

2004 Parameter Data: Alkalinity

2004 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 Alkalinity Classification:

ACIDIFIED: (< 1 ppm with pH < 5.0)
CRITICAL: (< 2 ppm)
ENDANGERED (2-5 ppm)

HIGHLY SENSITIVE (5-10 ppm)
SENSITIVE (0-20 ppm)
NOT SENSITIVE (> 20 ppm)

ALKALINITY

Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN	CLASSIFICATION	
Code	Alkalinity at 1M	----- (mg/L or ppm CaCO₃) -----								
CE	Almy Pond	53	-	67	-	-	56	59	Not Sensitive	
WD	Alton Pond	3	-	5	-	-	6	5	Endangered	
TH	Arnold Pond	2	-	5	-	-	5	4	Endangered	
WD	Barber Pond	3	-	4	-	-	5	4	Endangered	
A	Belleville Pond - Lower	14	-	15	-	-	13	14	Sensitive	
A	Belleville Pond - upper	8	-	18	-	-	23	16	Sensitive	
PA	Blackamore Pond	22	-	32	-	-	28	27	Not Sensitive	
TH	Bowdish Reservoir	7	-	1	-	-	1	3	Endangered	
WD	Breakheart Pond	2	-	3	-	-	3	3	Endangered	
NA	Brickyard Pond	38	-	49	-	-	-	44	Not Sensitive	
WD	Browning Mill Pond	2	-	4	-	-	2	3	Endangered	
TH	Carbuncle Pond	2	-	3	-	-	4	3	Endangered	
PE	Carr Pond (NK)	7	-	16	-	-	11	11	Sensitive	
PA	Carr Pond (WG)	0	-	0	-	-	0	0	Critical	
WD	Chapman Pond	17	-	39	-	-	-	28	Not Sensitive	
CW	Deep Pond	2	-	1	-	-	3	2	Critical	
PA	Fenner Pond	27	-	45	-	-	33	35	Not Sensitive	
PA	Flat River Reservoir	2	-	6	-	-	4	4	Endangered	
WO	Georgiaville Pond	11	-	14	-	-	14	13	Sensitive	
B	Handy Pond	23	-	32	-	-	28	28	Not Sensitive	
WO	Hawkins Pond	9	-	15	-	-	11	12	Sensitive	
WD	Hundred Acre Pond	6	-	25	-	-	10	14	Sensitive	
S	Indian Lake	2	-	1	-	-	1	1	Critical	
B	Keech Pond	1	-	3	-	-	3	2	Endangered	
TH	Lake Washington	0	-	6	-	5	-	4	Endangered	
CE	Lily Pond	41	-	46	-	-	40	42	Not Sensitive	
PA	Little Pond	6	-	7	-	7	8	7	Highly Sensitive	
WD	Locustville Pond	-	-	-	-	-	-	-		
S	Long Pond (SK)	0	-	0	-	-	1	0	Critical	
PA	Mashapaug Pond	44	-	52	-	-	52	49	Not Sensitive	
WD	Meadowbrook Pond	4	-	6	-	-	5	5	Endangered	

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NA	Melville Pond - Upper	19	-	36	-	-	26	27	Not Sensitive	
PA	Mishnock Lake	-	-	21	-	-	12	17	Sensitive	
SK	Nanaquaket Pond	-	-	99	-	-	7	53	Variable	
PA	Oak Swamp Reservoir	10	-	14	-	-	13	12	Sensitive	
B	Pascoag Reservoir	1	-	3	-	-	1	2	Critical	
WD	Pasquissett Pond	1	-	-	-	-	3	2	Endangered	
NA	Prince's Pond	-	-	-	-	-	89	-	-	
WD	Queen @ Usquepaugh (Glen Rock I	10	-	-	-	-	7	8	Highly Sensitive	
PA	Randall Pond	-	-	1	-	31	90	41	Not Sensitive	
CE	Round Pond	4	-	4	-	-	4	4	Endangered	
PA	Sand Pond	23	-	27	-	-	26	25	Not Sensitive	
S	Saugatucket Pond	32	-	36	-	-	40	36	Not Sensitive	
CW	Schoolhouse Pond - Lower	5	-	7	7	-	7	7	Highly Sensitive	
CW	Schoolhouse Pond - Upper	6	-	-	-	-	-	-	-	
H	Saw Mill Tributary	7	9	16	-	0	9	8	Highly Sensitive	
CW	Schoolhouse Pond - Lower	0	-	3	-	-	2	2	Endangered	
CW	Schoolhouse Pond - Upper	2	-	3	-	-	2	3	Endangered	
A	Secret Lake	19	-	27	-	-	19	22	Sensitive	
S	Silver Lake	8	-	8	-	-	9	8	Highly Sensitive	
PE	Silver Spring Lake	11	-	19	-	-	13	15	Sensitive	
CE	Simmon Mills Pond	3	-	4	-	-	2	3	Endangered	
TH	Sisson Pond (Coventry)	0	-	8	-	-	10	5	Highly Sensitive	
WO	Slack's Reservoir	7	-	13	11	-	12	11	Sensitive	
TE	Slater Pond	15	-	37	-	-	17	23	Not Sensitive	
B	Slatersville Reservoir - Upper	3	-	9	10	-	7	7	Highly Sensitive	
B	Smith & Sayles Reservoir	1	-	3	-	-	3	3	Endangered	
WD	Spalding Pond	6	-	10	-	-	8	8	Highly Sensitive	
PA	Spectacle Pond	28	-	-	26	-	31	28	Not Sensitive	
B	Spring Grove Pond	4	-	33	-	-	5	14	Sensitive	
B	Spring Lake	4	-	4	-	-	6	4	Endangered	
TA	Stafford Pond	8	-	5	-	-	8	7	Highly Sensitive	
PA	Tarbox Pond	0	-	0	-	-	2	1	Critical	
PA	Tiogou Lake	11	-	11	-	-	12	11	Sensitive	
WD	Tucker Pond	1	-	-	13	-	3	6	Endangered	
PA	Upper Dam Pond	12	-	19	-	-	13	15	Sensitive	
TE	Valley Falls Pond	21	-	33	-	-	31	28	Not Sensitive	
B	Wallum Lake	1	-	4	-	-	2	2	Endangered	
NA	Warwick Pond	25	-	30	36	35	32	32	Not Sensitive	
WD	Watchaug Pond	1	-	2	-	-	2	2	Critical	
WO	Waterman Reservoir	6	-	10	-	-	11	9	Highly Sensitive	

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NA	Wesquage Pond	24	-	28	-	-	19	24	Not Sensitive	
WD	White Brook Pond	8	-	11	-	-	10	10	Highly Sensitive	
WD	Wickaboxet Pond	2	-	2	-	-	0	1	Critical	
WD	Wincheck Pond	0	-	0	-	-	1	0	Critical	
WO	Woonasqua - Stump	9	-	14	-	-	17	14	Sensitive	
WD	Worden Pond	3	-	7	-	-	6	5	Highly Sensitive	
WD	Wyassup Lake	6	-	7	-	-	7	7	Highly Sensitive	
WD	Wyoming Pond	3	-	6	-	-	6	5	Highly Sensitive	
WD	Yawgoo Pond	2	-	3	-	-	4	3	Endangered	