Library Reference 9.7

Ten-year (2002-2011) trend analysis (percent change per year) and level of significance of square root-normalized catch per hour from electrofishing results of captured species in Onondaga Lake.

Species	Annual Mean CPUE	2011 Mean CPUE	Trophic Guild	Pollution Tolerance	Thermal Guild	Trend	Level of Significance
Lepomis sp.	0.02	0	-	-	-	30%	0.42
Chain pickerel	0.01	0	-	-	-	30%	0.42
Yellow bullhead	0.18	0.25	Invertivore/Piscivore	Tolerant	Warm	26%	0.014
Tiger muskellunge	0.14	1.12	Piscivore	Moderate	Cool	23%	0.3
Golden shiner	6.11	10	Planktivore/ Invertivore	Tolerant	Cool	20%	0.0026
Rudd	0.08	0.38	Invertivore	Tolerant	Warm	19%	0.32
Rock bass	2.9	2.9	Invertivore/ Piscivore	Moderate	Warm	17%	0.005
Brown bullhead	16	42	Invertivore/ Piscivore	Tolerant	Warm	15%	0.000
Northern pike	0.49	1.87	Piscivore	Moderate	Cool	14%	0.0022
Quillback	0.03	0	Benthic Invertivore	Moderate	Warm	13%	0.61
Yellow perch	38	106	Invertivore/ Piscivore	Moderately Tolerant	Cool	12%	0.0026
Banded killifish	0.20	0	Planktivore/invertivore	Moderate	Warm	10%	0.53
Longnose gar	0.93	2.56	Invertivore/ Piscivore	Tolerant	Warm	10%	0.11
Black bullhead	0.03	0	Invertivore/Piscivore	Moderately Tolerant	Warm	9%	0.73
Northern hog sucker	0.17	0	Benthic Invertivore	Moderately Intolerant	Cool	8%	0.44
Bowfin	1.27	1.97	Piscivore	Tolerant	Warm	7%	0.037
Pumpkinseed	58	49	Invertivore	Tolerant	Warm	6%	0.083
Walleye	0.98	1.65	Piscivore	Moderately Tolerant	Cool	5%	0.11
Alewife	790	1898	Planktivore	Moderate	Cool	5%	0.64
Freshwater drum	2.29	3.88	Invertivore/ Piscivore	Moderate	Warm	3%	0.29
White sucker	19	16	Benthic Invertivore	Moderately Tolerant	Cool	2%	0.16
Black crappie	0.12	0	Invertivore/Piscivore	Tolerant	Warm	2%	0.88
Carp	16	19	Benthic Invertivore	Tolerant	Warm	2%	0.76
Largemouth bass	20	21	Piscivore	Tolerant	Warm	1%	0.36
Gizzard shad	334	1081	Detritivore	Moderately Tolerant	Warm	0%	0.99
Smallmouth bass	12	3.9	Piscivore	Moderate	Cool	-1%	0.82
Shorthead redhorse	1.59	1.12	Benthic Invertivore	Moderately Tolerant	Cool	-2%	0.39
White perch	46	27	Invertivore/ Piscivore	Tolerant	Warm	-2%	0.32
Bluegill	23	18	Invertivore	Tolerant	Warm	-5%	0.2
Channel catfish	1.09	0.56	Invertivore/ Piscivore	Moderately Tolerant	Warm	-6%	0.051
Emerald shiner	0.05	0	Planktivore	-	Warm	-6%	0.87
Brown trout	0.05	0	Invertivore/Piscivore	Moderately Intolerant	Cold	-9%	0.55
Brook Silverside	0.07	0	Planktivore/invertivore	-	Warm	-18%	0.49
Greater Redhorse	0.02	0	Benthic Invertivore	Intolerant	Cool	-18%	0.63
Goldfish	0.02	0	-	-	-	-30%	0.42
Logperch	0.06	0	Invertivore	Moderate	Cool/Warm	-43%	0.0055
Bullhead (species unknown)	0.01	0	-	-	-	-55%	0.12
Rainbow trout	0.01	0	Invertivore/Piscivore	Moderately Intolerant	Cold	-55%	0.12

Notes: Table is sorted first by trend, then by significance level. Trends that are statistically significant at the alpha< 0.10 level are shaded.