

HIGHLIGHTS

Valley Branch Watershed – Lake Levels, 2011

BARR ENGINEERING CO

June 1, 2011

May's precipitation was 133% of average. There were no major changes in lake levels, except for Horseshoe Lake which was up 2.11 feet, and Long Lake which was down a foot. Horseshoe Lake, which is receiving a lot of water from Eagle Point, is still rising and is just 0.41 feet below overflow.

On a yearly basis, all lakes are higher, but Horseshoe is up 6.29 feet and Olson & DeMontreville are up 3.84 feet from a year ago.

Storage values in the Project 1007 lakes showed a decrease in storage of 128 acre feet since last month and a decrease of 2021 acre feet since June 1, 2010.

	Acres	Overflow Elev.	Level	Acre ft. Storage	Total
Long Lake	90	937.50	938.99	-134.10	-72.70
O+D	220	928.35	929.22	-191.40	
Jane	160	922.35	920.77	252.80	
Eagle Pt.	130	894.00	894.55	-71.50	46.26
Elmo	274	884.10	883.76	93.16	
Horseshoe	60	875.20	874.79	24.60	
					-26.44

		Tri Lakes	Lower Lakes	Total
	3/1/10	1122	752	1874
	4/1/10	1019	774	1793
	5/1/10	1074	920	1994
	6/1/10	1051	943	1994
Storage	7/1/10	873	928	1801
Below	8/1/10	886	940	1826
Overflow	9/1/10	913	950	1863
	10/1/10	697	894	1591
	11/1/10	780	923	1703
	4/1/11	310	262	572
	5/1/11	-130	232	102
	6/1/11	-73	46	-27

