

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	<input checked="" type="checkbox"/> am <input type="checkbox"/> pm						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)
RAIN MELTED SNOW ETC. (INS & FIFTHS)	SNOW INS & TENTHS	SNOW ON GROUND INCHES	Cyl. <input type="checkbox"/> Test Tube <input type="checkbox"/> Wedge <input type="checkbox"/> Other <input type="checkbox"/>

			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