

Library Reference 8.7.3.1.11

Ten-year (2000-2009) 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	2009 Mean CPUE	Trophic Guild	Pollution Tolerance	Thermal Guild	Trend	Level of Significance
Lepomis sp.	0.02	0.16	-	-	-	55%	0.12
Chain pickerel	0.007	0.07	-	-	-	55%	0.12
Quillback	0.03	0.17	Benthic Invertivore	Moderate	Warm	37%	0.12
Black bullhead	0.03	0.09	Invertivore/Piscivore	Moderately Tolerant	Warm	33%	0.18
Yellow bullhead	0.08	0.57	Invertivore/Piscivore	Tolerant	Warm	33%	0.04
Golden shiner	3.12	19	Planktivore/ Invertivore	Tolerant	Cool	26%	0.0068
Rudd	0.04	0	Invertivore	Tolerant	Warm	19%	0.44
Rock bass	1.86	7.25	Invertivore/ Piscivore	Moderate	Warm	19%	0.016
Emerald shiner	0.05	0	Planktivore	-	Warm	18%	0.63
Brown bullhead	10	36	Invertivore/ Piscivore	Tolerant	Warm	17%	0.0002
Northern hog sucker	0.17	0.3	Benthic Invertivore	Moderately Intolerant	Cool	14%	0.17
Pumpkinseed	49	136	Invertivore	Tolerant	Warm	11%	0.0021
Banded killifish	0.15	0.69	Planktivore/invertivore	Moderate	Warm	8%	0.64
Northern pike	0.27	0.69	Piscivore	Moderate	Cool	8%	0.015
Bowfin	0.91	0.67	Piscivore	Tolerant	Warm	7%	0.065
Smallmouth bass	12	14	Piscivore	Moderate	Cool	6%	0.0046
Greater Redhorse	0.02	0	Benthic Invertivore	Intolerant	Cool	6%	0.87
Alewife	447	77	Planktivore	Moderate	Cool	5%	0.75
Brown trout	0.06	0	Invertivore/Piscivore	Moderately Intolerant	Cold	4%	0.73
Largemouth bass	17	24	Piscivore	Tolerant	Warm	4%	0.009
Yellow perch	23	49	Invertivore/ Piscivore	Moderately Tolerant	Cool	3%	0.17
Longnose gar	0.73	0.7	Invertivore/ Piscivore	Tolerant	Warm	2%	0.74
Freshwater drum	2.13	1.72	Invertivore/ Piscivore	Moderate	Warm	0%	0.9
White sucker	21	24	Benthic Invertivore	Moderately Tolerant	Cool	0%	0.84
White perch	46	72	Invertivore/ Piscivore	Tolerant	Warm	0%	0.93
Walleye	1.03	0.83	Piscivore	Moderately Tolerant	Cool	-1%	0.8
Gizzard shad	255	36	Detritivore	Moderately Tolerant	Warm	-4%	0.61
Channel catfish	1.41	0.53	Invertivore/ Piscivore	Moderately Tolerant	Warm	-5%	0.078
Bluegill	24	20	Invertivore	Tolerant	Warm	-5%	0.16
Black crappie	0.15	0.49	Invertivore/Piscivore	Tolerant	Warm	-6%	0.56
Goldfish	0.02	0	-	-	-	-6%	0.87
Shorthead redhorse	2.05	2.31	Benthic Invertivore	Moderately Tolerant	Cool	-6%	0.041
Carp	28	21	Benthic Invertivore	Tolerant	Warm	-8%	0.024
Tiger muskellunge	0.05	0	Piscivore	Moderate	Cool	-11%	0.59
Brook Silverside	0.05	0	Planktivore/invertivore	-	Warm	-30%	0.42
Bullhead (species unknown)	0.01	0	-	-	-	-30%	0.42
Logperch	0.14	0	Invertivore	Moderate	Cool/Warm	-31%	0.0005
Rainbow trout	0.02	0	Invertivore/Piscivore	Moderately Intolerant	Cold	-41%	0.082

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