

2000 Parameter Data: Alkalinity

2001 Alkalinity Data for Lakes, Ponds and Reservoirs

Alkalinity, or buffering capacity, is a measure of the ability of a water body to withstand acidic inputs without becoming more acidic itself. It is measured in mg/l calcium carbonate (CaCO₃). Because most of the soils in Rhode Island are formed from acidic granite, the alkalinity of our waters is usually low. Exceptions are the lakes and ponds in the limestone areas of Rhode Island, such as Lincoln.

USEPA Lake Alkalinity Classification:

Acidified: < 1 ppm; pH < 5	Highly Sensitive: 5 - 10 ppm
Critical: < 2 ppm	Sensitive: 10 - 20 ppm
Endangered: 2 - 5 ppm	Not Sensitive: > 20 ppm

All measurements in mg/L or ppm CaCO₃.

LOCATION	MAY	JUNE	JULY	SEPT.	OCT.	MEAN
ACIDIFIED (<1 ppm with pH <5.0)						
WHITE POND	0.0	-	0.0	-	-	0.0
CARR POND (WG)	0.0	0.6	0.0	-	0.0	0.2
CRITICAL (< 2 ppm)						
TIPPECANSETT POND	0.0	-	0.0	-	-	0.0
LONG POND	0.3	-	0.8	-	0.5	0.5
TARBOX POND	0.3	-	1.2	-	0.7	0.7
BOWDISH RESERVOIR	1.2	-	0.8	-	-	1.0
PASCOAG RESERVIOR	1.4	-	1.3	-	2.0	1.6
INDIAN LAKE	1.3	-	2.3	-	1.4	1.7
TUCKER POND	1.3	-	2.1	-	2.1	1.8
KEECH POND	1.0	-	2.1	-	2.8	1.9
ENDANGERED (2 - 5 ppm)						
SHIPPEE MILL POND	0.7	-	2.8	-	2.5	2.0
WATCHAUG POND	1.5	-	2.8	-	2.2	2.2
SCHOOLHOUSE POND - UPPER	1.7	-	2.8	-	2.6	2.3
YAWGOO POND	2.4	-	2.7	-	2.1	2.4
DEEP POND	1.0	-	2.1	-	4.7	2.6
SCHOOLHOUSE POND - LOWER	2.0	-	3.0	-	2.8	2.6
QUIDNICK RESERVOIR	3.3	-	2.8	-	1.7	2.6
SMITH & SAYLES RESERVOIR	1.6	-	2.8	-	3.4	2.6
LOCUSTVILLE POND	1.7	-	3.9	-	2.3	2.7
PASQUISETT POND	2.0	-	3.5	-	3.3	2.9
WYOMING POND	3.4	-	5.8	-	0.5	3.3
COOMBER'S RESERVOIR	-	-	3.5	-	3.3	3.4
SPRING LAKE	3.4	-	3.2	-	4.1	3.6
BARBER POND	3.0	-	3.4	-	4.6	3.7
CARBUNCLE POND	2.8	-	3.0	-	5.4	3.7
BOONE LAKE	3.1	-	5.1	-	-	4.1
MEADOWBROOK POND	2.7	-	6.7	-	4.0	4.5
WORDEN POND	3.5	-	5.1	-	5.1	4.6
QUEEN RIVER @ USQUEPAUGH	3.6	-	5.4	-	5.2	4.7
FLAT RIVER RESERVOIR	2.8	-	4.2	-	7.2	4.7
SPRING GROVE POND	3.8	-	4.6	-	6.1	4.8

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All measurements in mg/L or ppm CaCO₃.

LOCATION	MAY	JUNE	JULY	SEPT.	OCT.	MEAN
HIGHLY SENSITIVE (5 - 10 ppm)						
SAND POND	5.0	-	5.7	-	5.9	5.5
ALTON POND	4.1	-	8.0	-	5.4	5.8
PAWCATUCK RIVER @ BRADFORD	4.7	-	5.4	-	7.5	5.8
WYASSUP LAKE	6.1	-	5.7	-	6.5	6.1
SLATERSVILLE RES. - UPPER	4.7	-	8.2	-	-	6.4
TIOGUE LAKE	9.5	-	4.7	-	6.3	6.8
HIGHLY SENSITIVE - CONTINUED (5 - 10 ppm)						
STAFFORD POND	5.6	-	6.6	-	8.8	7.0
WATERMAN LAKE	6.5	-	-	-	7.8	7.2
WASH POND	7.4	-	-	-	-	7.4
LITTLE POND	6.6	-	7.0	-	9.1	7.6
SPALDING POND	5.7	-	8.9	-	10.1	8.2
LOWER SPRAGUE RESERVOIR	5.1	-	10.7	-	9.5	8.4
CLARK POND	16.6	-	4.5	-	4.6	8.6
HUNDRED ACRE POND	6.4	-	9.4	-	11.0	8.9
SILVER LAKE	8.9	-	9.1	-	10.8	9.6
SENSITIVE (10 - 20 ppm)						
SLACK'S RESERVOIR	8.6	-	11.8	12.3	-	10.9
MISHNOCK LAKE	10.7	-	12.5	-	11.0	11.4
GEORGIAVILLE POND	15.1	-	13.5	-	6.0	11.5
OAK SWAMP RESERVOIR	10.3	-	11.7	-	13.1	11.7
CARR POND (NK)	10.1	-	13.4	-	-	11.7
WOONASQUATUCKET RESERVOIR - SOUTH	10.8	-	13.7	-	11.8	12.1
STILLWATER POND	9.4	-	14.8	-	-	12.1
LARKIN POND	11.7	-	13.8	-	-	12.7
BELLEVILLE POND - LOWER	17.0	-	6.9	-	15.3	13.1
WOONASQUATUCKET RESERVIOR	9.8	-	16.5	-	12.9	13.1
BELLEVILLE POND - UPPER	13.4	-	13.8	-	12.3	13.1
SILVER SPRING LAKE	12.0	-	13.5	-	14.7	13.4
UPPER DAM POND	13.5	-	-	-	-	13.5
SAUGATUCKET POND	10.2	-	16.7	-	15.4	14.1
WENSCOTT RESERVOIR	12.8	-	19.4	-	20.9	17.7
SLATER POND	24.7	-	27.5	-	7.1	19.8
NOT SENSITIVE (> 20 ppm)						
GORTON POND	18.3	-	21.1	-	22.2	20.5
SECRET LAKE	21.0	-	26.5	-	22.8	23.4
MELVILLE POND - UPPER	23.4	-	32.9	-	25.7	27.3
WARWICK POND	22.9	-	25.5	-	33.8	27.4
SPECTACLE POND	23.5	-	26.8	-	33.1	27.8
WESQUAGE POND	9.6	-	51.4	-	23.5	28.2
TURNER RESERVOIR	23.2	-	34.3	-	32.4	30.0
VALLEY FALLS POND	22.5	-	39.9	-	34.2	32.2
MASHAUG POND	40.2	-	-	48.1	-	44.1
PRINCE'S POND	75.3	-	74.4	-	75.0	74.9