Lat: 45.24221 Long: -68.65280

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.20	550	2.47	550.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	1.19	3150	14.16	525.0
43-003	GOLDEN SHINER	G	T	MG	L	E	4	4.0	0.79	20	0.09	5.0
43-026	COMMON SHINER	I		FD	NGL	E	219	219.0	43.28	335	1.51	1.5
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.20	140	0.63	140.0
50-001	AMERICAN EEL	C		C		M	11	11.0	2.17	3850	17.30	350.0
60-001	BURBOT	C		FD	NGL	S	3	3.0	0.59	120	0.54	40.0
74-003	WHITE PERCH	C		MG	L	M	116	116.0	22.92	500	2.25	4.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	128	128.0	25.30	13310	59.82	103.9
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	8	8.0	1.58	160	0.72	20.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	6	6.0	1.19	110	0.49	18.3
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	0.59	5	0.02	1.6

No Species: 12 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 506 **Total Rel. Wt. :** 22250

IBI: 52.7

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 29.00 Date: 07/28/2004

Time Fished: 4033 Distance: 1.000 Drainge (sq mi): 5209.0 Depth: 0

Location: Lat: 45.28307 Long: -68.63939

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.28	270	2.85	270.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	1.66	113	1.19	18.8
43-003	GOLDEN SHINER	G	T	MG	L	E	8	8.0	2.22	33	0.35	4.1
43-026	COMMON SHINER	I		FD	NGL	E	201	201.0	55.68	1330	14.06	6.6
43-082	Northern Redbelly Dace	G		MG	NGL	M	1	1.0	0.28	1	0.01	1.0
43-100	FALLFISH	G		FS	LN	E	43	43.0	11.91	120	1.27	2.7
50-001	AMERICAN EEL	C		C		M	6	6.0	1.66	1700	17.97	283.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	36	36.0	9.97	5269	55.69	146.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.28	1	0.01	1.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	36	36.0	9.97	275	2.91	7.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	22	22.0	6.09	350	3.70	15.9

No Species: 11 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 361 **Total Rel. Wt. :** 9462

IBI: 37.9

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 29.30 Date: 08/29/2009

Time Fished: 2806 Distance: 1.000 Drainge (sq mi): 5220.0 Depth: 200

Location: Adj. Mohawk Island @ St. Rt. 116 Lat: 45.31503 Long: -68.63111

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	4	4.0	0.91	230	6.86	57.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	0.46	47	1.40	23.5
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	0.68	1	0.03	0.3
43-100	FALLFISH	G		FS	LN	E	383	383.0	87.24	200	5.96	0.5
50-001	AMERICAN EEL	C		C		M	2	2.0	0.46	750	22.35	375.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	7	7.0	1.59	1362	40.60	194.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	0.68	10	0.30	3.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.23	35	1.04	35.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	34	34.0	7.74	720	21.46	21.1

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 439 **Total Rel. Wt. :** 3355

IBI: 42.0

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 29.30 Date: 09/26/2009

Time Fished: 3457 Distance: 1.000 Drainge (sq mi): 5220.0 Depth: 220

Location: Adj. Mohawk Island @ St. Rt. 116 Lat: 45.31503 Long: -68.63111

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.25	12	0.14	12.0
37-002	CHAIN PICKEREL	P		MG	L	M	5	5.0	1.25	326	3.70	65.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	0.50	86	0.98	43.0
43-026	COMMON SHINER	I		FD	NGL	E	4	4.0	1.00	12	0.14	3.0
43-100	FALLFISH	G		FS	LN	E	328	328.0	81.80	136	1.54	0.4
50-001	AMERICAN EEL	C		C		M	13	13.0	3.24	900	10.21	69.2
60-001	BURBOT	C		FD	NGL	S	2	2.0	0.50	100	1.13	50.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	17	17.0	4.24	6250	70.93	367.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.25	8	0.09	8.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	0.75	86	0.98	28.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	24	24.0	5.99	876	9.94	36.5
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.25	20	0.23	20.0

No Species: 12 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 401 **Total Rel. Wt. :** 8812

IBI: 45.2

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 34.00 Date: 07/28/2004

Time Fished: 4770 Distance: 1.000 Drainge (sq mi): 5198.0 Depth: 0

Location: Lat: 45.33423 Long: -68.59120

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	27	27.0	5.16	1780	10.51	65.9
43-026	COMMON SHINER	I		FD	NGL	E	36	36.0	6.88	110	0.65	3.0
43-100	FALLFISH	G		FS	LN	E	373	373.0	71.32	330	1.95	0.8
50-001	AMERICAN EEL	C		C		M	11	11.0	2.10	2760	16.29	250.9
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	60	60.0	11.47	11795	69.63	196.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	13	13.0	2.49	160	0.94	12.3
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	0.57	5	0.03	1.6

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 523 **Total Rel. Wt. :** 16940

IBI: 39.6

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 38.80 Date: 07/27/2004

Time Fished: 4055 Distance: 1.000 Drainge (sq mi): 5104.0 Depth: 0

Location: Lat: 45.37491 Long: -68.51649

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.27	715	4.16	357.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	69	69.0	9.21	320	1.86	4.6
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	0.40	20	0.12	6.6
43-026	COMMON SHINER	I		FD	NGL	E	390	390.0	52.07	995	5.79	2.5
43-083	Pearl Dace	G		FD	NGL	S	1	1.0	0.13	2	0.01	2.0
43-100	FALLFISH	G		FS	LN	E	96	96.0	12.82	385	2.24	4.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.13	240	1.40	240.0
50-001	AMERICAN EEL	C		C		M	27	27.0	3.60	4200	24.46	155.5
60-001	BURBOT	C		FD	NGL	S	4	4.0	0.53	395	2.30	98.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	63	63.0	8.41	6212	36.18	98.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	15	15.0	2.00	615	3.58	41.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	76	76.0	10.15	3000	17.47	39.4
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	0.27	72	0.42	36.0

No Species: 13 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 749 **Total Rel. Wt. :** 17171

IBI: 58.2

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 39.80 Date: 07/27/2004

Time Fished: 4064 Distance: 1.000 Drainge (sq mi): 5000.0 Depth: 0

Location: Lat: 45.38581 Long: -68.50306

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	3.98	4202	15.43	466.8
43-026	COMMON SHINER	I		FD	NGL	E	24	24.0	10.62	60	0.22	2.5
43-100	FALLFISH	G		FS	LN	E	65	65.0	28.76	388	1.42	5.9
50-001	AMERICAN EEL	C		C		M	18	18.0	7.96	10800	39.65	600.0
60-001	BURBOT	C		FD	NGL	S	4	4.0	1.77	375	1.38	93.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	79	79.0	34.96	10432	38.30	132.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.44	1	0.00	1.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.44	5	0.02	5.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	24	24.0	10.62	970	3.56	40.4
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.44	2	0.01	2.0

No Species: 10 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 226 **Total Rel. Wt. :** 27235

IBI: 46.2

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 39.80 Date: 09/22/2005

Time Fished: 4905 Distance: 1.000 Drainge (sq mi): 5000.0 Depth: 0

Location: Lat: 45.38581 Long: -68.50306

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.57	114	0.87	57.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	1.43	88	0.67	17.6
43-026	COMMON SHINER	I		FD	NGL	E	14	14.0	4.01	62	0.47	4.4
43-100	FALLFISH	G		FS	LN	E	88	88.0	25.21	280	2.14	3.1
50-001	AMERICAN EEL	C		C		M	12	12.0	3.44	2900	22.15	241.6
60-001	BURBOT	C		FD	NGL	S	2	2.0	0.57	204	1.56	102.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	173	173.0	49.57	8034	61.36	46.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	4	4.0	1.15	51	0.39	12.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	0.86	64	0.49	21.3
77-030	REDBREAST SUNFISH	I		MG	PN	E	46	46.0	13.18	1297	9.91	28.2

No Species: 10 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 349 **Total Rel. Wt. :** 13094

IBI: 38.7

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 45.80 Date: 07/27/2004

Time Fished: 3507 Distance: 1.000 Drainge (sq mi): 4957.0 Depth: 0

Location: Lat: 45.44510 Long: -68.43176

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	30	30.0	8.09	5140	37.46	171.3
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.27	5	0.04	5.0
43-100	FALLFISH	G		FS	LN	E	196	196.0	52.83	1174	8.56	5.9
50-001	AMERICAN EEL	C		C		M	5	5.0	1.35	1350	9.84	270.0
60-001	BURBOT	C		FD	NGL	S	2	2.0	0.54	245	1.79	122.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	135	135.0	36.39	5800	42.27	42.9
77-030	REDBREAST SUNFISH	I		MG	PN	E	2	2.0	0.54	7	0.05	3.5

No Species: 7 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 371 **Total Rel. Wt. :** 13721

IBI: 42.3

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 52.00 Date: 07/26/2004

Time Fished: 4710 Distance: 1.000 Drainge (sq mi): 4753.0 Depth: 0

Location: Lat: 45.51124 Long: -68.35978

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	4.37	10	0.11	1.1
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	1.46	6	0.06	2.0
43-100	FALLFISH	G		FS	LN	E	66	66.0	32.04	34	0.36	0.5
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.49	3	0.03	3.0
50-001	AMERICAN EEL	C		C		M	10	10.0	4.85	2200	23.41	220.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	112	112.0	54.37	7002	74.50	62.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.49	40	0.43	40.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	2	2.0	0.97	68	0.72	34.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	0.97	36	0.38	18.0

No Species: 9 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 206 **Total Rel. Wt. :** 9399

IBI: 26.8

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 52.00 Date: 09/08/2004

Time Fished: 4094 Distance: 1.000 Drainge (sq mi): 4753.0 Depth: 0

Location: Lat: 45.51124 Long: -68.35978

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	41	41.0	8.87	522	4.95	12.7
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.43	4	0.04	2.0
43-026	COMMON SHINER	I		FD	NGL	E	100	100.0	21.65	26	0.25	0.2
43-100	FALLFISH	G		FS	LN	E	52	52.0	11.26	116	1.10	2.2
50-001	AMERICAN EEL	C		C		M	4	4.0	0.87	1508	14.29	377.0
60-001	BURBOT	C		FD	NGL	S	2	2.0	0.43	275	2.61	137.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	246	246.0	53.25	7588	71.90	30.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	0.65	29	0.27	9.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	8	8.0	1.73	477	4.52	59.6
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	0.87	8	0.08	2.0

No Species: 10 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 462 **Total Rel. Wt. :** 10553

IBI: 43.9

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 56.30 Date: 07/26/2004

Time Fished: 3691 Distance: 1.000 Drainge (sq mi): 3402.0 Depth: 0

Location: Lat: 45.56692 Long: -68.40406

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	6	6.0	3.09	525	1.38	87.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	70	70.0	36.08	21224	55.93	303.2
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.0	0.52	930	2.45	930.0
43-026	COMMON SHINER	I		FD	NGL	E	20	20.0	10.31	60	0.16	3.0
43-100	FALLFISH	G		FS	LN	E	35	35.0	18.04	1635	4.31	46.7
50-001	AMERICAN EEL	C		C		M	5	5.0	2.58	725	1.91	145.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.52	100	0.26	100.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	52	52.0	26.80	12730	33.55	244.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.52	10	0.03	10.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.52	4	0.01	4.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.03	4	0.01	2.0

No Species: 11 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 194 **Total Rel. Wt. :** 37947

IBI: 50.8

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 59.70 Date: 07/26/2004

Time Fished: 3905 Distance: 1.000 Drainge (sq mi): 3317.0 Depth: 0

Location: Lat: 45.59380 Long: -68.45881

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.60	560	4.98	280.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	2.68	10	0.09	1.1
43-003	GOLDEN SHINER	G	T	MG	L	E	77	77.0	22.92	180	1.60	2.3
43-026	COMMON SHINER	I		FD	NGL	E	95	95.0	28.27	270	2.40	2.8
43-100	FALLFISH	G		FS	LN	E	3	3.0	0.89	6	0.05	2.0
50-001	AMERICAN EEL	C		C		M	3	3.0	0.89	1600	14.24	533.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	42	42.0	12.50	7260	64.60	172.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	32	32.0	9.52	450	4.00	14.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	50	50.0	14.88	200	1.78	4.0
80-003	YELLOW PERCH	C		MG	V	M	23	23.0	6.85	702	6.25	30.5

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 336 **Total Rel. Wt. :** 11238

IBI: 32.8

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 64.50 Date: 07/24/2004

Time Fished: 4065 Distance: 1.000 Drainge (sq mi): 2132.0 Depth: 0

Location: Lat: 45.60683 Long: -68.54162

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	1	1.0	0.40	82	0.28	82.0
37-002	CHAIN PICKEREL	P		MG	L	M	5	5.0	1.98	1500	5.12	300.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	43	43.0	17.00	17038	58.18	396.2
43-026	COMMON SHINER	I		FD	NGL	E	4	4.0	1.58	7	0.02	1.7
43-100	FALLFISH	G		FS	LN	E	94	94.0	37.15	398	1.36	4.2
50-001	AMERICAN EEL	C		C		M	12	12.0	4.74	2700	9.22	225.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.40	25	0.09	25.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	65	65.0	25.69	6551	22.37	100.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.40	10	0.03	10.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	25	25.0	9.88	950	3.24	38.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	0.79	26	0.09	13.0

No Species: 11 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 253 **Total Rel. Wt. :** 29287

IBI: 53.5

Appendix C-3
Fish Species List

River: 70-001 Penobscot River RM: 66.10 Date: 07/21/2004

Time Fished: 3859 Distance: 1.000 Drainge (sq mi): 2128.0 Depth: 0

Location: Lat: 45.61729 Long: -68.56600

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	4	4.0	1.89	10	0.10	2.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	15	15.0	7.08	380	3.75	25.3
43-003	GOLDEN SHINER	G	T	MG	L	E	29	29.0	13.68	150	1.48	5.1
43-100	FALLFISH	G		FS	LN	E	6	6.0	2.83	40	0.39	6.6
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.47	110	1.09	110.0
50-001	AMERICAN EEL	C		C		M	33	33.0	15.57	3900	38.47	118.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	76	76.0	35.85	4405	43.45	57.9
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	8	8.0	3.77	110	1.09	13.7
77-030	REDBREAST SUNFISH	I		MG	PN	E	32	32.0	15.09	925	9.12	28.9
80-003	YELLOW PERCH	C		MG	V	M	8	8.0	3.77	108	1.07	13.5

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 212 **Total Rel. Wt. :** 10138

IBI: 31.1

Appendix C-3
Fish Species List

River: 70-100 Stillwater Branch RM: 0.40 Date: 09/09/2004

Time Fished: 4029 Distance: 1.000 Drainge (sq mi): 283.0 Depth: 0

Location: Lat: 44.88703 Long: -68.67353

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	5	5.0	2.16	1400	11.58	280.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	0.86	6	0.05	3.0
43-003	GOLDEN SHINER	G	T	MG	L	E	67	67.0	28.88	53	0.44	0.7
43-100	FALLFISH	G		FS	LN	E	2	2.0	0.86	8	0.07	4.0
50-001	AMERICAN EEL	C		C		M	11	11.0	4.74	3500	28.96	318.1
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.43	1	0.01	1.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	28	28.0	12.07	4082	33.77	145.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	1.29	86	0.71	28.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	113	113.0	48.71	2950	24.41	26.1

No Species: 9 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 232 **Total Rel. Wt. :** 12086

IBI: 31.8

Appendix C-3
Fish Species List

River: 70-100 Stillwater Branch RM: 5.60 Date: 09/07/2004

Time Fished: 3636 Distance: 1.000 Drainge (sq mi): 280.0 Depth: 0

Location: Lat: 44.94721 Long: -68.69981

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.37	80	1.56	80.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	3.36	30	0.59	3.3
43-003	GOLDEN SHINER	G	T	MG	L	E	39	39.0	14.55	35	0.68	0.9
43-026	COMMON SHINER	I		FD	NGL	E	67	67.0	25.00	100	1.95	1.4
43-100	FALLFISH	G		FS	LN	E	54	54.0	20.15	90	1.76	1.6
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.37	100	1.95	100.0
50-001	AMERICAN EEL	C		C		M	4	4.0	1.49	502	9.79	125.5
60-001	BURBOT	C		FD	NGL	S	3	3.0	1.12	300	5.85	100.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	42	42.0	15.67	1995	38.91	47.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	2.24	1150	22.43	191.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	40	40.0	14.93	730	14.24	18.2
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	0.75	15	0.29	7.5

No Species: 12 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 268 **Total Rel. Wt. :** 5127

IBI: 49.9

Appendix C-3
Fish Species List

River: 70-100 Stillwater Branch RM: 8.70 Date: 07/19/2004

Time Fished: 3257 Distance: 1.000 Drainge (sq mi): 277.0 Depth: 0

Location: Lat: 44.98740 Long: -68.67792

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	18	18.0	4.96	454	3.14	25.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	10	10.0	2.75	2376	16.42	237.6
43-003	GOLDEN SHINER	G	T	MG	L	E	21	21.0	5.79	35	0.24	1.6
43-026	COMMON SHINER	I		FD	NGL	E	119	119.0	32.78	580	4.01	4.8
43-100	FALLFISH	G		FS	LN	E	48	48.0	13.22	55	0.38	1.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	16	16.0	4.41	2625	18.14	164.0
50-001	AMERICAN EEL	C		C		M	2	2.0	0.55	1475	10.19	737.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	12	12.0	3.31	2052	14.18	171.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	29	29.0	7.99	655	4.53	22.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	56	56.0	15.43	2710	18.73	48.3
80-003	YELLOW PERCH	C		MG	V	M	32	32.0	8.82	1455	10.05	45.4

No Species: 11 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 363 **Total Rel. Wt. :** 14472

IBI: 41.0

Appendix C-3
Fish Species List

River: 70-110 Pushaw Stream RM: 3.50 Date: 07/30/2004

Time Fished: 3625 Distance: 1.000 Drainge (sq mi): 222.0 Depth: 0

Location: Lat: 44.95517 Long: -68.72671

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	14	14.0	1.02	1405	5.69	100.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	16	16.0	1.17	5628	22.81	351.7
43-003	GOLDEN SHINER	G	T	MG	L	E	1094	1094.0	79.97	1920	7.78	1.7
43-026	COMMON SHINER	I		FD	NGL	E	13	13.0	0.95	16	0.06	1.2
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.07	280	1.13	280.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	52	52.0	3.80	5725	23.20	110.1
50-001	AMERICAN EEL	C		C		M	8	8.0	0.58	5000	20.27	625.0
60-001	BURBOT	C		FD	NGL	S	2	2.0	0.15	350	1.42	175.0
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.07	150	0.61	150.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	6	6.0	0.44	1473	5.97	245.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	96	96.0	7.02	910	3.69	9.4
77-030	REDBREAST SUNFISH	I		MG	PN	E	11	11.0	0.80	755	3.06	68.6
80-003	YELLOW PERCH	C		MG	V	M	54	54.0	3.95	1060	4.30	19.6

No Species: 13 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 1368 **Total Rel. Wt. :** 24672

IBI: 49.6

Appendix C-3
Fish Species List

River: 70-150 Passadumkeag Stream RM: 7.00 Date: 07/28/2004

Time Fished: 4071 Distance: 1.000 Drainge (sq mi): 348.0 Depth: 0

Location: UST Goulds Ridge Road, Passadumkeag, ME Lat: 45.16907 Long: -68.55088

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	4	4.0	1.53	420	1.95	105.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	111	111.0	42.53	15168	70.25	136.6
43-003	GOLDEN SHINER	G	T	MG	L	E	9	9.0	3.45	25	0.12	2.7
43-026	COMMON SHINER	I		FD	NGL	E	45	45.0	17.24	152	0.70	3.3
43-100	FALLFISH	G		FS	LN	E	36	36.0	13.79	662	3.07	18.3
47-005	BROWN BULLHEAD	G	T	MG	P	E	26	26.0	9.96	2600	12.04	100.0
50-001	AMERICAN EEL	C		C		M	5	5.0	1.92	1200	5.56	240.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.38	50	0.23	50.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	4	4.0	1.53	375	1.74	93.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.38	130	0.60	130.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	18	18.0	6.90	630	2.92	35.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.38	180	0.83	180.0

No Species: 12 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 261 **Total Rel. Wt. :** 21592

IBI: 57.2

Appendix C-3
Fish Species List

River: 70-150 Passadumkeag Stream RM: 7.00 Date: 06/15/2009

Time Fished: 4010 Distance: 1.000 Drainge (sq mi): 348.0 Depth: 100

Location: UST Goulds Ridge Road, Passadumkeag, ME Lat: 45.16907 Long: -68.55088

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	0.50	4	0.03	4.0
37-002	CHAIN PICKEREL	P		MG	L	M	7	7.0	3.47	460	3.17	65.7
40-016	WHITE SUCKER	I	T	FD	NGL	M	15	15.0	7.43	6630	45.66	442.0
43-003	GOLDEN SHINER	G	T	MG	L	E	16	16.0	7.92	102	0.70	6.3
43-026	COMMON SHINER	I		FD	NGL	E	92	92.0	45.54	154	1.06	1.6
43-100	FALLFISH	G		FS	LN	E	13	13.0	6.44	172	1.18	13.2
47-005	BROWN BULLHEAD	G	T	MG	P	E	25	25.0	12.38	3804	26.20	152.1
50-001	AMERICAN EEL	C		C		M	3	3.0	1.49	810	5.58	270.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	6	6.0	2.97	1459	10.05	243.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.99	100	0.69	50.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	4	4.0	1.98	316	2.18	79.0
80-003	YELLOW PERCH	C		MG	V	M	18	18.0	8.91	510	3.51	28.3

No Species: 12 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 202 **Total Rel. Wt. :** 14521

IBI: 65.5

Appendix C-3
Fish Species List

River: 70-150 Passadumkeag Stream RM: 7.00 Date: 09/25/2009

Time Fished: 3346 Distance: 1.000 Drainge (sq mi): 348.0 Depth: 100

Location: UST Goulds Ridge Road, Passadumkeag, ME Lat: 45.16907 Long: -68.55088

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.74	10	0.09	10.0
37-002	CHAIN PICKEREL	P		MG	L	M	18	18.0	13.24	260	2.41	14.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	2.94	3000	27.84	750.0
43-003	GOLDEN SHINER	G	T	MG	L	E	17	17.0	12.50	228	2.12	13.4
43-026	COMMON SHINER	I		FD	NGL	E	21	21.0	15.44	42	0.39	2.0
43-100	FALLFISH	G		FS	LN	E	23	23.0	16.91	228	2.12	9.9
47-005	BROWN BULLHEAD	G	T	MG	P	E	12	12.0	8.82	1584	14.70	132.0
50-001	AMERICAN EEL	C		C		M	2	2.0	1.47	780	7.24	390.0
60-001	BURBOT	C		FD	NGL	S	5	5.0	3.68	236	2.19	47.2
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	6	6.0	4.41	2648	24.57	441.3
77-030	REDBREAST SUNFISH	I		MG	PN	E	13	13.0	9.56	880	8.17	67.6
80-003	YELLOW PERCH	C		MG	V	M	14	14.0	10.29	880	8.17	62.8

No Species: 12 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 136 **Total Rel. Wt. :** 10776

IBI: 54.0

Appendix C-3
Fish Species List

River: 70-200 Piscataquis River RM: 14.90 Date: 08/16/2007

Time Fished: 5697 Distance: 1.000 Drainge (sq mi): 1183.0 Depth: 0

Location: Lower Ferry Rd. Access Lat: 45.26240 Long: -68.84455

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	2	2.0	0.75	12	0.07	6.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	61	61.0	23.02	10222	62.38	167.5
43-026	COMMON SHINER	I		FD	NGL	E	84	84.0	31.70	69	0.42	0.8
43-100	FALLFISH	G		FS	LN	E	14	14.0	5.28	99	0.60	7.0
50-001	AMERICAN EEL	C		C		M	15	15.0	5.66	1800	10.98	120.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.38	175	1.07	175.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	78	78.0	29.43	3637	22.19	46.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.38	20	0.12	20.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	9	9.0	3.40	353	2.15	39.2

No Species: 9 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 265 **Total Rel. Wt. :** 16387

IBI: 51.4

Appendix C-3
Fish Species List

River: 70-200 Piscataquis River RM: 24.50 Date: 07/19/2004

Time Fished: 3574 Distance: 1.000 Drainge (sq mi): 797.0 Depth: 0

Location: Lat: 45.23487 Long: -68.95293

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	0.10	2500	14.52	2500.0
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.20	27	0.16	13.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	203	203.0	20.30	9681	56.24	47.6
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	0.30	15	0.09	5.0
43-013	CREEK CHUB	I	T	MG	L	E	3	3.0	0.30	6	0.03	2.0
43-026	COMMON SHINER	I		FD	NGL	E	517	517.0	51.70	1100	6.39	2.1
43-037	BLACKNOSE SHINER	I	R	MG	L	E	17	17.0	1.70	15	0.09	0.8
43-082	Northern Redbelly Dace	G		MG	NGL	M	1	1.0	0.10	1	0.01	1.0
43-100	FALLFISH	G		FS	LN	E	161	161.0	16.10	607	3.53	3.7
50-001	AMERICAN EEL	C		C		M	6	6.0	0.60	600	3.49	100.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	5	5.0	0.50	11	0.06	2.2
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.10	21	0.12	21.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	25	25.0	2.50	1622	9.42	64.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	0.30	12	0.07	4.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	51	51.0	5.10	976	5.67	19.1
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.10	20	0.12	20.0

No Species: 16 **Nat. Species:** 11 **Hybrids:** 0 **Total Counted:** 1000 **Total Rel. Wt. :** 17214

IBI: 67.6

Appendix C-3
Fish Species List

River: 70-250 Pleasant River RM: 4.40 Date: 09/18/2008

Time Fished: 3534 Distance: 1.000 Drainge (sq mi): 332.0 Depth: 200

Location: DST boat launch at Kieth Bridges farm, Milo, ME Lat: 45.25714 Long: -68.95000

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	69	69.0	34.85	400	12.86	5.8
40-016	WHITE SUCKER	I	T	FD	NGL	M	24	24.0	12.12	1010	32.48	42.0
43-013	CREEK CHUB	I	T	MG	L	E	4	4.0	2.02	10	0.32	2.5
43-026	COMMON SHINER	I		FD	NGL	E	40	40.0	20.20	120	3.86	3.0
43-100	FALLFISH	G		FS	LN	E	27	27.0	13.64	688	22.12	25.4
60-001	BURBOT	C		FD	NGL	S	3	3.0	1.52	156	5.02	52.0
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.51	4	0.13	4.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	16	16.0	8.08	380	12.22	23.7
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	1.01	10	0.32	5.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	1.01	20	0.64	10.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	7	7.0	3.54	300	9.65	42.8
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	1.52	12	0.39	4.0

No Species: 12 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 198 **Total Rel. Wt. :** 3110

IBI: 54.7

Appendix C-3
Fish Species List

River: 70-300 Mattawamkeag River RM: 1.00 Date: 06/15/2009

Time Fished: 3580 Distance: 1.000 Drainge (sq mi): 1847.0 Depth: 150

Location: UST RR bridge, Mattawamkeag, ME Lat: 45.51821 Long: -68.34869

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	2.08	80	0.47	40.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	8	8.0	8.33	5070	29.95	633.7
43-100	FALLFISH	G		FS	LN	E	37	37.0	38.54	264	1.56	7.1
50-001	AMERICAN EEL	C		C		M	2	2.0	2.08	210	1.24	105.0
60-001	BURBOT	C		FD	NGL	S	3	3.0	3.13	110	0.65	36.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	43	43.0	44.79	11187	66.07	260.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	1.04	10	0.06	10.0

No Species: 7 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 96 **Total Rel. Wt. :** 16931

IBI: 42.1

Appendix C-3
Fish Species List

River: 70-300 Mattawamkeag River RM: 1.00 Date: 09/25/2009

Time Fished: 3663 Distance: 1.000 Drainge (sq mi): 1847.0 Depth: 50

Location: UST RR bridge, Mattawamkeag, ME Lat: 45.51821 Long: -68.34869

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	2.53	765	4.35	382.5
43-100	FALLFISH	G		FS	LN	E	9	9.0	11.39	12	0.07	1.3
50-001	AMERICAN EEL	C		C		M	3	3.0	3.80	2760	15.70	920.0
60-001	BURBOT	C		FD	NGL	S	7	7.0	8.86	480	2.73	68.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	56	56.0	70.89	13460	76.56	240.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	1.27	40	0.23	40.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	1.27	65	0.37	65.0

No Species: 7 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 79 **Total Rel. Wt. :** 17582

IBI: 31.8

Appendix C-3
Fish Species List

River: 70-300 Mattawamkeag River RM: 11.80 Date: 08/11/2007

Time Fished: 4156 Distance: 1.000 Drainge (sq mi): 1143.0 Depth: 0

Location: Kingman Lat: 45.54493 Long: -68.20379

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	17	17.0	7.52	10352	51.53	608.9
43-026	COMMON SHINER	I		FD	NGL	E	23	23.0	10.18	26	0.13	1.1
43-100	FALLFISH	G		FS	LN	E	62	62.0	27.43	106	0.53	1.7
50-001	AMERICAN EEL	C		C		M	17	17.0	7.52	4750	23.64	279.4
60-001	BURBOT	C		FD	NGL	S	3	3.0	1.33	426	2.12	142.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	86	86.0	38.05	3229	16.07	37.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	17	17.0	7.52	1192	5.93	70.1
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.44	10	0.05	10.0

No Species: 8 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 226 **Total Rel. Wt. :** 20091

IBI: 49.8

Appendix C-3
Fish Species List

River: 70-300 Mattawamkeag River RM: 36.42 Date: 08/10/2007

Time Fished: 3663 Distance: 1.000 Drainge (sq mi): 669.0 Depth: 0

Location: Access at S. Bancroft Lat: 45.73344 Long: -67.97233

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	11	11.0	3.68	2362	14.67	214.7
40-016	WHITE SUCKER	I	T	FD	NGL	M	13	13.0	4.35	2235	13.88	171.9
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.67	10	0.06	5.0
43-026	COMMON SHINER	I		FD	NGL	E	103	103.0	34.45	76	0.47	0.7
43-082	Northern Redbelly Dace	G		MG	NGL	M	1	1.0	0.33	1	0.01	1.0
43-100	FALLFISH	G		FS	LN	E	78	78.0	26.09	110	0.68	1.4
50-001	AMERICAN EEL	C		C		M	9	9.0	3.01	6350	39.44	705.5
60-001	BURBOT	C		FD	NGL	S	3	3.0	1.00	468	2.91	156.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	68	68.0	22.74	4022	24.98	59.1
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	1.34	130	0.81	32.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	4	4.0	1.34	168	1.04	42.0
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	1.00	170	1.06	56.6

No Species: 12 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 299 **Total Rel. Wt. :** 16102

IBI: 57.1

Appendix C-3
Fish Species List

River: 70-300 Mattawamkeag River RM: 48.80 Date: 08/07/2007

Time Fished: 4127 Distance: 1.000 Drainge (sq mi): 542.0 Depth: 0

Location: Ust. Rt. 2A Dst. W & E Br. Confluence Lat: 45.82834 Long: -67.98409

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	12	12.0	9.09	1860	11.34	155.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	3.79	2501	15.25	500.2
43-026	COMMON SHINER	I		FD	NGL	E	30	30.0	22.73	10	0.06	0.3
43-100	FALLFISH	G		FS	LN	E	12	12.0	9.09	135	0.82	11.2
50-001	AMERICAN EEL	C		C		M	20	20.0	15.15	5700	34.76	285.0
60-001	BURBOT	C		FD	NGL	S	4	4.0	3.03	550	3.35	137.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	39	39.0	29.55	5120	31.23	131.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.76	20	0.12	20.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	5	5.0	3.79	275	1.68	55.0
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	3.03	225	1.37	56.2

No Species: 10 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 132 **Total Rel. Wt. :** 16396

IBI: 49.8

Appendix C-3
Fish Species List

River: 70-350 West Branch Mattawamkeag River RM: 5.75 Date: 08/07/2007

Time Fished: 4596 Distance: 1.000 Drainge (sq mi): 337.0 Depth: 0

Location: Bells Field Access Lat: 45.88664 Long: -68.06746

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	10	10.0	10.31	1715	14.98	171.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	4.12	3360	29.34	840.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	1.03	3	0.03	3.0
43-026	COMMON SHINER	I		FD	NGL	E	11	11.0	11.34	15	0.13	1.3
43-100	FALLFISH	G		FS	LN	E	6	6.0	6.19	12	0.10	2.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	4	4.0	4.12	440	3.84	110.0
50-001	AMERICAN EEL	C		C		M	11	11.0	11.34	3500	30.56	318.1
74-003	WHITE PERCH	C		MG	L	M	1	1.0	1.03	35	0.31	35.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	15	15.0	15.46	757	6.61	50.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	2.06	30	0.26	15.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	22	22.0	22.68	815	7.12	37.0
80-003	YELLOW PERCH	C		MG	V	M	10	10.0	10.31	770	6.72	77.0

No Species: 12 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 97 **Total Rel. Wt. :** 11452

IBI: 33.7

Appendix C-3
Fish Species List

River: 70-400 Kenduskeag Stream RM: 22.00 Date: 09/18/2008

Time Fished: 5838 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 50

Location: Lat: 44.96032 Long: -68.99696

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	500	500.0	31.73	15404	61.00	30.8
43-003	GOLDEN SHINER	G	T	MG	L	E	4	4.0	0.25	40	0.16	10.0
43-011	WESTERN BLACKNOSE DACE		T				1	1.0	0.06	4	0.02	4.0
43-013	CREEK CHUB	I	T	MG	L	E	35	35.0	2.22	500	1.98	14.2
43-026	COMMON SHINER	I		FD	NGL	E	558	558.0	35.41	1210	4.79	2.1
43-042	FATHEAD MINNOW	G	T	MG	CN	E	1	1.0	0.06	8	0.03	8.0
43-100	FALLFISH	G		FS	LN	E	115	115.0	7.30	2152	8.52	18.7
43-115	BRIDLE SHINER	I		MG	V	M	134	134.0	8.50	170	0.67	1.2
50-001	AMERICAN EEL	C		C		M	35	35.0	2.22	3270	12.95	93.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	46	46.0	2.92	650	2.57	14.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	21	21.0	1.33	300	1.19	14.2
77-030	REDBREAST SUNFISH	I		MG	PN	E	125	125.0	7.93	1543	6.11	12.3
95-004	NINE-SPINE STICKLEBACK	PL		MG	VCN	M	1	1.0	0.06	2	0.01	2.0

No Species: 13 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 1576 **Total Rel. Wt. :** 25253

IBI: 50.3

Appendix C-3
Fish Species List

River: 70-400 Kenduskeag Stream RM: 22.00 Date: 09/23/2009

Time Fished: 4085 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 70

Location: Lat: 44.96032 Long: -68.99696

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.14	10	0.01	10.0
25-003	BROOK TROUT	C		FD	L	S	1	1.0	0.14	60	0.09	60.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	166	166.0	23.58	52200	76.20	314.4
43-003	GOLDEN SHINER	G	T	MG	L	E	15	15.0	2.13	220	0.32	14.6
43-013	CREEK CHUB	I	T	MG	L	E	2	2.0	0.28	80	0.12	40.0
43-026	COMMON SHINER	I		FD	NGL	E	146	146.0	20.74	1220	1.78	8.3
43-037	BLACKNOSE SHINER	I	R	MG	L	E	28	28.0	3.98	608	0.89	21.7
43-082	Northern Redbelly Dace	G		MG	NGL	M	3	3.0	0.43	12	0.02	4.0
43-100	FALLFISH	G		FS	LN	E	78	78.0	11.08	1040	1.52	13.3
50-001	AMERICAN EEL	C		C		M	46	46.0	6.53	4480	6.54	97.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	79	79.0	11.22	5430	7.93	68.7
77-006	LARGEMOUTH BASS	C		MG	PN	E	18	18.0	2.56	350	0.51	19.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	81	81.0	11.51	680	0.99	8.4
77-030	REDBREAST SUNFISH	I		MG	PN	E	39	39.0	5.54	2110	3.08	54.1
95-004	NINE-SPINE STICKLEBACK	PL		MG	VCN	M	1	1.0	0.14	6	0.01	6.0

No Species: 15 **Nat. Species:** 12 **Hybrids:** 0 **Total Counted:** 704 **Total Rel. Wt. :** 68506

IBI: 54.6

Appendix C-3
Fish Species List

River: 70-600 W. Br. Penobscot R. RM: 3.70 Date: 07/22/2004

Time Fished: 3306 Distance: 1.000 Drainge (sq mi): 2065.0 Depth: 0

Location: Lat: 45.63580 Long: -68.67009

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.60	240	1.32	240.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	16	16.0	9.58	8188	44.92	511.7
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.60	2	0.01	2.0
43-026	COMMON SHINER	I		FD	NGL	E	8	8.0	4.79	20	0.11	2.5
43-100	FALLFISH	G		FS	LN	E	57	57.0	34.13	635	3.48	11.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.60	200	1.10	200.0
50-001	AMERICAN EEL	C		C		M	2	2.0	1.20	350	1.92	175.0
74-003	WHITE PERCH	C		MG	L	M	12	12.0	7.19	2326	12.76	193.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	66	66.0	39.52	6237	34.22	94.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	3	3.0	1.80	30	0.16	10.0

