

ReadMe file for Penobscot River Fish Assemblage Study documents and data

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Final report: "Kiraly Thesis and PRRT Final Report Sep 2012.pdf"

Microsoft Access database file: "Penobscot Fish Data 2010 to 2012.accdb"

Species table contains abbreviations, common names, and mode of origin (resident, estuarine, diadromous – anadromous/catadromous) for all fish species encountered

Gear performance table contains the following:

1. YSAMP = unique identifier for each sampling event: spring or fall; 2010, 2011, or 2012; sampling #. Example: "S10001" indicates sampling event #001 of spring 2010. Click on "+" to open fish data file for each sampling episode
2. Site column = river section and type/location of sample
3. River section column = strata of mainstem Penobscot River, major tributaries
4. Site type column: mode of site selection (KSA = 1000m-long fixed stations selected by Kleinschmidt Associates during 2008-2009 surveys; RANDOM = 500m-long transects selected randomly within each stratum; OS TRANSECT = offshore transects sampled experimentally; these data were removed prior to analysis)
5. Day column = day of year
6. Season column = season (spring or fall)
7. Crew column = initials of participating crew members
8. Gear code 1 = method of capture (BEF = boat electrofishing; BSN = beach seining)
9. Gear code 2 = mode of sampling (DAFR = standard nearshore transects; EXPERIMENT = exploratory offshore transects)
10. PASS column = # of sampling passes made along transect ($n \geq 1$ for beach seining)
11. TIME START = collection start time
12. TIME STOP = collection end time
13. EFFORT = time spent electrofishing (# seconds)
14. EFISH UNIT = electrofishing unit used (Smith-Root model GPP 5.0 or GPP 2.5 in boat and raft, respectively)
15. RANGE = electrofishing voltage setting
16. POR = electrofishing percent of range setting
17. MOI = Mode of electrofishing induction; PDC = pulsed direct current
18. FREQ = electrofishing frequency (Hz)
19. NET = beach seining gear used
20. HEIGHT = seine height (ft)
21. NET LENGTH = seine length (ft)

22. METHOD = arc of seine haul (° to shoreline)
23. WATER TEMP = water temperature (Centigrade)
24. AIR TEMP = air temperature (Centigrade)
25. SP CONDUCT = specific conductivity ($\mu\text{S}/\text{cm}$ at 20°C)
26. AM CONDUCT = ambient conductivity ($\mu\text{S}/\text{cm}$)
27. DO = dissolved oxygen (not measured due to technical difficulties; assumed to be saturated)
28. COLOR = qualitative assessment of water color: B = brown, C = clear, LB = light brown, TS = tannin-stained; M = murky
29. UTMN START = UTM Northing coordinates of transect start
30. UTME START = UTM Easting coordinates of transect start
31. UTMN STOP = UTM Northing coordinates of transect stop
32. UTNME STOP = UTM Easting coordinates of transect stop
33. RMI = # of river miles upstream of saltwater head-of-tide at Verona Island
34. FLOW = site discharge recorded at USGS gauging station (cubic feet per second)
35. GAGE = ID# of USGS gauging station
36. SITE CLASS = tidal, impounded by dam, tailwater of dam, free-flowing, or tributary
37. SITE LENGTH = length of electrofished site (m)
38. WATER = HUC-6 watershed containing site; PTR = mainstem Penobscot, PSR = Passadumkeag, SES = Sunhaze, PWS = Pushaw, MWG = Mattawamkeag, PSR = Piscataquis, EBP = East Branch Penobscot
39. FLOW TYPES = visual categorization of reach-scale habitat (slow, medium, fast; shallow, moderate, deep)
40. SHELTER QUAN = visual estimate of abundance of sheltered microhabitats (low, medium, high)
41. COMMENTS = additional comments

Individual Fish table contains the following:

1. ID = individual fish ID#
2. YSAMP = unique identifier for each sampling event; see above
3. FISH NUMBER = within-sample fish ID#
4. SPECIES = fish species (see abbreviations in Species table)
5. WEIGHT = wet mass of fish (grams)
6. N = number of fish (most fish were weighed individually so N=1, but some batch weights of many individuals were taken; see next columns)
7. COMMENTS = comments

8. LMIN = minimum length of individuals within a group of fish that were batch-weighed
9. LMAX = maximum length of individuals within a group of fish that were batch-weighed

Maps of sampling sites: "Penobscot Fish Study Maps.pdf"

Shows locations of electrofishing transects