VALLEY BRANCH WATER LEVELS

DATE	LONG	O-D	JANE	SUNFISH POINT	EAGLE	ELMO	HORSE- SHOE	DOWN	CLOVER-Mc. DALE	Goetschel DONALD	GRAVEL POND	WLSS LOWER	
2007													
1/1	937.13	927.69	921.31		<893	884.20	874.01	886.13	901.73		886.91	864.70	852.20
2/1	936.79	927.34	921.29		<893	884.20	874.16	886.41	901.34		887.06		
3/1	936.77	927.31	921.38		<893	884.24	874.19	886.00	901.39		886.59		
4/1	938.38	927.78	921.70			894.73	884.46	875.90	889.73		902.49	865.81	856.08
5/1	938.05	927.95	921.64	893.63	893.92	884.25	875.41	889.15	902.31		887.20	864.97	858.30
6/1	937.90	927.93	921.58	893.45	893.63	884.24	874.73	888.68	902.11		887.06	864.97	855.02
7/1	937.07	927.43	921.14	892.91	<893	883.80	873.80	887.94	901.39		886.38	864.72	852.00
8/1	936.27	926.79	920.65	892.31	<893	883.51	873.04	887.10	901.67		885.67		
9/1	936.91	926.79	920.72	892.35	<893	883.64	873.09	886.77	902.31		885.75		
10/1	937.86	926.90	920.92	892.45		883.76	873.19	886.80	902.75		885.92		
10/27	938.60	927.45	921.06	892.60	894.28	883.90	874.06	886.85	903.29		886.28		
12/1	937.63	927.07	920.86	892.29	893.64	883.60	873.50	886.73	902.69		885.94		
2008													
1/1	937.49	927.47	920.97		893.58	883.75	873.74	886.63	902.67				
2/1	937.24	927.30	920.86		<893	883.70	873.54	886.09					
3/1	936.89	927.16	920.87		<893	883.67	873.22	886.35					
4/1	937.35	927.26	920.96		893.39	883.92	873.42	886.41					
5/1	939.05	928.24	921.40	891.84	894.47	884.17	875.52	886.84					
6/1	939.09	928.90	921.39	891.74	894.18	884.20	875.41	886.67					
7/1	938.07	928.75	921.34	891.60	894.15	884.14	875.41	886.43					
8/1	937.33	928.31	921.02	891.15	893.20	883.83	874.36	886.24					
9/1	936.77	927.87	920.76	890.90	<893	883.71	873.80	885.41					
10/1	936.61	927.58	920.68	890.47		883.56	873.26	885.17					
11/1	936.43	927.32	920.52	889.37		883.54	872.95	884.79					
12/1	936.41	927.08	920.52			883.58	872.78	884.75					
2009													
1/1	936.18	927.23	920.58			883.43	872.65	884.94					
2/1	935.92	926.96	920.55			883.44	872.45	884.74					
3/1	935.81	927.02	920.62			883.48	872.43	884.64					
4/1	936.82	927.13	920.73			883.58	872.58	887.91					
5/1	936.60	927.09	920.53			883.49	872.24	887.39					
6/1	936.03	926.58	920.11			882.94	871.61	886.89					
7/1	935.84	926.30	919.91			882.82	871.22	886.69					
8/1	935.48	925.91	919.61			882.58	870.71	886.06					
9/1	936.56	925.97	919.74			882.70	870.66	886.28					
10/1	935.90	925.53	919.36			882.34	870.14	885.74					
11/1	937.34	925.89	919.81			882.65	871.53	885.86					
12/1	937.12	925.45	919.76			882.69	871.04	886.04					
2010													
1/1	937.08	925.67	919.96			882.72	871.14	886.14					
2/1	936.67	925.58	919.91										
3/1	936.45	925.49	919.86										
4/1	937.35	925.50	919.90			882.66	871.05	885.85					
5/1	937.31	925.35	919.87	888.86		882.64	868.70	884.82					
6/1	937.49	925.38	919.87	888.75		882.60	868.50	884.60					
7/1	938.46	925.70	920.00	888.75		882.66	868.48	884.50					
8/1	937.62	926.05	919.91	888.54		882.62	868.46	884.37					
9/1	937.35	926.08	919.85	888.49		882.56	868.56	884.59					
10/1	938.52	926.46	920.02	888.74		882.70	868.86	884.57					
11/1	937.76	926.56	919.79	888.54		882.60	868.84	884.37					
12/1	937.74	926.52	919.79										
2011													
4/1	939.14	927.79	920.26		894.45	883.68	871.78	886.16					
5/1	940.07	929.14	920.67	889.62	894.58	883.53	872.68	885.42					
6/1	938.99	929.22	920.77	889.78	894.55	883.76	874.79	885.32					
Month diff.	-1.08	0.08	0.10	0.16	-0.03	0.23	2.11	-0.10					
Year Diff.	1.50	3.84	0.90	1.03		1.16	6.29	0.72					
-Overflow	937.50	928.35	922.35	927.80	894.00	884.10	875.20	891.50	908.50	908.50	929.50	865.70	861.00



Minnesota Association of Watershed Districts, Inc.

MINNESOTA CLIMATOLOGICAL NETWORK

11	05	am						8
Year	Month	ObTime	County	Township	Range	Section		

Name	Charles W. Taylor	County Name	Washington	Township Name	
Address	4677 Birchbark Tr. No.	Lake Elmo, Minn.	55042	Telephone No.	(612) 777-2979

24-HOUR AMOUNTS At the end of each month, forward forms to:
 Office of State Climatology
 Department of Natural Resources
 University of Minnesota, 279 North Hall
 St. Paul, Minnesota 55108

REMARKS:
 Give times and comments about events.
 (Temperature and Phenology items are very useful).

Type of Gauge (Check One)
 Cyl. Test Tube
 Wedge Other

RAIN MELTED SNOW ETC. (INS & FIFTHS)	SNOW INS & TENTHS	SNOW ON GROUND INCHES		
			01	
			02	
			03	
			04	
0.30			05	
			06	
			07	
0.09			08	
0.50			09	
			10	
			11	
			12	
0.07			13	
			14	
0.10			15	
			16	
			17	
			18	
			19	
			20	
0.93			21	
0.10			22	
0.58			23	
			24	
			25	
			26	
			27	
0.28			28	
0.06			29	
			30	
0.08			31	
3.11			TOTALS	

Average = 2.34