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 167 **Total Rel. Wt. :** 18228

IBI: 41.8

Appendix C-3
Fish Species List

River: 70-600 W. Br. Penobscot R. RM: 5.60 Date: 07/20/2004

Time Fished: 5294 Distance: 1.000 Drainge (sq mi): 1921.0 Depth: 0

Location: Lat: 45.61375 Long: -68.68206

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	6	6.0	4.11	504	5.71	84.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	2.05	22	0.25	7.3
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.68	3	0.03	3.0
43-026	COMMON SHINER	I		FD	NGL	E	42	42.0	28.77	120	1.36	2.8
43-100	FALLFISH	G		FS	LN	E	6	6.0	4.11	4	0.05	0.6
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.68	160	1.81	160.0
50-001	AMERICAN EEL	C		C		M	4	4.0	2.74	2230	25.26	557.5
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.68	360	4.08	360.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	29	29.0	19.86	3960	44.86	136.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	40	40.0	27.40	1300	14.73	32.5
80-003	YELLOW PERCH	C		MG	V	M	13	13.0	8.90	164	1.86	12.6

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 146 **Total Rel. Wt. :** 8827

IBI: 31.6

Appendix C-3
Fish Species List

River: 70-600 W. Br. Penobscot R. RM: 11.70 Date: 07/20/2004

Time Fished: 0 Distance: 1.000 Drainge (sq mi): 1902.0 Depth: 0

Location: Lat: 45.63674 Long: -68.77629

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	4	4.0	1.04	524	3.69	131.0
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.52	1005	7.08	502.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	44	44.0	11.43	8953	63.10	203.4
43-003	GOLDEN SHINER	G	T	MG	L	E	8	8.0	2.08	65	0.46	8.1
43-026	COMMON SHINER	I		FD	NGL	E	51	51.0	13.25	605	4.26	11.8
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	3	3.0	0.78	4	0.03	1.3
43-100	FALLFISH	G		FS	LN	E	39	39.0	10.13	165	1.16	4.2
43-110	LAKE CHUB	BI		FD	NGL	S	11	11.0	2.86	75	0.53	6.8
47-005	BROWN BULLHEAD	G	T	MG	P	E	5	5.0	1.30	170	1.20	34.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	8	8.0	2.08	13	0.09	1.6
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.26	120	0.85	120.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	89	89.0	23.12	640	4.51	7.1
77-030	REDBREAST SUNFISH	I		MG	PN	E	60	60.0	15.58	1452	10.23	24.2
80-003	YELLOW PERCH	C		MG	V	M	22	22.0	5.71	137	0.97	6.2
90-003	SLIMY SCULPIN	BI		FS	NGL	S	38	38.0	9.87	260	1.83	6.8

No Species: 15 **Nat. Species:** 10 **Hybrids:** 0 **Total Counted:** 385 **Total Rel. Wt. :** 14188

IBI: 69.2

Appendix C-3
Fish Species List

River: 70-600 W. Br. Penobscot R. RM: 29.70 Date: 07/23/2004

Time Fished: 4848 Distance: 1.000 Drainge (sq mi): 1597.0 Depth: 0

Location: Lat: 45.78175 Long: -68.94620

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	26	26.0	11.45	1110	30.11	42.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	10	10.0	4.41	563	15.27	56.3
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	1.32	10	0.27	3.3
43-026	COMMON SHINER	I		FD	NGL	E	111	111.0	48.90	190	5.15	1.7
43-037	BLACKNOSE SHINER	I	R	MG	L	E	1	1.0	0.44	2	0.05	2.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	1	1.0	0.44	14	0.38	14.0
43-100	FALLFISH	G		FS	LN	E	31	31.0	13.66	388	10.52	12.5
47-005	BROWN BULLHEAD	G	T	MG	P	E	4	4.0	1.76	140	3.80	35.0
50-001	AMERICAN EEL	C		C		M	1	1.0	0.44	550	14.92	550.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	2	2.0	0.88	4	0.11	2.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.44	260	7.05	260.0
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.44	72	1.95	72.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.88	6	0.16	3.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	17	17.0	7.49	156	4.23	9.1
80-003	YELLOW PERCH	C		MG	V	M	9	9.0	3.96	190	5.15	21.1
90-003	SLIMY SCULPIN	BI		FS	NGL	S	7	7.0	3.08	32	0.87	4.5

No Species: 16 **Nat. Species:** 12 **Hybrids:** 0 **Total Counted:** 227 **Total Rel. Wt. :** 3687

IBI: 59.0

Appendix C-3
Fish Species List

River: 70-600 W. Br. Penobscot R. RM: 37.60 Date: 07/21/2004

Time Fished: 3493 Distance: 1.000 Drainge (sq mi): 1532.0 Depth: 0

Location: Lat: 45.84614 Long: -69.01524

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-009	ROUND WHITEFISH	C	I	FD	L	S	2	2.0	2.20	176	3.00	88.0
25-011	LANDLOCKED SALMON	C		FD	LN	S	19	19.0	20.88	3520	59.98	185.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	3.30	540	9.20	180.0
43-026	COMMON SHINER	I		FD	NGL	E	4	4.0	4.40	22	0.37	5.5
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	29	29.0	31.87	50	0.85	1.7
43-110	LAKE CHUB	BI		FD	NGL	S	4	4.0	4.40	31	0.53	7.7
50-001	AMERICAN EEL	C		C		M	2	2.0	2.20	1450	24.71	725.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	28	28.0	30.77	80	1.36	2.8

No Species: 8 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 91 **Total Rel. Wt. :** 5869

IBI: 77.8

Appendix C-3
Fish Species List

River: 70-600 W. Br. Penobscot R. RM: 43.80 Date: 07/21/2004

Time Fished: 2445 Distance: 1.000 Drainge (sq mi): 1430.0 Depth: 0

Location: Lat: 45.87672 Long: -69.12868

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	26	26.0	29.55	2912	20.15	112.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	15	15.0	17.05	10565	73.10	704.3
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	7	7.0	7.95	10	0.07	1.4
43-110	LAKE CHUB	BI		FD	NGL	S	8	8.0	9.09	45	0.31	5.6
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	2.27	75	0.52	37.5
50-001	AMERICAN EEL	C		C		M	2	2.0	2.27	650	4.50	325.0
74-003	WHITE PERCH	C		MG	L	M	1	1.0	1.14	80	0.55	80.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	1.14	15	0.10	15.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	26	26.0	29.55	100	0.69	3.8

No Species: 9 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 88 **Total Rel. Wt. :** 14452

IBI: 71.5

Appendix C-3
Fish Species List

River: 70-600 W. Br. Penobscot R. RM: 47.20 Date: 07/22/2009

Time Fished: 2395 Distance: 1.000 Drainge (sq mi): 1459.0 Depth: 110

Location: Dst. Big Eddy Lat: 45.87015 Long: -69.11121

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	5	5.0	7.81	1103	5.57	220.6
25-010	ATLANTIC SALMON	C		A	LN	S	15	15.0	23.44	3519	17.76	234.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	20	20.0	31.25	12435	62.77	621.7
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	2	2.0	3.13	1220	6.16	610.0
43-013	CREEK CHUB	I	T	MG	L	E	14	14.0	21.88	166	0.84	11.8
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	3	3.0	4.69	14	0.07	4.6
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	1.56	40	0.20	40.0
50-001	AMERICAN EEL	C		C		M	1	1.0	1.56	1200	6.06	1200.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	3.13	105	0.53	52.5
90-003	SLIMY SCULPIN	BI		FS	NGL	S	1	1.0	1.56	9	0.05	9.0

No Species: 10 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 64 **Total Rel. Wt. :** 19811

IBI: 75.4

Appendix C-3
Fish Species List

River: 70-600 W. Br. Penobscot R. RM: 89.30 Date: 07/22/2004

Time Fished: 3186 Distance: 1.000 Drainge (sq mi): 591.0 Depth: 0

Location: Lat: 45.91564 Long: -69.63494

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
30-001	RAINBOW SMELT	I		A	L	M	2	2.0	3.85	2	0.12	1.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	17.31	715	44.47	79.4
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	3.85	6	0.37	3.0
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	1.92	10	0.62	10.0
43-026	COMMON SHINER	I		FD	NGL	E	12	12.0	23.08	35	2.18	2.9
47-005	BROWN BULLHEAD	G	T	MG	P	E	5	5.0	9.62	150	9.33	30.0
60-001	BURBOT	C		FD	NGL	S	2	2.0	3.85	170	10.57	85.0
80-003	YELLOW PERCH	C		MG	V	M	19	19.0	36.54	520	32.34	27.3

No Species: 8 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 52 **Total Rel. Wt. :** 1608

IBI: 54.3

Appendix C-3
Fish Species List

River: 70-650 Millinocket Stream RM: 1.90 Date: 07/20/2004

Time Fished: 3130 Distance: 1.000 Drainge (sq mi): 527.0 Depth: 0

Location: Lat: 45.64578 Long: -68.70139

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.55	335	2.88	335.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	41	41.0	22.65	1555	13.39	37.9
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	1.10	5	0.04	2.5
43-026	COMMON SHINER	I		FD	NGL	E	28	28.0	15.47	75	0.65	2.6
43-100	FALLFISH	G		FS	LN	E	73	73.0	40.33	875	7.53	11.9
50-001	AMERICAN EEL	C		C		M	1	1.0	0.55	1650	14.20	1650.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	33	33.0	18.23	7101	61.13	215.1
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.10	20	0.17	10.0

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 181 **Total Rel. Wt. :** 11616

IBI: 45.7

Appendix C-3
Fish Species List

River: 70-650 Millinocket Stream RM: 3.30 Date: 07/24/2004

Time Fished: 4460 Distance: 1.000 Drainge (sq mi): 515.0 Depth: 0

Location: Lat: 45.66283 Long: -68.70704

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	5	5.0	1.61	462	4.81	92.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	65	65.0	20.97	751	7.81	11.5
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	0.97	10	0.10	3.3
43-026	COMMON SHINER	I		FD	NGL	E	132	132.0	42.58	196	2.04	1.4
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	1	1.0	0.32	3	0.03	3.0
43-100	FALLFISH	G		FS	LN	E	46	46.0	14.84	296	3.08	6.4
50-001	AMERICAN EEL	C		C		M	5	5.0	1.61	1650	17.16	330.0
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.32	338	3.52	338.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	41	41.0	13.23	5352	55.67	130.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	11	11.0	3.55	555	5.77	50.4

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 310 **Total Rel. Wt. :** 9613

IBI: 47.3

Appendix C-3
Fish Species List

River: 70-660 N. Br. Penobscot R. RM: 11.80 Date: 07/22/2004

Time Fished: 4042 Distance: 1.000 Drainge (sq mi): 177.0 Depth: 0

Location: Lat: 46.00123 Long: -70.07993

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	3	3.0	0.73	245	2.51	81.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	48	48.0	11.65	5496	56.30	114.5
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	16	16.0	3.88	490	5.02	30.6
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.24	4	0.04	4.0
43-013	CREEK CHUB	I	T	MG	L	E	32	32.0	7.77	162	1.66	5.0
43-026	COMMON SHINER	I		FD	NGL	E	27	27.0	6.55	98	1.00	3.6
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	135	135.0	32.77	255	2.61	1.8
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.24	5	0.05	5.0
43-110	LAKE CHUB	BI		FD	NGL	S	46	46.0	11.17	472	4.84	10.2
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.24	3	0.03	3.0
60-001	BURBOT	C		FD	NGL	S	70	70.0	16.99	2446	25.06	34.9
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	0.49	4	0.04	2.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	30	30.0	7.28	82	0.84	2.7

No Species: 13 **Nat. Species:** 11 **Hybrids:** 0 **Total Counted:** 412 **Total Rel. Wt. :** 9762

IBI: 89.1

Appendix C-3
Fish Species List

River: 70-700 E. Br. Penobscot R. RM: 1.50 Date: 07/24/2004

Time Fished: 4027 Distance: 1.000 Drainge (sq mi): 1102.0 Depth: 0

Location: Lat: 45.63705 Long: -68.54333

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	1	1.0	0.92	2	0.06	2.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	10	10.0	9.17	4	0.11	0.4
43-026	COMMON SHINER	I		FD	NGL	E	2	2.0	1.83	2	0.06	1.0
43-100	FALLFISH	G		FS	LN	E	61	61.0	55.96	60	1.68	0.9
50-001	AMERICAN EEL	C		C		M	6	6.0	5.50	855	23.94	142.5
60-001	BURBOT	C		FD	NGL	S	3	3.0	2.75	50	1.40	16.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	25	25.0	22.94	2598	72.73	103.9
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.92	1	0.03	1.0

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 109 **Total Rel. Wt. :** 3572

IBI: 48.0

Appendix C-3
Fish Species List

River: 70-700 E. Br. Penobscot R. RM: 1.50 Date: 06/16/2009

Time Fished: 2942 Distance: 1.000 Drainge (sq mi): 1102.0 Depth: 75

Location: Lat: 45.63705 Long: -68.54333

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-010	ATLANTIC SALMON	C		A	LN	S	2	2.0	4.08	100	0.89	50.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	10.20	2630	23.50	526.0
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	3	3.0	6.12	2150	19.21	716.6
43-026	COMMON SHINER	I		FD	NGL	E	2	2.0	4.08	4	0.04	2.0
43-100	FALLFISH	G		FS	LN	E	10	10.0	20.41	12	0.11	1.2
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	2.04	50	0.45	50.0
50-001	AMERICAN EEL	C		C		M	5	5.0	10.20	1246	11.13	249.2
60-001	BURBOT	C		FD	NGL	S	4	4.0	8.16	670	5.99	167.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	17	17.0	34.69	4330	38.69	254.7

No Species: 9 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 49 **Total Rel. Wt. :** 11192

IBI: 55.8

Appendix C-3
Fish Species List

River: 70-700 E. Br. Penobscot R. RM: 1.50 Date: 09/23/2009

Time Fished: 3656 Distance: 1.000 Drainge (sq mi): 1102.0 Depth: 190

Location: Lat: 45.63705 Long: -68.54333

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	1.69	80	0.88	80.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	8.47	602	6.64	120.4
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	2	2.0	3.39	1500	16.54	750.0
43-100	FALLFISH	G		FS	LN	E	11	11.0	18.64	10	0.11	0.9
50-001	AMERICAN EEL	C		C		M	4	4.0	6.78	1990	21.94	497.5
60-001	BURBOT	C		FD	NGL	S	8	8.0	13.56	330	3.64	41.2
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	27	27.0	45.76	4554	50.21	168.6
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	1.69	4	0.04	4.0

No Species: 8 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 59 **Total Rel. Wt. :** 9070

IBI: 48.0

Appendix C-3
Fish Species List

River: 70-700 E. Br. Penobscot R. RM: 6.30 Date: 07/23/2004

Time Fished: 4276 Distance: 1.000 Drainge (sq mi): 1089.0 Depth: 0

Location: Lat: 45.70633 Long: -68.59193

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	19	19.0	21.35	42	1.56	2.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	6.74	758	28.19	126.3
43-026	COMMON SHINER	I		FD	NGL	E	2	2.0	2.25	7	0.26	3.5
43-100	FALLFISH	G		FS	LN	E	33	33.0	37.08	409	15.21	12.3
50-001	AMERICAN EEL	C		C		M	10	10.0	11.24	750	27.89	75.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	19	19.0	21.35	723	26.89	38.0

No Species: 6 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 89 **Total Rel. Wt. :** 2689

IBI: 49.2

Appendix C-3
Fish Species List

River: 70-700 E. Br. Penobscot R. RM: 6.30 Date: 06/16/2009

Time Fished: 2822 Distance: 1.000 Drainge (sq mi): 1089.0 Depth: 75

Location: Lat: 45.70633 Long: -68.59193

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	2.86	30	0.53	30.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	17.14	810	14.20	135.0
43-100	FALLFISH	G		FS	LN	E	10	10.0	28.57	220	3.86	22.0
50-001	AMERICAN EEL	C		C		M	4	4.0	11.43	840	14.72	210.0
60-001	BURBOT	C		FD	NGL	S	3	3.0	8.57	310	5.43	103.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	8	8.0	22.86	3405	59.68	425.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	2.86	70	1.23	70.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	2	2.0	5.71	20	0.35	10.0

No Species: 8 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 35 **Total Rel. Wt. :** 5705

IBI: 52.3

Appendix C-3
Fish Species List

River: 70-700 E. Br. Penobscot R. RM: 6.30 Date: 09/23/2009

Time Fished: 2589 Distance: 1.000 Drainge (sq mi): 1089.0 Depth: 50

Location: Lat: 45.70633 Long: -68.59193

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	2.94	76	1.08	76.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	11.76	2006	28.58	501.5
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.0	2.94	740	10.54	740.0
43-100	FALLFISH	G		FS	LN	E	9	9.0	26.47	20	0.28	2.2
50-001	AMERICAN EEL	C		C		M	2	2.0	5.88	770	10.97	385.0
60-001	BURBOT	C		FD	NGL	S	4	4.0	11.76	370	5.27	92.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	13	13.0	38.24	3036	43.26	233.5

No Species: 7 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 34 **Total Rel. Wt. :** 7018

IBI: 52.8

Appendix C-3
Fish Species List

River: 70-700 E. Br. Penobscot R. RM: 22.60 Date: 09/19/2008

Time Fished: 3415 Distance: 1.000 Drainge (sq mi): 995.2 Depth: 0

Location: DST hunting camp access, W. of Staceyville, ME Lat: 45.87867 Long: -68.62034

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	1	1.0	0.35	300	3.94	300.0
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	0.35	30	0.39	30.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.35	100	1.31	100.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	25	25.0	8.65	2745	36.03	109.8
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.0	0.35	560	7.35	560.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.35	2	0.03	2.0
43-026	COMMON SHINER	I		FD	NGL	E	61	61.0	21.11	152	2.00	2.4
43-100	FALLFISH	G		FS	LN	E	145	145.0	50.17	960	12.60	6.6
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	0.69	170	2.23	85.0
50-001	AMERICAN EEL	C		C		M	1	1.0	0.35	130	1.71	130.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.35	70	0.92	70.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	24	24.0	8.30	2320	30.45	96.6
80-003	YELLOW PERCH	C		MG	V	M	25	25.0	8.65	80	1.05	3.2

No Species: 13 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 289 **Total Rel. Wt. :** 7619

IBI: 58.9

Appendix C-3
Fish Species List

River: 70-700 E. Br. Penobscot R. RM: 23.50 Date: 08/10/2007

Time Fished: 4978 Distance: 1.000 Drainge (sq mi): 984.0 Depth: 0

Location: Hunt Farm Lat: 45.89156 Long: -68.61562

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	2	2.0	0.69	306	1.25	153.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.35	14	0.06	14.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	59	59.0	20.42	13248	54.02	224.5
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	3	3.0	1.04	2730	11.13	910.0
43-026	COMMON SHINER	I		FD	NGL	E	17	17.0	5.88	28	0.11	1.6
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	2	2.0	0.69	2	0.01	1.0
43-100	FALLFISH	G		FS	LN	E	116	116.0	40.14	433	1.77	3.7
50-001	AMERICAN EEL	C		C		M	17	17.0	5.88	3700	15.09	217.6
60-001	BURBOT	C		FD	NGL	S	8	8.0	2.77	180	0.73	22.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	62	62.0	21.45	3804	15.51	61.3
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.35	70	0.29	70.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	1	1.0	0.35	8	0.03	8.0

No Species: 12 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 289 **Total Rel. Wt. :** 24523

IBI: 53.7

Appendix C-3
Fish Species List

River: 70-700 E. Br. Penobscot R. RM: 37.11 Date: 08/08/2007

Time Fished: 4259 Distance: 1.000 Drainge (sq mi): 556.0 Depth: 0

Location: Bowlin Camps Lat: 46.03678 Long: -68.72842

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	40	40.0	25.00	580	4.22	14.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	36	36.0	22.50	7700	55.97	213.8
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	0.63	3	0.02	3.0
43-026	COMMON SHINER	I		FD	NGL	E	2	2.0	1.25	8	0.06	4.0
43-100	FALLFISH	G		FS	LN	E	25	25.0	15.63	701	5.10	28.0
50-001	AMERICAN EEL	C		C		M	8	8.0	5.00	1600	11.63	200.0
60-001	BURBOT	C		FD	NGL	S	16	16.0	10.00	790	5.74	49.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	30	30.0	18.75	2242	16.30	74.7
77-030	REDBREAST SUNFISH	I		MG	PN	E	2	2.0	1.25	133	0.97	66.5

No Species: 9 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 160 **Total Rel. Wt. :** 13757

IBI: 45.9

Appendix C-3
Fish Species List

River: 70-700 E. Br. Penobscot R. RM: 41.57 Date: 08/08/2007

Time Fished: 4561 Distance: 1.000 Drainge (sq mi): 504.8 Depth: 0

Location: Dst. Stair Falls Lat: 46.08236 Long: -68.77006

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	1	1.0	0.57	220	6.40	220.0
25-011	LANDLOCKED SALMON	C		FD	LN	S	5	5.0	2.86	1039	30.20	207.8
40-016	WHITE SUCKER	I	T	FD	NGL	M	31	31.0	17.71	1422	41.34	45.8
43-013	CREEK CHUB	I	T	MG	L	E	14	14.0	8.00	54	1.57	3.8
43-026	COMMON SHINER	I		FD	NGL	E	29	29.0	16.57	75	2.18	2.5
43-042	FATHEAD MINNOW	G	T	MG	CN	E	1	1.0	0.57	2	0.06	2.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	36	36.0	20.57	95	2.76	2.6
43-100	FALLFISH	G		FS	LN	E	38	38.0	21.71	255	7.41	6.7
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.57	2	0.06	2.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	17	17.0	9.71	270	7.85	15.8
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.14	6	0.17	3.0

No Species: 11 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 175 **Total Rel. Wt. :** 3440

IBI: 77.9

Appendix C-3
Fish Species List

River: 70-700 E. Br. Penobscot R. RM: 46.52 Date: 08/09/2007

Time Fished: 3452 Distance: 1.000 Drainge (sq mi): 495.0 Depth: 0

Location: Dst. Matagaway Campground Lat: 46.12417 Long: -68.79495

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-011	LANDLOCKED SALMON	C		FD	LN	S	85	85.0	30.91	2075	10.93	24.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	22	22.0	8.00	14174	74.64	644.2
43-003	GOLDEN SHINER	G	T	MG	L	E	5	5.0	1.82	20	0.11	4.0
43-026	COMMON SHINER	I		FD	NGL	E	42	42.0	15.27	80	0.42	1.9
43-037	BLACKNOSE SHINER	I	R	MG	L	E	39	39.0	14.18	55	0.29	1.4
43-042	FATHEAD MINNOW	G	T	MG	CN	E	9	9.0	3.27	30	0.16	3.3
43-082	Northern Redbelly Dace	G		MG	NGL	M	1	1.0	0.36	10	0.05	10.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	21	21.0	7.64	40	0.21	1.9
43-100	FALLFISH	G		FS	LN	E	25	25.0	9.09	100	0.53	4.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.36	1	0.01	1.0
50-001	AMERICAN EEL	C		C		M	2	2.0	0.73	2100	11.06	1050.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	2	2.0	0.73	10	0.05	5.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	16	16.0	5.82	280	1.47	17.5
95-002	THREE-SPINE STICKLEBACK	I		MG	PN	M	5	5.0	1.82	16	0.08	3.2

No Species: 14 **Nat. Species:** 11 **Hybrids:** 0 **Total Counted:** 275 **Total Rel. Wt. :** 18991

IBI: 64.9

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 1.90 Date: 08/21/2009

Time Fished: 3190 Distance: 1.000 Drainge (sq mi): 9837.0 Depth: 100

Location: Lat: 41.84430 Long: -72.62845

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	22	22.0	17.89	50	0.36	2.2
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	0.81	875	6.31	875.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	7	7.0	5.69	5203	37.54	743.2
43-028	SPOTTAIL SHINER	I	P	MG	L	E	21	21.0	17.07	85	0.61	4.0
43-100	FALLFISH	G		FS	LN	E	6	6.0	4.88	125	0.90	20.8
50-001	AMERICAN EEL	C		C		M	5	5.0	4.07	326	2.35	65.2
54-004	MUMMICHOG	D		TS	VN	E	1	1.0	0.81	8	0.06	8.0
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.81	5	0.04	5.0
77-003	ROCK BASS	C		MG	LN	E	3	3.0	2.44	72	0.52	24.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	9	9.0	7.32	2305	16.63	256.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.81	1300	9.38	1300.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	7	7.0	5.69	707	5.10	101.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	2	2.0	1.63	73	0.53	36.5
80-003	YELLOW PERCH	C		MG	V	M	37	37.0	30.08	2725	19.66	73.6

No Species: 14 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 123 **Total Rel. Wt. :** 13859

IBI: 33.1

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 2.00 Date: 09/21/2009

Time Fished: 2329 Distance: 1.000 Drainge (sq mi): 10000.0 Depth: 100

Location: Lat: 41.01610 Long: -72.81310

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	1	1.0	1.25	4	0.03	4.0
20-005	BLUEBACK HERRING	PL		A	NGL	M	2	2.0	2.50	16	0.13	8.0
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	1.25	1604	13.34	1604.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	11.25	7312	60.81	812.4
43-026	COMMON SHINER	I		FD	NGL	E	12	12.0	15.00	114	0.95	9.5
43-028	SPOTTAIL SHINER	I	P	MG	L	E	7	7.0	8.75	10	0.08	1.4
50-001	AMERICAN EEL	C		C		M	31	31.0	38.75	572	4.76	18.4
77-003	ROCK BASS	C		MG	LN	E	1	1.0	1.25	60	0.50	60.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	4	4.0	5.00	1958	16.28	489.5
80-003	YELLOW PERCH	C		MG	V	M	11	11.0	13.75	368	3.06	33.4
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	1.25	6	0.05	6.0

No Species: 11 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 80 **Total Rel. Wt. :** 12024

IBI: 41.3

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 6.30 Date: 08/21/2009

Time Fished: 3095 Distance: 1.000 Drainge (sq mi): 9715.0 Depth: 75

Location: Lat: 41.90563 Long: -72.62443

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	3	3.0	0.81	23	0.04	7.6
20-006	AMERICAN SHAD	PL		A	PS	M	126	126.0	33.96	650	1.26	5.1
37-007	REDFIN PICKEREL	P	P	MG		M	1	1.0	0.27	12	0.02	12.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	2.43	2740	5.33	304.4
43-001	COMMON CARP	O	T	MG	V	E	7	7.0	1.89	39806	77.43	5686.5
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.27	5	0.01	5.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	73	73.0	19.68	515	1.00	7.0
43-100	FALLFISH	G		FS	LN	E	33	33.0	8.89	395	0.77	11.9
50-001	AMERICAN EEL	C		C		M	12	12.0	3.23	890	1.73	74.1
74-002	STRIPED BASS	P		A	L	M	1	1.0	0.27	1050	2.04	1050.0
77-003	ROCK BASS	C		MG	LN	E	6	6.0	1.62	240	0.47	40.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	8	8.0	2.16	1945	3.78	243.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	1.35	25	0.05	5.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	46	46.0	12.40	1290	2.51	28.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	1.08	70	0.14	17.5
77-030	REDBREAST SUNFISH	I		MG	PN	E	3	3.0	0.81	65	0.13	21.6
80-003	YELLOW PERCH	C		MG	V	M	31	31.0	8.36	1685	3.28	54.3
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	0.54	4	0.01	2.0

No Species: 18 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 371 **Total Rel. Wt. :** 51410

IBI: 34.3

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 8.30 Date: 08/21/2009

Time Fished: 3591 Distance: 1.000 Drainge (sq mi): 9663.0 Depth: 75

Location: Winslow Lat: 41.93590 Long: -72.62008

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	11	11.0	5.31	5606	46.44	509.6
43-028	SPOTTAIL SHINER	I	P	MG	L	E	16	16.0	7.73	30	0.25	1.8
43-100	FALLFISH	G		FS	LN	E	68	68.0	32.85	305	2.53	4.4
50-001	AMERICAN EEL	C		C		M	83	83.0	40.10	2004	16.60	24.1
77-003	ROCK BASS	C		MG	LN	E	9	9.0	4.35	410	3.40	45.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	11.0	5.31	3447	28.55	313.3
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	9	9.0	4.35	270	2.24	30.0

No Species: 7 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 207 **Total Rel. Wt. :** 12072

IBI: 31.8

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 10.70 Date: 08/20/2009

Time Fished: 3101 Distance: 1.000 Drainge (sq mi): 9656.0 Depth: 75

Location: Lat: 41.96603 Long: -72.61065

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	8	8.0	2.89	7600	60.25	950.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.36	6	0.05	6.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	24	24.0	8.66	100	0.79	4.1
43-100	FALLFISH	G		FS	LN	E	63	63.0	22.74	135	1.07	2.1
50-001	AMERICAN EEL	C		C		M	132	132.0	47.65	2100	16.65	15.9
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.36	120	0.95	120.0
77-003	ROCK BASS	C		MG	LN	E	9	9.0	3.25	855	6.78	95.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	20	20.0	7.22	1437	11.39	71.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.36	12	0.10	12.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.36	20	0.16	20.0
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	1.44	203	1.61	50.7
80-035	TESSELATED DARTER	BI		FD		M	13	13.0	4.69	27	0.21	2.0

No Species: 12 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 277 **Total Rel. Wt. :** 12615

IBI: 34.2

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 20.30 Date: 08/20/2009

Time Fished: 3124 Distance: 1.000 Drainge (sq mi): 9047.0 Depth: 75

Location: Springfield Lat: 42.09688 Long: -72.58975

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	5	5.0	3.09	24	0.56	4.8
15-001	BOWFIN						1	1.0	0.62	660	15.28	660.0
20-006	AMERICAN SHAD	PL		A	PS	M	6	6.0	3.70	15	0.35	2.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	1.23	210	4.86	105.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	23	23.0	14.20	57	1.32	2.4
43-100	FALLFISH	G		FS	LN	E	49	49.0	30.25	68	1.57	1.3
50-001	AMERICAN EEL	C		C		M	28	28.0	17.28	2300	53.24	82.1
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.62	65	1.50	65.0
77-003	ROCK BASS	C		MG	LN	E	3	3.0	1.85	230	5.32	76.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	18	18.0	11.11	260	6.02	14.4
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	2	2.0	1.23	130	3.01	65.0
80-003	YELLOW PERCH	C		MG	V	M	10	10.0	6.17	275	6.37	27.5
80-035	TESSELATED DARTER	BI		FD		M	14	14.0	8.64	26	0.60	1.8

No Species: 13 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 162 **Total Rel. Wt. :** 4320

IBI: 32.3

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 23.90 Date: 08/19/2009

Time Fished: 2859 Distance: 1.000 Drainge (sq mi): 9039.0 Depth: 100

Location: Chicopee Lat: 42.13868 Long: -72.61340

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-003	NORTHERN PIKE	P		MG	L	M	2	2.0	0.85	1850	5.51	925.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	31	31.0	13.14	27953	83.28	901.7
43-100	FALLFISH	G		FS	LN	E	3	3.0	1.27	123	0.37	41.0
50-001	AMERICAN EEL	C		C		M	150	150.0	63.56	1618	4.82	10.7
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.42	95	0.28	95.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	20	20.0	8.47	955	2.85	47.7
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	3	3.0	1.27	400	1.19	133.3
80-003	YELLOW PERCH	C		MG	V	M	24	24.0	10.17	565	1.68	23.5
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	0.85	8	0.02	4.0

No Species: 9 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 236 **Total Rel. Wt. :** 33567

IBI: 31.2

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 29.70 Date: 08/19/2009

Time Fished: 3289 Distance: 1.000 Drainge (sq mi): 10648.0 Depth: 0

Location: Lat: 42.20258 Long: -72.58920

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	15	15.0	6.38	2200	3.76	146.6
43-001	COMMON CARP	O	T	MG	V	E	8	8.0	3.40	49924	85.28	6240.5
43-028	SPOTTAIL SHINER	I	P	MG	L	E	1	1.0	0.43	1	0.00	1.0
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.43	1	0.00	1.0
47-002	CHANNEL CATFISH						1	1.0	0.43	1200	2.05	1200.0
50-001	AMERICAN EEL	C		C		M	171	171.0	72.77	1420	2.43	8.3
77-003	ROCK BASS	C		MG	LN	E	3	3.0	1.28	210	0.36	70.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	31	31.0	13.19	3465	5.92	111.7
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	0.43	105	0.18	105.0
80-035	TESSELATED DARTER	BI		FD		M	3	3.0	1.28	15	0.03	5.0

No Species: 10 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 235 **Total Rel. Wt. :** 58541

IBI: 20.1

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 30.00 Date: 09/22/2009

Time Fished: 1346 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 100

Location: Lat: 42.24310 Long: -72.68110

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	11.11	2820	10.24	1410.0
43-001	COMMON CARP	O	T	MG	V	E	3	3.0	16.67	19050	69.19	6350.0
47-003	WHITE CATFISH	I		MG	P	E	1	1.0	5.56	3148	11.43	3148.0
50-001	AMERICAN EEL	C		C		M	7	7.0	38.89	372	1.35	53.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	5	5.0	27.78	2144	7.79	428.8

No Species: 5 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 18 **Total Rel. Wt. :** 27534

IBI: 21.3

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 30.50 Date: 08/19/2009

Time Fished: 3479 Distance: 1.000 Drainge (sq mi): 8299.0 Depth: 75

Location: Dst Holyoke Dam Ust. flow return Lat: 42.21328 Long: -72.59640

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	26	26.0	10.92	5	0.02	0.1
20-006	AMERICAN SHAD	PL		A	PS	M	14	14.0	5.88	25	0.10	1.7
40-016	WHITE SUCKER	I	T	FD	NGL	M	8	8.0	3.36	5700	22.55	712.5
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	1	1.0	0.42	15	0.06	15.0
43-100	FALLFISH	G		FS	LN	E	2	2.0	0.84	200	0.79	100.0
47-002	CHANNEL CATFISH						1	1.0	0.42	3000	11.87	3000.0
50-001	AMERICAN EEL	C		C		M	124	124.0	52.10	11465	45.36	92.4
77-003	ROCK BASS	C		MG	LN	E	17	17.0	7.14	1560	6.17	91.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	33	33.0	13.87	1865	7.38	56.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	4	4.0	1.68	590	2.33	147.5
80-002	WALLEYE	C		MG		M	1	1.0	0.42	450	1.78	450.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	0.84	380	1.50	190.0
80-035	TESSELATED DARTER	BI		FD		M	5	5.0	2.10	20	0.08	4.0

No Species: 13 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 238 **Total Rel. Wt. :** 25275

IBI: 29.8

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 30.50 Date: 09/22/2009

Time Fished: 2517 Distance: 1.000 Drainge (sq mi): 8299.0 Depth: 150

Location: Dst Holyoke Dam Ust. flow return Lat: 42.21328 Long: -72.59640

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	3.0	3.85	2592	40.86	864.0
50-001	AMERICAN EEL	C		C		M	54	54.0	69.23	948	14.94	17.5
77-003	ROCK BASS	C		MG	LN	E	7	7.0	8.97	340	5.36	48.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	11.0	14.10	2312	36.44	210.1
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	3	3.0	3.85	152	2.40	50.6

No Species: 5 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 78 **Total Rel. Wt. :** 6344

IBI: 21.0

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 32.30 Date: 08/18/2009

Time Fished: 3401 Distance: 1.000 Drainge (sq mi): 8296.0 Depth: 75

Location: Holyoke impoundment Lat: 42.22685 Long: -72.61896

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.25	6	0.02	6.0
20-006	AMERICAN SHAD	PL		A	PS	M	24	24.0	6.00	41	0.12	1.7
37-002	CHAIN PICKEREL	P		MG	L	M	4	4.0	1.00	850	2.48	212.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.25	10	0.03	10.0
43-001	COMMON CARP	O	T	MG	V	E	2	2.0	0.50	18100	52.74	9050.0
43-003	GOLDEN SHINER	G	T	MG	L	E	4	4.0	1.00	440	1.28	110.0
43-026	COMMON SHINER	I		FD	NGL	E	15	15.0	3.75	22	0.06	1.4
43-028	SPOTTAIL SHINER	I	P	MG	L	E	126	126.0	31.50	260	0.76	2.0
43-100	FALLFISH	G		FS	LN	E	32	32.0	8.00	95	0.28	2.9
50-001	AMERICAN EEL	C		C		M	2	2.0	0.50	850	2.48	425.0
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.25	120	0.35	120.0
77-003	ROCK BASS	C		MG	LN	E	8	8.0	2.00	185	0.54	23.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	33	33.0	8.25	3615	10.53	109.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	8	8.0	2.00	1600	4.66	200.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	33	33.0	8.25	2780	8.10	84.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	32	32.0	8.00	2740	7.98	85.6
80-003	YELLOW PERCH	C		MG	V	M	69	69.0	17.25	2595	7.56	37.6
80-035	TESSELATED DARTER	BI		FD		M	5	5.0	1.25	9	0.03	1.8

No Species: 18 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 400 **Total Rel. Wt. :** 34318

