Library Reference 9.9

Ten-year (2001-2010) 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	2010 Mean CPUE	Trophic Guild	Pollution Tolerance	Thermal Guild	Trend	Level of Significance
Chain pickerel	0.007	0	-	-	-	42%	0.24
Lepomis sp.	0.02	0	-	-	-	42%	0.24
Yellow bullhead	0.15	0.68	Invertivore/Piscivore	Tolerant	Warm	32%	0.011
Golden shiner	5.08	20	Planktivore/ Invertivore	Tolerant	Cool	26%	0.0011
Quillback	0.03	0	Benthic Invertivore	Moderate	Warm	25%	0.31
Banded killifish	0.2	0.77	Planktivore/invertivore	Moderate	Warm	22%	0.15
Black bullhead	0.03	0	Invertivore/Piscivore	Moderately Tolerant	Warm	21%	0
Northern hog sucker	0.17	0.2	Benthic Invertivore	Moderately Intolerant	Cool	20%	0.028
Rock bass	2.65	8.46	Invertivore/ Piscivore	Moderate	Warm	20%	0.001
Brown bullhead	12	22	Invertivore/ Piscivore	Tolerant	Warm	15%	0.0001
Northern pike	0.32	0.68	Piscivore	Moderate	Cool	10%	0.0016
Bowfin	1.09	2.57	Piscivore	Tolerant	Warm	9%	0.018
Longnose gar	0.69	1.01	Invertivore/ Piscivore	Tolerant	Warm	9%	0.19
Pumpkinseed	54	69	Invertivore	Tolerant	Warm	9%	0.0088
Yellow perch	30	87	Invertivore/ Piscivore	Moderately Tolerant	Cool	8%	0.031
Rudd	0.04	0	Invertivore	Tolerant	Warm	7%	0.78
Emerald shiner	0.05	0	Planktivore	-	Warm	6%	0.87
Alewife	601	1118	Planktivore	Moderate	Cool	4%	0.73
Black crappie	0.14	0.25	Invertivore/Piscivore	Tolerant	Warm	4%	0.69
Largemouth bass	19	24	Piscivore	Tolerant	Warm	3%	0.073
Brown trout	0.05	0	Invertivore/Piscivore	Moderately Intolerant	Cold	3%	0.86
Smallmouth bass	12	6.81	Piscivore	Moderate	Cool	2%	0.43
Walleye	0.95	0.99	Piscivore	Moderately Tolerant	Cool	2%	0.64
White sucker	20	21	Benthic Invertivore	Moderately Tolerant	Cool	1%	0.3
Freshwater drum	2.11	2.47	Invertivore/ Piscivore	Moderate	Warm	1%	0.72
White perch	48	49	Invertivore/ Piscivore	Tolerant	Warm	-1%	0.79
Bluegill	23	22	Invertivore	Tolerant	Warm	-5%	0.23
Channel catfish	1.19	0.45	Invertivore/ Piscivore	Moderately Tolerant	Warm	-5%	0.069
Shorthead redhorse	1.94	1.92	Benthic Invertivore	Moderately Tolerant	Cool	-5%	0.13
Brook Silverside	0.07	0.18	Planktivore/invertivore	-	Warm	-6%	0.83
Gizzard shad	232	49	Detritivore	Moderately Tolerant	Warm	-6%	0.47
Greater Redhorse	0.02	0	Benthic Invertivore	Intolerant	Cool	-6%	0.87
Carp	21	6.21	Benthic Invertivore	Tolerant	Warm	-6%	0.32
Goldfish	0.02	0	-	-	-	-18%	0.63
Tiger muskellunge	0.04	0	Piscivore	Moderate	Cool	-23%	0.22
Logperch	0.09	0	Invertivore	Moderate	Cool/Warm	-37%	0.0011
Rainbow trout	0.01	0	Invertivore/Piscivore	Moderately Intolerant	Cold	-42%	0.24
Bullhead (species unknown)	0.01	0	-	-	-	-42%	0.24

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