Table 1. Parameters for MODFLOW simulation in Scenario A and B (Smith et al., 1997)

model zone	zone description	hydraulic conductivity (K) m/sec	Scenario A recharge rate (R) cm/yr	Scenario A maximum evapo-transpiration rate (ET) cm/yr	Scenario B recharge rate (R) cm/yr	Scenario B maximum evapo-transpiration rate (ET) cm/yr
1	upland till	2.3E-06	2.9	36.5	1.5	36.5
2	till -- east of Elk L. South	1.2E-04	6.6	36.5	1.5	36.5
3	till -- Spring L. toTurtle L.	3.5E-03	6.6	36.5	1.5	36.5
4	till -- Elk L. to Elk L. South	6.9E-05	6.6	36.5	1.5	36.5
5	till -- Elk L. to Spring L.	6.9E-05	6.6	36.5	1.5	36.5
6	till -- west of Turtle L.	2.3E-04	6.6	36.5	1.5	36.5
7	till -- Round L. toTurtle L.	3.5E-03	6.6	36.5	1.5	36.5
8	outwash - Chippewa valley	3.5E-03	6.6	36.5	1.5	36.5
9	outwash - Pomme de Terre valley	3.5E-03	6.6	36.5	1.5	36.5
10	till -- Church L. to Olson L.	1.2E-04	6.6	36.5	1.5	36.5
16-19	lakes <5 m depth	1.0E-01	62.1	73.0	1.5	36.5
20	lakes >5 m depth (Elk, Thompson, Barrett)	1.0E-01	62.1	73.0	31.0	109.5

Table 2. Lake bottom elevations, stage measurements, and model results for MODFLOW scenarios A and B (Smith et al., 1997)

Lake	Observed Lake Data					Model A (1994-95)			Model B (mid-Holocene)		
	1994 depth	1994 bottom elevation	1994 lake stage	1938 lake depth	1938 lake stage	model lake stage	model lake depth	residual error	model lake stage	model lake depth	model depth to water table
Elk Lake	9.1	358.12	367.22	-358.12	363.26	366.52	8.40	-0.70	359.59	1.47	--
Elk Lake South	5.2	363.53	368.73	-363.53	363.84	368.56	5.03	-0.17	361.58	dry	-1.95
Spring Lake	5.6	359.48	365.08	-359.48	360.03	365.12	5.64	0.04	357.60	dry	-1.88
Round Lake	5.6	359.35	364.95	-359.35	360.37	365.09	5.74	0.14	357.38	dry	-1.97
Turtle Lake	5.6	359.30	364.90	-359.30	360.97	365.03	5.73	0.13	356.99	dry	-2.31
Thompson Lake	7.6	368.99	376.59	-368.99	372.62	376.05	7.06	-0.54	373.56	4.57	--
Church Lake	3.8	367.00	370.80	-367.00	366.95	369.94	2.94	-0.86	364.24	dry	-2.76
Olson Lake	4.9	365.67	370.57	-365.67	366.52	369.91	4.24	-0.66	364.18	dry	-1.49
Torstenson Lake	3.5	368.06	371.56		dry	372.23	4.17	0.67	366.37	dry	-1.69
Hjermenrud Lake	1.2	370.78	371.98		dry	371.99	1.21	0.01	366.00	dry	-4.78
Peterson Lake	1.1	371.00	372.10		dry	372.98	1.98	0.88	366.76	dry	-4.24
Ellingson Lake	0.7	369.80	370.50		dry	369.74	-0.06	-0.76	363.66	dry	-6.14
Barrett Lake	6.1	343.90	350.00	??	??	350.30	6.40	0.30	344.32	0.42	--
Ratzlaff Lake	3.0	365.20	368.20		dry	374.69	9.49	6.49	361.30	dry	-3.90
W. Elk Slough #1	0.5	371.70	372.20		dry	373.42	1.72	1.22	367.56	dry	-4.14
W. Elk Slough #2	0.5	376.50	377.00		dry	378.76	2.26	1.76	368.09	dry	-8.41
WPA #1	0.3	374.00	374.30		dry	374.23	0.23	-0.07	356.05	dry	-17.95
Little WPA Pond	0.5	364.95	365.45		dry	366.15	1.20	0.70	358.37	dry	-6.58
WPA Above Spring L.	0.5	369.50	370.00		dry	373.07	3.57	3.07	360.33	dry	-9.17
Pond SE Barrett	0.5	372.90	373.40		dry	378.24	5.34	4.84	369.98	dry	-2.92
NW Jenstad Lake	0.5	373.40	373.90		dry	374.12	0.72	0.22	368.28	dry	-5.12
Jenstad Lake	0.9	371.70	372.60		dry	374.14	2.44	1.54	368.22	dry	-3.48
Sylvan Lake	0.8	371.50	372.30		dry	374.22	2.72	1.92	368.15	dry	-3.35