IBI: 26.1

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 43.80 Date: 08/18/2009

Time Fished: 3100 Distance: 1.000 Drainge (sq mi): 8022.0 Depth: 90

Location: North Hampton Lat: 42.34506 Long: -72.63501

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	2	2.0	1.37	14	0.21	7.0
20-006	AMERICAN SHAD	PL		A	PS	M	15	15.0	10.27	42	0.63	2.8
43-100	FALLFISH	G		FS	LN	E	35	35.0	23.97	310	4.69	8.8
50-001	AMERICAN EEL	C		C		M	2	2.0	1.37	210	3.17	105.0
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.68	175	2.65	175.0
77-003	ROCK BASS	C		MG	LN	E	27	27.0	18.49	2700	40.81	100.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	37	37.0	25.34	1235	18.67	33.3
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	5	5.0	3.42	460	6.95	92.0
80-003	YELLOW PERCH	C		MG	V	M	15	15.0	10.27	1465	22.14	97.6
80-035	TESSELATED DARTER	BI		FD		M	7	7.0	4.79	5	0.08	0.7

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 146 **Total Rel. Wt. :** 6616

IBI: 20.1

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 54.30 Date: 08/18/2009

Time Fished: 2956 Distance: 1.000 Drainge (sq mi): 7917.0 Depth: 100

Location: Lat: 42.43558 Long: -72.58418

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.31	830	12.86	830.0
43-001	COMMON CARP	O	T	MG	V	E	1	1.0	0.31	2140	33.15	2140.0
43-100	FALLFISH	G		FS	LN	E	262	262.0	82.39	855	13.24	3.2
50-001	AMERICAN EEL	C		C		M	2	2.0	0.63	600	9.29	300.0
77-003	ROCK BASS	C		MG	LN	E	12	12.0	3.77	685	10.61	57.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	21	21.0	6.60	240	3.72	11.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.31	7	0.11	7.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	11	11.0	3.46	890	13.79	80.9
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.31	15	0.23	15.0
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	0.94	185	2.87	61.6
80-035	TESSELATED DARTER	BI		FD		M	3	3.0	0.94	9	0.14	3.0

No Species: 11 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 318 **Total Rel. Wt. :** 6456

IBI: 34.9

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 54.50 Date: 09/19/2009

Time Fished: 2291 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 100

Location: Lat: 42.43109 Long: -72.58313

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	3	3.0	2.10	12	0.12	4.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.70	1106	11.23	1106.0
43-100	FALLFISH	G		FS	LN	E	115	115.0	80.42	270	2.74	2.3
47-003	WHITE CATFISH	I		MG	P	E	2	2.0	1.40	2748	27.91	1374.0
50-001	AMERICAN EEL	C		C		M	1	1.0	0.70	2045	20.77	2045.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	14	14.0	9.79	2696	27.38	192.5
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	4.20	968	9.83	161.3
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.70	2	0.02	2.0

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 143 **Total Rel. Wt. :** 9847

IBI: 39.2

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 55.90 Date: 09/19/2009

Time Fished: 0 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 100

Location: Lat: 42.58440 Long: -72.82080

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	1.64	980	26.29	980.0
43-100	FALLFISH	G		FS	LN	E	6	6.0	9.84	42	1.13	7.0
50-001	AMERICAN EEL	C		C		M	24	24.0	39.34	922	24.74	38.4
77-003	ROCK BASS	C		MG	LN	E	5	5.0	8.20	463	12.42	92.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	21	21.0	34.43	966	25.92	46.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	1.64	100	2.68	100.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	3	3.0	4.92	254	6.82	84.6

No Species: 7 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 61 **Total Rel. Wt. :** 3727

IBI: 21.7

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 56.10 Date: 08/17/2009

Time Fished: 3441 Distance: 1.000 Drainge (sq mi): 7911.0 Depth: 100

Location: Lat: 42.47373 Long: -72.58191

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	2	2.0	2.60	8	0.19	4.0
20-006	AMERICAN SHAD	PL		A	PS	M	25	25.0	32.47	95	2.25	3.8
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	1.30	100	2.37	100.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	2.60	1700	40.30	850.0
43-100	FALLFISH	G		FS	LN	E	8	8.0	10.39	335	7.94	41.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	25	25.0	32.47	650	15.41	26.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	9	9.0	11.69	930	22.05	103.3
80-003	YELLOW PERCH	C		MG	V	M	5	5.0	6.49	400	9.48	80.0

No Species: 8 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 77 **Total Rel. Wt. :** 4218

IBI: 38.3

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 57.30 Date: 08/17/2009

Time Fished: 3595 Distance: 1.000 Drainge (sq mi): 7911.0 Depth: 100

Location: Lat: 42.48591 Long: -72.57165

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	1	1.0	0.49	3	0.23	3.0
37-003	NORTHERN PIKE	P		MG	L	M	2	2.0	0.99	40	3.09	20.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	1.97	15	1.16	3.7
43-028	SPOTTAIL SHINER	I	P	MG	L	E	10	10.0	4.93	28	2.16	2.8
43-100	FALLFISH	G		FS	LN	E	128	128.0	63.05	175	13.50	1.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	33	33.0	16.26	495	38.19	15.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	4	4.0	1.97	45	3.47	11.2
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	14	14.0	6.90	480	37.04	34.2
80-003	YELLOW PERCH	C		MG	V	M	7	7.0	3.45	15	1.16	2.1

No Species: 9 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 203 **Total Rel. Wt. :** 1296

IBI: 30.0

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 60.70 Date: 08/17/2009

Time Fished: 3708 Distance: 1.000 Drainge (sq mi): 7866.0 Depth: 100

Location: CTRiver South of Deerfield Lat: 42.52856 Long: -72.56881

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	3	3.0	1.33	5	0.04	1.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.44	1	0.01	1.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	53	53.0	23.56	396	3.54	7.4
43-100	FALLFISH	G		FS	LN	E	99	99.0	44.00	650	5.81	6.5
50-001	AMERICAN EEL	C		C		M	29	29.0	12.89	5950	53.20	205.1
77-003	ROCK BASS	C		MG	LN	E	12	12.0	5.33	2250	20.12	187.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	12	12.0	5.33	425	3.80	35.4
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	12	12.0	5.33	1270	11.35	105.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.89	70	0.63	35.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.44	160	1.43	160.0
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.44	8	0.07	8.0

No Species: 11 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 225 **Total Rel. Wt. :** 11185

IBI: 34.0

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 63.40 Date: 08/16/2009

Time Fished: 4415 Distance: 1.000 Drainge (sq mi): 7863.0 Depth: 0

Location: FPS statr 486 End 488 Lat: 42.56387 Long: -72.55534

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	1.63	855	5.21	427.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	7.32	8095	49.32	899.4
43-100	FALLFISH	G		FS	LN	E	10	10.0	8.13	105	0.64	10.5
47-002	CHANNEL CATFISH						1	1.0	0.81	2	0.01	2.0
50-001	AMERICAN EEL	C		C		M	3	3.0	2.44	1410	8.59	470.0
74-006	YELLOW BASS		P				1	1.0	0.81	40	0.24	40.0
77-003	ROCK BASS	C		MG	LN	E	4	4.0	3.25	510	3.11	127.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	81	81.0	65.85	3113	18.97	38.4
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	8	8.0	6.50	695	4.23	86.8
80-002	WALLEYE	C		MG		M	1	1.0	0.81	1500	9.14	1500.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.81	80	0.49	80.0
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	1.63	8	0.05	4.0

No Species: 13 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 123 **Total Rel. Wt. :** 16413

IBI: 28.6

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 64.70 Date: 08/16/2009

Time Fished: 3495 Distance: 1.000 Drainge (sq mi): 7863.8 Depth: 100

Location: Lat: 42.57836 Long: -72.56978

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	7	7.0	6.42	40	0.53	5.7
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	0.92	750	10.02	750.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	3.67	4200	56.10	1050.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	9	9.0	8.26	44	0.59	4.8
43-100	FALLFISH	G		FS	LN	E	29	29.0	26.61	165	2.20	5.6
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.92	110	1.47	110.0
77-003	ROCK BASS	C		MG	LN	E	3	3.0	2.75	150	2.00	50.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	45	45.0	41.28	1390	18.57	30.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	1.83	10	0.13	5.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	7	7.0	6.42	625	8.35	89.2
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.92	2	0.03	2.0

No Species: 11 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 109 **Total Rel. Wt. :** 7486

IBI: 31.7

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 65.50 Date: 08/16/2009

Time Fished: 3298 Distance: 1.000 Drainge (sq mi): 7192.0 Depth: 100

Location: Turners Lat: 42.58623 Long: -72.57943

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	7	7.0	7.95	30	0.16	4.2
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	1.14	182	0.98	182.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	5.68	3855	20.71	771.0
43-001	COMMON CARP	O	T	MG	V	E	2	2.0	2.27	10200	54.79	5100.0
43-026	COMMON SHINER	I		FD	NGL	E	4	4.0	4.55	15	0.08	3.7
43-100	FALLFISH	G		FS	LN	E	4	4.0	4.55	311	1.67	77.7
50-001	AMERICAN EEL	C		C		M	14	14.0	15.91	1150	6.18	82.1
77-003	ROCK BASS	C		MG	LN	E	1	1.0	1.14	165	0.89	165.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	42	42.0	47.73	2449	13.15	58.3
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	5	5.0	5.68	254	1.36	50.8
80-035	TESSELATED DARTER	BI		FD		M	3	3.0	3.41	7	0.04	2.3

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 88 **Total Rel. Wt. :** 18618

IBI: 37.7

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 66.10 Date: 08/15/2009

Time Fished: 4856 Distance: 1.000 Drainge (sq mi): 7191.0 Depth: 0

Location: Ust. Cabot Station flow altered reach Lat: 42.59536 Long: -72.57901

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.39	5	0.07	5.0
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	0.39	1300	18.26	1300.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	3.50	10	0.14	1.1
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	1	1.0	0.39	5	0.07	5.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	133	133.0	51.75	105	1.47	0.7
43-100	FALLFISH	G		FS	LN	E	14	14.0	5.45	65	0.91	4.6
50-001	AMERICAN EEL	C		C		M	5	5.0	1.95	1150	16.15	230.0
77-003	ROCK BASS	C		MG	LN	E	8	8.0	3.11	500	7.02	62.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	70	70.0	27.24	3355	47.13	47.9
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	3	3.0	1.17	600	8.43	200.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.39	10	0.14	10.0
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	1.17	4	0.06	1.3
80-035	TESSELATED DARTER	BI		FD		M	8	8.0	3.11	10	0.14	1.2

No Species: 13 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 257 **Total Rel. Wt. :** 7119

IBI: 22.4

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 66.90 Date: 09/28/2009

Time Fished: 3356 Distance: 1.000 Drainge (sq mi): 7191.0 Depth: 50

Location: DST small power station @ power lines, Turners Falls, M Lat: 42.59917 Long: -72.57417

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	1.00	10	0.07	10.0
25-010	ATLANTIC SALMON	C		A	LN	S	8	8.0	8.00	780	5.34	97.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	5.00	4770	32.68	954.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	14	14.0	14.00	54	0.37	3.8
50-001	AMERICAN EEL	C		C		M	12	12.0	12.00	2280	15.62	190.0
77-003	ROCK BASS	C		MG	LN	E	3	3.0	3.00	60	0.41	20.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	56	56.0	56.00	6640	45.49	118.5
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	1.00	4	0.03	4.0

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 100 **Total Rel. Wt. :** 14598

IBI: 56.7

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 67.90 Date: 09/28/2009

Time Fished: 3245 Distance: 1.000 Drainge (sq mi): 7191.0 Depth: 50

Location: DST Turners Falls Dam, Turners Falls, MA Lat: 42.60879 Long: -72.55756

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	14	14.0	16.47	80	1.60	5.7
50-001	AMERICAN EEL	C		C		M	10	10.0	11.76	600	11.99	60.0
77-003	ROCK BASS	C		MG	LN	E	1	1.0	1.18	20	0.40	20.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	37	37.0	43.53	2795	55.84	75.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	14	14.0	16.47	1455	29.07	103.9
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	1.18	40	0.80	40.0
80-035	TESSELATED DARTER	BI		FD		M	8	8.0	9.41	15	0.30	1.8

No Species: 7 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 85 **Total Rel. Wt. :** 5005

IBI: 9.6

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 68.80 Date: 09/27/2008

Time Fished: 3712 Distance: 1.000 Drainge (sq mi): 7152.4 Depth: 580

Location: Turners Falls dam pool, Turners Falls, MA Lat: 42.59645 Long: -72.54374

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	15	15.0	2.63	170	1.62	11.3
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.18	50	0.48	50.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	22	22.0	3.85	332	3.16	15.0
43-001	COMMON CARP	O	T	MG	V	E	1	1.0	0.18	6300	60.06	6300.0
43-003	GOLDEN SHINER	G	T	MG	L	E	3	3.0	0.53	24	0.23	8.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	356	356.0	62.35	1790	17.06	5.0
77-003	ROCK BASS	C		MG	LN	E	5	5.0	0.88	12	0.11	2.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	7	7.0	1.23	210	2.00	30.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	31	31.0	5.43	230	2.19	7.4
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	16	16.0	2.80	358	3.41	22.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	9	9.0	1.58	420	4.00	46.6
77-999	HYBRID X SUNFISH	I		MG		E	1	1.0	0.18	10	0.10	10.0
80-003	YELLOW PERCH	C		MG	V	M	103	103.0	18.04	580	5.53	5.6
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.18	4	0.04	4.0

No Species: 14 **Nat. Species:** 3 **Hybrids:** 1 **Total Counted:** 571 **Total Rel. Wt. :** 10490

IBI: 28.3

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 72.20 Date: 10/01/2008

Time Fished: 4176 Distance: 1.000 Drainge (sq mi): 7150.1 Depth: 590

Location: UST King of France Bridge, Turner's Falls, MA Lat: 42.59651 Long: -72.49697

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	3	3.0	4.00	26	0.64	8.6
20-006	AMERICAN SHAD	PL		A	PS	M	1	1.0	1.33	8	0.20	8.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	5.33	1130	27.73	282.5
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	2.67	18	0.44	9.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	14	14.0	18.67	105	2.58	7.5
43-100	FALLFISH	G		FS	LN	E	8	8.0	10.67	65	1.60	8.1
50-001	AMERICAN EEL	C		C		M	1	1.0	1.33	1050	25.77	1050.0
77-003	ROCK BASS	C		MG	LN	E	3	3.0	4.00	100	2.45	33.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	17	17.0	22.67	891	21.87	52.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	1.33	65	1.60	65.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	5	5.0	6.67	335	8.22	67.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	7	7.0	9.33	135	3.31	19.2
80-003	YELLOW PERCH	C		MG	V	M	9	9.0	12.00	147	3.61	16.3

No Species: 13 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 75 **Total Rel. Wt. :** 4075

IBI: 24.0

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 79.20 Date: 10/02/2008

Time Fished: 2967 Distance: 1.000 Drainge (sq mi): 6721.2 Depth: 370

Location: UST SR 10 bridge Lat: 42.68238 Long: -72.47191

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	3	3.0	15.00	20	1.08	6.6
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	5.00	200	10.78	200.0
43-100	FALLFISH	G		FS	LN	E	1	1.0	5.00	40	2.16	40.0
77-003	ROCK BASS	C		MG	LN	E	2	2.0	10.00	40	2.16	20.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	8	8.0	40.00	1440	77.63	180.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	5.00	60	3.23	60.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	5.00	15	0.81	15.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	15.00	40	2.16	13.3

No Species: 8 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 20 **Total Rel. Wt. :** 1855

IBI: 14.5

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 83.30 Date: 10/01/2008

Time Fished: 3040 Distance: 1.000 Drainge (sq mi): 6694.5 Depth: 200

Location: UST Northfield, NH WWTP/UST Pauchaug Brook Lat: 42.73085 Long: -72.45687

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	2	2.0	22.22	19	1.41	9.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	11.11	175	12.97	175.0
77-003	ROCK BASS	C		MG	LN	E	1	1.0	11.11	12	0.89	12.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	4	4.0	44.44	1135	84.14	283.7
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	11.11	8	0.59	8.0

No Species: 5 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 9 **Total Rel. Wt. :** 1349

IBI: 20.4

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 88.40 Date: 10/03/2008

Time Fished: 3617 Distance: 1.000 Drainge (sq mi): 6265.2 Depth: 120

Location: DST Vernon Dam Vernon, VT Lat: 42.76683 Long: -72.51409

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	23	23.0	32.39	120	2.06	5.2
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	2.82	310	5.33	155.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	1.41	1180	20.29	1180.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	2	2.0	2.82	10	0.17	5.0
43-100	FALLFISH	G		FS	LN	E	5	5.0	7.04	230	3.96	46.0
77-003	ROCK BASS	C		MG	LN	E	2	2.0	2.82	100	1.72	50.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	28	28.0	39.44	2065	35.51	73.7
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	1.41	20	0.34	20.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	1.41	140	2.41	140.0
80-002	WALLEYE	C		MG		M	1	1.0	1.41	1480	25.45	1480.0
80-003	YELLOW PERCH	C		MG	V	M	5	5.0	7.04	160	2.75	32.0

No Species: 11 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 71 **Total Rel. Wt. :** 5815

IBI: 27.6

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 89.00 Date: 10/02/2008

Time Fished: 2815 Distance: 0.660 Drainge (sq mi): 6258.9 Depth: 460

Location: At and DST mixing zone thermal discharge Vermont Yankee Lat: 42.77442 Long: -72.51134

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	1	1.5	0.51	12	0.09	8.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	4.6	1.54	60	0.44	13.3
43-028	SPOTTAIL SHINER	I	P	MG	L	E	58	87.9	29.74	272	1.96	3.1
47-004	YELLOW BULLHEAD	G	T	MG		E	97	147.0	49.74	90	0.65	0.6
50-001	AMERICAN EEL	C		C		M	1	1.5	0.51	2060	14.80	1360.0
77-002	BLACK CRAPPIE	C		MG	PN	E	3	4.6	1.54	418	3.00	92.0
77-003	ROCK BASS	C		MG	LN	E	1	1.5	0.51	15	0.11	10.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	2	3.0	1.03	4560	32.76	1505.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	7.6	2.56	5060	36.36	668.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	10	15.2	5.13	34	0.25	2.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	11	16.7	5.64	272	1.96	16.3
80-003	YELLOW PERCH	C		MG	V	M	3	4.6	1.54	1060	7.62	233.3

No Species: 12 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 195 **Total Rel. Wt. :** 13918

IBI: 27.2

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 90.10 Date: 10/02/2008

Time Fished: 3921 Distance: 1.000 Drainge (sq mi): 6257.1 Depth: 270

Location: UST Vemont Yankee Entergy thermal discharge Lat: 42.78747 Long: -72.51415

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	7	7.0	4.46	40	0.49	5.7
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	1.27	48	0.59	24.0
43-001	COMMON CARP	O	T	MG	V	E	1	1.0	0.64	3350	40.91	3350.0
43-003	GOLDEN SHINER	G	T	MG	L	E	10	10.0	6.37	55	0.67	5.5
43-028	SPOTTAIL SHINER	I	P	MG	L	E	65	65.0	41.40	170	2.08	2.6
77-002	BLACK CRAPPIE	C		MG	PN	E	3	3.0	1.91	540	6.60	180.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	8	8.0	5.10	1270	15.51	158.7
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	12	12.0	7.64	380	4.64	31.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	10	10.0	6.37	745	9.10	74.5
80-003	YELLOW PERCH	C		MG	V	M	39	39.0	24.84	1590	19.42	40.7

No Species: 10 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 157 **Total Rel. Wt. :** 8188

IBI: 22.6

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 90.10 Date: 09/20/2009

Time Fished: 3237 Distance: 1.000 Drainge (sq mi): 6257.1 Depth: 150

Location: UST Vemont Yankee Entergy thermal discharge Lat: 42.78747 Long: -72.51415

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	4	4.0	0.51	28	0.07	7.0
37-002	CHAIN PICKEREL	P		MG	L	M	32	32.0	4.04	2066	5.24	64.5
43-001	COMMON CARP	O	T	MG	V	E	5	5.0	0.63	9750	24.75	1950.0
43-003	GOLDEN SHINER	G	T	MG	L	E	78	78.0	9.85	609	1.55	7.8
43-028	SPOTTAIL SHINER	I	P	MG	L	E	289	289.0	36.49	1190	3.02	4.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	0.25	1343	3.41	671.5
50-001	AMERICAN EEL	C		C		M	1	1.0	0.13	2340	5.94	2340.0
77-002	BLACK CRAPPIE	C		MG	PN	E	24	24.0	3.03	2283	5.80	95.1
77-003	ROCK BASS	C		MG	LN	E	1	1.0	0.13	1	0.00	1.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	31	31.0	3.91	10434	26.49	336.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	10	10.0	1.26	854	2.17	85.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	7	7.0	0.88	874	2.22	124.8
80-003	YELLOW PERCH	C		MG	V	M	308	308.0	38.89	7621	19.35	24.7

No Species: 13 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 792 **Total Rel. Wt. :** 39393

IBI: 24.3

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 92.50 Date: 10/03/2008

Time Fished: 3335 Distance: 1.000 Drainge (sq mi): 6244.0 Depth: 340

Location: DST Brattleboro, VT WWTP Lat: 42.81555 Long: -72.54207

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	3	3.0	1.36	60	0.37	20.0
20-006	AMERICAN SHAD	PL		A	PS	M	2	2.0	0.91	30	0.18	15.0
37-002	CHAIN PICKEREL	P		MG	L	M	3	3.0	1.36	660	4.03	220.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.45	1000	6.10	1000.0
43-003	GOLDEN SHINER	G	T	MG	L	E	34	34.0	15.45	290	1.77	8.5
43-028	SPOTTAIL SHINER	I	P	MG	L	E	67	67.0	30.45	290	1.77	4.3
77-002	BLACK CRAPPIE	C		MG	PN	E	3	3.0	1.36	160	0.98	53.3
77-003	ROCK BASS	C		MG	LN	E	2	2.0	0.91	230	1.40	115.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	10	10.0	4.55	9666	58.99	966.6
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	15	15.0	6.82	690	4.21	46.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	1.82	210	1.28	52.5
80-003	YELLOW PERCH	C		MG	V	M	76	76.0	34.55	3100	18.92	40.7

No Species: 12 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 220 **Total Rel. Wt. :** 16386

IBI: 25.2

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 92.50 Date: 09/18/2009

Time Fished: 2473 Distance: 1.000 Drainge (sq mi): 6244.0 Depth: 100

Location: DST Brattleboro, VT WWTP Lat: 42.81555 Long: -72.54207

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	29	29.0	3.26	1431	4.45	49.3
37-003	NORTHERN PIKE	P		MG	L	M	3	3.0	0.34	2385	7.42	795.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.11	6350	19.74	6350.0
43-003	GOLDEN SHINER	G	T	MG	L	E	305	305.0	34.27	1215	3.78	3.9
43-028	SPOTTAIL SHINER	I	P	MG	L	E	76	76.0	8.54	222	0.69	2.9
43-100	FALLFISH	G		FS	LN	E	10	10.0	1.12	26	0.08	2.6
77-002	BLACK CRAPPIE	C		MG	PN	E	90	90.0	10.11	1621	5.04	18.0
77-003	ROCK BASS	C		MG	LN	E	4	4.0	0.45	302	0.94	75.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	15	15.0	1.69	262	0.81	17.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	26	26.0	2.92	10603	32.97	407.8
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	150	150.0	16.85	2281	7.09	15.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	0.67	518	1.61	86.3
80-003	YELLOW PERCH	C		MG	V	M	175	175.0	19.66	4947	15.38	28.2

No Species: 13 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 890 **Total Rel. Wt. :** 32163

IBI: 21.4

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 97.60 Date: 09/02/2008

Time Fished: 3841 Distance: 1.000 Drainge (sq mi): 5765.4 Depth: 300

Location: UST West River confluence and Brattleboro, VT Lat: 42.88562 Long: -72.55151

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
77-003	ROCK BASS	C		MG	LN	E	2	2.0	2.63	60	1.42	30.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	24	24.0	31.58	2170	51.53	90.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	3.95	50	1.19	16.6
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	4	4.0	5.26	720	17.10	180.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	1.32	20	0.47	20.0
80-003	YELLOW PERCH	C		MG	V	M	41	41.0	53.95	1186	28.16	28.9
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	1.32	5	0.12	5.0

No Species: 7 **Nat. Species:** 1 **Hybrids:** 0 **Total Counted:** 76 **Total Rel. Wt. :** 4211

IBI: 13.1

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 102.30 Date: 09/02/2008

Time Fished: 3649 Distance: 1.000 Drainge (sq mi): 5731.8 Depth: 200

Location: DST Putney, VT Lat: 42.94139 Long: -72.52515

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	5	5.0	5.95	30	0.63	6.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	5.95	1857	39.15	371.4
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	3.57	6	0.13	2.0
43-100	FALLFISH	G		FS	LN	E	24	24.0	28.57	80	1.69	3.3
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	1.19	300	6.33	300.0
77-003	ROCK BASS	C		MG	LN	E	1	1.0	1.19	18	0.38	18.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	13	13.0	15.48	1863	39.28	143.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	5.95	70	1.48	14.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	1.19	45	0.95	45.0
80-003	YELLOW PERCH	C		MG	V	M	26	26.0	30.95	474	9.99	18.2

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 84 **Total Rel. Wt. :** 4743

IBI: 33.4

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 105.70 Date: 09/02/2008

Time Fished: 3798 Distance: 1.000 Drainge (sq mi): 5705.2 Depth: 300

Location: Near Westminster, VT Lat: 42.96852 Long: -72.49117

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.92	100	7.97	100.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	1.83	320	25.50	160.0
43-026	COMMON SHINER	I		FD	NGL	E	9	9.0	8.26	9	0.72	1.0
43-100	FALLFISH	G		FS	LN	E	59	59.0	54.13	116	9.24	1.9
47-003	WHITE CATFISH	I		MG	P	E	1	1.0	0.92	70	5.58	70.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	32	32.0	29.36	586	46.69	18.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	2.75	50	3.98	16.6
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	1.83	4	0.32	2.0

No Species: 8 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 109 **Total Rel. Wt. :** 1255

IBI: 33.0

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 114.70 Date: 09/01/2008

Time Fished: 3871 Distance: 1.000 Drainge (sq mi): 5614.1 Depth: 200

Location: DST Bellows Falls WWTP Lat: 43.06061 Long: -72.45777

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.58	20	0.24	20.0
20-006	AMERICAN SHAD	PL		A	PS	M	1	1.0	0.58	3	0.04	3.0
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.58	220	2.63	220.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.58	30	0.36	30.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	7	7.0	4.07	24	0.29	3.4
43-026	COMMON SHINER	I		FD	NGL	E	64	64.0	37.21	130	1.55	2.0
43-100	FALLFISH	G		FS	LN	E	56	56.0	32.56	165	1.97	2.9
77-003	ROCK BASS	C		MG	LN	E	5	5.0	2.91	341	4.07	68.2
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	30	30.0	17.44	7205	86.05	240.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	1.74	55	0.66	18.3
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	0.58	120	1.43	120.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.16	60	0.72	30.0

No Species: 12 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 172 **Total Rel. Wt. :** 8373

IBI: 43.7

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 116.20 Date: 09/01/2008

Time Fished: 4214 Distance: 0.690 Drainge (sq mi): 5611.1 Depth: 200

Location: DST Belows Falls Dam Lat: 43.07837 Long: -72.43746

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	5	7.3	2.28	43	1.19	6.0
25-001	BROWN TROUT	C		FD	LN	S	1	1.5	0.46	434	11.86	300.0
37-002	CHAIN PICKEREL	P		MG	L	M	3	4.4	1.37	1130	30.83	260.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	10	14.5	4.57	202	5.53	14.0
43-026	COMMON SHINER	I		FD	NGL	E	60	86.9	27.40	173	4.74	2.0
43-100	FALLFISH	G		FS	LN	E	71	102.9	32.42	1057	28.85	10.2
77-003	ROCK BASS	C		MG	LN	E	6	8.7	2.74	188	5.14	21.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	53	76.8	24.20	333	9.09	4.3
80-003	YELLOW PERCH	C		MG	V	M	6	8.7	2.74	72	1.98	8.3
80-035	TESSELATED DARTER	BI		FD		M	4	5.8	1.83	28	0.79	5.0

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 219 **Total Rel. Wt. :** 3665

IBI: 42.6

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 121.90 Date: 10/03/2008

Time Fished: 2484 Distance: 1.000 Drainge (sq mi): 5410.1 Depth: 360

Location: UST N. Walpole Dam/(dam pool) Lat: 43.14709 Long: -72.45703

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	4	4.0	3.60	410	3.82	102.5
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	0.90	3140	29.22	3140.0
43-003	GOLDEN SHINER	G	T	MG	L	E	16	16.0	14.41	50	0.47	3.1
43-028	SPOTTAIL SHINER	I	P	MG	L	E	14	14.0	12.61	30	0.28	2.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.90	820	7.63	820.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	1	1.0	0.90	560	5.21	560.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	11	11.0	9.91	4040	37.60	367.2
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	42	42.0	37.84	70	0.65	1.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	2.70	660	6.14	220.0
80-003	YELLOW PERCH	C		MG	V	M	18	18.0	16.22	965	8.98	53.6

No Species: 10 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 111 **Total Rel. Wt. :** 10745

IBI: 19.8

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 125.60 Date: 08/31/2008

Time Fished: 3641 Distance: 1.000 Drainge (sq mi): 5278.6 Depth: 200

Location: DST Charlestown WWTP Lat: 43.19328 Long: -72.44393

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.75	180	7.58	180.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.75	5	0.21	5.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.75	20	0.84	20.0
43-026	COMMON SHINER	I		FD	NGL	E	51	51.0	38.35	100	4.21	1.9
43-100	FALLFISH	G		FS	LN	E	6	6.0	4.51	45	1.89	7.5
77-003	ROCK BASS	C		MG	LN	E	14	14.0	10.53	305	12.84	21.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	21	21.0	15.79	50	2.11	2.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	11	11.0	8.27	100	4.21	9.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	3	3.0	2.26	210	8.84	70.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	1.50	450	18.95	225.0
80-003	YELLOW PERCH	C		MG	V	M	22	22.0	16.54	910	38.32	41.3

No Species: 11 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 133 **Total Rel. Wt. :** 2375

IBI: 33.5

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 131.40 Date: 08/31/2008

Time Fished: 4152 Distance: 0.690 Drainge (sq mi): 5051.2 Depth: 300

Location: UST Black River confluence and Charlestown, NH Lat: 43.26219 Long: -72.42253

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	2	2.9	0.59	14	0.09	5.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	18	26.1	5.34	1883	11.07	72.2
43-026	COMMON SHINER	I		FD	NGL	E	111	160.8	32.94	231	1.36	1.4
43-100	FALLFISH	G		FS	LN	E	14	20.3	4.15	260	1.53	12.8
77-003	ROCK BASS	C		MG	LN	E	8	11.6	2.37	804	4.73	69.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	18	26.1	5.34	318	1.87	12.2
77-006	LARGEMOUTH BASS	C		MG	PN	E	42	60.9	12.46	3129	18.39	51.4
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	17	24.6	5.04	5901	34.68	239.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	11	15.9	3.26	1790	10.52	112.3
80-003	YELLOW PERCH	C		MG	V	M	84	121.7	24.93	2651	15.58	21.7
80-035	TESSELATED DARTER	BI		FD		M	12	17.4	3.56	28	0.17	1.6

No Species: 11 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 337 **Total Rel. Wt. :** 17017

IBI: 33.7

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 133.20 Date: 08/31/2008

Time Fished: 4128 Distance: 0.700 Drainge (sq mi): 5038.1 Depth: 100

Location: DST Glidden Island, NH Lat: 43.28354 Long: -72.40657

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	42	60.0	11.14	1028	35.64	17.1
43-026	COMMON SHINER	I		FD	NGL	E	253	361.5	67.11	457	15.84	1.2
43-100	FALLFISH	G		FS	LN	E	15	21.4	3.98	285	9.90	13.3
77-003	ROCK BASS	C		MG	LN	E	11	15.7	2.92	385	13.37	24.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	28	40.0	7.43	128	4.46	3.2
77-006	LARGEMOUTH BASS	C		MG	PN	E	6	8.6	1.59	50	1.73	5.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.4	0.27	14	0.50	10.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.4	0.27	500	17.33	350.0
80-003	YELLOW PERCH	C		MG	V	M	3	4.3	0.80	7	0.25	1.6
80-035	TESSELATED DARTER	BI		FD		M	17	24.3	4.51	28	0.99	1.1

No Species: 10 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 377 **Total Rel. Wt. :** 2886

IBI: 43.3

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 137.40 Date: 08/30/2008

Time Fished: 3702 Distance: 1.000 Drainge (sq mi): 4997.1 Depth: 400

Location: UST Weathersfield Lat: 43.34568 Long: -72.40069

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	19	19.0	13.10	110	4.35	5.7
40-016	WHITE SUCKER	I	T	FD	NGL	M	21	21.0	14.48	85	3.36	4.0
43-100	FALLFISH	G		FS	LN	E	12	12.0	8.28	110	4.35	9.1
77-003	ROCK BASS	C		MG	LN	E	9	9.0	6.21	80	3.16	8.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	67	67.0	46.21	2055	81.23	30.6
80-003	YELLOW PERCH	C		MG	V	M	5	5.0	3.45	60	2.37	12.0
80-035	TESSELATED DARTER	BI		FD		M	12	12.0	8.28	30	1.19	2.5

No Species: 7 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 145 **Total Rel. Wt. :** 2530

IBI: 23.8

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 137.40 Date: 09/21/2009

Time Fished: 1652 Distance: 1.000 Drainge (sq mi): 4997.1 Depth: 100

Location: UST Weathersfield Lat: 43.34568 Long: -72.40069

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	2.26	1832	35.91	203.5
43-013	CREEK CHUB	I	T	MG	L	E	85	85.0	21.30	114	2.23	1.3
43-028	SPOTTAIL SHINER	I	P	MG	L	E	53	53.0	13.28	48	0.94	0.9
43-100	FALLFISH	G		FS	LN	E	48	48.0	12.03	952	18.66	19.8
77-003	ROCK BASS	C		MG	LN	E	4	4.0	1.00	24	0.47	6.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	23	23.0	5.76	1810	35.48	78.7
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.25	6	0.12	6.0
80-003	YELLOW PERCH	C		MG	V	M	5	5.0	1.25	18	0.35	3.6
80-035	TESSELATED DARTER	BI		FD		M	171	171.0	42.86	298	5.84	1.7

No Species: 9 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 399 **Total Rel. Wt. :** 5102

IBI: 41.8

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 139.50 Date: 08/30/2008

Time Fished: 4062 Distance: 1.000 Drainge (sq mi): 4992.1 Depth: 300

Location: DST Claremont WWTP trib. Lat: 43.36038 Long: -72.40713

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	3	3.0	1.49	20	0.74	6.6
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	0.50	80	2.96	80.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	47	47.0	23.38	600	22.19	12.7
43-100	FALLFISH	G		FS	LN	E	18	18.0	8.96	60	2.22	3.3
77-003	ROCK BASS	C		MG	LN	E	26	26.0	12.94	1070	39.57	41.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	77	77.0	38.31	780	28.85	10.1
80-002	WALLEYE	C		MG		M	1	1.0	0.50	4	0.15	4.0
80-003	YELLOW PERCH	C		MG	V	M	7	7.0	3.48	40	1.48	5.7
80-035	TESSELATED DARTER	BI		FD		M	21	21.0	10.45	50	1.85	2.3

No Species: 9 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 201 **Total Rel. Wt. :** 2704

IBI: 23.5

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 139.50 Date: 09/02/2009

Time Fished: 2038 Distance: 1.000 Drainge (sq mi): 4992.1 Depth: 100

Location: DST Claremont WWTP trib. Lat: 43.36038 Long: -72.40713

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.13	8	0.06	8.0
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.26	442	3.20	221.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	23	23.0	3.01	2400	17.36	104.3
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	1	1.0	0.13	2	0.01	2.0
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	0.13	18	0.13	18.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	304	304.0	39.79	684	4.95	2.2
43-100	FALLFISH	G		FS	LN	E	12	12.0	1.57	1352	9.78	112.6
77-003	ROCK BASS	C		MG	LN	E	9	9.0	1.18	581	4.20	64.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	73	73.0	9.55	6143	44.42	84.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	0.65	1578	11.41	315.6
80-003	YELLOW PERCH	C		MG	V	M	26	26.0	3.40	186	1.35	7.1
80-035	TESSELATED DARTER	BI		FD		M	307	307.0	40.18	434	3.14	1.4

No Species: 12 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 764 **Total Rel. Wt. :** 13828

IBI: 36.8

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 144.40 Date: 08/30/2008

Time Fished: 4019 Distance: 1.000 Drainge (sq mi): 4694.1 Depth: 400

Location: South of Windsor near Cornish/Claremont Border Lat: 43.42803 Long: -72.39474

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	4	4.0	1.35	25	0.99	6.2
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.34	240	9.50	240.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	33	33.0	11.15	65	2.57	1.9
43-100	FALLFISH	G		FS	LN	E	102	102.0	34.46	155	6.14	1.5
77-003	ROCK BASS	C		MG	LN	E	34	34.0	11.49	735	29.11	21.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	98	98.0	33.11	1040	41.19	10.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.34	200	7.92	200.0
80-003	YELLOW PERCH	C		MG	V	M	10	10.0	3.38	30	1.19	3.0
80-035	TESSELATED DARTER	BI		FD		M	13	13.0	4.39	35	1.39	2.6

No Species: 9 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 296 **Total Rel. Wt. :** 2525

IBI: 20.2

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 148.50 Date: 08/29/2008

Time Fished: 3912 Distance: 1.000 Drainge (sq mi): 4689.1 Depth: 300

Location: DST WWTP, Windsor, VT Lat: 43.47303 Long: -72.38529

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	4	4.0	1.56	40	0.33	10.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	16	16.0	6.25	8015	65.38	500.9
43-100	FALLFISH	G		FS	LN	E	86	86.0	33.59	220	1.79	2.5
77-003	ROCK BASS	C		MG	LN	E	8	8.0	3.13	850	6.93	106.2
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	128	128.0	50.00	3020	24.63	23.5
80-003	YELLOW PERCH	C		MG	V	M	9	9.0	3.52	105	0.86	11.6
80-035	TESSELATED DARTER	BI		FD		M	5	5.0	1.95	10	0.08	2.0

No Species: 7 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 256 **Total Rel. Wt. :** 12260

IBI: 22.0

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 153.80 Date: 08/29/2008

Time Fished: 4100 Distance: 1.000 Drainge (sq mi): 4558.1 Depth: 0

Location: North of Windsor near N. Hartland, VT Lat: 43.54864 Long: -72.37940

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	2	2.0	11.11	8	0.08	4.0
25-002	RAINBOW TROUT	C		FD	LN	S	2	2.0	11.11	1850	19.11	925.0
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	5.56	50	0.52	50.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	1	1.0	5.56	1	0.01	1.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	12	12.0	66.67	7771	80.28	647.5

No Species: 5 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 18 **Total Rel. Wt. :** 9680

IBI: 39.5

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 155.60 Date: 08/28/2008

Time Fished: 4461 Distance: 1.000 Drainge (sq mi): 4558.1 Depth: 300

Location: Near N. Hartland, VT Lat: 43.57559 Long: -72.37817

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-003	NORTHERN PIKE	P		MG	L	M	2	2.0	1.71	520	5.51	260.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	23	23.0	19.66	2226	23.57	96.7
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	0.85	2	0.02	2.0
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	2.56	2	0.02	0.6
43-100	FALLFISH	G		FS	LN	E	68	68.0	58.12	210	2.22	3.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.85	2	0.02	2.0
77-003	ROCK BASS	C		MG	LN	E	1	1.0	0.85	1	0.01	1.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	11.0	9.40	6475	68.55	588.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.85	3	0.03	3.0
80-035	TESSELATED DARTER	BI		FD		M	6	6.0	5.13	4	0.04	0.6

No Species: 10 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 117 **Total Rel. Wt. :** 9445

IBI: 42.1

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 161.50 Date: 08/28/2008

Time Fished: 3900 Distance: 1.000 Drainge (sq mi): 4286.1 Depth: 300

Location: DST White River/ Hartford and New Lebanon WWTP Lat: 43.63513 Long: -72.32796

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	3	3.0	1.64	20	0.46	6.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	74	74.0	40.44	1160	26.64	15.6
43-026	COMMON SHINER	I		FD	NGL	E	12	12.0	6.56	40	0.92	3.3
43-100	FALLFISH	G		FS	LN	E	5	5.0	2.73	20	0.46	4.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.55	2	0.05	2.0
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.55	30	0.69	30.0
77-003	ROCK BASS	C		MG	LN	E	9	9.0	4.92	60	1.38	6.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	52	52.0	28.42	2950	67.75	56.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	20	20.0	10.93	60	1.38	3.0
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	2.19	10	0.23	2.5
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	1.09	2	0.05	1.0

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 183 **Total Rel. Wt. :** 4354

IBI: 37.5

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 163.90 Date: 08/27/2008

Time Fished: 3922 Distance: 1.000 Drainge (sq mi): 3368.5 Depth: 400

Location: DST Wilder Dam Lat: 43.66365 Long: -72.30680

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	3.85	520	5.57	520.0
43-026	COMMON SHINER	I		FD	NGL	E	6	6.0	23.08	20	0.21	3.3
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	3.85	850	9.10	850.0
77-003	ROCK BASS	C		MG	LN	E	1	1.0	3.85	140	1.50	140.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	12	12.0	46.15	6012	64.34	501.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	3.85	150	1.61	150.0
80-002	WALLEYE	C		MG		M	2	2.0	7.69	1650	17.66	825.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	3.85	1	0.01	1.0
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	3.85	1	0.01	1.0

No Species: 9 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 26 **Total Rel. Wt. :** 9344

IBI: 25.8

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 165.60 Date: 08/27/2008

Time Fished: 4182 Distance: 1.000 Drainge (sq mi): 3368.5 Depth: 200

Location: Wilder Dam Impoundment Lat: 43.68745 Long: -72.30309

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-003	NORTHERN PIKE	P		MG	L	M	2	2.0	4.88	3180	40.54	1590.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	4.88	100	1.27	50.0
43-026	COMMON SHINER	I		FD	NGL	E	5	5.0	12.20	10	0.13	2.0
77-002	BLACK CRAPPIE	C		MG	PN	E	8	8.0	19.51	1965	25.05	245.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	3	3.0	7.32	1060	13.51	353.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	6	6.0	14.63	40	0.51	6.6
80-003	YELLOW PERCH	C		MG	V	M	15	15.0	36.59	1490	18.99	99.3

No Species: 7 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 41 **Total Rel. Wt. :** 7845

IBI: 25.3

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 165.60 Date: 09/01/2009

Time Fished: 3584 Distance: 1.000 Drainge (sq mi): 3368.5 Depth: 100

Location: Wilder Dam Impoundment Lat: 43.68745 Long: -72.30309

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.42	1	0.00	1.0
37-003	NORTHERN PIKE	P		MG	L	M	18	18.0	7.59	690	2.94	38.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	7	7.0	2.95	4654	19.85	664.8
43-003	GOLDEN SHINER	G	T	MG	L	E	10	10.0	4.22	169	0.72	16.9
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.42	2	0.01	2.0
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.42	102	0.44	102.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.42	462	1.97	462.0
77-003	ROCK BASS	C		MG	LN	E	44	44.0	18.57	4912	20.95	111.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	21	21.0	8.86	3089	13.17	147.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	7	7.0	2.95	66	0.28	9.4
80-003	YELLOW PERCH	C		MG	V	M	125	125.0	52.74	9300	39.66	74.4
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.42	1	0.00	1.0

No Species: 12 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 237 **Total Rel. Wt. :** 23448

IBI: 30.9

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 166.30 Date: 10/11/2008

Time Fished: 2920 Distance: 1.000 Drainge (sq mi): 3368.5 Depth: 360

Location: DST Hanover, NH WWTP Lat: 43.69410 Long: -72.30225

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	2.00	40	0.93	40.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	1	1.0	2.00	4	0.09	4.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	2.00	820	19.13	820.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	2.00	4	0.09	4.0
77-003	ROCK BASS	C		MG	LN	E	2	2.0	4.00	223	5.20	111.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	5	5.0	10.00	2465	57.51	493.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	6.00	20	0.47	6.6
80-003	YELLOW PERCH	C		MG	V	M	36	36.0	72.00	710	16.57	19.7

No Species: 8 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 50 **Total Rel. Wt. :** 4286

IBI: 16.9

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 166.30 Date: 09/01/2009

Time Fished: 3330 Distance: 1.000 Drainge (sq mi): 3368.5 Depth: 100

Location: DST Hanover, NH WWTP Lat: 43.69410 Long: -72.30225

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-003	NORTHERN PIKE	P		MG	L	M	5	5.0	0.92	626	5.22	125.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	1.10	3506	29.26	584.3
43-003	GOLDEN SHINER	G	T	MG	L	E	18	18.0	3.31	70	0.58	3.8
43-026	COMMON SHINER	I		FD	NGL	E	47	47.0	8.64	72	0.60	1.5
43-100	FALLFISH	G		FS	LN	E	8	8.0	1.47	20	0.17	2.5
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.18	344	2.87	344.0
77-003	ROCK BASS	C		MG	LN	E	6	6.0	1.10	1014	8.46	169.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	5	5.0	0.92	332	2.77	66.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	4	4.0	0.74	1416	11.82	354.0
80-003	YELLOW PERCH	C		MG	V	M	427	427.0	78.49	4559	38.05	10.6
80-035	TESSELATED DARTER	BI		FD		M	17	17.0	3.13	24	0.20	1.4

No Species: 11 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 544 **Total Rel. Wt. :** 11983

IBI: 30.0

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 170.90 Date: 10/04/2008

Time Fished: 2378 Distance: 1.000 Drainge (sq mi): 3317.3 Depth: 730

Location: UST Hanover, NH Lat: 43.73931 Long: -72.24960

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	4.65	90	10.47	45.0
43-035	MIMIC SHINER	I	I	MG		E	1	1.0	2.33	2	0.23	2.0
43-115	BRIDLE SHINER	I		MG	V	M	4	4.0	9.30	17	1.98	4.2
77-003	ROCK BASS	C		MG	LN	E	1	1.0	2.33	4	0.47	4.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	7	7.0	16.28	50	5.81	7.1
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	10	10.0	23.26	17	1.98	1.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	2.33	50	5.81	50.0
80-003	YELLOW PERCH	C		MG	V	M	17	17.0	39.53	630	73.26	37.0

No Species: 8 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 43 **Total Rel. Wt. :** 860

IBI: 18.6

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 179.20 Date: 10/04/2008

Time Fished: 2100 Distance: 1.000 Drainge (sq mi): 3137.1 Depth: 610

Location: DST N. Thetford boat ramp/ near E. Thetford, VT Lat: 43.83356 Long: -72.18091

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
77-003	ROCK BASS	C		MG	LN	E	1	1.0	5.88	55	10.89	55.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	1	1.0	5.88	280	55.45	280.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	11.76	15	2.97	7.5
80-003	YELLOW PERCH	C		MG	V	M	13	13.0	76.47	155	30.69	11.9

No Species: 4 **Nat. Species:** 0 **Hybrids:** 0 **Total Counted:** 17 **Total Rel. Wt. :** 505

IBI: 13.0

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 181.40 Date: 09/09/2009

Time Fished: 2559 Distance: 1.000 Drainge (sq mi): 3130.0 Depth: 100

Location: Lat: 44.63623 Long: -71.56268

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	1.12	20	0.68	20.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	11	11.0	12.36	1998	67.66	181.6
43-100	FALLFISH	G		FS	LN	E	63	63.0	70.79	100	3.39	1.5
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	1.12	10	0.34	10.0
60-001	BURBOT	C		FD	NGL	S	6	6.0	6.74	590	19.98	98.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	1.12	8	0.27	8.0
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	4.49	208	7.04	52.0
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	1.12	4	0.14	4.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	1	1.0	1.12	15	0.51	15.0

No Species: 9 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 89 **Total Rel. Wt. :** 2953

IBI: 48.6

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 194.40 Date: 10/06/2008

Time Fished: 2298 Distance: 1.000 Drainge (sq mi): 3018.4 Depth: 350

Location: DST Bradford, NH WWTP Lat: 43.98982 Long: -72.11422

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
43-028	SPOTTAIL SHINER	I	P	MG	L	E	3	3.0	7.50	12	1.56	4.0
43-100	FALLFISH	G		FS	LN	E	16	16.0	40.00	25	3.25	1.5
77-003	ROCK BASS	C		MG	LN	E	3	3.0	7.50	70	9.09	23.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	3	3.0	7.50	540	70.13	180.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	7	7.0	17.50	75	9.74	10.7
80-003	YELLOW PERCH	C		MG	V	M	4	4.0	10.00	25	3.25	6.2
80-035	TESSELATED DARTER	BI		FD		M	4	4.0	10.00	23	2.99	5.7

No Species: 7 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 40 **Total Rel. Wt. :** 770

IBI: 28.8

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 200.70 Date: 10/05/2008

Time Fished: 2427 Distance: 1.000 Drainge (sq mi): 2824.1 Depth: 400

Location: UST old bridge piers, near Bedell Bridge State Park Lat: 44.04798 Long: -72.06636

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	6.56	30	15.63	7.5
43-028	SPOTTAIL SHINER	I	P	MG	L	E	20	20.0	32.79	24	12.50	1.2
43-100	FALLFISH	G		FS	LN	E	24	24.0	39.34	30	15.63	1.2
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	1.64	40	20.83	40.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	2	2.0	3.28	8	4.17	4.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	6.56	20	10.42	5.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	3.28	20	10.42	10.0
80-035	TESSELATED DARTER	BI		FD		M	4	4.0	6.56	20	10.42	5.0

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 61 **Total Rel. Wt. :** 192

IBI: 39.3

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 206.40 Date: 09/02/2009

Time Fished: 2794 Distance: 1.000 Drainge (sq mi): 2749.0 Depth: 0

Location: @ the oxbow; North Haverhill Lat: 44.09145 Long: -72.03102

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-003	NORTHERN PIKE	P		MG	L	M	4	4.0	0.70	8300	48.79	2075.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	33	33.0	5.78	140	0.82	4.2
43-035	MIMIC SHINER	I	I	MG		E	1	1.0	0.18	1	0.01	1.0
43-043	BLUNTNOSE MINNOW		T				2	2.0	0.35	2	0.01	1.0
43-100	FALLFISH	G		FS	LN	E	344	344.0	60.25	665	3.91	1.9
77-003	ROCK BASS	C		MG	LN	E	3	3.0	0.53	770	4.53	256.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	8	8.0	1.40	4325	25.42	540.6
80-002	WALLEYE	C		MG		M	2	2.0	0.35	1710	10.05	855.0
80-003	YELLOW PERCH	C		MG	V	M	86	86.0	15.06	973	5.72	11.3
80-035	TESSELATED DARTER	BI		FD		M	88	88.0	15.41	126	0.74	1.4

No Species: 10 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 571 **Total Rel. Wt. :** 17012

IBI: 39.1

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 213.10 Date: 10/06/2008

Time Fished: 2128 Distance: 1.000 Drainge (sq mi): 2749.4 Depth: 570

Location: DST Amonoosuc River confluence/ DST SR 302 bridge Lat: 44.14986 Long: -72.04275

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	8	8.0	21.62	1205	87.13	150.6
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	2	2.0	5.41	20	1.45	10.0
43-100	FALLFISH	G		FS	LN	E	7	7.0	18.92	30	2.17	4.2
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	2.70	10	0.72	10.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	13	13.0	35.14	75	5.42	5.7
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	2.70	10	0.72	10.0
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	8.11	20	1.45	6.6
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	5.41	13	0.94	6.5

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 37 **Total Rel. Wt. :** 1383

IBI: 40.4

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 217.60 Date: 10/06/2008

Time Fished: 2645 Distance: 1.000 Drainge (sq mi): 2224.7 Depth: 310

Location: DST Ryegate dam Lat: 44.20300 Long: -72.05851

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	5.41	1075	37.42	537.5
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	1	1.0	2.70	10	0.35	10.0
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	2.70	8	0.28	8.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	3	3.0	8.11	110	3.83	36.6
77-003	ROCK BASS	C		MG	LN	E	11	11.0	29.73	650	22.62	59.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	1	1.0	2.70	25	0.87	25.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	5.41	140	4.87	70.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	6	6.0	16.22	330	11.49	55.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	8	8.0	21.62	500	17.40	62.5
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	5.41	25	0.87	12.5

No Species: 10 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 37 **Total Rel. Wt. :** 2873

IBI: 34.7

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 221.70 Date: 10/07/2008

Time Fished: 3059 Distance: 1.000 Drainge (sq mi): 2205.9 Depth: 160

Location: DST McIndoe Station Dam Lat: 44.45485 Long: -72.05856

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-010	ATLANTIC SALMON	C		A	LN	S	2	2.0	2.35	165	2.73	82.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	13	13.0	15.29	4400	72.85	338.4
43-026	COMMON SHINER	I		FD	NGL	E	2	2.0	2.35	60	0.99	30.0
43-100	FALLFISH	G		FS	LN	E	51	51.0	60.00	500	8.28	9.8
77-003	ROCK BASS	C		MG	LN	E	7	7.0	8.24	110	1.82	15.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	6	6.0	7.06	790	13.08	131.6
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	1.18	5	0.08	5.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	1.18	8	0.13	8.0
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	2.35	2	0.03	1.0

No Species: 9 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 85 **Total Rel. Wt. :** 6040

IBI: 60.3

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 227.10 Date: 10/07/2008

Time Fished: 1741 Distance: 1.000 Drainge (sq mi): 2145.8 Depth: 250

Location: DST Passumpsic River confluence Lat: 44.31081 Long: -72.03238

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	2.33	2580	12.18	2580.0
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	2.33	100	0.47	100.0
25-010	ATLANTIC SALMON	C		A	LN	S	5	5.0	11.63	455	2.15	91.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	27	27.0	62.79	17490	82.54	647.7
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	2	2.0	4.65	55	0.26	27.5
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	2.33	410	1.93	410.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	2	2.0	4.65	50	0.24	25.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	4	4.0	9.30	50	0.24	12.5

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 43 **Total Rel. Wt. :** 21190

IBI: 57.5

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 228.50 Date: 10/07/2008

Time Fished: 2862 Distance: 1.000 Drainge (sq mi): 1635.7 Depth: 200

Location: DST Comeford Station Dam Lat: 44.32188 Long: -72.01012

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.36	1660	25.40	1660.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	11	11.0	4.01	1550	23.72	140.9
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.0	0.36	140	2.14	140.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.36	20	0.31	20.0
43-100	FALLFISH	G		FS	LN	E	2	2.0	0.73	30	0.46	15.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.36	50	0.77	50.0
77-002	BLACK CRAPPIE	C		MG	PN	E	2	2.0	0.73	40	0.61	20.0
77-003	ROCK BASS	C		MG	LN	E	5	5.0	1.82	830	12.70	166.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	4	4.0	1.46	595	9.10	148.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	27	27.0	9.85	400	6.12	14.8
80-003	YELLOW PERCH	C		MG	V	M	213	213.0	77.74	1150	17.60	5.4
90-003	SLIMY SCULPIN	BI		FS	NGL	S	6	6.0	2.19	70	1.07	11.6

No Species: 12 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 274 **Total Rel. Wt. :** 6535

IBI: 46.0

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 235.90 Date: 09/07/2008

Time Fished: 4933 Distance: 1.000 Drainge (sq mi): 1614.2 Depth: 300

Location: DST Moore Dam, Littleton, NH Lat: 44.33926 Long: -71.88172

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.18	360	1.50	360.0
25-010	ATLANTIC SALMON	C		A	LN	S	2	2.0	0.36	1090	4.53	545.0
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	0.36	2	0.01	1.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	18	18.0	3.24	17940	74.64	996.6
43-003	GOLDEN SHINER	G	T	MG	L	E	7	7.0	1.26	570	2.37	81.4
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	0.54	6	0.02	2.0
43-035	MIMIC SHINER	I	I	MG		E	1	1.0	0.18	2	0.01	2.0
43-100	FALLFISH	G		FS	LN	E	13	13.0	2.34	10	0.04	0.7
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.18	130	0.54	130.0
77-003	ROCK BASS	C		MG	LN	E	8	8.0	1.44	1222	5.08	152.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	10	10.0	1.80	640	2.66	64.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	0.36	40	0.17	20.0
80-003	YELLOW PERCH	C		MG	V	M	485	485.0	87.39	2020	8.40	4.1
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.18	2	0.01	2.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	1	1.0	0.18	2	0.01	2.0

No Species: 15 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 555 **Total Rel. Wt. :** 24036

IBI: 48.9

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 243.80 Date: 09/06/2008

Time Fished: 3134 Distance: 1.000 Drainge (sq mi): 1557.1 Depth: 999

Location: Upper end Moore Reservoir, Littleton, NH Lat: 44.39891 Long: -71.77831

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	0.18	270	2.16	270.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	4	4.0	0.74	2240	17.93	560.0
43-003	GOLDEN SHINER	G	T	MG	L	E	21	21.0	3.87	50	0.40	2.3
43-100	FALLFISH	G		FS	LN	E	18	18.0	3.31	90	0.72	5.0
77-001	WHITE CRAPPIE			MG		E	10	10.0	1.84	26	0.21	2.6
77-003	ROCK BASS	C		MG	LN	E	30	30.0	5.52	160	1.28	5.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	33	33.0	6.08	5490	43.94	166.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	19	19.0	3.50	144	1.15	7.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	224	224.0	41.25	1030	8.24	4.6
80-003	YELLOW PERCH	C		MG	V	M	182	182.0	33.52	2990	23.93	16.4
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.18	4	0.03	4.0

No Species: 11 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 543 **Total Rel. Wt. :** 12494

IBI: 28.0

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 247.00 Date: 09/06/2008

Time Fished: 4840 Distance: 1.000 Drainge (sq mi): 1513.5 Depth: 150

Location: DST Gilman Project Dam, Gilman, VT Lat: 44.41134 Long: -71.72248

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.60	180	0.35	180.0
25-002	RAINBOW TROUT	C		FD	LN	S	2	2.0	1.19	420	0.82	210.0
25-010	ATLANTIC SALMON	C		A	LN	S	2	2.0	1.19	1000	1.96	500.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.60	340	0.67	340.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	44	44.0	26.19	37130	72.71	843.8
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	1	1.0	0.60	340	0.67	340.0
43-026	COMMON SHINER	I		FD	NGL	E	4	4.0	2.38	11	0.02	2.7
43-100	FALLFISH	G		FS	LN	E	11	11.0	6.55	366	0.72	33.2
60-001	BURBOT	C		FD	NGL	S	8	8.0	4.76	440	0.86	55.0
77-003	ROCK BASS	C		MG	LN	E	31	31.0	18.45	4940	9.67	159.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	14	14.0	8.33	4736	9.27	338.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.60	4	0.01	4.0
80-003	YELLOW PERCH	C		MG	V	M	45	45.0	26.79	1150	2.25	25.5
80-035	TESSELATED DARTER	BI		FD		M	3	3.0	1.79	6	0.01	2.0

No Species: 14 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 168 **Total Rel. Wt. :** 51063

IBI: 52.8

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 250.90 Date: 09/02/2009

Time Fished: 2624 Distance: 1.000 Drainge (sq mi): 1406.0 Depth: 0

Location: Ust. Gilman Project Res; Dst Lancaster Lat: 44.43558 Long: -71.66710

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	54	54.0	18.12	1410	48.92	26.1
43-026	COMMON SHINER	I		FD	NGL	E	61	61.0	20.47	462	16.03	7.5
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.34	15	0.52	15.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	41	41.0	13.76	310	10.76	7.5
80-003	YELLOW PERCH	C		MG	V	M	42	42.0	14.09	515	17.87	12.2
80-035	TESSELATED DARTER	BI		FD		M	99	99.0	33.22	170	5.90	1.7

No Species: 6 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 298 **Total Rel. Wt. :** 2882

IBI: 51.3

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 257.90 Date: 08/30/2008

Time Fished: 3868 Distance: 1.000 Drainge (sq mi): 1330.5 Depth: 280

Location: DST Lancaster WWTP, Lancaster, NH Lat: 44.48413 Long: -71.60569

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	8	8.0	6.25	140	2.16	17.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	15	15.0	11.72	5874	90.45	391.6
43-100	FALLFISH	G		FS	LN	E	29	29.0	22.66	70	1.08	2.4
60-001	BURBOT	C		FD	NGL	S	4	4.0	3.13	60	0.92	15.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	3.91	34	0.52	6.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	33	33.0	25.78	214	3.30	6.4
80-003	YELLOW PERCH	C		MG	V	M	29	29.0	22.66	90	1.39	3.1
80-035	TESSELATED DARTER	BI		FD		M	5	5.0	3.91	12	0.18	2.4

No Species: 8 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 128 **Total Rel. Wt. :** 6494

IBI: 48.8

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 267.80 Date: 10/08/2008

Time Fished: 3606 Distance: 1.000 Drainge (sq mi): 1194.7 Depth: 270

Location: DST Wyoming Dam (breached), Guildhall, VT Lat: 44.56217 Long: -71.56601

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.70	365	35.37	365.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	1.41	50	4.84	25.0
43-026	COMMON SHINER	I		FD	NGL	E	33	33.0	23.24	110	10.66	3.3
43-100	FALLFISH	G		FS	LN	E	82	82.0	57.75	220	21.32	2.6
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	1.41	40	3.88	20.0
60-001	BURBOT	C		FD	NGL	S	6	6.0	4.23	135	13.08	22.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	4.23	77	7.46	12.8
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	1.41	15	1.45	7.5
80-035	TESSELATED DARTER	BI		FD		M	8	8.0	5.63	20	1.94	2.5

No Species: 9 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 142 **Total Rel. Wt. :** 1032

IBI: 55.3

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 291.00 Date: 08/30/2008

Time Fished: 2436 Distance: 1.000 Drainge (sq mi): 651.5 Depth: 75

Location: UST M. Stratford, NH bridge Lat: 44.75410 Long: -71.62522

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	8	8.0	4.08	3415	44.45	426.8
25-002	RAINBOW TROUT	C		FD	LN	S	2	2.0	1.02	240	3.12	120.0
25-009	ROUND WHITEFISH	C	I	FD	L	S	4	4.0	2.04	910	11.85	227.5
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	0.51	50	0.65	50.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	17	17.0	8.67	2600	33.85	152.9
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	25	25.0	12.76	82	1.07	3.2
43-100	FALLFISH	G		FS	LN	E	6	6.0	3.06	40	0.52	6.6
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.51	10	0.13	10.0
80-035	TESSELATED DARTER	BI		FD		M	6	6.0	3.06	10	0.13	1.6
90-003	SLIMY SCULPIN	BI		FS	NGL	S	126	126.0	64.29	325	4.23	2.5

No Species: 10 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 196 **Total Rel. Wt. :** 7682

IBI: 74.5

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 302.20 Date: 09/01/2009

Time Fished: 3451 Distance: 1.000 Drainge (sq mi): 584.0 Depth: 0

Location: Dst. Colebrook, NH; Dst. Simms Stream Lat: 44.87688 Long: -71.52903

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.52	210	1.33	210.0
25-002	RAINBOW TROUT	C		FD	LN	S	6	6.0	3.09	1450	9.15	241.6
25-009	ROUND WHITEFISH	C	I	FD	L	S	2	2.0	1.03	520	3.28	260.0
25-011	LANDLOCKED SALMON	C		FD	LN	S	1	1.0	0.52	45	0.28	45.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.52	250	1.58	250.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	53	53.0	27.32	12815	80.91	241.7
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.52	1	0.01	1.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	65	65.0	33.51	70	0.44	1.0
43-026	COMMON SHINER	I		FD	NGL	E	4	4.0	2.06	5	0.03	1.2
43-100	FALLFISH	G		FS	LN	E	27	27.0	13.92	250	1.58	9.2
60-001	BURBOT	C		FD	NGL	S	5	5.0	2.58	155	0.98	31.0
80-035	TESSELATED DARTER	BI		FD		M	8	8.0	4.12	10	0.06	1.2
90-003	SLIMY SCULPIN	BI		FS	NGL	S	20	20.0	10.31	58	0.37	2.9

No Species: 13 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 194 **Total Rel. Wt. :** 15839

IBI: 71.6

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 307.10 Date: 08/29/2008

Time Fished: 3742 Distance: 1.000 Drainge (sq mi): 487.8 Depth: 120

Location: UST Colebrook, NH/ DST Rest Stop access Lat: 44.91690 Long: -71.50236

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-009	ROUND WHITEFISH	C	I	FD	L	S	5	5.0	2.22	314	1.61	62.8
25-010	ATLANTIC SALMON	C		A	LN	S	3	3.0	1.33	4	0.02	1.3
37-002	CHAIN PICKEREL	P		MG	L	M	3	3.0	1.33	150	0.77	50.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	101	101.0	44.89	18464	94.88	182.8
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	1	1.0	0.44	4	0.02	4.0
43-026	COMMON SHINER	I		FD	NGL	E	8	8.0	3.56	44	0.23	5.5
43-082	Northern Redbelly Dace	G		MG	NGL	M	8	8.0	3.56	10	0.05	1.2
43-100	FALLFISH	G		FS	LN	E	82	82.0	36.44	282	1.45	3.4
60-001	BURBOT	C		FD	NGL	S	2	2.0	0.89	140	0.72	70.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	2	2.0	0.89	4	0.02	2.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.89	30	0.15	15.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.44	2	0.01	2.0
80-035	TESSELATED DARTER	BI		FD		M	7	7.0	3.11	12	0.06	1.7

No Species: 13 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 225 **Total Rel. Wt. :** 19460

IBI: 71.7

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 313.70 Date: 08/29/2008

Time Fished: 3367 Distance: 1.000 Drainge (sq mi): 377.2 Depth: 220

Location: DST Canaan Dam, Canaan, VT Lat: 44.99283 Long: -71.53701

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	5	5.0	3.88	1360	5.53	272.0
25-002	RAINBOW TROUT	C		FD	LN	S	2	2.0	1.55	380	1.54	190.0
25-009	ROUND WHITEFISH	C	I	FD	L	S	44	44.0	34.11	9200	37.40	209.0
25-010	ATLANTIC SALMON	C		A	LN	S	2	2.0	1.55	80	0.33	40.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	24	24.0	18.60	13270	53.94	552.9
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	1.55	10	0.04	5.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	4	4.0	3.10	18	0.07	4.5
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	2.33	5	0.02	1.6
43-082	Northern Redbelly Dace	G		MG	NGL	M	2	2.0	1.55	4	0.02	2.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	5	5.0	3.88	14	0.06	2.8
43-100	FALLFISH	G		FS	LN	E	5	5.0	3.88	30	0.12	6.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	1.55	70	0.28	35.0
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.78	90	0.37	90.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	28	28.0	21.71	70	0.28	2.5

No Species: 14 **Nat. Species:** 11 **Hybrids:** 0 **Total Counted:** 129 **Total Rel. Wt. :** 24601

IBI: 72.9

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 322.00 Date: 08/28/2008

Time Fished: 2731 Distance: 1.000 Drainge (sq mi): 259.1 Depth: 100

Location: UST Canaan Dam/UST SR 3 bridge, Stewartstown, NH Lat: 45.02092 Long: -71.46365

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-003	BROOK TROUT	C		FD	L	S	17	17.0	13.18	1980	63.89	116.4
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	0.78	60	1.94	60.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	4.65	570	18.39	95.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	9	9.0	6.98	70	2.26	7.7
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	9	9.0	6.98	24	0.77	2.6
43-100	FALLFISH	G		FS	LN	E	10	10.0	7.75	55	1.77	5.5
47-005	BROWN BULLHEAD	G	T	MG	P	E	7	7.0	5.43	80	2.58	11.4
60-001	BURBOT	C		FD	NGL	S	5	5.0	3.88	70	2.26	14.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	65	65.0	50.39	190	6.13	2.9

No Species: 9 **Nat. Species:** 9 **Hybrids:** 0 **Total Counted:** 129 **Total Rel. Wt. :** 3099

IBI: 78.6

Appendix C-3
Fish Species List

River: 80-001 Connecticut River RM: 323.60 Date: 08/28/2008

Time Fished: 2893 Distance: 1.000 Drainge (sq mi): 180.6 Depth: 120

Location: DST Lake Francis, NH Lat: 45.05480 Long: -71.42124

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	0.71	745	5.39	745.0
25-002	RAINBOW TROUT	C		FD	LN	S	5	5.0	3.55	1040	7.53	208.0
25-003	BROOK TROUT	C		FD	L	S	11	11.0	7.80	3196	23.14	290.5
25-009	ROUND WHITEFISH	C	I	FD	L	S	14	14.0	9.93	4890	35.40	349.2
25-010	ATLANTIC SALMON	C		A	LN	S	15	15.0	10.64	1180	8.54	78.6
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.71	480	3.47	480.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	23	23.0	16.31	1630	11.80	70.8
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	4	4.0	2.84	200	1.45	50.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	1	1.0	0.71	2	0.01	2.0
43-026	COMMON SHINER	I		FD	NGL	E	2	2.0	1.42	20	0.14	10.0
43-082	Northern Redbelly Dace	G		MG	NGL	M	4	4.0	2.84	8	0.06	2.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	4	4.0	2.84	12	0.09	3.0
43-100	FALLFISH	G		FS	LN	E	11	11.0	7.80	130	0.94	11.8
47-005	BROWN BULLHEAD	G	T	MG	P	E	3	3.0	2.13	180	1.30	60.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	42	42.0	29.79	100	0.72	2.3

No Species: 15 **Nat. Species:** 12 **Hybrids:** 0 **Total Counted:** 141 **Total Rel. Wt. :** 13813

IBI: 66.9

Appendix C-3
Fish Species List

River: 80-100 Westfield River RM: 15.90 Date: 07/21/2008

Time Fished: 3036 Distance: 1.000 Drainge (sq mi): 352.1 Depth: 150

Location: 1 mi. DST I-90 bridge Lat: 42.14071 Long: -72.80588

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	8	8.0	3.56	2860	9.48	357.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	10	10.0	4.44	11660	38.66	1166.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	1	1.0	0.44	12	0.04	12.0
50-001	AMERICAN EEL	C		C		M	68	68.0	30.22	10540	34.95	155.0
77-003	ROCK BASS	C		MG	LN	E	14	14.0	6.22	310	1.03	22.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	77	77.0	34.22	3320	11.01	43.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.44	12	0.04	12.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	45	45.0	20.00	1440	4.77	32.0
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.44	4	0.01	4.0

No Species: 9 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 225 **Total Rel. Wt. :** 30158

IBI: 36.3

Appendix C-3
Fish Species List

River: 80-100 Westfield River RM: 34.80 Date: 09/01/2009

Time Fished: 2995 Distance: 1.000 Drainge (sq mi): 143.4 Depth: 60

Location: UST confl. of Dead Branch, Knightville Dam reservoir Lat: 42.34208 Long: -72.84721

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	8	8.0	2.53	4000	27.38	500.0
25-002	RAINBOW TROUT	C		FD	LN	S	12	12.0	3.80	7510	51.40	625.8
25-010	ATLANTIC SALMON	C		A	LN	S	2	2.0	0.63	120	0.82	60.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	40	40.0	12.66	1540	10.54	38.5
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	62	62.0	19.62	145	0.99	2.3
43-026	COMMON SHINER	I		FD	NGL	E	153	153.0	48.42	922	6.31	6.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	10	10.0	3.16	30	0.21	3.0
43-100	FALLFISH	G		FS	LN	E	21	21.0	6.65	194	1.33	9.2
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.32	80	0.55	80.0
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.32	10	0.07	10.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	6	6.0	1.90	60	0.41	10.0

No Species: 11 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 316 **Total Rel. Wt. :** 14611

IBI: 60.3

Appendix C-3
Fish Species List

River: 80-200 Chicopee River RM: 1.30 Date: 09/16/2009

Time Fished: 3703 Distance: 1.000 Drainge (sq mi): 188.4 Depth: 190

Location: UST Chicopee Dam, Chicopee, MA Lat: 42.16108 Long: -72.57176

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	12	12.0	6.94	870	6.25	72.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	2.89	2470	17.74	494.0
43-003	GOLDEN SHINER	G	T	MG	L	E	27	27.0	15.61	45	0.32	1.6
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.58	2	0.01	2.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	2	2.0	1.16	4	0.03	2.0
50-001	AMERICAN EEL	C		C		M	21	21.0	12.14	1520	10.92	72.3
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.58	2	0.01	2.0
77-002	BLACK CRAPPIE	C		MG	PN	E	2	2.0	1.16	6	0.04	3.0
77-003	ROCK BASS	C		MG	LN	E	11	11.0	6.36	680	4.88	61.8
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	3	3.0	1.73	140	1.01	46.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	23	23.0	13.29	5545	39.82	241.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	20	20.0	11.56	1030	7.40	51.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	33	33.0	19.08	760	5.46	23.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	4	4.0	2.31	190	1.36	47.5
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	3.47	650	4.67	108.3
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	1.16	11	0.08	5.5

No Species: 16 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 173 **Total Rel. Wt. :** 13925

IBI: 25.9

Appendix C-3
Fish Species List

River: 80-200 Chicopee River RM: 6.50 Date: 07/17/2008

Time Fished: 3991 Distance: 1.000 Drainge (sq mi): 701.4 Depth: 210

Location: Immediately UST I-91 bridge, Chicopee, MA Lat: 42.15698 Long: -72.55166

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	21	21.0	6.40	6972	22.65	332.0
43-100	FALLFISH	G		FS	LN	E	48	48.0	14.63	584	1.90	12.1
50-001	AMERICAN EEL	C		C		M	59	59.0	17.99	4260	13.84	72.2
77-002	BLACK CRAPPIE	C		MG	PN	E	6	6.0	1.83	860	2.79	143.3
77-003	ROCK BASS	C		MG	LN	E	24	24.0	7.32	1012	3.29	42.1
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	38	38.0	11.59	2710	8.80	71.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	9	9.0	2.74	6214	20.19	690.4
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	52	52.0	15.85	5380	17.48	103.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	15	15.0	4.57	780	2.53	52.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	43	43.0	13.11	1302	4.23	30.2
77-999	HYBRID X SUNFISH	I		MG		E	5	5.0	1.52	692	2.25	138.4
80-035	TESSELATED DARTER	BI		FD		M	8	8.0	2.44	14	0.05	1.7

No Species: 12 **Nat. Species:** 5 **Hybrids:** 1 **Total Counted:** 328 **Total Rel. Wt. :** 30780

IBI: 19.8

Appendix C-3
Fish Species List

River: 80-300 Deerfield River RM: 15.00 Date: 07/20/2008

Time Fished: 4420 Distance: 1.000 Drainge (sq mi): 504.7 Depth: 300

Location: DST Wilcox Hollow Access, Deerfield Reservoir Lat: 42.58014 Long: -72.71428

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	371	371.0	70.94	17540	72.38	47.2
43-026	COMMON SHINER	I		FD	NGL	E	14	14.0	2.68	80	0.33	5.7
43-028	SPOTTAIL SHINER	I	P	MG	L	E	30	30.0	5.74	132	0.54	4.4
50-001	AMERICAN EEL	C		C		M	6	6.0	1.15	3100	12.79	516.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	87	87.0	16.63	3302	13.63	37.9
80-035	TESSELATED DARTER	BI		FD		M	15	15.0	2.87	80	0.33	5.3

No Species: 6 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 523 **Total Rel. Wt. :** 24234

IBI: 28.9

Appendix C-3
Fish Species List

River: 80-400 West River RM: 1.00 Date: 09/08/2008

Time Fished: 4236 Distance: 1.000 Drainge (sq mi): 419.0 Depth: 250

Location: DST I-91 bridge, Brattleboro, VT Lat: 42.87123 Long: -72.56663

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	16	16.0	2.90	62	0.15	3.8
20-006	AMERICAN SHAD	PL		A	PS	M	1	1.0	0.18	2	0.00	2.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	23	23.0	4.17	13856	33.33	602.4
43-035	MIMIC SHINER	I	I	MG		E	288	288.0	52.17	310	0.75	1.0
43-100	FALLFISH	G		FS	LN	E	9	9.0	1.63	100	0.24	11.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	2	2.0	0.36	1200	2.89	600.0
77-002	BLACK CRAPPIE	C		MG	PN	E	2	2.0	0.36	540	1.30	270.0
77-003	ROCK BASS	C		MG	LN	E	42	42.0	7.61	1102	2.65	26.2
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	100	100.0	18.12	11650	28.02	116.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	10	10.0	1.81	7130	17.15	713.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	18	18.0	3.26	3726	8.96	207.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	14	14.0	2.54	1200	2.89	85.7
80-003	YELLOW PERCH	C		MG	V	M	27	27.0	4.89	694	1.67	25.7

No Species: 13 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 552 **Total Rel. Wt. :** 41572

IBI: 31.4

Appendix C-3
Fish Species List

River: 80-400 West River RM: 6.10 Date: 09/08/2008

Time Fished: 3349 Distance: 1.000 Drainge (sq mi): 403.0 Depth: 200

Location: DST Dummerston Covered Bridge, Dummerston, VT Lat: 42.92799 Long: -72.61064

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-007	AMER BROOK LAMPREY		R				1	1.0	0.46	4	0.03	4.0
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	0.46	40	0.29	40.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	12	12.0	5.48	8320	60.68	693.3
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	3	3.0	1.37	12	0.09	4.0
43-022	ROSYFACE SHINER	I	I	FD		E	20	20.0	9.13	17	0.12	0.8
43-026	COMMON SHINER	I		FD	NGL	E	3	3.0	1.37	2	0.01	0.6
43-100	FALLFISH	G		FS	LN	E	84	84.0	38.36	63	0.46	0.7
77-003	ROCK BASS	C		MG	LN	E	7	7.0	3.20	182	1.33	26.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	85	85.0	38.81	5060	36.90	59.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	0.91	4	0.03	2.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.46	8	0.06	8.0

No Species: 11 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 219 **Total Rel. Wt. :** 13712

IBI: 48.2

Appendix C-3
Fish Species List

River: 80-500 White River RM: 1.80 Date: 08/18/2009

Time Fished: 2865 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 160

Location: Lat: 43.65977 Long: -72.33985

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	1.45	20	0.41	20.0
25-001	BROWN TROUT	C		FD	LN	S	1	1.0	1.45	100	2.05	100.0
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	1.45	880	18.02	880.0
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	1.45	100	2.05	100.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	52	52.0	75.36	225	4.61	4.3
77-003	ROCK BASS	C		MG	LN	E	1	1.0	1.45	340	6.96	340.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	11	11.0	15.94	2439	49.94	221.7
80-002	WALLEYE	C		MG		M	1	1.0	1.45	780	15.97	780.0

No Species: 8 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 69 **Total Rel. Wt. :** 4884

IBI: 58.2

Appendix C-3
Fish Species List

River: 80-500 White River RM: 4.70 Date: 08/19/2009

Time Fished: 2987 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 110

Location: Lat: 43.68805 Long: -72.40082

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	1.49	15	0.26	15.0
25-002	RAINBOW TROUT	C		FD	LN	S	4	4.0	5.97	910	15.92	227.5
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	1.49	100	1.75	100.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	8	8.0	11.94	50	0.87	6.2
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	2	2.0	2.99	30	0.52	15.0
43-100	FALLFISH	G		FS	LN	E	35	35.0	52.24	32	0.56	0.9
77-003	ROCK BASS	C		MG	LN	E	1	1.0	1.49	320	5.60	320.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	13	13.0	19.40	4103	71.77	315.6
80-002	WALLEYE	C		MG		M	1	1.0	1.49	150	2.62	150.0
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	1.49	7	0.12	7.0

No Species: 10 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 67 **Total Rel. Wt. :** 5717

IBI: 50.8

Appendix C-3
Fish Species List

River: 80-500 White River RM: 9.30 Date: 08/19/2009

Time Fished: 1980 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 110

Location: Lat: 43.73300 Long: -72.43478

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	6	6.0	22.22	160	3.00	26.6
25-002	RAINBOW TROUT	C		FD	LN	S	10	10.0	37.04	2430	45.57	243.0
25-010	ATLANTIC SALMON	C		A	LN	S	1	1.0	3.70	8	0.15	8.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	6	6.0	22.22	40	0.75	6.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	3	3.0	11.11	1515	28.41	505.0
80-002	WALLEYE	C		MG		M	1	1.0	3.70	1180	22.13	1180.0

No Species: 6 **Nat. Species:** 2 **Hybrids:** 0 **Total Counted:** 27 **Total Rel. Wt. :** 5333

IBI: 45.1

Appendix C-3
Fish Species List

River: 80-500 White River RM: 13.40 Date: 08/20/2009

Time Fished: 3075 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 110

Location: Lat: 43.78078 Long: -72.44792

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	5	5.0	2.10	150	0.92	30.0
25-002	RAINBOW TROUT	C		FD	LN	S	14	14.0	5.88	3730	22.93	266.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	55	55.0	23.11	2497	15.35	45.4
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.42	9	0.06	9.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	4	4.0	1.68	23	0.14	5.7
43-042	FATHEAD MINNOW	G	T	MG	CN	E	1	1.0	0.42	4	0.02	4.0
43-100	FALLFISH	G		FS	LN	E	141	141.0	59.24	1138	7.00	8.0
50-001	AMERICAN EEL	C		C		M	1	1.0	0.42	1400	8.61	1400.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	13	13.0	5.46	7307	44.92	562.0
80-035	TESSELATED DARTER	BI		FD		M	3	3.0	1.26	10	0.06	3.3

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 238 **Total Rel. Wt. :** 16268

IBI: 44.5

Appendix C-3
Fish Species List

River: 80-500 White River RM: 16.70 Date: 08/17/2009

Time Fished: 2740 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 60

Location: Lat: 43.79748 Long: -72.50073

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.62	10	0.16	10.0
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	1.24	110	1.75	55.0
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.62	70	1.12	70.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	59	59.0	36.65	3760	59.94	63.7
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	3	3.0	1.86	15	0.24	5.0
43-022	ROSYFACE SHINER	I	I	FD		E	13	13.0	8.07	30	0.48	2.3
43-035	MIMIC SHINER	I	I	MG		E	1	1.0	0.62	6	0.10	6.0
43-042	FATHEAD MINNOW	G	T	MG	CN	E	1	1.0	0.62	6	0.10	6.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	5	5.0	3.11	10	0.16	2.0
43-100	FALLFISH	G		FS	LN	E	60	60.0	37.27	338	5.39	5.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	6	6.0	3.73	1865	29.73	310.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.62	4	0.06	4.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	3.73	40	0.64	6.6
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	1.24	9	0.14	4.5

No Species: 14 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 161 **Total Rel. Wt. :** 6273

IBI: 48.6

Appendix C-3
Fish Species List

River: 80-500 White River RM: 30.50 Date: 08/17/2009

Time Fished: 3603 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 60

Location: Lat: 43.79297 Long: -72.67660

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	2	2.0	1.42	16	0.30	8.0
25-001	BROWN TROUT	C		FD	LN	S	25	25.0	17.73	722	13.54	28.8
25-002	RAINBOW TROUT	C		FD	LN	S	36	36.0	25.53	2813	52.74	78.1
25-010	ATLANTIC SALMON	C		A	LN	S	17	17.0	12.06	615	11.53	36.1
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	3.55	220	4.12	44.0
40-017	LONGNOSE SUCKER	BI		FD	NGL	S	5	5.0	3.55	170	3.19	34.0
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	33	33.0	23.40	90	1.69	2.7
43-013	CREEK CHUB	I	T	MG	L	E	1	1.0	0.71	8	0.15	8.0
43-026	COMMON SHINER	I		FD	NGL	E	1	1.0	0.71	10	0.19	10.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	4	4.0	2.84	590	11.06	147.5
90-003	SLIMY SCULPIN	BI		FS	NGL	S	12	12.0	8.51	80	1.50	6.6

No Species: 11 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 141 **Total Rel. Wt. :** 5334

IBI: 67.6

Appendix C-3
Fish Species List

River: 80-500 White River RM: 30.50 Date: 09/14/2009

Time Fished: 3631 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 110

Location: Lat: 43.79297 Long: -72.67660

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	30	30.0	14.56	660	9.67	22.0
25-002	RAINBOW TROUT	C		FD	LN	S	67	67.0	32.52	5113	74.90	76.3
25-010	ATLANTIC SALMON	C		A	LN	S	13	13.0	6.31	440	6.45	33.8
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	39	39.0	18.93	80	1.17	2.0
43-026	COMMON SHINER	I		FD	NGL	E	5	5.0	2.43	60	0.88	12.0
43-086	Eastern Blacknose Dace	BI		FS	NGL	M	27	27.0	13.11	63	0.92	2.3
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.49	40	0.59	40.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	3	3.0	1.46	210	3.08	70.0
90-003	SLIMY SCULPIN	BI		FS	NGL	S	21	21.0	10.19	160	2.34	7.6

No Species: 9 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 206 **Total Rel. Wt. :** 6826

IBI: 68.4

Appendix C-3
Fish Species List

River: 80-600 Millers River RM: 10.10 Date: 08/22/2009

Time Fished: 3624 Distance: 1.000 Drainge (sq mi): 361.3 Depth: 130

Location: DST SR 2 bridge, West Orange, MA Lat: 42.59612 Long: -72.36500

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.59	10	0.02	10.0
25-001	BROWN TROUT	C		FD	LN	S	33	33.0	19.41	16065	36.97	486.8
25-002	RAINBOW TROUT	C		FD	LN	S	3	3.0	1.76	820	1.89	273.3
25-003	BROOK TROUT	C		FD	L	S	1	1.0	0.59	180	0.41	180.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	18	18.0	10.59	16520	38.02	917.7
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	4	4.0	2.35	27	0.06	6.7
43-100	FALLFISH	G		FS	LN	E	4	4.0	2.35	142	0.33	35.5
50-001	AMERICAN EEL	C		C		M	2	2.0	1.18	1320	3.04	660.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	75	75.0	44.12	7290	16.78	97.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.59	10	0.02	10.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	28	28.0	16.47	1065	2.45	38.0

No Species: 11 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 170 **Total Rel. Wt. :** 43449

IBI: 43.6

Appendix C-3
Fish Species List

River: 80-600 Millers River RM: 28.40 Date: 08/22/2009

Time Fished: 3690 Distance: 1.000 Drainge (sq mi): 188.4 Depth: 100

Location: DST Birch Hill Dam, Birch Hill, MA Lat: 42.63171 Long: -72.12985

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	1	1.0	0.54	360	3.14	360.0
37-002	CHAIN PICKEREL	P		MG	L	M	20	20.0	10.81	1335	11.63	66.7
40-016	WHITE SUCKER	I	T	FD	NGL	M	21	21.0	11.35	4650	40.50	221.4
43-003	GOLDEN SHINER	G	T	MG	L	E	39	39.0	21.08	245	2.13	6.2
43-100	FALLFISH	G		FS	LN	E	9	9.0	4.86	120	1.05	13.3
47-005	BROWN BULLHEAD	G	T	MG	P	E	8	8.0	4.32	780	6.79	97.5
77-002	BLACK CRAPPIE	C		MG	PN	E	2	2.0	1.08	390	3.40	195.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	6	6.0	3.24	906	7.89	151.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	13	13.0	7.03	896	7.80	68.9
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	12	12.0	6.49	570	4.96	47.5
77-032	BANDED SUNFISH	I		MG	PN	E	2	2.0	1.08	40	0.35	20.0
80-003	YELLOW PERCH	C		MG	V	M	52	52.0	28.11	1190	10.36	22.8

No Species: 12 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 185 **Total Rel. Wt. :** 11482

IBI: 37.1

Appendix C-3
Fish Species List

River: 80-600 Millers River RM: 28.40 Date: 09/15/2009

Time Fished: 4204 Distance: 1.000 Drainge (sq mi): 188.4 Depth: 160

Location: DST Birch Hill Dam, Birch Hill, MA Lat: 42.63171 Long: -72.12985

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	3	3.0	1.91	980	10.37	326.6
37-002	CHAIN PICKEREL	P		MG	L	M	21	21.0	13.38	1690	17.89	80.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	13	13.0	8.28	3560	37.69	273.8
40-020	CREEK CHUBSUCKER	I		FD	NGL	M	1	1.0	0.64	40	0.42	40.0
43-003	GOLDEN SHINER	G	T	MG	L	E	22	22.0	14.01	444	4.70	20.1
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	2	2.0	1.27	20	0.21	10.0
43-100	FALLFISH	G		FS	LN	E	18	18.0	11.46	20	0.21	1.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	6	6.0	3.82	480	5.08	80.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	8	8.0	5.10	338	3.58	42.2
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	12	12.0	7.64	344	3.64	28.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	12	12.0	7.64	740	7.83	61.6
77-014	BLUEGILL X PUMPKINSEED						1	1.0	0.64	200	2.12	200.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.64	70	0.74	70.0
77-032	BANDED SUNFISH	I		MG	PN	E	4	4.0	2.55	20	0.21	5.0
80-003	YELLOW PERCH	C		MG	V	M	30	30.0	19.11	492	5.21	16.4
80-035	TESSELATED DARTER	BI		FD		M	3	3.0	1.91	8	0.08	2.6

No Species: 16 **Nat. Species:** 8 **Hybrids:** 1 **Total Counted:** 157 **Total Rel. Wt. :** 9446

IBI: 36.5

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 5.80 Date: 08/20/2008

Time Fished: 3109 Distance: 1.000 Drainge (sq mi): 4988.6 Depth: 0

Location: 500m DST MA011A-Z, DST SR 110 bridge Lat: 42.83142 Long: -70.88842

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	27	27.0	31.40	70	0.32	2.5
20-006	AMERICAN SHAD	PL		A	PS	M	8	8.0	9.30	25	0.11	3.1
43-001	COMMON CARP	O	T	MG	V	E	3	3.0	3.49	21600	98.84	7200.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	33	33.0	38.37	80	0.37	2.4
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	1.16	8	0.04	8.0
54-004	MUMMICHOG	D		TS	VN	E	9	9.0	10.47	50	0.23	5.5
70-002	ATLANTIC SILVERSIDE	I	M	TS		E	5	5.0	5.81	20	0.09	4.0

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 86 **Total Rel. Wt. :** 21853

IBI: 23.7

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 6.80 Date: 08/20/2008

Time Fished: 3785 Distance: 1.000 Drainge (sq mi): 4988.0 Depth: 0

Location: DST SR.110 Lat: 42.83381 Long: -70.90301

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	33	33.0	3.51	80	4.16	2.4
20-006	AMERICAN SHAD	PL		A	PS	M	27	27.0	2.87	50	2.60	1.8
43-028	SPOTTAIL SHINER	I	P	MG	L	E	821	821.0	87.25	1220	63.48	1.4
50-001	AMERICAN EEL	C		C		M	4	4.0	0.43	91	4.73	22.7
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	2	2.0	0.21	20	1.04	10.0
54-004	MUMMICHOG	D		TS	VN	E	50	50.0	5.31	390	20.29	7.8
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.11	10	0.52	10.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	0.21	60	3.12	30.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.11	1	0.05	1.0

No Species: 9 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 941 **Total Rel. Wt. :** 1922

IBI: 34.9

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 20.50 Date: 07/22/2008

Time Fished: 3916 Distance: 1.000 Drainge (sq mi): 4846.0 Depth: 330

Location: UST Main St. bridge, Haverhill, MA Lat: 42.76553 Long: -71.09351

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	4	4.0	0.45	6	0.02	1.5
40-016	WHITE SUCKER	I	T	FD	NGL	M	804	804.0	90.85	1578	5.93	1.9
43-001	COMMON CARP	O	T	MG	V	E	6	6.0	0.68	21890	82.29	3648.3
43-028	SPOTTAIL SHINER	I	P	MG	L	E	16	16.0	1.81	10	0.04	0.6
43-100	FALLFISH	G		FS	LN	E	8	8.0	0.90	244	0.92	30.5
50-001	AMERICAN EEL	C		C		M	4	4.0	0.45	160	0.60	40.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	7	7.0	0.79	24	0.09	3.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	8	8.0	0.90	1944	7.31	243.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	6	6.0	0.68	24	0.09	4.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	0.11	80	0.30	80.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.11	12	0.05	12.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	17	17.0	1.92	622	2.34	36.5
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	0.34	6	0.02	2.0

No Species: 13 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 885 **Total Rel. Wt. :** 26600

IBI: 41.3

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 23.20 Date: 07/23/2008

Time Fished: 4283 Distance: 1.000 Drainge (sq mi): 4837.2 Depth: 0

Location: DST Island Point, Methuen, MA Lat: 42.76705 Long: -71.13020

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	75	75.0	24.12	210	0.13	2.8
40-016	WHITE SUCKER	I	T	FD	NGL	M	44	44.0	14.15	954	0.58	21.6
43-001	COMMON CARP	O	T	MG	V	E	24	24.0	7.72	158123	95.68	6588.4
43-028	SPOTTAIL SHINER	I	P	MG	L	E	72	72.0	23.15	70	0.04	0.9
43-100	FALLFISH	G		FS	LN	E	18	18.0	5.79	632	0.38	35.1
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.32	50	0.03	50.0
50-001	AMERICAN EEL	C		C		M	8	8.0	2.57	1650	1.00	206.2
74-002	STRIPED BASS	P		A	L	M	2	2.0	0.64	840	0.51	420.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	24	24.0	7.72	1250	0.76	52.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	8	8.0	2.57	52	0.03	6.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	7	7.0	2.25	340	0.21	48.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	7	7.0	2.25	198	0.12	28.2
77-030	REDBREAST SUNFISH	I		MG	PN	E	18	18.0	5.79	690	0.42	38.3
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	0.96	200	0.12	66.6

No Species: 14 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 311 **Total Rel. Wt. :** 165259

IBI: 32.3

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 24.10 Date: 07/23/2008

Time Fished: 4247 Distance: 1.000 Drainge (sq mi): 4828.5 Depth: 0

Location: UST I-495 bridge, Methuen, MA Lat: 42.75543 Long: -71.12818

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	1	1.0	0.20	10	0.01	10.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.20	20	0.03	20.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	109	109.0	22.11	7050	9.94	64.6
43-001	COMMON CARP	O	T	MG	V	E	21	21.0	4.26	51050	71.97	2430.9
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.41	22	0.03	11.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	106	106.0	21.50	90	0.13	0.8
43-100	FALLFISH	G		FS	LN	E	118	118.0	23.94	1500	2.11	12.7
50-001	AMERICAN EEL	C		C		M	21	21.0	4.26	1430	2.02	68.1
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	2	2.0	0.41	10	0.01	5.0
77-001	WHITE CRAPPIE			MG		E	1	1.0	0.20	4	0.01	4.0
77-003	ROCK BASS	C		MG	LN	E	1	1.0	0.20	2	0.00	2.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	16	16.0	3.25	4890	6.89	305.6
77-006	LARGEMOUTH BASS	C		MG	PN	E	34	34.0	6.90	2960	4.17	87.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	17	17.0	3.45	351	0.49	20.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	15	15.0	3.04	490	0.69	32.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	25	25.0	5.07	1034	1.46	41.3
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	0.61	20	0.03	6.6

No Species: 17 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 493 **Total Rel. Wt. :** 70933

IBI: 31.1

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 27.40 Date: 08/28/2009

Time Fished: 3016 Distance: 1.000 Drainge (sq mi): 4819.0 Depth: 110

Location: DST I-495 bridge, Lawrence, MA Lat: 42.70988 Long: -71.13362

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.56	8	0.02	8.0
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	1.13	30	0.07	15.0
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	0.56	6860	15.33	6860.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	1.13	1740	3.89	870.0
43-001	COMMON CARP	O	T	MG	V	E	7	7.0	3.95	29920	66.87	4274.2
43-028	SPOTTAIL SHINER	I	P	MG	L	E	4	4.0	2.26	12	0.03	3.0
47-003	WHITE CATFISH	I		MG	P	E	5	5.0	2.82	550	1.23	110.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.56	50	0.11	50.0
50-001	AMERICAN EEL	C		C		M	32	32.0	18.08	1565	3.50	48.9
77-003	ROCK BASS	C		MG	LN	E	31	31.0	17.51	240	0.54	7.7
77-006	LARGEMOUTH BASS	C		MG	PN	E	11	11.0	6.21	1400	3.13	127.2
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	15	15.0	8.47	620	1.39	41.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	29	29.0	16.38	600	1.34	20.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	34	34.0	19.21	1134	2.53	33.3
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.56	6	0.01	6.0
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.56	8	0.02	8.0

No Species: 16 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 177 **Total Rel. Wt. :** 44743

IBI: 23.3

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 32.00 Date: 08/28/2009

Time Fished: 2458 Distance: 1.000 Drainge (sq mi): 4650.0 Depth: 364

Location: Dst. Pine Island, Ust. US 93 Lat: 42.69692 Long: -72.22352

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	1.64	20	0.15	20.0
43-001	COMMON CARP	O	T	MG	V	E	2	2.0	3.28	9650	74.20	4825.0
50-001	AMERICAN EEL	C		C		M	1	1.0	1.64	170	1.31	170.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	6	6.0	9.84	1275	9.80	212.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	3	3.0	4.92	360	2.77	120.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	16	16.0	26.23	300	2.31	18.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	16	16.0	26.23	535	4.11	33.4
77-030	REDBREAST SUNFISH	I		MG	PN	E	14	14.0	22.95	495	3.81	35.3
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	3.28	200	1.54	100.0

No Species: 9 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 61 **Total Rel. Wt. :** 13005

IBI: 16.8

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 32.00 Date: 09/07/2009

Time Fished: 2182 Distance: 1.000 Drainge (sq mi): 4650.0 Depth: 364

Location: Dst. Pine Island, Ust. US 93 Lat: 42.69692 Long: -72.22352

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	2	2.0	3.77	10	0.66	5.0
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	3.77	50	3.30	25.0
50-001	AMERICAN EEL	C		C		M	1	1.0	1.89	120	7.91	120.0
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	1.89	1	0.07	1.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	18	18.0	33.96	735	48.45	40.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	9.43	15	0.99	3.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	1.89	2	0.13	2.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	5.0	9.43	130	8.57	26.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	15	15.0	28.30	363	23.93	24.2
80-003	YELLOW PERCH	C		MG	V	M	2	2.0	3.77	90	5.93	45.0
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	1.89	1	0.07	1.0

No Species: 11 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 53 **Total Rel. Wt. :** 1517

IBI: 14.9

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 33.00 Date: 07/19/2009

Time Fished: 2087 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 150

Location: Lat: 43.14506 Long: -71.46851

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	12	12.0	4.17	240	0.79	20.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	22	22.0	7.64	10680	35.29	485.4
43-003	GOLDEN SHINER	G	T	MG	L	E	8	8.0	2.78	80	0.26	10.0
43-100	FALLFISH	G		FS	LN	E	112	112.0	38.89	3180	10.51	28.3
47-013	TADPOLE MADTOM						2	2.0	0.69	24	0.08	12.0
50-001	AMERICAN EEL	C		C		M	2	2.0	0.69	1080	3.57	540.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	28	28.0	9.72	2800	9.25	100.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	40	40.0	13.89	5516	18.23	137.9
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	26	26.0	9.03	5924	19.57	227.8
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	1.39	60	0.20	15.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	4	4.0	1.39	180	0.59	45.0
80-003	YELLOW PERCH	C		MG	V	M	28	28.0	9.72	500	1.65	17.8

No Species: 12 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 288 **Total Rel. Wt. :** 30264

IBI: 28.3

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 37.60 Date: 08/28/2009

Time Fished: 2980 Distance: 1.000 Drainge (sq mi): 4630.0 Depth: 290

Location: Dst. Duck Island Adj. ST Rt. 110 Lat: 42.65535 Long: -71.27925

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	8	8.0	3.83	10	0.03	1.2
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	0.48	100	0.28	100.0
43-001	COMMON CARP	O	T	MG	V	E	9	9.0	4.31	30000	83.36	3333.3
43-028	SPOTTAIL SHINER	I	P	MG	L	E	87	87.0	41.63	90	0.25	1.0
43-100	FALLFISH	G		FS	LN	E	28	28.0	13.40	35	0.10	1.2
50-001	AMERICAN EEL	C		C		M	10	10.0	4.78	2900	8.06	290.0
77-003	ROCK BASS	C		MG	LN	E	2	2.0	0.96	130	0.36	65.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	56	56.0	26.79	2348	6.52	41.9
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.48	10	0.03	10.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	4	4.0	1.91	140	0.39	35.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.48	220	0.61	220.0
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	0.96	5	0.01	2.5

No Species: 12 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 209 **Total Rel. Wt. :** 35988

IBI: 23.7

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 42.40 Date: 08/27/2009

Time Fished: 3900 Distance: 1.000 Drainge (sq mi): 4126.0 Depth: 720

Location: @ Rourke Bridge Lat: 42.63729 Long: -71.35844

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	1.00	60	0.65	60.0
50-001	AMERICAN EEL	C		C		M	4	4.0	4.00	890	9.67	222.5
77-003	ROCK BASS	C		MG	LN	E	1	1.0	1.00	25	0.27	25.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	61	61.0	61.00	4075	44.26	66.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	1.00	2	0.02	2.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	1.00	30	0.33	30.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	31	31.0	31.00	4125	44.80	133.0

No Species: 7 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 100 **Total Rel. Wt. :** 9207

IBI: 11.3

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 52.90 Date: 07/17/2009

Time Fished: 2823 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 570

Location: Lat: 42.74629 Long: -71.44081

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	2	2.0	0.87	2040	3.25	1020.0
43-001	COMMON CARP	O	T	MG	V	E	12	12.0	5.22	50780	80.92	4231.6
47-004	YELLOW BULLHEAD	G	T	MG		E	6	6.0	2.61	380	0.61	63.3
50-001	AMERICAN EEL	C		C		M	6	6.0	2.61	1400	2.23	233.3
77-003	ROCK BASS	C		MG	LN	E	26	26.0	11.30	800	1.27	30.7
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	42	42.0	18.26	2370	3.78	56.4
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	0.87	40	0.06	20.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	4	4.0	1.74	416	0.66	104.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	2.61	40	0.06	6.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	122	122.0	53.04	4480	7.14	36.7
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	0.87	6	0.01	3.0

No Species: 11 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 230 **Total Rel. Wt. :** 62752

IBI: 16.9

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 58.40 Date: 09/07/2009

Time Fished: 2589 Distance: 1.000 Drainge (sq mi): 3432.0 Depth: 110

Location: Ust. Hudson Lat: 42.81464 Long: -71.47301

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	4	4.0	5.88	4	0.15	1.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	1.47	1300	47.79	1300.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	1.47	50	1.84	50.0
47-017	MARGINED MADTOM		I				3	3.0	4.41	80	2.94	26.6
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	14	14.0	20.59	220	8.09	15.7
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	2.94	4	0.15	2.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	9	9.0	13.24	110	4.04	12.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	14	14.0	20.59	200	7.35	14.2
77-030	REDBREAST SUNFISH	I		MG	PN	E	19	19.0	27.94	750	27.57	39.4
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	1.47	2	0.07	2.0

No Species: 10 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 68 **Total Rel. Wt. :** 2720

IBI: 24.8

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 66.50 Date: 09/07/2009

Time Fished: 2609 Distance: 1.000 Drainge (sq mi): 3423.0 Depth: 90

Location: Dst. East Merrimack Lat: 42.82204 Long: -71.48130

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	9	9.0	4.41	20	0.08	2.2
40-016	WHITE SUCKER	I	T	FD	NGL	M	5	5.0	2.45	4810	20.40	962.0
43-001	COMMON CARP	O	T	MG	V	E	2	2.0	0.98	15000	63.62	7500.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.49	2	0.01	2.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	69	69.0	33.82	130	0.55	1.8
43-100	FALLFISH	G		FS	LN	E	20	20.0	9.80	313	1.33	15.6
47-017	MARGINED MADTOM		I				16	16.0	7.84	165	0.70	10.3
77-003	ROCK BASS	C		MG	LN	E	3	3.0	1.47	142	0.60	47.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	51	51.0	25.00	2234	9.47	43.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	0.98	12	0.05	6.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	2	2.0	0.98	50	0.21	25.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	5.0	2.45	31	0.13	6.2
77-030	REDBREAST SUNFISH	I		MG	PN	E	13	13.0	6.37	650	2.76	50.0
80-035	TESSELATED DARTER	BI		FD		M	6	6.0	2.94	20	0.08	3.3

No Species: 14 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 204 **Total Rel. Wt. :** 23579

IBI: 23.2

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 81.60 Date: 09/05/2009

Time Fished: 2075 Distance: 1.000 Drainge (sq mi): 2822.0 Depth: 0

Location: Dst. Intervale Country Club Lat: 43.02063 Long: -71.48024

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.93	50	0.70	50.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.93	250	3.50	250.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.93	80	1.12	80.0
50-001	AMERICAN EEL	C		C		M	10	10.0	9.26	3215	44.97	321.5
77-002	BLACK CRAPPIE	C		MG	PN	E	2	2.0	1.85	80	1.12	40.0
77-003	ROCK BASS	C		MG	LN	E	2	2.0	1.85	450	6.29	225.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	22	22.0	20.37	738	10.32	33.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	9	9.0	8.33	120	1.68	13.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	17	17.0	15.74	275	3.85	16.1
77-030	REDBREAST SUNFISH	I		MG	PN	E	32	32.0	29.63	1341	18.76	41.9
80-003	YELLOW PERCH	C		MG	V	M	7	7.0	6.48	520	7.27	74.2
80-035	TESSELATED DARTER	BI		FD		M	4	4.0	3.70	30	0.42	7.5

No Species: 12 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 108 **Total Rel. Wt. :** 7149

IBI: 20.5

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 89.90 Date: 07/19/2009

Time Fished: 3563 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 220

Location: Lat: 42.19317 Long: -71.52351

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	26	26.0	9.42	1636	7.61	62.9
40-016	WHITE SUCKER	I	T	FD	NGL	M	12	12.0	4.35	6440	29.96	536.6
43-003	GOLDEN SHINER	G	T	MG	L	E	4	4.0	1.45	100	0.47	25.0
43-026	COMMON SHINER	I		FD	NGL	E	84	84.0	30.43	80	0.37	0.9
43-100	FALLFISH	G		FS	LN	E	20	20.0	7.25	600	2.79	30.0
47-017	MARGINED MADTOM		I				4	4.0	1.45	40	0.19	10.0
77-003	ROCK BASS	C		MG	LN	E	14	14.0	5.07	1000	4.65	71.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	28	28.0	10.14	1100	5.12	39.2
77-006	LARGEMOUTH BASS	C		MG	PN	E	20	20.0	7.25	5710	26.56	285.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	6	6.0	2.17	580	2.70	96.6
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	14	14.0	5.07	1880	8.75	134.2
77-030	REDBREAST SUNFISH	I		MG	PN	E	8	8.0	2.90	240	1.12	30.0
80-003	YELLOW PERCH	C		MG	V	M	36	36.0	13.04	2090	9.72	58.0

No Species: 13 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 276 **Total Rel. Wt. :** 21496

IBI: 38.6

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 94.30 Date: 09/06/2009

Time Fished: 2804 Distance: 1.000 Drainge (sq mi): 2369.0 Depth: 190

Location: Ust. Styles Bridge Hwy. Lat: 43.22529 Long: -71.54987

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.36	260	1.29	260.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	11	11.0	3.93	3160	15.72	287.2
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.36	1	0.00	1.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	17	17.0	6.07	25	0.12	1.4
43-035	MIMIC SHINER	I	I	MG		E	16	16.0	5.71	16	0.08	1.0
43-100	FALLFISH	G		FS	LN	E	20	20.0	7.14	35	0.17	1.7
47-017	MARGINED MADTOM		I				7	7.0	2.50	110	0.55	15.7
60-001	BURBOT	C		FD	NGL	S	1	1.0	0.36	232	1.15	232.0
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.36	90	0.45	90.0
77-003	ROCK BASS	C		MG	LN	E	9	9.0	3.21	3055	15.20	339.4
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	18	18.0	6.43	747	3.72	41.5
77-006	LARGEMOUTH BASS	C		MG	PN	E	4	4.0	1.43	2530	12.59	632.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	20	20.0	7.14	2730	13.58	136.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	14	14.0	5.00	425	2.11	30.3
77-030	REDBREAST SUNFISH	I		MG	PN	E	138	138.0	49.29	6330	31.49	45.8
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.36	350	1.74	350.0
80-035	TESSELATED DARTER	BI		FD		M	1	1.0	0.36	5	0.02	5.0

No Species: 17 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 280 **Total Rel. Wt. :** 20101

IBI: 39.3

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 97.70 Date: 09/06/2009

Time Fished: 1652 Distance: 1.000 Drainge (sq mi): 2361.0 Depth: 330

Location: Ust. Seawall Falls Rd. Lat: 43.27138 Long: -71.56420

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-001	BROWN TROUT	C		FD	LN	S	2	2.0	1.71	370	4.10	185.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	7	7.0	5.98	6270	69.46	895.7
43-100	FALLFISH	G		FS	LN	E	40	40.0	34.19	155	1.72	3.8
47-017	MARGINED MADTOM		I				44	44.0	37.61	330	3.66	7.5
77-003	ROCK BASS	C		MG	LN	E	1	1.0	0.85	240	2.66	240.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	19	19.0	16.24	1597	17.69	84.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.85	20	0.22	20.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.85	10	0.11	10.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	1	1.0	0.85	30	0.33	30.0
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.85	5	0.06	5.0

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 117 **Total Rel. Wt. :** 9027

IBI: 37.1

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 99.10 Date: 09/06/2009

Time Fished: 2874 Distance: 1.000 Drainge (sq mi): 2343.0 Depth: 120

Location: Dst. Outfall Lat: 43.27962 Long: -71.57059

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	1	1.0	0.65	125	0.83	125.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	28	28.0	18.06	6340	42.18	226.4
43-100	FALLFISH	G		FS	LN	E	15	15.0	9.68	309	2.06	20.6
47-017	MARGINED MADTOM		I				6	6.0	3.87	125	0.83	20.8
50-001	AMERICAN EEL	C		C		M	5	5.0	3.23	100	0.67	20.0
77-003	ROCK BASS	C		MG	LN	E	12	12.0	7.74	880	5.85	73.3
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	18	18.0	11.61	2455	16.33	136.3
77-006	LARGEMOUTH BASS	C		MG	PN	E	9	9.0	5.81	1093	7.27	121.4
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	12	12.0	7.74	2040	13.57	170.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	5.0	3.23	200	1.33	40.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	23	23.0	14.84	680	4.52	29.5
80-003	YELLOW PERCH	C		MG	V	M	17	17.0	10.97	660	4.39	38.8
80-035	TESSELATED DARTER	BI		FD		M	4	4.0	2.58	23	0.15	5.7

No Species: 13 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 155 **Total Rel. Wt. :** 15030

IBI: 24.3

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 99.40 Date: 09/06/2009

Time Fished: 2427 Distance: 1.000 Drainge (sq mi): 2337.0 Depth: 250

Location: Dst. WWTP outfall Concord Lat: 43.28367 Long: -71.58780

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	3	3.0	2.17	925	6.79	308.3
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.72	175	1.28	175.0
43-100	FALLFISH	G		FS	LN	E	20	20.0	14.49	1917	14.08	95.8
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.72	110	0.81	110.0
77-003	ROCK BASS	C		MG	LN	E	13	13.0	9.42	540	3.97	41.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	22	22.0	15.94	907	6.66	41.2
77-006	LARGEMOUTH BASS	C		MG	PN	E	10	10.0	7.25	4438	32.59	443.8
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	16	16.0	11.59	2672	19.62	167.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	3	3.0	2.17	30	0.22	10.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	22	22.0	15.94	610	4.48	27.7
80-003	YELLOW PERCH	C		MG	V	M	27	27.0	19.57	1295	9.51	47.9

No Species: 11 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 138 **Total Rel. Wt. :** 13619

IBI: 12.3

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 110.50 Date: 09/05/2009

Time Fished: 2687 Distance: 1.000 Drainge (sq mi): 1533.0 Depth: 190

Location: Dst. Franklin WWTP Lat: 43.38045 Long: -71.64977

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	1	1.0	0.76	190	1.57	190.0
43-100	FALLFISH	G		FS	LN	E	1	1.0	0.76	110	0.91	110.0
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.76	135	1.12	135.0
47-017	MARGINED MADTOM		I				37	37.0	28.03	640	5.30	17.3
50-001	AMERICAN EEL	C		C		M	5	5.0	3.79	3810	31.56	762.0
77-003	ROCK BASS	C		MG	LN	E	9	9.0	6.82	1229	10.18	136.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	64	64.0	48.48	5256	43.54	82.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	1	1.0	0.76	2	0.02	2.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	1	1.0	0.76	330	2.73	330.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.76	15	0.12	15.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	10	10.0	7.58	335	2.78	33.5
80-003	YELLOW PERCH	C		MG	V	M	1	1.0	0.76	20	0.17	20.0

No Species: 12 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 132 **Total Rel. Wt. :** 12072

IBI: 19.8

Appendix C-3
Fish Species List

River: 85-001 Merrimack River RM: 114.90 Date: 09/10/2009

Time Fished: 2680 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 310

Location: Lat: 43.43677 Long: -71.64816

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
40-016	WHITE SUCKER	I	T	FD	NGL	M	6	6.0	3.23	1860	11.68	310.0
47-017	MARGINED MADTOM		I				82	82.0	44.09	1240	7.78	15.1
77-003	ROCK BASS	C		MG	LN	E	20	20.0	10.75	2980	18.71	149.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	52	52.0	27.96	8600	53.99	165.3
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	2	2.0	1.08	400	2.51	200.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	1.08	160	1.00	80.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	22	22.0	11.83	690	4.33	31.3

No Species: 7 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 186 **Total Rel. Wt. :** 15930

IBI: 20.3

Appendix C-3
Fish Species List

River: 85-100 Nashua River RM: 1.50 Date: 08/28/2009

Time Fished: 4252 Distance: 1.000 Drainge (sq mi): 264.8 Depth: 70

Location: UST SR 117 bridge, South Lancaster, MA Lat: 42.45659 Long: -71.66155

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
25-002	RAINBOW TROUT	C		FD	LN	S	3	3.0	0.48	3120	2.53	1040.0
37-002	CHAIN PICKEREL	P		MG	L	M	36	36.0	5.80	3100	2.52	86.1
40-016	WHITE SUCKER	I	T	FD	NGL	M	304	304.0	48.95	97680	79.31	321.3
43-028	SPOTTAIL SHINER	I	P	MG	L	E	100	100.0	16.10	594	0.48	5.9
43-100	FALLFISH	G		FS	LN	E	124	124.0	19.97	14730	11.96	118.7
47-005	BROWN BULLHEAD	G	T	MG	P	E	4	4.0	0.64	260	0.21	65.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	6	6.0	0.97	1290	1.05	215.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	10	10.0	1.61	440	0.36	44.0
80-003	YELLOW PERCH	C		MG	V	M	26	26.0	4.19	1910	1.55	73.4
80-035	TESSELATED DARTER	BI		FD		M	8	8.0	1.29	36	0.03	4.5

No Species: 10 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 621 **Total Rel. Wt. :** 123160

IBI: 44.4

Appendix C-3
Fish Species List

River: 86-001 Taunton River RM: 13.10 Date: 08/17/2008

Time Fished: 3662 Distance: 1.000 Drainge (sq mi): 457.0 Depth: 310

Location: DST N. Dighton Power Plant Lat: 41.85188 Long: -71.10916

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	1	1.0	0.18	2	0.01	2.0
20-005	BLUEBACK HERRING	PL		A	NGL	M	1	1.0	0.18	2	0.01	2.0
20-006	AMERICAN SHAD	PL		A	PS	M	3	3.0	0.53	140	1.00	46.6
37-002	CHAIN PICKEREL	P		MG	L	M	7	7.0	1.24	370	2.64	52.8
37-007	REDFIN PICKEREL	P	P	MG		M	3	3.0	0.53	110	0.78	36.6
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	1.59	90	0.64	10.0
43-003	GOLDEN SHINER	G	T	MG	L	E	1	1.0	0.18	4	0.03	4.0
50-001	AMERICAN EEL	C		C		M	15	15.0	2.65	1020	7.28	68.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	225	225.0	39.75	470	3.35	2.0
54-004	MUMMICHOG	D		TS	VN	E	100	100.0	17.67	312	2.23	3.1
65-001	HOGCHOKER	BI		MG		E	5	5.0	0.88	15	0.11	3.0
70-002	ATLANTIC SILVERSIDE	I	M	TS		E	3	3.0	0.53	3	0.02	1.0
74-002	STRIPED BASS	P		A	L	M	3	3.0	0.53	630	4.49	210.0
74-003	WHITE PERCH	C		MG	L	M	31	31.0	5.48	2800	19.97	90.3
77-003	ROCK BASS	C		MG	LN	E	29	29.0	5.12	2790	19.90	96.2
77-006	LARGEMOUTH BASS	C		MG	PN	E	29	29.0	5.12	1610	11.49	55.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	3	3.0	0.53	52	0.37	17.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	22	22.0	3.89	630	4.49	28.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	58	58.0	10.25	2132	15.21	36.7
79-001	BLUEFISH	P		MG		E	6	6.0	1.06	300	2.14	50.0
80-003	YELLOW PERCH	C		MG	V	M	8	8.0	1.41	525	3.75	65.6
80-035	TESSELATED DARTER	BI		FD		M	2	2.0	0.35	8	0.06	4.0
87-001	ROUND GOBY						1	1.0	0.18	2	0.01	2.0
95-003	FOUR-SPINE STICKLEBACK	PL		TS	VCN	M	1	1.0	0.18	1	0.01	1.0

No Species: 24 **Nat. Species:** 11 **Hybrids:** 0 **Total Counted:** 566 **Total Rel. Wt. :** 14018

IBI: 35.3

Appendix C-3
Fish Species List

River: 86-001 Taunton River RM: 14.90 Date: 09/18/2009

Time Fished: 3455 Distance: 1.000 Drainge (sq mi): 367.5 Depth: 420

Location: At Slips Mairine boat launch, Taunton, MA Lat: 41.87494 Long: -71.09397

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	11	11.0	9.48	30	0.07	2.7
20-006	AMERICAN SHAD	PL		A	PS	M	7	7.0	6.03	20	0.05	2.8
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	1.72	1110	2.74	555.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	8	8.0	6.90	8980	22.17	1122.5
43-001	COMMON CARP	O	T	MG	V	E	2	2.0	1.72	12940	31.95	6470.0
50-001	AMERICAN EEL	C		C		M	2	2.0	1.72	200	0.49	100.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	11	11.0	9.48	8	0.02	0.7
74-003	WHITE PERCH	C		MG	L	M	8	8.0	6.90	1640	4.05	205.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	6	6.0	5.17	8766	21.64	1461.0
77-008	GREEN SUNFISH	I		MG	VN	E	1	1.0	0.86	10	0.02	10.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	25	25.0	21.55	4600	11.36	184.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	13	13.0	11.21	340	0.84	26.1
77-030	REDBREAST SUNFISH	I		MG	PN	E	9	9.0	7.76	500	1.23	55.5
80-003	YELLOW PERCH	C		MG	V	M	11	11.0	9.48	1360	3.36	123.6

No Species: 14 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 116 **Total Rel. Wt. :** 40504

IBI: 26.5

Appendix C-3
Fish Species List

River: 86-001 Taunton River RM: 15.20 Date: 10/09/2008

Time Fished: 4080 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 0

Location: Lat: 41.87494 Long: -71.09396

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	10	10.0	1.74	45	0.15	4.5
20-005	BLUEBACK HERRING	PL		A	NGL	M	1	1.0	0.17	8	0.03	8.0
20-006	AMERICAN SHAD	PL		A	PS	M	9	9.0	1.57	55	0.18	6.1
43-001	COMMON CARP	O	T	MG	V	E	1	1.0	0.17	10620	35.17	10620.0
50-001	AMERICAN EEL	C		C		M	2	2.0	0.35	1475	4.88	737.5
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	471	471.0	82.06	705	2.33	1.5
54-004	MUMMICHOG	D		TS	VN	E	5	5.0	0.87	29	0.10	5.8
70-002	ATLANTIC SILVERSIDE	I	M	TS		E	5	5.0	0.87	12	0.04	2.4
74-002	STRIPED BASS	P		A	L	M	5	5.0	0.87	3440	11.39	688.0
74-003	WHITE PERCH	C		MG	L	M	52	52.0	9.06	11745	38.90	225.8
77-006	LARGEMOUTH BASS	C		MG	PN	E	4	4.0	0.70	1556	5.15	389.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	0.70	30	0.10	7.5
80-003	YELLOW PERCH	C		MG	V	M	5	5.0	0.87	475	1.57	95.0

No Species: 13 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 574 **Total Rel. Wt. :** 30195

IBI: 32.3

Appendix C-3
Fish Species List

River: 86-001 Taunton River RM: 19.40 Date: 07/09/2009

Time Fished: 4050 Distance: 1.000 Drainge (sq mi): 301.0 Depth: 70

Location: Behind McDonald's on SR 44, Taunton, MA Lat: 41.90496 Long: -71.05303

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	2	2.0	0.70	12	0.02	6.0
37-002	CHAIN PICKEREL	P		MG	L	M	32	32.0	11.27	640	1.06	20.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	32	32.0	11.27	23540	39.12	735.6
43-001	COMMON CARP	O	T	MG	V	E	2	2.0	0.70	17520	29.12	8760.0
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	0.70	80	0.13	40.0
43-100	FALLFISH	G		FS	LN	E	4	4.0	1.41	52	0.09	13.0
50-001	AMERICAN EEL	C		C		M	16	16.0	5.63	980	1.63	61.2
74-003	WHITE PERCH	C		MG	L	M	16	16.0	5.63	1280	2.13	80.0
77-002	BLACK CRAPPIE	C		MG	PN	E	8	8.0	2.82	3000	4.99	375.0
77-003	ROCK BASS	C		MG	LN	E	24	24.0	8.45	220	0.37	9.1
77-006	LARGEMOUTH BASS	C		MG	PN	E	18	18.0	6.34	4260	7.08	236.6
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	36	36.0	12.68	2470	4.10	68.6
77-030	REDBREAST SUNFISH	I		MG	PN	E	32	32.0	11.27	1300	2.16	40.6
80-003	YELLOW PERCH	C		MG	V	M	34	34.0	11.97	4720	7.84	138.8
80-035	TESSELATED DARTER	BI		FD		M	26	26.0	9.15	100	0.17	3.8

No Species: 15 **Nat. Species:** 5 **Hybrids:** 0 **Total Counted:** 284 **Total Rel. Wt. :** 60174

IBI: 27.5

Appendix C-3
Fish Species List

River: 86-001 Taunton River RM: 19.90 Date: 10/09/2008

Time Fished: 3280 Distance: 1.000 Drainge (sq mi): 314.3 Depth: 200

Location: Adj. SR. 44 business strip, Raynham, MA Lat: 41.90289 Long: -71.06132

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-002	ALEWIFE	PL		A	PS	M	14	14.0	11.86	50	0.20	3.5
37-002	CHAIN PICKEREL	P		MG	L	M	2	2.0	1.69	240	0.98	120.0
37-007	REDFIN PICKEREL	P	P	MG		M	2	2.0	1.69	230	0.94	115.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	30	30.0	25.42	13220	53.84	440.6
50-001	AMERICAN EEL	C		C		M	5	5.0	4.24	1510	6.15	302.0
54-001	EASTERN BANDED KILLIFISH	I	T	MG	VN	E	1	1.0	0.85	15	0.06	15.0
74-003	WHITE PERCH	C		MG	L	M	8	8.0	6.78	1940	7.90	242.5
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.85	80	0.33	80.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	8	8.0	6.78	4380	17.84	547.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	3	3.0	2.54	10	0.04	3.3
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	2	2.0	1.69	10	0.04	5.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	5	5.0	4.24	80	0.33	16.0
80-003	YELLOW PERCH	C		MG	V	M	32	32.0	27.12	2760	11.24	86.2
80-035	TESSELATED DARTER	BI		FD		M	5	5.0	4.24	28	0.11	5.6

No Species: 14 **Nat. Species:** 6 **Hybrids:** 0 **Total Counted:** 118 **Total Rel. Wt. :** 24553

IBI: 34.6

Appendix C-3
Fish Species List

River: 86-001 Taunton River RM: 24.20 Date: 08/12/2008

Time Fished: 4057 Distance: 1.000 Drainge (sq mi): 286.9 Depth: 75

Location: DST Church St. bridge, E. Taunton, MA Lat: 41.89272 Long: -71.00985

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
15-001	BOWFIN						3	3.0	1.22	4500	5.22	1500.0
20-006	AMERICAN SHAD	PL		A	PS	M	5	5.0	2.04	34	0.04	6.8
37-002	CHAIN PICKEREL	P		MG	L	M	14	14.0	5.71	376	0.44	26.8
40-016	WHITE SUCKER	I	T	FD	NGL	M	93	93.0	37.96	67330	78.06	723.9
40-020	CREEK CHUBSUCKER	I		FD	NGL	M	1	1.0	0.41	80	0.09	80.0
43-003	GOLDEN SHINER	G	T	MG	L	E	6	6.0	2.45	47	0.05	7.8
43-100	FALLFISH	G		FS	LN	E	10	10.0	4.08	258	0.30	25.8
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.41	160	0.19	160.0
50-001	AMERICAN EEL	C		C		M	43	43.0	17.55	3952	4.58	91.9
74-003	WHITE PERCH	C		MG	L	M	1	1.0	0.41	80	0.09	80.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	16	16.0	6.53	5495	6.37	343.4
77-008	GREEN SUNFISH	I		MG	VN	E	1	1.0	0.41	30	0.03	30.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	4	4.0	1.63	245	0.28	61.2
77-030	REDBREAST SUNFISH	I		MG	PN	E	8	8.0	3.27	1072	1.24	134.0
80-003	YELLOW PERCH	C		MG	V	M	25	25.0	10.20	2540	2.94	101.6
80-035	TESSELATED DARTER	BI		FD		M	14	14.0	5.71	50	0.06	3.5

No Species: 16 **Nat. Species:** 8 **Hybrids:** 0 **Total Counted:** 245 **Total Rel. Wt. :** 86249

IBI: 42.2

Appendix C-3
Fish Species List

River: 86-001 Taunton River RM: 27.90 Date: 08/14/2008

Time Fished: 5611 Distance: 1.000 Drainge (sq mi): 270.0 Depth: 240

Location: 1 km UST I-495 bridge Lat: 41.92824 Long: -70.99928

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
15-001	BOWFIN						4	4.0	1.67	3900	6.56	975.0
20-002	ALEWIFE	PL		A	PS	M	2	2.0	0.84	20095	33.78	10047.5
37-002	CHAIN PICKEREL	P		MG	L	M	24	24.0	10.04	1040	1.75	43.3
37-007	REDFIN PICKEREL	P	P	MG		M	12	12.0	5.02	185	0.31	15.4
40-016	WHITE SUCKER	I	T	FD	NGL	M	44	44.0	18.41	25060	42.13	569.5
43-100	FALLFISH	G		FS	LN	E	3	3.0	1.26	80	0.13	26.6
47-005	BROWN BULLHEAD	G	T	MG	P	E	3	3.0	1.26	422	0.71	140.6
50-001	AMERICAN EEL	C		C		M	46	46.0	19.25	3480	5.85	75.6
65-001	HOGCHOKER	BI		MG		E	5	5.0	2.09	40	0.07	8.0
74-003	WHITE PERCH	C		MG	L	M	4	4.0	1.67	270	0.45	67.5
77-002	BLACK CRAPPIE	C		MG	PN	E	1	1.0	0.42	210	0.35	210.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	35	35.0	14.64	2750	4.62	78.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	9	9.0	3.77	52	0.09	5.7
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.42	70	0.12	70.0
77-030	REDBREAST SUNFISH	I		MG	PN	E	3	3.0	1.26	274	0.46	91.3
80-003	YELLOW PERCH	C		MG	V	M	23	23.0	9.62	1490	2.51	64.7
80-035	TESSELATED DARTER	BI		FD		M	20	20.0	8.37	62	0.10	3.1

No Species: 17 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 239 **Total Rel. Wt. :** 59480

IBI: 34.0

Appendix C-3
Fish Species List

River: 86-001 Taunton River RM: 33.00 Date: 07/09/2009

Time Fished: 3570 Distance: 1.000 Drainge (sq mi): 1000.0 Depth: 190

Location: Lat: 41.95755 Long: -70.93361

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	14	14.0	9.86	1816	5.84	129.7
37-007	REDFIN PICKEREL	P	P	MG		M	8	8.0	5.63	240	0.77	30.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	34	34.0	23.94	24250	77.96	713.2
40-019	LAKE CHUBSUCKER						2	2.0	1.41	14	0.05	7.0
43-003	GOLDEN SHINER	G	T	MG	L	E	8	8.0	5.63	48	0.15	6.0
50-001	AMERICAN EEL	C		C		M	8	8.0	5.63	400	1.29	50.0
74-003	WHITE PERCH	C		MG	L	M	2	2.0	1.41	240	0.77	120.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	12	12.0	8.45	1620	5.21	135.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	30	30.0	21.13	668	2.15	22.2
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	14	14.0	9.86	510	1.64	36.4
80-003	YELLOW PERCH	C		MG	V	M	10	10.0	7.04	1300	4.18	130.0

No Species: 11 **Nat. Species:** 3 **Hybrids:** 0 **Total Counted:** 142 **Total Rel. Wt. :** 31106

IBI: 35.8

Appendix C-3
Fish Species List

River: 86-001 Taunton River RM: 34.00 Date: 07/09/2009

Time Fished: 3565 Distance: 1.000 Drainge (sq mi): 186.1 Depth: 170

Location: DST old bridge ruins, Bridgewater, MA Lat: 41.96133 Long: -70.91352

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
37-002	CHAIN PICKEREL	P		MG	L	M	4	4.0	9.30	250	1.68	62.5
37-007	REDFIN PICKEREL	P	P	MG		M	2	2.0	4.65	80	0.54	40.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	14	14.0	32.56	9060	60.81	647.1
43-001	COMMON CARP	O	T	MG	V	E	1	1.0	2.33	4100	27.52	4100.0
43-003	GOLDEN SHINER	G	T	MG	L	E	2	2.0	4.65	75	0.50	37.5
43-100	FALLFISH	G		FS	LN	E	1	1.0	2.33	205	1.38	205.0
50-001	AMERICAN EEL	C		C		M	9	9.0	20.93	550	3.69	61.1
74-003	WHITE PERCH	C		MG	L	M	1	1.0	2.33	110	0.74	110.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	2	2.0	4.65	155	1.04	77.5
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	2	2.0	4.65	115	0.77	57.5
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	5	5.0	11.63	200	1.34	40.0

No Species: 11 **Nat. Species:** 4 **Hybrids:** 0 **Total Counted:** 43 **Total Rel. Wt. :** 14900

IBI: 39.0

Appendix C-3
Fish Species List

River: 86-001 Taunton River RM: 37.10 Date: 08/16/2008

Time Fished: 4300 Distance: 1.000 Drainge (sq mi): 139.0 Depth: 130

Location: UST Cherry St. bridge Lat: 41.98886 Long: -70.92815

Species Code:	Species Name:	Feed Guild	Toler-ance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
20-006	AMERICAN SHAD	PL		A	PS	M	1	1.0	0.74	2	0.01	2.0
37-002	CHAIN PICKEREL	P		MG	L	M	22	22.0	16.18	690	1.86	31.3
37-007	REDFIN PICKEREL	P	P	MG		M	1	1.0	0.74	40	0.11	40.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	62	62.0	45.59	32210	86.60	519.5
43-003	GOLDEN SHINER	G	T	MG	L	E	5	5.0	3.68	62	0.17	12.4
43-026	COMMON SHINER	I		FD	NGL	E	2	2.0	1.47	25	0.07	12.5
43-100	FALLFISH	G		FS	LN	E	6	6.0	4.41	280	0.75	46.6
47-005	BROWN BULLHEAD	G	T	MG	P	E	1	1.0	0.74	240	0.65	240.0
50-001	AMERICAN EEL	C		C		M	6	6.0	4.41	952	2.56	158.6
74-003	WHITE PERCH	C		MG	L	M	4	4.0	2.94	540	1.45	135.0
77-006	LARGEMOUTH BASS	C		MG	PN	E	5	5.0	3.68	1240	3.33	248.0
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	5	5.0	3.68	102	0.27	20.4
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	6	6.0	4.41	170	0.46	28.3
80-003	YELLOW PERCH	C		MG	V	M	6	6.0	4.41	630	1.69	105.0
80-035	TESSELATED DARTER	BI		FD		M	4	4.0	2.94	10	0.03	2.5

No Species: 15 **Nat. Species:** 7 **Hybrids:** 0 **Total Counted:** 136 **Total Rel. Wt. :** 37193

IBI: 41.5

Appendix D
NELR REMAP Habitat Data 2008-9

Key QHEI Components

River Mile	QHEI	Gradient (ft/mile)	Good Attributes: No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Modified Attributes: Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(10-001) Saco River																												
Year:	2006																											
82.8	**77.3**	2.46	■	■	■		■	■	■	■	■		8								■					■	2	0.25
80.6	**93.0**	2.46	■	■	■	■	■	■	■	■	■	■	10														0	0.00
77.4	**80.0**	2.19	■	■	■		■	■	■	■	■		8								■				■		2	0.25
73.2	**80.0**	1.04	■	■	■		■	■	■	■	■		8								■					■	2	0.38
71.4	**82.0**	1.04	■	■	■		■	■	■		■	■	8								■			■		■	3	0.25
62.8	**77.0**	1.04	■	■	■			■	■	■	■		8								■					■	2	0.25
57.7	**73.5**	1.04	■	■	■		■	■	■	■	■		7								■					■	2	0.43
52.7	**76.5**	1.04	■	■	■		■	■	■	■	■		8								■					■	2	0.25
47.0	**72.5**	1.04	■	■			■	■		■	■		6								■					■	2	0.50
45.7	**69.5**	3.94	■	■				■		■	■		5								■		■			■	3	0.80
44.0	**101.0**	7.52	■	■	■	■	■	■	■	■	■	■	10														0	0.00
38.6	**97.0**	3.50	■	■		■	■	■	■	■	■	■	9														0	0.00
32.9	**74.0**	5.15	■	■			■	■		■	■		6								■					■	2	0.50
30.9	**102.0**	2.24	■	■		■	■	■	■	■	■	■	9														0	0.00
27.3	**63.0**	2.24		■				■		■	■		5	◆							■		■			■	4	0.60
26.0	**89.5**	1.98	■	■			■	■	■	■	■	■	7								■						1	0.29
22.3	**64.0**	1.98		■				■		■	■		5	◆							■		■			■	4	0.60
20.6	**93.0**	1.98	■	■		■	■	■	■	■	■	■	9														0	0.00
19.3	**88.5**	9.71		■	■	■	■	■	■	■	■	■	9							■							1	0.11
15.3	**66.5**	1.98		■			■	■	■	■	■		6	◆							■					■	3	0.33
13.9	**90.3**	10.64		■	■	■	■	■	■	■	■	■	9							■							1	0.11
12.4	**66.5**	10.64		■			■	■		■	■		5	◆						■	■		■			■	5	0.80
11.0	**98.0**	1.24	■	■	■	■	■	■	■	■	■	■	10														0	0.00
8.0	**78.5**	1.24	■	■	■		■	■	■	■	■		8								■					■	2	0.38
4.0	**92.5**	1.24	■	■		■	■	■	■	■	■	■	9														0	0.00
0.3	**58.5**	30.00		■			■	■		■	■		4	◆							■		■			■	4	1.00
0.0	**79.0**	1.00		■		■	■	■	■	■	■	■	7							■							1	0.29
Year:	2009																											
24.4	**73.0**	1.00	■	■			■	■			■		5								■	■		■		■	4	1.00
12.5	**56.0**	0.10		■			■	■		■	■		5	◆							■	■	■			■	5	0.80

Key QHEI Components

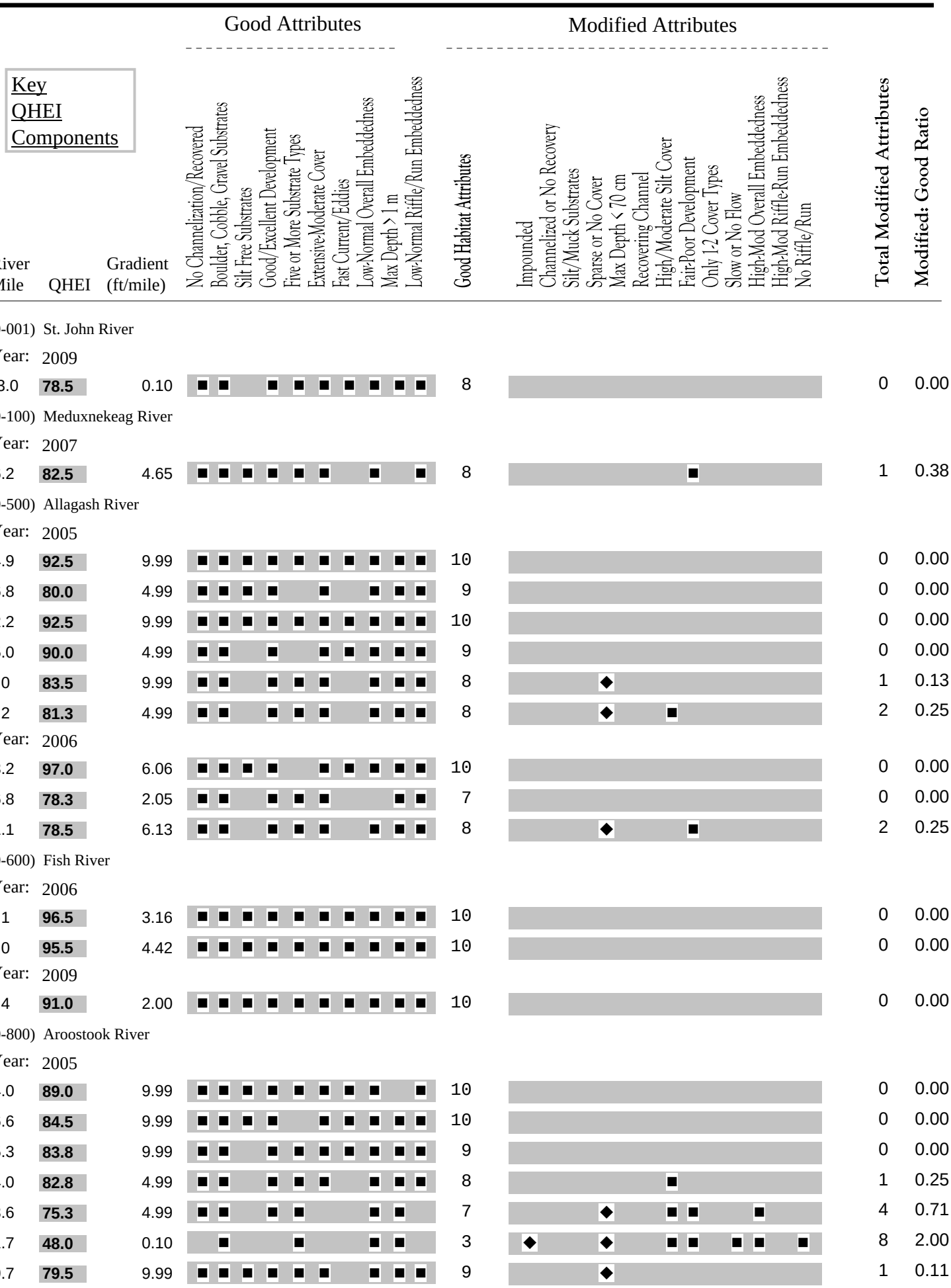
River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(10-001) Saco River																													
Year: 2009																													
1.0	**59.0**	1.00	■				■	■				■	4	◆						■		■	■	■		■	5	1.00
(10-100) Saco River Old Course																													
Year: 2006																													
3.6	**75.5**	0.89	■	■				■	■	■	■		7							■					■		2	0.43
(10-500) Ossipee River																													
Year: 2006																													
17.2	**84.5**	1.81	■	■			■	■	■	■	■	■	8							■							1	0.13
11.2	**81.8**	2.49	■	■			■	■	■	■	■	■	7							■							1	0.29
(20-001) Presumpscot River																													
Year: 2006																													
21.1	**95.0**	9.90	■	■		■	■	■	■	■	■	■	9														0	0.00
20.6	**67.5**	9.90		■			■	■			■	■	5	◆						■	■					■	4	0.80
19.9	**93.0**	12.05	■	■		■	■	■	■	■	■		8														0	0.00
18.8	**59.5**	12.05		■			■	■				■	3	◆						■	■		■	■		■	7	2.00
18.1	**99.0**	6.37	■	■		■	■	■	■	■	■	■	9														0	0.00
15.6	**62.0**	10.10		■			■	■			■	■	4	◆							■		■			■	4	1.00
14.9	**95.0**	10.10	■	■		■	■	■	■	■	■	■	9														0	0.00
14.1	**60.0**	7.04		■				■				■	3	◆							■			■		■	4	1.67
13.1	**93.5**	7.05	■	■	■	■	■	■	■	■	■	■	10														0	0.00
12.6	**87.0**	18.87	■	■		■	■	■	■	■	■	■	9														0	0.00
11.3	**71.5**	2.51	■	■			■	■			■	■	6								■					■	2	0.50
8.6	**58.3**	2.51		■				■			■	■	5	◆							■		■			■	4	0.60
7.6	**72.0**	10.64		■			■	■	■	■	■	■	7	◆							■						2	0.14
6.4	**78.0**	1.75	■	■		■	■	■	■	■	■	■	9							■							1	0.11
5.5	**54.0**	1.75	■					■			■	■	5							■	■					■	3	0.80
3.7	**56.5**	1.75	■					■			■	■	4							■	■					■	3	1.25
0.7	**87.5**	1.75	■			■	■	■	■	■	■	■	8														0	0.00
(20-100) Piscataqua River																													
Year: 2006																													
1.0	**61.8**	5.29	■	■			■	■					5							■	■		■	■		■	5	1.00

Key QHEI Components

Good Attributes

Modified Attributes

River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(20-200) Pleasant River																													
Year: 2006																													
1.0	**53.5**	10.24					■	■			■	■	3	◆	◆					■			■			■	5	1.33
(20-300) Little River																													
Year: 2006																													
1.0	**64.5**	4.13	■			■	■	■			■	■	6		◆					■			■			■	4	0.67
(21-001) Presumpscot R. - dst. Falls																													
Year: 2006																													
0.4	**90.0**	41.70	■	■	■	■	■	■	■	■	■	■	10														0	0.00
(30-001) St. John River																													
Year: 2005																													
314.6	**82.0**	9.99	■	■		■	■	■		■	■	■	8				◆										1	0.13
303.8	**82.0**	9.99	■	■			■	■		■	■	■	7							■							1	0.29
290.6	**82.0**	9.99	■	■		■	■	■	■	■	■	■	9														0	0.00
277.0	**84.5**	9.99	■	■		■	■	■	■	■	■	■	9														0	0.00
270.5	**84.3**	9.99	■	■	■	■	■	■	■	■	■	■	10														0	0.00
266.9	**79.8**	4.99	■	■		■		■	■	■	■	■	9							■			■				2	0.22
258.9	**74.5**	4.99	■	■		■	■	■	■	■	■	■	9				◆			■			■				3	0.22
244.3	**83.3**	4.99	■	■		■	■	■	■	■	■	■	9							■			■				2	0.22
237.7	**70.8**	4.99	■	■		■	■		■		■		7				◆			■	■		■				4	0.43
229.4	**58.8**	4.99	■	■			■				■		3				◆			■	■		■	■		■	6	2.00
222.2	**39.5**	0.10						■			■		2	◆	◆		◆			■	■		■	■		■	9	3.00
214.8	**36.5**	0.10					■						1	◆	◆		◆			■	■		■	■		■	8	6.00
204.5	**48.8**	0.10					■	■		■	■		3	◆			◆				■		■			■	6	1.33
Year: 2008																													
279.1	**88.0**	1.30	■	■		■	■	■	■	■	■	■	9				◆					■					1	0.11
278.7	**89.0**	1.30	■	■		■	■	■	■	■	■	■	9														0	0.00
210.7	**44.0**	1.20		■							■		2	◆			◆			■	■		■	■		■	7	3.00
210.0	**43.0**	1.20		■							■		2	◆			◆			■	■		■	■		■	8	3.00
Year: 2009																													
288.3	**82.5**	1.00	■	■		■	■	■	■	■	■	■	8														0	0.00
286.8	**91.0**	2.00	■	■		■	■	■	■	■	■	■	9														0	0.00
272.0	**68.0**	1.00	■	■			■	■	■	■	■		6				◆			■					■		3	0.67


Good Attributes
Modified Attributes
Key
QHEI
Components
River Mile
QHEI
Gradient (ft/mile)
No Channelization/Recovered
Boulder, Cobble, Gravel Substrates
Silt Free Substrates
Good/Excellent Development
Five or More Substrate Types
Extensive-Moderate Cover
Fast Current/Eddies
Low-Normal Overall Embeddedness
Max Depth > 1 m
Low-Normal Riffle/Run Embeddedness
Good Habitat Attributes
Impounded
Channelized or No Recovery
Silt/Muck Substrates
Sparse or No Cover
Max Depth < 70 cm
Recovering Channel
High/Moderate Silt Cover
Fair-Poor Development
Only 1-2 Cover Types
Slow or No Flow
High-Mod Overall Embeddedness
High-Mod Riffle-Run Embeddedness
No Riffle/Run
Total Modified Attributes
Modified: Good Ratio
(30-001) St. John River
Year: 2009
253.0 78.5 0.10 8 0 0.00
(30-100) Meduxnekeag River
Year: 2007
16.2 82.5 4.65 8 1 0.38
(30-500) Allagash River
Year: 2005
64.9 92.5 9.99 10 0 0.00
36.8 80.0 4.99 9 0 0.00
32.2 92.5 9.99 10 0 0.00
25.0 90.0 4.99 9 0 0.00
6.0 83.5 9.99 8 1 0.13
1.2 81.3 4.99 8 2 0.25
Year: 2006
63.2 97.0 6.06 10 0 0.00
36.8 78.3 2.05 7 0 0.00
21.1 78.5 6.13 8 2 0.25
(30-600) Fish River
Year: 2006
8.1 96.5 3.16 10 0 0.00
5.0 95.5 4.42 10 0 0.00
Year: 2009
2.4 91.0 2.00 10 0 0.00
(30-800) Aroostook River
Year: 2005
94.0 89.0 9.99 10 0 0.00
76.6 84.5 9.99 10 0 0.00
65.3 83.8 9.99 9 0 0.00
44.0 82.8 4.99 8 1 0.25
33.6 75.3 4.99 7 4 0.71
21.7 48.0 0.10 3 8 2.00
19.7 79.5 9.99 9 1 0.11

Key QHEI Components

Good Attributes | Modified Attributes

River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(30-800) Aroostook River																												
Year: 2005																												
15.4	**86.8**	4.99	■	■	■	■	■	■		■	■	■	9														0	0.00
9.8	**82.5**	4.99	■	■		■	■	■	■	■	■	■	9				◆			■							2	0.22
4.6	**32.3**	0.10								■			2		◆	◆	◆		■	■	■	■	■			■	9	4.00
Year: 2009																												
91.8	**71.0**	1.00	■	■		■	■		■	■	■	■	8				◆										1	0.00
(35-001) Machias River																												
Year: 2008																												
7.2	**57.0**	2.00	■					■		■	■		5								■					■	2	0.60
(40-001) St. Croix River (ust. Milltown Dam)																												
Year: 2005																												
53.9	**84.5**	1.99	■	■	■	■	■	■	■	■	■	■	10														0	0.00
44.1	**102.0**	4.99	■	■	■	■	■	■	■	■	■	■	10														0	0.00
36.0	**91.5**	4.99	■	■	■	■	■	■	■	■	■	■	10														0	0.00
30.3	**94.0**	4.99	■	■	■	■	■	■	■	■	■	■	10														0	0.00
23.5	**91.0**	4.99	■	■	■	■	■	■	■	■	■	■	10														0	0.00
19.3	**71.0**	4.99	■	■	■		■	■		■	■		6								■		■			■	3	0.67
18.9	**95.5**	2.99	■	■	■	■	■	■	■	■	■	■	10														0	0.00
15.9	**53.0**	0.10					■	■		■	■		3		◆	◆				■	■		■			■	7	1.67
9.3	**89.0**	4.99	■	■	■	■	■	■	■	■	■	■	10														0	0.00
8.9	**90.8**	4.99	■	■	■	■	■	■	■	■	■	■	10					◆									1	0.00
7.4	**93.5**	4.99	■	■		■	■	■	■	■	■	■	9														0	0.00
4.3	**83.0**	2.99	■	■	■	■	■	■		■	■	■	9			◆					■						2	0.22
1.1	**67.5**	0.99	■	■			■			■			4				◆				■		■			■	5	1.00
(41-001) St. Croix River (dst. Milltown Dam)																												
Year: 2005																												
0.6	**89.0**	4.99	■	■	■	■	■	■	■	■	■	■	10														0	0.00
(50-001) Kennebec River (ust. Edwards Dam)																												
Year: 2002																												
74.7	**85.0**	4.55	■	■	■	■	■	■	■	■	■	■	10														0	0.00
68.2	**62.8**	0.00					■	■		■	■		4		◆						■		■			■	4	0.75
66.1	**61.0**	15.38		■	■			■		■	■		5		◆		◆				■					■	5	0.80

Key QHEI Components

Good Attributes | Modified Attributes

River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(50-001) Kennebec River (ust. Edwards Dam)																												
Year: 2002																												
64.9	**92.8**	15.38	■	■	■	■	■	■	■	■	■	■	10														0	0.00
59.3	**76.0**	11.11	■	■		■	■		■	■	■		8				◆		■					■	■		4	0.50
57.2	**62.3**	0.10					■	■		■	■		4		◆					■		■				■	4	0.75
53.2	**60.0**	0.10	■					■		■	■		5		◆					■		■	■			■	5	0.80
49.9	**97.0**	13.33	■	■	■	■	■	■	■	■	■	■	10														0	0.00
46.1	**87.5**	5.26	■	■		■	■	■		■	■		8														0	0.00
36.5	**88.0**	23.08	■	■	■	■	■	■	■	■	■	■	10														0	0.00
32.1	**57.5**	0.10		■			■	■			■		3		◆			◆		■		■	■			■	6	1.67
25.1	**58.3**	0.10		■			■	■		■			4		◆					■		■				■	5	1.00
23.9	**97.3**	18.18	■	■		■	■	■	■	■	■	■	9														0	0.00
20.8	**62.5**	18.75		■			■	■		■	■		5		◆					■		■				■	4	0.80
18.5	**70.5**	18.75	■	■	■	■	■	■		■	■	■	9		◆					■							2	0.33
17.4	**88.0**	18.75	■	■	■	■	■	■	■	■	■	■	10														0	0.00
16.5	**90.0**	11.11	■	■		■	■	■	■	■	■		9														0	0.00
15.1	**92.8**	22.22	■	■		■	■	■	■	■	■	■	9														0	0.00
11.0	**93.5**	14.63	■	■		■	■	■	■	■	■	■	9														0	0.00
6.8	**68.5**	5.08		■		■	■	■		■	■		6						■	■	■		■			■	5	0.83
4.0	**87.0**	14.29	■	■		■	■	■	■	■	■	■	9						■								1	0.11
0.1	**75.3**	5.26		■		■	■	■		■	■	■	7				◆		■		■						3	0.43
Year: 2008																												
17.4	**84.0**	1.60	■	■		■	■	■	■	■	■	■	8														0	0.00
16.7	**88.0**	1.60	■	■		■	■	■	■	■	■	■	8														0	0.00
15.1	**85.0**	1.60	■	■		■	■	■	■	■	■	■	9														0	0.00
11.0	**89.8**	1.60	■	■	■	■	■	■	■	■	■	■	10														0	0.00
9.0	**85.0**	1.60	■	■		■	■	■	■	■	■	■	9														0	0.00
7.5	**67.0**	1.60	■	■			■	■		■	■		5								■		■			■	3	0.80
4.2	**93.0**	1.60	■	■		■	■	■	■	■	■	■	9														0	0.00
0.1	**83.8**	1.60	■	■		■	■	■	■	■	■	■	9														0	0.00
Year: 2009																												
72.9	**96.0**	1.00	■	■		■	■	■	■	■	■	■	9														0	0.00

Key QHEI Components

Good Attributes | Modified Attributes

River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(50-001) Kennebec River (ust. Edwards Dam)																												
Year: 2009																												
72.9	**82.5**	4.00	■	■		■	■		■	■	■	■	8				◆										1	0.00
47.1	**78.5**	0.10	■	■		■	■	■	■		■		7				◆		■					■	■		4	0.43
17.4	**83.5**	1.60	■	■	■	■	■	■	■	■	■	■	10				◆										1	0.00
16.7	**87.5**	1.60	■	■		■	■	■	■	■	■	■	9														0	0.00
15.1	**87.0**	1.60	■	■		■	■	■	■	■	■	■	9														0	0.00
11.0	**89.3**	1.60	■	■	■	■	■	■	■	■	■	■	10														0	0.00
9.0	**85.0**	1.60	■	■		■	■		■	■	■	■	8				◆			■					■		3	0.25
4.2	**93.5**	1.60	■	■		■	■	■	■	■	■	■	9														0	0.00
0.1	**82.8**	1.60	■	■		■	■	■	■	■	■	■	9				◆			■							2	0.11
(50-100) Sebasticook River																												
Year: 2007																												
6.3	**89.2**	7.57	■	■		■	■	■	■	■	■	■	9														0	0.00
Year: 2008																												
5.3	**93.3**	2.00	■	■	■	■	■	■	■	■	■	■	10														0	0.00
Year: 2009																												
17.3	**80.0**	0.10	■	■		■	■	■	■	■	■	■	9														0	0.00
12.4	**81.5**	0.10	■	■		■	■	■	■	■	■	■	9														0	0.00
5.3	**90.0**	2.00	■	■		■	■	■	■	■	■	■	9														0	0.00
3.7	**74.0**	1.00		■		■	■	■	■		■		6							■					■	■	3	0.50
1.8	**68.0**	2.00		■			■		■	■	■	■	6				◆			■		■					3	0.33
(50-300) Sandy River																												
Year: 2006																												
9.0	**89.0**	5.46	■	■		■	■	■	■	■	■	■	9														0	0.00
8.3	**97.0**	8.92	■	■	■	■	■	■	■	■	■	■	10														0	0.00
6.6	**55.0**	2.77		■			■	■	■	■	■		5			◆						■				■	3	0.80
5.5	**57.5**	2.77		■			■	■		■	■		5			◆						■				■	3	0.60
5.0	**47.5**	2.77		■			■	■			■		3			◆				■	■			■		■	5	2.00
4.6	**85.3**	5.03	■	■		■	■	■	■	■	■		9														0	0.00
3.5	**96.3**	5.03	■	■	■	■	■	■	■	■	■	■	10														0	0.00
Year: 2009																												
9.5	**83.3**	4.00	■	■		■	■	■	■	■	■	■	9														0	0.00

Key QHEI Components

River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(50-300) Sandy River																												
Year: 2009																												
6.6	**50.5**	1.00	■			■	■	■		■			5						■	■				■	■		5	1.00
5.6	**66.5**	5.00	■		■	■	■	■		■	■		7						■					■	■		4	0.43
4.3	**76.8**	3.00	■	■		■	■	■		■			7											■	■		2	0.29
(50-500) Dead River																												
Year: 2007																												
22.0	**94.0**	3.20	■	■		■	■	■	■	■	■	■	9														0	0.00
15.4	**96.5**	32.26	■	■	■	■	■	■	■	■	■		10											■			1	0.10
(50-600) West Outlet - Moosehead Lake																												
Year: 2007																												
8.3	**85.0**	6.89	■	■	■	■	■	■		■	■	■	9		◆					■							2	0.22
6.6	**97.0**	7.81	■	■	■	■	■	■	■	■	■	■	10														0	0.00
0.8	**99.0**	6.89	■	■	■	■	■	■	■	■	■	■	10														0	0.00
(50-700) East Outlet - Moosehead Lake																												
Year: 2007																												
2.4	**87.0**	25.00	■	■	■	■	■	■	■	■	■	■	10														0	0.00
0.9	**89.5**	18.18	■	■	■	■	■	■	■	■	■	■	10														0	0.00
(50-900) Moose River																												
Year: 2007																												
26.4	**58.0**	1.17	■			■	■	■		■	■		6		◆					■		■				■	4	0.50
(55-100) Quinebaug River																												
Year: 2008																												
31.3	**93.8**	7.40	■	■		■	■	■	■	■	■	■	9														0	0.00
21.5	**99.0**	6.30	■	■		■	■	■	■	■	■	■	9														0	0.00
Year: 2009																												
38.1	**76.5**	2.70	■	■		■	■	■	■	■	■	■	9														1	0.00
24.9	**94.0**	8.65	■	■		■	■	■	■	■	■	■	9														0	0.00
15.2	**79.0**	2.70	■	■		■	■	■	■	■	■	■	9														0	0.00
14.1	**79.0**	2.70	■	■		■	■	■	■	■	■	■	9														0	0.00
(55-110) Shetucket River																												
Year: 2008																												
6.3	**87.0**	38.40	■	■	■	■	■	■	■	■	■	■	10														0	0.00

Good Attributes | Modified Attributes

Key QHEI Components

River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
Year:	2009																											
4.0	**63.0**	4.91	■				■	■		■	■		4						■	■					■		3	1.25
(55-200)	Farmington River																											
Year:	2009																											
25.7	**73.0**	0.55	■	■			■	■	■	■	■	■	8							■							1	0.13
21.8	**67.5**	0.55	■	■			■	■	■	■	■		7							■					■		2	0.29
5.6	**82.0**	3.00	■	■		■	■	■	■	■	■	■	9														0	0.00
2.2	**59.5**	0.68	■	■				■	■		■		6							■				■		■	3	0.67
0.3	**58.0**	0.68	■	■				■	■		■		6							■				■		■	3	0.67
(55-250)	W. Br. Farmington River																											
Year:	2009																											
15.3	**92.0**	12.80	■	■		■	■	■	■	■	■	■	9														0	0.00
(55-300)	Pawcatuck River																											
Year:	2009																											
21.9	**86.0**	2.70	■	■		■	■	■	■	■	■	■	9														0	0.00
20.5	**87.0**	2.70	■	■		■	■	■	■	■	■	■	9														0	0.00
18.0	**73.0**	2.70	■	■			■	■		■	■		6							■					■		2	0.50
13.5	**79.0**	2.70	■	■				■	■	■	■		7							■					■		2	0.43
13.4	**69.0**	2.70	■	■				■	■	■	■		7							■						■	2	0.43
12.4	**66.8**	2.70	■	■				■		■	■		6							■			■			■	3	0.50
10.1	**71.5**	1.10					■	■	■		■	■	5		◆			■	■	■				■			5	0.80
8.6	**75.0**	1.10	■	■			■	■	■	■	■	■	8							■							1	0.13
7.6	**61.0**	1.10	■	■				■	■		■		5						■	■				■		■	4	1.20
4.2	**92.0**	5.40	■	■		■	■	■	■	■	■	■	9														0	0.00
(56-001)	Housatonic River																											
Year:	2008																											
61.6	**92.5**	9.30	■	■	■	■	■	■	■	■	■	■	10														0	0.00
50.0	**86.0**	2.10	■	■		■	■	■	■	■	■	■	9														0	0.00
43.1	**49.0**	1.00		■				■			■		3		◆				■	■			■	■		■	6	2.00
Year:	2009																											
90.2	**79.5**	2.50	■	■		■	■	■	■	■	■	■	9														1	0.00
80.9	**58.5**	10.40		■				■		■	■		5		◆					■						■	5	0.60
47.9	**88.5**	4.70	■	■		■	■	■	■	■	■	■	9														0	0.00

Key QHEI Components

River Mile	QHEI	Gradient (ft/mile)	Good Attributes: No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Modified Attributes: Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(57-100) Blackstone River																												
Year: 2009																												
43.4	**70.0**	5.20	■		■	■	■	■	■	■	■		7							■					■		2	0.29
40.8	**79.0**	5.80	■		■	■	■	■	■	■	■		7							■					■		2	0.29
38.0	**85.0**	11.80	■		■	■	■	■	■	■	■	■	8							■	■						2	0.25
37.6	**52.5**	0.10	■					■			■		3	◆							■	■		■		■	5	2.00
32.0	**81.5**	6.25	■		■	■	■	■	■		■	■	7							■	■			■			3	0.43
31.7	**82.8**	6.25	■	■	■	■	■	■	■		■	■	8											■			1	0.13
14.7	**87.3**	9.00	■	■	■	■	■	■	■	■	■	■	9														0	0.00
13.3	**53.3**	4.35	■		■			■			■		3	◆						■	■		■	■		■	6	2.00
11.0	**63.5**	4.20	■		■			■			■		3							■	■	■		■		■	5	2.33
7.9	**85.0**	4.20	■	■	■	■	■	■	■	■	■	■	9														0	0.00
7.0	**64.0**	4.80	■		■		■	■	■		■	■	6	◆						■	■			■		■	5	0.50
5.6	**76.8**	4.20	■	■			■	■	■	■	■	■	8								■						1	0.13
(57-200) Pawtuxet River																												
Year: 2009																												
8.9	**68.0**	1.70	■	■				■	■		■		6							■	■			■	■		4	0.83
8.2	**71.0**	1.77	■	■				■	■		■		6							■	■			■	■		4	0.67
5.1	**73.0**	1.77	■	■		■		■	■		■		7							■				■	■		3	0.43
4.1	**46.3**	0.10	■					■			■		4	◆						■	■		■	■		■	6	1.25
3.0	**80.0**	5.95	■				■	■	■	■	■	■	7							■	■	■					3	0.43
1.3	**58.5**	1.77	■	■				■			■		5							■	■			■		■	4	1.00
(57-300) Wood River																												
Year: 2009																												
6.4	**72.5**	0.68	■			■		■			■	■	6													■	1	0.33
(58-100) Contoocook River																												
Year: 2009																												
28.7	**91.5**	32.00	■	■	■	■	■	■	■	■	■	■	10														0	0.00
3.3	**50.0**	0.10	■				■	■			■		4	◆						■	■		■	■		■	6	1.25
(60-001) Androscoggin River (ust. Brunswick Dam)																												
Year: 2003																												
164.3	**81.5**	5.80	■		■	■		■		■	■	■	8														0	0.00
158.8	**85.0**	12.50	■	■	■	■	■	■	■	■	■	■	10														0	0.00

Good Attributes | Modified Attributes

Key QHEI Components

River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(60-001) Androscoggin River (ust. Brunswick Dam)																												
Year: 2003																												
148.1	**44.0**	0.10	■					■		■			3	◆	◆		◆			■			■		■	6	1.33
144.7	**83.8**	17.39	■	■		■	■	■	■	■	■		9							■				■		2	0.22
139.2	**82.5**	3.64	■	■		■	■	■	■		■		7											■	■	2	0.29
134.1	**49.8**	0.10	■				■	■			■		3	◆	◆					■	■		■	■	■	8	2.00
132.0	**59.3**	0.10	■			■		■	■		■	■	7	◆	◆					■	■			■		5	0.57
131.5	**65.0**	0.10	■	■		■	■	■		■	■	■	7	◆	◆						■					3	0.43
130.5	**69.5**	28.60	■	■		■	■	■	■	■		■	9									■				0	0.00
128.6	**55.8**	0.10		■			■	■		■	■		5	◆	◆						■		■		■	5	0.60
128.0	**76.5**	0.10		■	■	■	■	■	■	■		■	9						■							1	0.22
124.4	**91.3**	33.33	■	■	■	■	■	■	■	■	■	■	10														0	0.00
123.4	**59.5**	0.10		■			■	■		■	■		4	◆			◆			■			■		■	5	1.00
119.8	**82.0**	12.50	■	■		■	■	■	■	■	■	■	9											■		1	0.11
112.8	**89.8**	15.38	■	■		■	■	■	■	■	■	■	9													0	0.00
103.7	**86.8**	6.25	■	■		■	■	■	■	■	■	■	9													0	0.00
97.3	**80.8**	14.28	■	■	■	■	■	■		■	■		9										■	■		2	0.22
88.7	**77.5**	2.33	■	■			■	■		■	■	■	7				◆			■						2	0.29
83.1	**45.5**	0.10						■			■		2	◆	◆					■	■		■	■	■	7	3.00
79.3	**79.5**	28.57	■	■	■	■	■	■	■	■	■		10											■		1	0.10
78.5	**81.5**	13.33	■	■	■	■		■	■	■	■		10													0	0.00
76.9	**84.5**	18.18	■	■	■	■	■	■	■	■	■		10													0	0.00
70.8	**84.5**	3.92	■	■	■	■	■	■	■	■	■	■	10													0	0.00
66.2	**72.3**	4.35	■	■			■	■		■	■	■	6							■	■			■		3	0.83
61.7	**58.0**	0.10		■			■	■		■	■		4	◆						■	■		■	■	■	6	1.50
58.4	**83.3**	27.03	■	■	■	■	■	■	■	■	■	■	10													0	0.00
57.1	**50.3**	0.10						■		■	■		3	◆							■		■		■	4	1.33
55.8	**49.3**	0.10					■	■		■	■		3	◆									■		■	3	1.00
52.8	**85.0**	14.28	■	■	■	■	■	■	■	■	■	■	10													0	0.00
51.1	**85.0**	11.76	■	■		■	■	■	■	■	■	■	9							■				■		2	0.22
46.6	**92.0**	3.45	■	■	■	■	■	■	■	■	■	■	10													0	0.00
41.2	**80.3**	3.92	■	■	■	■	■	■	■	■	■	■	10													0	0.00

Key QHEI Components

River Mile	QHEI	Gradient (ft/mile)	Good Attributes: No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Modified Attributes: Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(60-001) Androscoggin River (ust. Brunswick Dam)																												
Year: 2003																												
38.9	**41.5**	0.10	■					■			■	■	3	◆	◆		◆			■			■			■	7	1.33
35.4	**48.0**	1.00	■					■			■	■	3	◆			◆						■			■	5	1.00
31.4	**44.0**	0.10		■				■					3	◆						■	■		■	■		■	7	2.00
27.9	**46.0**	0.10		■				■			■	■	4	◆	◆					■	■		■			■	8	1.25
26.9	**69.3**	0.10		■		■	■	■	■	■	■	■	8	◆							■						2	0.25
25.2	**76.8**	0.10	■	■	■	■	■	■	■	■	■	■	10	◆													1	0.00
22.6	**75.5**	6.45	■	■		■	■	■		■	■	■	8								■						1	0.25
21.9	**84.8**	16.67	■	■		■	■	■	■	■	■	■	9														0	0.00
20.4	**84.3**	19.23	■	■	■	■	■	■	■	■	■	■	10														0	0.00
16.0	**64.8**	1.20	■	■				■		■	■		6							■	■		■	■		■	5	0.83
12.8	**91.0**	3.22	■	■	■	■	■	■	■	■	■		10														0	0.00
9.6	**67.5**	0.10		■	■		■	■		■	■		6	◆							■		■			■	4	0.50
8.0	**80.3**	37.50	■	■	■	■	■	■	■	■	■	■	10														0	0.00
7.0	**58.0**	0.10						■		■	■		3	◆	◆						■		■			■	5	1.33
4.3	**74.5**	25.00	■			■	■	■	■	■	■	■	8														0	0.00
1.5	**69.8**	6.25	■			■		■		■	■	■	7														0	0.00
Year: 2009																												
171.0	**91.0**	2.40	■	■		■	■	■	■	■	■	■	9												■		1	0.11
170.9	**53.0**	0.10		■			■	■			■		3	◆						■	■			■	■	■	6	2.00
81.6	**64.0**	0.10		■	■	■	■	■		■	■		6	◆												■	2	0.50
10.8	**85.0**	1.00	■	■		■	■	■	■	■	■	■	9							■							1	0.11
(60-700) Magalloway																												
Year: 2007																												
15.8	**81.0**	51.37	■	■		■	■	■	■	■		■	9														0	0.00
(60-800) Rapid River																												
Year: 2006																												
5.9	**77.0**	0.01	■		■	■	■	■	■	■	■	■	9														0	0.00
Year: 2007																												
7.2	**97.5**	8.54	■	■	■	■	■	■	■	■	■	■	10														0	0.00
4.9	**82.0**	53.76	■	■	■	■	■	■	■	■	■	■	10														0	0.00

Good Attributes | Modified Attributes

Key QHEI Components

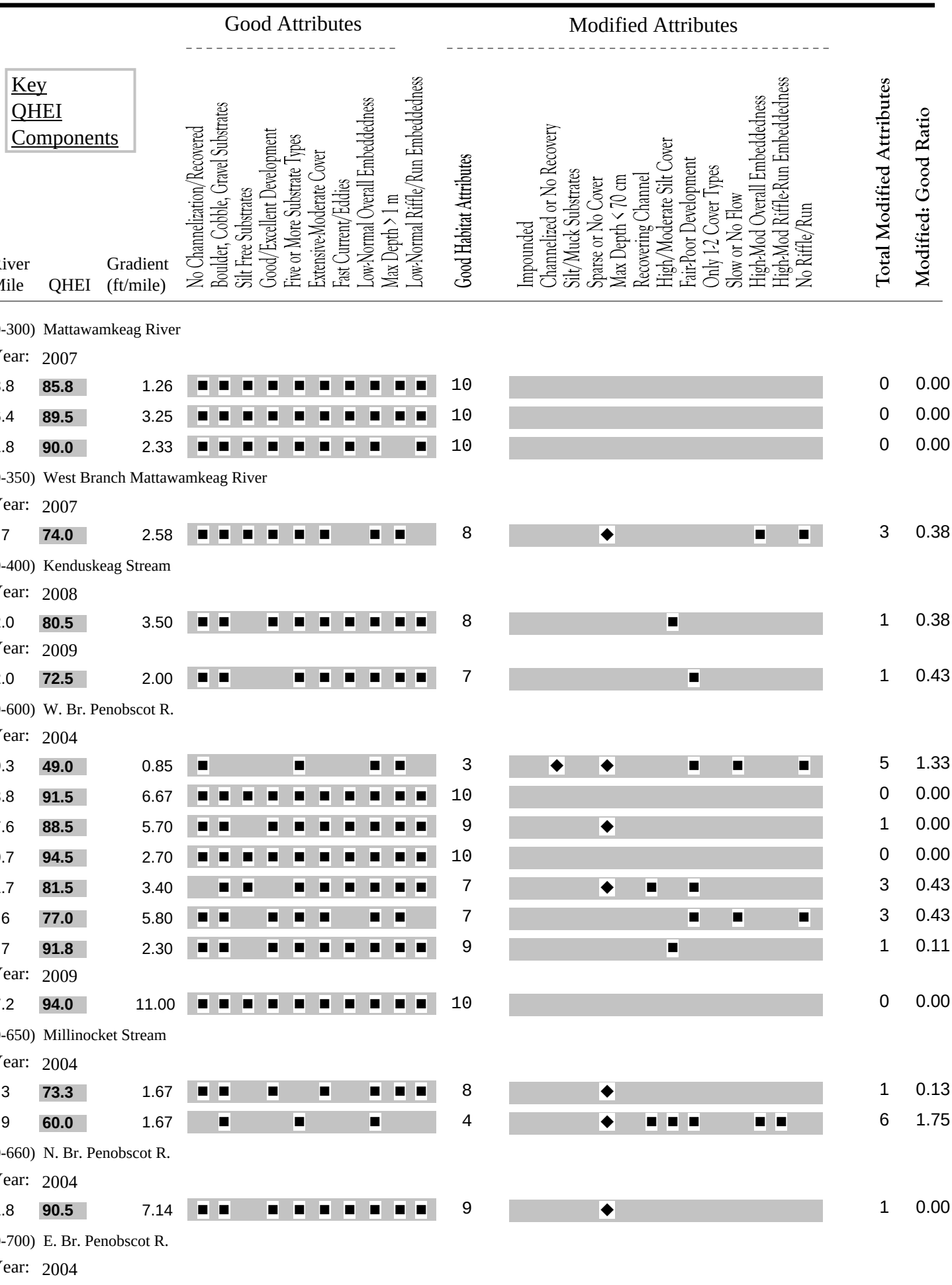
River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(60-900) C Pond																													
Year: 2006																													
0.1	**47.0**	0.01	■		■		■	■		■	■		4		◆								■			■		3	0.50
(65-001) Winooski River																													
Year: 2008																													
49.7	**80.8**	6.00	■	■		■	■	■	■	■	■	■	9															0	0.00
48.0	**80.0**	6.00		■		■	■	■	■	■	■	■	8						■									1	0.13
31.0	**85.5**	3.40	■	■		■	■	■	■	■	■	■	9															0	0.00
12.4	**67.5**	2.00	■	■			■	■	■		■		6							■	■				■		■	4	0.83
Year: 2009																													
28.1	**76.5**	4.04	■	■		■	■	■	■		■		7												■	■		2	0.29
23.0	**55.5**	3.37		■			■	■			■		4		◆						■			■	■		■	5	1.00
21.4	**57.5**	3.37		■			■	■			■		4		◆					■	■			■	■		■	6	1.25
15.3	**49.5**	0.10		■				■	■		■		5		◆						■			■	■		■	5	0.80
4.1	**63.5**	3.37	■	■				■			■		4								■			■	■		■	4	1.25
(66-001) Missisquoi River																													
Year: 2008																													
40.1	**87.0**	5.60	■	■		■	■	■	■	■	■	■	9															0	0.00
(70-001) Penobscot River																													
Year: 2004																													
66.1	**82.0**	5.20	■	■			■	■	■	■	■	■	7		◆						■							2	0.29
64.5	**88.5**	14.00	■	■	■	■	■	■	■	■	■	■	10															0	0.00
59.7	**54.0**	0.10		■			■	■		■			3		◆						■		■				■	6	1.33
56.3	**92.3**	5.00	■	■	■	■	■	■	■	■	■	■	10															0	0.00
52.0	**87.3**	0.94	■	■	■	■	■	■	■	■	■	■	10															0	0.00
45.8	**83.8**	0.94	■	■		■	■	■	■	■	■	■	9				◆											1	0.00
39.8	**89.5**	0.95	■	■		■	■	■	■	■	■	■	9								■							1	0.22
38.8	**83.8**	0.95	■	■		■	■	■		■	■	■	8								■							1	0.38
34.0	**67.0**	0.95	■	■		■	■		■	■	■	■	8									■						0	0.00
29.0	**55.5**	0.10					■	■		■	■		3		◆						■		■				■	5	1.33
26.0	**84.3**	0.65	■	■	■	■	■	■	■	■	■	■	10				◆											1	0.00
17.4	**84.0**	2.00	■	■	■	■	■	■	■	■	■	■	10				◆											1	0.00
11.7	**66.8**	0.80	■	■			■	■		■	■		5								■		■				■	3	0.80

Key QHEI Components

Good Attributes

Modified Attributes

River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(70-001) Penobscot River																												
Year: 2004																												
3.3	**72.0**	0.80	■	■			■		■	■	■	■	6	◆			◆			■	■						4	0.50
1.6	**82.0**	0.80	■	■		■	■	■	■	■	■	■	9														0	0.00
0.4	**44.3**	0.10		■			■	■		■	■		4	◆	◆					■	■		■		■		6	1.25
Year: 2005																												
39.8	**72.3**	0.95	■	■		■	■	■		■	■		6				◆			■	■		■		■		4	0.67
Year: 2009																												
29.3	**72.0**	6.00		■			■	■		■	■		5	◆						■					■		3	0.60
29.3	**54.0**	0.10		■			■			■	■		3	◆			◆			■	■		■		■		5	1.33
8.8	**68.0**	7.00		■		■	■	■			■		4	◆										■	■		3	1.00
(70-100) Stillwater Branch																												
Year: 2004																												
8.7	**57.0**	0.10		■	■		■	■		■	■		5	◆						■		■			■		5	0.80
5.6	**78.0**	7.30	■			■	■	■	■	■	■	■	8	◆						■							2	0.13
0.4	**70.0**	3.84	■			■	■	■		■	■		6	◆			◆			■							3	0.33
(70-110) Pushaw Stream																												
Year: 2004																												
3.5	**62.5**	1.50	■				■	■		■	■		5		◆					■		■	■			■	4	0.60
(70-150) Passadumkeag Stream																												
Year: 2004																												
7.0	**83.5**	1.00	■	■	■	■	■	■	■	■	■	■	10		◆												1	0.00
Year: 2009																												
7.0	**88.0**	1.00	■	■		■	■	■	■	■	■	■	9														0	0.00
(70-200) Piscataquis River																												
Year: 2004																												
24.5	**79.0**	2.50	■		■	■	■		■	■	■	■	8				◆			■							2	0.25
Year: 2007																												
14.9	**88.0**	7.74	■	■	■	■	■	■		■	■		9												■		1	0.22
(70-250) Pleasant River																												
Year: 2008																												
4.4	**72.0**	1.50	■	■		■	■	■	■		■		7												■	■	2	0.29


Good Attributes
Modified Attributes
Key QHEI Components
River Mile
QHEI
Gradient (ft/mile)
No Channelization/Recovered
Boulder, Cobble, Gravel Substrates
Silt Free Substrates
Good/Excellent Development
Five or More Substrate Types
Extensive-Moderate Cover
Fast Current/Eddies
Low-Normal Overall Embeddedness
Max Depth > 1 m
Low-Normal Riffle/Run Embeddedness
Good Habitat Attributes
Impounded
Channelized or No Recovery
Silt/Muck Substrates
Sparse or No Cover
Max Depth < 70 cm
Recovering Channel
High/Moderate Silt Cover
Fair-Poor Development
Only 1-2 Cover Types
Slow or No Flow
High-Mod Overall Embeddedness
High-Mod Riffle-Run Embeddedness
No Riffle/Run
Total Modified Attributes
Modified: Good Ratio
(70-300) Mattawamkeag River
Year: 2007
48.8 85.8 1.26 10 0 0.00
36.4 89.5 3.25 10 0 0.00
11.8 90.0 2.33 10 0 0.00
(70-350) West Branch Mattawamkeag River
Year: 2007
5.7 74.0 2.58 8 3 0.38
(70-400) Kenduskeag Stream
Year: 2008
22.0 80.5 3.50 8 1 0.38
Year: 2009
22.0 72.5 2.00 7 1 0.43
(70-600) W. Br. Penobscot R.
Year: 2004
89.3 49.0 0.85 3 5 1.33
43.8 91.5 6.67 10 0 0.00
37.6 88.5 5.70 9 1 0.00
29.7 94.5 2.70 10 0 0.00
11.7 81.5 3.40 7 3 0.43
5.6 77.0 5.80 7 3 0.43
3.7 91.8 2.30 9 1 0.11
Year: 2009
47.2 94.0 11.00 10 0 0.00
(70-650) Millinocket Stream
Year: 2004
3.3 73.3 1.67 8 1 0.13
1.9 60.0 1.67 4 6 1.75
(70-660) N. Br. Penobscot R.
Year: 2004
11.8 90.5 7.14 9 1 0.00
(70-700) E. Br. Penobscot R.
Year: 2004

Key QHEI Components

Good Attributes | Modified Attributes

River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(70-700) E. Br. Penobscot R.																												
Year: 2004																												
6.3	**80.5**	5.26	■	■		■	■		■	■	■	■	8				◆				■						2	0.25
1.5	**66.5**	0.86	■	■			■			■	■		5		◆		◆			■	■			■			5	1.00
Year: 2007																												
46.5	**81.5**	15.43	■	■	■	■	■	■	■	■	■	■	10				◆										1	0.00
41.5	**89.5**	16.39	■	■		■	■	■	■	■	■	■	9														0	0.00
37.1	**85.5**	12.25	■	■		■	■	■	■	■	■	■	9				◆										1	0.00
23.5	**87.5**	3.13	■	■	■	■	■	■	■	■	■	■	10														0	0.00
Year: 2008																												
22.6	**82.0**	5.80	■	■		■	■	■	■		■		7												■	■	2	0.29
Year: 2009																												
6.3	**91.3**	5.26	■	■		■	■	■	■	■	■	■	9														0	0.00
1.5	**87.0**	0.86	■	■	■	■	■	■	■	■	■	■	10														0	0.00
(80-001) Connecticut River																												
Year: 2008																												
323.6	**92.5**	13.80	■	■	■	■	■	■	■	■	■	■	10														0	0.00
322.0	**89.0**	20.10	■	■	■	■	■	■	■	■	■	■	10														0	0.00
313.7	**82.5**	2.00	■	■	■	■	■	■	■	■	■	■	10														0	0.00
307.1	**65.0**	2.00	■	■			■	■	■		■		6								■				■	■	3	0.67
291.0	**87.0**	16.60	■	■		■	■	■	■	■	■	■	9														0	0.00
267.8	**70.8**	1.30					■	■	■		■	■	5							■		■			■		3	0.60
257.9	**55.5**	1.50	■					■			■		4								■	■			■	■	4	1.25
247.0	**88.3**	2.50	■	■	■	■	■	■	■	■	■	■	10														0	0.00
243.8	**58.0**	2.50		■			■	■			■		3		◆		◆				■	■		■	■	■	7	2.00
235.9	**71.0**	2.50		■			■	■	■	■	■		5							■		■				■	3	0.80
228.5	**74.0**	2.50		■			■	■	■	■	■		5							■		■				■	3	0.80
227.1	**89.3**	2.50	■	■	■	■	■	■	■	■	■	■	10														0	0.00
221.7	**76.0**	2.50	■	■			■	■	■	■	■		7								■	■				■	3	0.43
217.6	**83.3**	2.50	■	■		■		■	■	■	■	■	9														0	0.00
213.1	**93.0**	2.50	■	■	■	■		■	■	■	■	■	10														0	0.00
200.7	**50.0**	2.50		■			■	■			■		4		◆		◆				■	■		■	■	■	6	1.25
194.4	**50.8**	2.50						■			■		2		◆						■	■		■	■	■	5	2.50

Good Attributes | Modified Attributes

Key QHEI Components

River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(80-001) Connecticut River																													
Year: 2008																													
179.2	**53.0**	2.50	■				■	■			■		3	◆						■	■		■	■		■	6	2.00
170.9	**53.0**	2.50	■				■	■			■		3	◆						■	■		■	■		■	7	2.00
166.3	**63.0**	2.50	■				■	■			■		4	◆						■	■		■	■		■	6	1.25
165.6	**46.0**	0.10				■		■			■		3	◆	◆					■			■	■		■	6	1.67
163.9	**67.0**	2.50	■	■		■			■	■	■		7					◆				■			■		2	0.29
161.5	**71.5**	2.50	■	■		■	■	■			■		6		◆										■		2	0.50
155.6	**51.0**	2.00						■			■		2	◆	◆					■	■			■	■		7	3.00
153.8	**62.8**	2.00		■	■				■		■	■	6				◆		■		■	■		■			4	0.67
148.5	**68.0**	2.00		■				■	■		■		4						■	■	■			■	■		6	1.75
144.4	**63.5**	2.00	■	■				■			■		4							■	■		■	■	■		6	1.50
139.5	**68.0**	2.00	■			■	■	■			■	■	5		◆					■			■	■			4	0.80
137.4	**68.0**	2.00	■	■				■			■		4							■	■		■	■	■		6	1.50
133.2	**49.0**	2.00	■					■			■		3		◆					■	■		■	■			7	1.67
131.4	**51.0**	2.00	■								■		3		◆					■	■		■	■			5	1.33
125.6	**48.5**	0.10	■			■		■			■		4	◆	◆					■			■	■		■	7	1.25
121.9	**49.0**	2.50					■	■			■		2	◆	◆					■	■		■	■		■	7	3.00
116.2	**79.0**	2.00		■			■	■			■	■	4						■		■			■			3	1.25
114.7	**63.0**	2.00	■					■		■	■		4							■	■		■			■	4	1.25
105.7	**70.0**	2.00	■			■		■		■	■		5										■			■	2	0.60
102.3	**59.5**	2.00	■					■		■	■		4		◆					■			■			■	5	1.00
97.6	**54.0**	2.00	■			■					■		4		◆		◆			■			■	■		■	7	1.00
92.5	**55.0**	2.50					■	■			■		2	◆	◆					■	■		■	■		■	7	3.00
90.1	**48.0**	2.50						■			■		2	◆	◆					■	■		■	■		■	9	3.00
89.0	**52.0**	2.50						■	■		■		3	◆	◆					■	■			■		■	7	1.67
88.4	**95.5**	2.50	■	■		■	■	■	■	■	■	■	9														0	0.00
83.3	**62.5**	2.50	■	■			■	■			■		5								■					■	2	0.80
79.2	**64.3**	2.50	■	■				■			■	■	5								■		■			■	3	0.80
72.2	**74.0**	2.50	■	■			■	■	■	■	■		7					◆			■					■	3	0.43
68.8	**54.5**	2.50						■			■		2	◆							■		■	■		■	5	2.50
Year: 2009																													

Good Attributes | Modified Attributes

Key QHEI Components

River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(80-001) Connecticut River																												
Year: 2009																												
302.2	**73.0**	0.10	■	■		■	■	■				■	6				◆							■	■		3	0.50
250.9	**50.0**	0.10		■			■					■	3	◆			◆			■				■		■	5	1.67
206.4	**67.0**	0.10	■	■			■	■				■	5							■	■			■		■	4	1.00
181.4	**54.5**	0.30	■	■			■		■	■	■	■	5				◆				■					■	3	0.80
166.3	**48.0**	0.43					■	■			■	■	4	◆	◆					■	■		■			■	6	1.00
165.6	**45.5**	0.43					■	■			■	■	3	◆	◆					■	■		■			■	6	1.67
139.5	**51.5**	1.45		■			■	■				■	3	◆						■	■		■	■		■	6	2.00
137.4	**42.0**	1.45					■					■	1	◆	◆		◆			■	■		■	■		■	9	6.00
92.5	**51.0**	1.50					■	■			■	■	3	◆	◆					■	■		■			■	6	1.67
90.1	**54.0**	0.10	■					■			■	■	4		◆					■	■		■			■	5	1.25
67.9	**84.3**	5.00	■	■		■	■	■	■	■	■	■	9														0	0.00
66.9	**87.0**	5.00	■	■		■	■	■	■	■	■	■	8														0	0.00
66.1	**84.3**	0.92	■	■	■	■	■	■	■	■	■	■	10					◆			■						3	0.10
65.5	**83.0**	0.92	■	■	■	■		■	■		■	■	9												■		1	0.11
64.7	**66.0**	0.92		■		■		■	■	■	■	■	8	◆						■							2	0.13
63.4	**81.0**	0.92	■	■		■	■	■		■	■	■	8							■				■			2	0.50
60.7	**76.5**	0.92	■	■		■		■	■	■	■		8							■					■		2	0.25
57.3	**67.0**	0.66	■	■		■			■		■		6					◆		■				■	■		4	0.67
56.1	**62.5**	0.66	■			■		■	■		■		5			◆				■				■	■		6	1.00
55.9	**65.0**	0.66		■				■	■		■		4	◆						■	■			■	■		5	1.25
54.5	**52.0**	0.66	■	■			■				■		3					◆		■	■			■		■	5	2.00
54.3	**63.0**	0.66	■	■		■		■			■		5							■				■	■		4	1.00
43.8	**70.0**	0.66	■	■		■		■			■		6							■				■	■		4	0.67
32.3	**50.0**	0.10	■					■			■		3			◆				■	■		■	■		■	8	2.00
30.5	**61.5**	2.60		■		■	■				■	■	5	◆				◆		■						■	4	0.60
30.5	**76.5**	2.60	■	■		■	■				■	■	6					◆		■	■			■			5	0.83
30.0	**68.8**	2.60		■	■	■		■	■	■	■	■	9	◆												■	2	0.00
29.7	**86.0**	2.60	■	■	■	■	■	■	■	■	■		10														0	0.00
23.9	**45.0**	2.60	■								■		2			◆		◆		■	■		■	■		■	9	3.00
20.3	**54.5**	2.60	■	■							■		3					◆		■	■		■	■		■	7	2.00

Key QHEI Components

River Mile	QHEI	Gradient (ft/mile)	Good Attributes: No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Modified Attributes: Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(80-001) Connecticut River																												
Year: 2009																												
10.7	**92.5**	2.70	■	■		■	■	■		■	■		8														0	0.00
8.3	**81.0**	2.70	■	■	■	■	■	■	■	■			10					◆									1	0.00
6.3	**68.5**	2.70	■	■				■			■		5								■			■	■		4	0.80
2.0	**41.0**	0.16									■	■	2	◆			◆				■		■	■		■	7	2.00
1.9	**69.5**	0.16	■	■				■			■		4							■	■			■	■		5	1.50
(80-100) Westfield River																												
Year: 2008																												
15.9	**91.5**	8.30	■	■		■	■	■	■	■	■	■	9														0	0.00
Year: 2009																												
34.8	**93.0**	7.69	■	■	■	■	■	■	■	■	■	■	10														0	0.00
(80-200) Chicopee River																												
Year: 2008																												
6.5	**96.0**	7.40	■	■		■	■	■	■	■	■	■	9														0	0.00
Year: 2009																												
1.3	**54.0**	3.30		■				■			■		4	◆						■	■		■	■		■	6	1.25
(80-300) Deerfield River																												
Year: 2008																												
15.0	**61.0**	1.00		■			■	■		■	■		5	◆						■		■				■	4	0.60
(80-400) West River																												
Year: 2008																												
6.1	**90.0**	19.20	■	■	■	■	■	■	■	■	■	■	10														0	0.00
1.0	**48.0**	1.00		■				■			■		4	◆						■	■			■		■	5	1.25
(80-500) White River																												
Year: 2009																												
30.5	**92.0**	11.10	■	■	■	■	■	■	■	■	■	■	10														0	0.00
16.7	**72.5**	0.13	■	■	■		■	■	■	■	■	■	9								■						1	0.11
13.4	**93.3**	1.78	■	■	■	■	■	■	■	■	■	■	10														0	0.00
9.3	**93.5**	3.72	■	■	■	■	■	■	■	■	■	■	10														0	0.00
4.7	**79.3**	3.72	■	■	■	■	■	■	■	■	■		9													■	1	0.11
1.8	**79.0**	0.40	■	■	■	■	■	■	■	■	■	■	10														0	0.00

Good Attributes | Modified Attributes

Key QHEI Components

River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(80-600) Millers River																													
Year: 2009																													
28.4	**75.0**	3.30	■	■			■	■	■		■	■	5						■	■	■			■			4	0.80
28.4	**54.0**	3.30		■				■			■		4	◆						■	■		■	■		■	6	1.25
10.1	**99.0**	6.60	■	■		■	■	■	■	■	■	■	9														0	0.00
(85-001) Merrimack River																													
Year: 2008																													
24.1	**69.0**	1.01		■			■	■		■	■		4						■		■					■	3	1.25
23.2	**84.5**	1.01	■	■		■	■	■	■	■	■	■	8														0	0.00
20.5	**55.0**	1.01		■				■			■		3	◆						■	■		■	■		■	6	2.00
6.8	**64.0**	1.01	■	■			■	■		■	■		5				◆				■					■	3	0.80
5.8	**66.5**	1.01	■	■				■		■	■		5								■					■	2	0.80
Year: 2009																													
114.9	**95.0**	1.90	■	■		■	■	■	■	■	■	■	8														0	0.00
110.5	**82.5**	0.10	■	■		■	■	■	■	■	■	■	9														0	0.00
99.4	**66.0**	0.10	■			■	■				■		4				◆								■	■	4	1.00
99.1	**70.0**	0.10	■				■	■			■	■	5				◆			■					■		3	0.60
97.7	**88.0**	0.10	■	■		■	■	■	■	■	■	■	9														0	0.00
94.3	**63.8**	0.10	■			■	■		■	■	■		6				◆									■	2	0.17
89.9	**57.0**	1.90		■				■			■		4	◆						■			■	■		■	5	1.00
81.6	**53.0**	0.10		■			■				■		3	◆			◆			■	■			■		■	6	1.67
66.5	**85.5**	0.10	■	■		■	■	■	■	■	■	■	9						■								1	0.11
66.5	**89.5**	2.10	■	■		■	■	■	■	■	■	■	9														0	0.00
58.4	**64.5**	0.10	■	■			■				■		3				◆				■				■	■	5	1.67
52.9	**65.0**	1.80		■			■	■	■	■	■		5						■		■					■	3	1.00
42.4	**51.8**	0.10		■	■		■				■	■	4	◆			◆				■		■			■	6	1.00
37.6	**64.5**	0.10		■		■	■		■	■	■	■	7	◆			◆									■	3	0.00
33.0	**49.3**	2.00								■	■		2	◆			◆				■		■			■	6	2.00
32.0	**48.5**	0.10		■			■				■		2	◆			◆			■	■			■		■	6	3.00
27.4	**65.5**	1.90	■	■			■	■	■	■	■		6								■					■	2	0.67
(85-100) Nashua River																													
Year: 2009																													
1.5	**83.8**	2.50	■	■		■	■	■	■	■	■		8												■		1	0.13

Key QHEI Components

River Mile	QHEI	Gradient (ft/mile)	No Channelization/Recovered	Boulder, Cobble, Gravel Substrates	Silt Free Substrates	Good/Excellent Development	Five or More Substrate Types	Extensive-Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 1 m	Low-Normal Riffle/Run Embeddedness	Good Habitat Attributes	Impounded	Channelized or No Recovery	Silt/Muck Substrates	Sparse or No Cover	Max Depth < 70 cm	Recovering Channel	High/Moderate Silt Cover	Fair-Poor Development	Only 1-2 Cover Types	Slow or No Flow	High-Mod Overall Embeddedness	High-Mod Riffle-Run Embeddedness	No Riffle/Run	Total Modified Attributes	Modified: Good Ratio
(86-001) Taunton River																													
Year:	2008																												
37.1	**67.0**	1.00	■					■	■		■		5		◆						■			■	■		4	0.60
27.9	**72.0**	1.00	■				■	■	■	■	■	■	7		◆						■						2	0.29
24.2	**81.5**	1.00	■	■		■	■	■	■	■	■	■	9														0	0.00
19.9	**63.5**	1.00	■	■			■	■	■		■	■	7							■	■			■			3	0.57
15.2	**57.5**	1.00		■			■	■			■	■	5						■		■					■	3	0.80
13.1	**65.5**	1.00	■	■			■	■			■	■	6								■					■	2	0.50
Year:	2009																												
34.0	**71.0**	0.30	■	■				■	■	■	■		7								■				■		2	0.43
33.0	**72.0**	0.30	■	■			■	■	■	■	■		7								■				■		2	0.43
19.4	**70.5**	0.30	■	■			■	■	■	■	■		7							■	■				■		3	0.57
14.9	**61.3**	0.30	■	■			■	■			■	■	5							■	■					■	3	1.00

Appendix E
NELR Protocol Critical Technical Elements Evaluation

Appendix Table D-1. A checklist for evaluating the degree of development for each technical element of a bioassessment program and associated comments on the elements for the NELR REMAP fish assemblage protocol. The point scale for each element ranges from lowest to highest resolution.

Element 1	(Lowest) 1.0	2.0	3.0	4.0 (Highest)	Comments
Index Period	Temporal variability is not taken into account.	Sampling period established based on practices of other agencies and/or literature. Sampling outside the index is not adjusted for temporal influence.	Index period established based on *a priori* assumptions regarding temporal variability of biological community. Effects of the use of index period are documented. Data collected outside the index period data may be adjusted to correct for temporal influences.	Temporal variability is fully characterized and taken into account for all data. Agency information needs and index periods are coordinated so that adherence to an index period is strict.	A standardized index period of July 1 – September 30 is followed, with an extension to October 15 in southern New England and coastal rivers.
					Points **4.0**

Appendix Table D-1. Continued.

Element 2	(Lowest) 1.0	2.0	3.0	4.0 (Highest)	Comments
Spatial Sampling Design	Study design consisting of isolated, single, fixed-point sites.	Low density fixed station design. Multiple sites are used for assessment of a water body or watershed condition. Spatial coverage suitable for general condition assessments. Non-random designs at coarse scale used (e.g., 4–8 digit hydrologic unit code [HUC]). Inference of site data to larger unit of assessment based on "rules of thumb" and might be supplemented by upstream/down-stream assessments.	Low density random or stratified random sampling design which allows for a statistically valid inference of biological condition to a spatial unit larger than a site. The primary goal is to assess aggregate condition and trends on a statewide or regional basis.	High density (e.g., intensive) monitoring at comprehensive spatial sampling design suitable for watershed assessments (e.g., 10–12 digit HUC) and in support of multiple water quality management program needs for information (e.g., condition assessments, use refinement, use attainability analyses [UAAs], permits). As needed, the spatial sampling combines monitoring designs to optimize cost and efficiency in data collection and analysis (e.g., combination of upstream-downstream, intensive, probabilistic, and/or pollution gradient designs). Typically includes a rotating sequence of watershed units organized to provide data for management program support.	Spatial sampling design includes a mix of probabilistic and targeted designs. The primary design is an intensive pollution survey design for mainstem rivers that is suited to full program support and is amenable to a rotating basin approach for implementation. Current probabilistic design followed 2008-9 NRSA site draw; future assessments should be focused on New England as a distinct region.
					Points **4.0**

Appendix Table D-1. Continued.

Element 3	(Lowest) 1.0	2.0	3.0	4.0 (Highest)	Comments
Natural Variability	No or minimal partitioning of natural variability in aquatic ecosystems. Does not incorporate differences in watershed characteristics such as size, gradient, temperature, elevation, etc.	Classification scheme is based on assumed, first-order classes. These include strata such as fishery-based cold or warmwater classes. There is no formal consideration of regional strata such as bioregions or aggregated ecoregions. Intra-regional strata such as watershed size, gradient, elevation, temperature are not addressed. Usually applied uniformly on a statewide basis.	A fully partitioned and stratified classification scheme or modeling approach is employed. Classes and/or continuous models are defined to take critical details of spatial variability into account. Inter-regional landscape features and phenomena are appropriately sequenced with intra-regional strata. Subcategories of lotic ecotypes are defined (e.g., includes the full strata of lotic waterbody types).Characterization of spatial variability is confined within jurisdictional boundaries.	Scheme to fully account for natural variation is periodically refined and updated as new data and methods become available. Classes, continuous models, or both, are examined to identify the most appropriate scheme for monitoring and assessment, regulatory support, and cost-effectiveness. Developed at scales that transcends jurisdictional boundaries when necessary to strengthen inter-regional classification outcomes; recognizes the full zoogeographical aspects of biological assemblages.	Classification scheme includes single strata for moderate-high gradient cold water rivers. All other aspects of natural variability are included to include intra-regional factors and regional factors. **Points** **3.0**

Appendix Table D-1. Continued.

Element 4	(Lowest) 1.0	2.0	3.0	4.0 (Highest)	Comments
Reference Sites Selection	Informal best professional judgment (BPJ) used in selection of control sites. No screens are used. Limited, if any, documentation and supporting rationale.	Based on "best biology" (i.e., BPJ on what the best biology is in the best waterbody). Minimal non-biological data used. Minimal documentation.	Selection based on narrative descriptions of non-biological characteristics. Combines BPJ with narrative description of land use and site characteristics. May use chemical and physical data thresholds as primary filters.	Based on quantitative descriptions of non-biological characteristics with primary reliance on abiotic data on landscape conditions and land use. Chemical and physical data may be used as secondary filters or in a hybrid approach for severely altered landscapes. Independent data set used for validation.	Reference sites were selected to reflect minimal to no disturbance from non-native and invasive species relative to a cold water riverine fish assemblage. **Points** **3.0**

Appendix Table D-1. Continued.

Element 5	(Lowest) 1.0	2.0	3.0	4.0 (Highest)	Comments
Reference Conditions	No reference condition has been developed. Biological data are assessed using BPJ or based on the presence of targeted or iconic taxa.	Reference condition based on biology of an estimated 'best' site or waterbody. Single reference sites are used to assess biological data collected throughout a watershed. A site-specific control or paired watershed approach may be used.	Reference condition is based on a regional aggregate of reference site information. Data representing most of the major natural environmental gradients but limited in number and/or spatial density. Overall number and coverage of reference sites insufficient to support statistical evaluation of the biological condition at test sites.	Reference condition is based on data from many reference sites that span all major natural environmental gradients in the study area. Reference condition can be estimated for individual sites by modeling biota-environmental relationships. The number of reference sites is sufficient to support statistical evaluation of biological condition at test sites. Reference sites are resampled periodically. In highly altered regions or waterbody types, alternative methods are used to develop reference condition.	Reference condition is inferred from the BCG developed for the cold water riverine fish assemblage template. **Points** **3.0**

Appendix Table D-1. Continued.

Element 6	(Lowest) 1.0	2.0	3.0	4.0 (Highest)	Comments
Taxa and Taxonomic Resolution	One taxonomic assemblage (e.g., benthic macroinvertebrates, fish, algae, aquatic macrophytes). Very coarse taxonomic resolution (e.g., order/family). Expertise: amateur naturalist or stream watcher. Validation: none. QA/QC: none.	One taxonomic assemblage. Low taxonomic resolution (e.g., family). Expertise: novice or apprentice biologist. Validation: family level certification for macroinvertebrates. No certification available for fish or algae. QA/QC: mostly for taxonomic confirmation of voucher collections. Some sorting QA/QC implemented.	One taxonomic assemblage. Fine taxonomic resolution: genus/species for benthic macroinvertebrates and algae, species for fish. Expertise: trained taxonomist. Validation: genus-level certification or equivalent for benthic macroinvertebrates. Expert fish taxonomist or equivalent. Formal courses or training in algal taxonomy.QA/QC: addresses measuring bias, precision, and accuracy in all phases of sample processing through identification (e.g., outside validation of identification); voucher collection maintained.	Same as Level 3 except that two or more taxonomic assemblages are assessed. Rationale for selection of taxonomic groups should be well documented.	Fish taxonomy to species in accordance with AFS nomenclature; single assemblage limitation. **Points** **<u>3.0</u>**

Appendix Table D-1. Continued.

Element 7	(Lowest) 1.0	2.0	3.0	4.0 (Highest)	Comments
Sample Collection	Approach is cursory and relies on operator skill and BPJ. Training limited to that which is conducted annually for non-biologists who compose the majority of the sampling crew. Methods are not systematically documented as standard operating procedures (SOPs).	Textbook methods are used without considering the applicability of the methods to the study area. SOPs to specify methods but methods are neither well documented nor evaluated for producing comparable data across agencies. A cursory QA/QC document may be in place. Training consists of short courses (1–2 days) and is provided for new staff and periodically for all staff.	Methods are evaluated for applicability to study area and refined (if needed). Detailed and well documented SOPs are updated periodically and supported by in-house testing and development. A formal QA/QC program is in place with field replication requirements. Rigorous training required for all professional staff.	Same as Level 3, but methods cover multiple assemblages. A field audit of sampling crews is performed annually to ensure that protocols and proper sample handling/documentation are followed.	Fully developed methods and QA/QC program and procedures. Single assemblage limitation.
					Points **3.0**

Appendix Table D-1. Continued.

Element 8	(Lowest) 1.0	2.0	3.0	4.0 (Highest)	Comments
Sample Processing	Organisms are sorted, identified, and counted in the field using dichotomous keys.	Organisms are sorted, identified, and counted primarily in the field by trained staff. Adequate QA/QC is not possible. For fish, cursory examination of presence and absence only. Agency SOPs not developed or published.	All samples (except for fish) are processed in the laboratory. A formal QA/QC program is in place. Rigorous training is provided. Voucher organisms are retained for ID verification. SOPs are published and available to others.	Same as Level 3, but applied to multiple assemblages. Subsampling level is tested. Presence of fish deformities, erosions, lesions, tumors (DELT) and other anomalies are quantified and documented.	Full method protocol development for fish assemblage assessment in place with QA/QC. Fish processed in field and verified in lab as needed to assure accuracy. DELT anomalies are recorded.
					Points **3.0**

Appendix Table D-1. Continued.

Element 9	(Lowest) 1.0	2.0	3.0 3.5	4.0 (Highest)	Comments
Data Management	Sampling event data organized in a series of spreadsheets (e.g., by year, by data-type). QA/QC is cursory and mostly for transcription errors. May be paper files only.	Databases for physical-chemical, and biological data, and geographic information exist (Access, dBase, geographic information system (GIS), etc.) but are not linked or integrated. Data-handling methods manuals are available. QA/QC for data entry, value ranges, and site locations. A documented data dictionary defines data fields in terms of field methods and data collection.	Relational databases that integrate all biological, physical, and chemical data (Oracle, SQL Server, Access, etc.). Validation checks that guard against inadvertently storing incorrect or incomplete sampling data. Fully documented and implemented QA/QC process. Structure provides for data export and analysis via query includes dedicated database management. Fully documented data dictionary. Access to all databases is available for routine analysis in support of condition assessment.	Same as Level 3 adding automated data review and validation tools. Numerous built-in data management and analysis tools to support routine and exploratory analyses. Ability to track history of changes made to the data. Ability to control who has privilege to change, update, or delete data. Data import and export tools. Integrated connection to GIS showing monitored sites in relation to other relevant spatial data layers. Fully documented metadata according to accepted database standards. Reports on commonly used endpoints are easily retrieved (e.g., menu driven).	Database consists of routines in Maine ECOS for entry, storage, retrieval, and analysis of fish assemblage attributes. Relational database allows for analysis of stressor variables at the site level aggregating upwards.
					Points **3.5**

Appendix Table D-1. Continued.

Element 10	(Lowest) 1.0	2.0	3.0	4.0 (Highest)	Comments
Ecological Attributes	Biological program relies solely on the evaluation of the presence or absence of targeted or key species. No rationale is provided for selection of indicators. Assessment endpoints and ecological attributes are not defined.	Biological program based on "off the shelf" indicators for one biological assemblage. Rationale for selection of indicators is partially documented. Generic assessment endpoints and ecological attributes are defined but not specifically evaluated for state or regional conditions.	Biological program based on well-developed ecological attributes for one biological assemblage. Rationale for attribute selection is thorough and well-documented. Explicit linkage is provided between management goal, assessment endpoints, and ecological attributes.	Same as Level 3, but biological program based on well-developed ecological attributes for two or more biological assemblages (e.g., faunal, flora) for more complete assessment of the members of an aquatic community.	IBI metrics based on BCG attributes within initial BCG model for cold water riverine fish assemblages in New England. Thresholds for assessment are based on BCG level IV as the minimum CWA goal. Single assemblage limitation.
					Points **3.0**

Appendix Table D-1. Continued.

Element 11	(Lowest) 1.0	2.0	3.0	4.0 (Highest)	Comments
Discriminatory Capacity	Coarse method (low signal) and detects only high and low values. Supports distinguishing only extreme change in biological condition at the upper and lower ends of a generalized stress gradient.	A biological index for one assemblage is established but is not calibrated for waterbody classes, regional or statewide applications. BPJ based on single dimension attributes. The index can distinguish two general levels of change in biological condition along a generalized stress gradient.	A biological index for one assemblage has been developed and calibrated for statewide or regional application and for all classes and strata of a given waterbody type. The index can distinguish 3 to 4 increments of biological change along a continuous stress gradient. Supports narrative evaluations (e.g., good, fair, poor) based on multimetric or multivariate analyses that are relevant to the selected ecological attributes (Technical Element 10).	Same as Level 3 but biological indices for two or more assemblages have been developed and calibrated. Additionally, the indices can distinguish finer increments of biological change along a continuous stress gradient. The number of increments that potentially can be distinguished is dependent on waterbody type and natural climatic and geographic factors.	IBI is derived for cold water riverine fish assemblage for New England and assumed to discriminate multiple categories of condition. Single assemblage limitation.
					Points **3.0**

Appendix Table D-1. Continued.

Element 12	(Lowest) 1.0	2.0	3.0	4.0 (Highest)	Comments
Stressor Association	No ability to develop relationships between biological responses and anthropogenic stressors.	Site-specific paired biological and stressor samples for studies of an individual water body or a segment of a water body (e.g., a stream reach). Stress-response relationships are developed based on assemblage attributes at coarse level taxonomy (e.g., family for benthic macroinvertebrates). Information might be used on a case-by-case basis to inform a first order causal analysis.	Low spatial resolution for paired biological and stressor samples in time and space across the state at basin or sub-basin scale (e.g., HUC 4–8). Stress-response relationships developed for one assemblage using regression analysis. Taxonomy at level sufficient to detect patterns of response to stress (e.g., species or genus for benthic macroinvertebrates or periphyton, species for fish). Relational database supports basic queries. Information is frequently used to inform causal analysis. Reevaluation of stress-response relationships on an as-needed basis.	High spatial resolution for paired biological (including DELT anomalies and other indicators of organism health) and stressor samples in time and space across the state at watershed or subwatershed scales (e.g., HUC 10–12). Other data (e.g., watershed characteristics, land use data and information, flow regime, habitat, climatic data) are linked to field data for source identification. Stress -response relationships are fully developed for two or more assemblages, stressors, and their sources using a suite of analytical approaches (e.g., multiple regression, multivariate techniques). Relational database supports complex queries. Information is routinely used to inform causal analysis and criteria development. Ongoing evaluation of stress- response relationships and monitoring for new stressors is supported.	Data is sufficient for full development of stressor relationships and response signatures. Regional scale stressor analyses accomplished to date. Single assemblage limitation. **Points** **3.0**

Appendix Table D-1. Continued.

Element 13	(Lowest) 1.0	2.0	3.0	4.0 (Highest)	Comments
Professional Review	Review is limited to editorial aspects. No technical review.	Internal technical review only.	Outside review of documentation and methods are conducted on an ad hoc basis.	Formal process for technical review to include multiple reference and documented system for reconciliation of comments and issues. Process results in methods and reporting improvements. Can include production of peer-reviewed journal publications by the agency.	Outside reviews conducted periodically on an ad hoc basis. No formal process undertaken.
					Points **3.0**

2012 CE Score = 41.5

2012 CE % = 79.8%

2012 Level = L2 (65.4-82.6%)

Appendix Table D-2. Summary of the critical technical elements evaluation for the NELR REMAP protocol. This applies specifically to flowing waters. Point values in brackets indicate CE score change with recommended or ongoing technical developments.

Element	Comment
Element 1: Index Period Maximum score = 4.0 Score assigned = 4.0	Sampling is conducted within a defined seasonal index period. Maximum score of 4.0 is attained. [+0.0]
Element 2: Spatial Coverage Maximum score = 4.0 Score assigned = 4.0	Spatial survey design consists of multiple designs including a regional probabilistic and intensive pollution survey designs. The maximum score of 4.0 is attained. [+0.0]
Element 3: Natural Classification Maximum score = 4.0 Score assigned = 3.0	Classification based on a single cold water riverine ecotype. Exploration of additional classes and development of each is needed to elevate score to 4.0. [+1.0]
Element 4: Reference Site Selection Maximum score = 4.0 Score assigned = 3.0	Reference sites presently based on minimally disturbed condition emphasizing absence of invasive and non-native fish. Other schemes need to be examined. This could elevate the score to 4.0 [+1.0]
Element 5: Reference Conditions Maximum score = 4.0 Score assigned = 3.0	Reference condition is inferred via IBI derivation and linkage to BCG levels. Traditional reference approach would generate a more typical reference condition. Additional exploratory analyses are needed. These could elevate the score to 4.0. [+1.0]
Element 6: Taxonomic Resolution Maximum score = 4.0 Score assigned = 2.5	Current CE score reflects species level for fish. Adding a second assemblage is needed to improve score by 1.0 points provided certification requirements are also met. [+1.0]

Appendix Table B-2. (continued)

Element	Comment
Element 7: Sample Collection Maximum score = 4.0 Score assigned = 3.0	A second fully developed assemblage is needed to improve CE score to 4.0. [+1.0]
Element 8: Sample Processing Maximum score = 4.0 Score assigned = 4.0	A second fully developed assemblage is needed to improve CE score to 4.0. [+1.0]
Element 9: Data Management Maximum score = 4.0 Score assigned = 3.0	Current data management is sufficient to perform project related tasks. Additional development would be needed to sustain a consistent program. [+1.0]
Element 10: Ecological Attributes Maximum score = 4.0 Score assigned = 3.0	The current IBI meets the highest level for this element. A second assemblage is needed to attain the maximum score of 4.0. [±1.0]
Element 11: Discriminatory Capacity Maximum score = 4.0 Score assigned = 3.0	Current [index or model] is assumed to provide discrimination to multiple levels based on BCG attributes. It needs to be tested to determine capacity to discriminate CE goal of 5 or more discrete performance categories. This and the addition of a second assemblage would elevate the current CE score to 4.0. [+0.5]
Element 12: Stressor Associations Maximum score = 4.0 Score assigned = 3.0	Some stressor associations have been developed at a regional scale. More intensive testing is needed with more localized stressor data. Response signatures also need to be developed. Adding a second assemblage is needed to attain maximum score [±1.0]
Element 13: Professional Review Maximum score = 4.0 Score assigned = 3.0	Formalizing outside review for the NELR REMAP technical components is needed to elevate CE score to 4.0. [+1.0]

Appendix F
NELR REMAP Sampling Comparability Sites

Appendix Table F-1. Location of non-wadeable NELR REMAP fish sampling sites that are matched 2008-9 NRSA sites and used for method comparability analyses.

NRSA ID	Latitude	Longitude	State	NRSA Panel	RIVER	Strahler Order	Sample Date	Re-sample Date	Crew
FW08CT005	41.891229	-72.662102	CT	Base	Farmington River	5th	9/1/2009	10/6/2009	MBI
FW08CT006	41.782704	-71.895881	CT	Base	Quinebaug River	5th	10/10/2008	10/6/2009	MBI
FW08CT007	41.540588	-72.551258	CT	Base	Connecticut River	6th	8/23/2009		KA-MBI
FW08CT010	41.841008	-71.914713	CT	Base	Shetucket River	5th	10/10/2008		MBI
FW08CT012	41.710228	-72.618027	CT	Base	Connecticut River	6th	8/22/2009		KA-MBI
FW08CT014	41.770419	-73.430829	CT	Base	Housatonic River	5th	9/30/2008		MBI
FW08CT015	41.641405	-73.477794	CT	Base	Housatonic River	6th	9/30/2008		MBI
FW08CT016	41.844477	-72.631996	CT	Base	Farmington River	5th	8/31/2009		MBI
FW08CT017	41.623743	-72.088663	CT	Base	Shetucket River	5th	10/11/2008		MBI
FW08CT018	41.870919	-72.963733	CT	Base	W. Br. Farmington R.	5th	9/29/2009		MBI
FW08CT020	41.574929	-73.415354	CT	Base	Housatonic River	6th	9/29/2008		MBI
FW08CT021	41.952095	-72.608582	CT	Base	Connecticut River	6th	8/20/2009		KA-MBI
FW08CT022	41.675716	-71.953599	CT	Base	Quinebaug River	5th	10/4/2009		MBI
FW08CT023	41.494984	-72.518791	CT	OverSamp	Connecticut River	6th	8/24/2009		KA-MBI
FW08CT024	41.415481	-71.801282	CT	OverSamp	Pawcatuck River	5th	9/2/2009		MBI
FW08CT025	41.726164	-72.648758	CT	OverSamp	Connecticut River	6th	8/22/2009		KA-MBI
FW08CT032	41.862331	-72.647015	CT	OverSamp	Farmington River	5th	8/31/2009		MBI
FW08MA002	41.961788	-70.919785	MA	Base	Taunton River	5th	7/9/2009		MBI
FW08MA003	42.700638	-71.217979	MA	Base	Merrimack River	7th	8/28/2009	9/27/2009	MBI
FW08MA004	42.631708	-72.129003	MA	Base	Millers River	4th	8/22/2009	9/15/2009	MBI
FW08MA005	42.578364	-72.569578	MA	Base	Connecticut River	6th	8/16/2009		KA-MBI
FW08MA006	41.874937	-71.093973	MA	Base	Taunton River	5th	10/9/2008	9/18/2009	MBI
FW08MA012	42.090103	-73.328434	MA	Base	Housatonic River	5th	9/16/2009		MBI
FW08MA013	42.158837	-72.576657	MA	Base	Chicopee River	5th	9/16/2009		MBI
FW08MA017	42.204025	-72.590542	MA	Base	Connecticut River	6th	8/19/2009		MBI
FW08MA018	41.957556	-70.933610	MA	Base	Taunton River	5th	7/9/2009		MBI
FW08MA019	42.710301	-71.133986	MA	Base	Merrimack River	7th	8/28/2009		MBI
FW08MA020	42.544187	-72.562761	MA	OverSamp	Connecticut River	6th	8/16/2009		KA-MBI
FW08MA021	42.601914	-72.571333	MA	OverSamp	Connecticut River	6th	9/28/2009		MBI
FW08MA023	42.765531	-71.093514	MA	OverSamp	Merrimack River	7th	7/22/2008		MBI
FW08ME005	44.96033	-68.99696	ME	Base	Kenduskeag Stream	4th	9/18/2008	9/23/2009	MBI
FW08ME013	47.13183	-67.89810	ME	Base	Saint John River	6th	9/20/2008		MBI

Appendix Table F-1. Location of non-wadeable NELR REMAP fish sampling sites that are matched 2008-9 NRSA sites and used for method comparability analyses.

NRSA ID	Latitude	Longitude	State	NRSA Panel	RIVER	Strahler Order	Sample Date	Re-sample Date	Crew
FW08ME016	47.15428	-68.94424	ME	Base	Saint John River	6th	9/20/2008		MBI
FW08ME017	45.87867	-68.62034	ME	Base	E. Br. Penobscot R.	5th	9/19/2008		MBI
FW08ME018	44.73738	-67.54984	ME	Base	Machias River	5th	9/21/2008		MBI
FW08ME019	43.49885	-70.46423	ME	Base	Saco River	6th	9/4/2009		MBI
FW08ME021	45.25733	-68.94966	ME	Base	Pleasant River	5th	9/18/2008		MBI
FW08ME022	44.42155	-69.70560	ME	OverSamp	Kennebec River	6th	9/25/2008		MBI
FW08ME023	45.03709	-69.87012	ME	OverSamp	Kennebec River	6th	7/15/2009	8/30/2009	MBI
FW08ME026	44.50109	-69.67614	ME	OverSamp	Kennebec River	6th	9/24/2008		MBI
FW08ME027	44.00309	-70.09861	ME	OverSamp	Androscoggin River	5th	9/3/2009		MBI
FW08NH004	44.74361	-71.14440	NH	Base	Androscoggin River	5th	8/14/2009	9/7/2009	MBI
FW08NH005	44.24308	-72.04818	NH	Base	Connecticut River	5th	10/7/2008	9/13/2009	MBI
FW08NH007	43.06807	-72.44870	NH	Base	Connecticut River	6th	9/1/2008		MBI
FW08NH008	44.63433	-71.55739	NH	Base	Connecticut River	5th	9/9/2009		MBI
FW08NH009	43.86581	-72.17822	NH	Base	Connecticut River	5th	10/4/2008		MBI
FW08NH010	43.19317	-71.52351	NH	Base	Merrimack River	7th	7/10/2009		MBI
FW08NH011	43.35118	-72.39344	NH	Base	Connecticut River	6th	8/30/2008	9/2/2009	MBI/EPA_R1
FW08NH014	43.43264	-71.65002	NH	Base	Merrimack River	6th	9/10/2009		MBI
FW08NH016	42.84932	-72.55309	NH	Base	Connecticut River	6th	10/3/2008	9/18/2009	MBI/EPA_R1
FW08NH017	43.43030	-72.39501	NH	OverSamp	Connecticut River	6th	8/28/2008		MBI
FW08RI003	41.88014	-71.38130	RI	Base	Seekonk River	5th	6/23/2009	10/7/2009	MBI
FW08RI004	41.39354	-71.84080	RI	Base	Pawcatuck River	5th	6/28/2009	10/7/2009	MBI
FW08RI005	41.71547	-71.50367	RI	Base	Pawtuxet River	5th	6/23/2009		MBI
FW08RI006	41.99036	-71.49176	RI	Base	Blackstone River	5th	6/20/2009		MBI
FW08RI007	41.41002	-71.84247	RI	Base	Pawcatuck River	5th	6/27/2009		MBI
FW08RI008	41.42842	-71.72119	RI	Base	Pawcatuck River	5th	6/25/2009		MBI
FW08RI009	41.71960	-71.47102	RI	Base	Pawtuxet River	5th	6/21/2009		MBI
FW08RI010	41.97167	-71.46975	RI	Base	Blackstone River	5th	6/22/2009		MBI
FW08RI011	41.41502	-71.82560	RI	Base	Pawcatuck River	5th	6/27/2009		MBI
FW08RI013	41.75829	-71.44014	RI	Base	Pawtuxet River	5th	6/18/2009		MBI
FW08RI015	41.39020	-71.78706	RI	OverSamp	Pawcatuck River	5th	6/26/2009		MBI
FW08RI016	41.50654	-71.71228	RI	OverSamp	Wood River	4th	6/25/2009		MBI
FW08VT006	42.79337	-72.52477	VT	Base	Connecticut River	6th	10/2/2008	9/20/2009-R1	MBI/EPA_R1

Appendix Table F-1. Location of non-wadeable NELR REMAP fish sampling sites that are matched 2008-9 NRSA sites and used for method comparability analyses.

NRSA ID	Latitude	Longitude	State	NRSA Panel	RIVER	Strahler Order	Sample Date	Re-sample Date	Crew
FW08VT009	43.79297	-72.67631	VT	Base	White River	5th	8/17/2009	9/14/2009	MBI
FW08VT011	44.48913	-73.14832	VT	Base	Winooski River	5th	8/21/2009		MBI
FW08VT013	43.79749	-72.50090	VT	Base	White River	5th	8/17/2009		MBI
FW08VT014	44.42187	-73.01538	VT	Base	Winooski River	5th	9/1/2008		MBI
FW08VT016	43.65977	-72.33974	VT	Base	White River	5th	8/18/2009		MBI
FW08VT018	44.31823	-72.72694	VT	Base	Winooski River	5th	9/2/2008		MBI
FW08VT019	44.93774	-72.69974	VT	Base	Missisquoi River	4th	9/5/2008		MBI
FW08VT022	42.93002	-72.60988	VT	Base	West River	5th	9/8/2008		MBI
FW08VT027	44.47204	-73.09936	VT	OverSamp	Winooski River	5th	8/15/2009	9/15/2009	MBI