

HIGHLIGHTS

Valley Branch Watershed – Lake Levels, 2011

July 4, 2011

June's precipitation was 137% of average. There were no major changes in lake levels, with Horseshoe Lake's 0.84 foot increase being the largest. In fact, Horseshoe Lake is now slightly above overflow, but there isn't a substantial amount of water entering the upper storage site yet.

On a yearly basis, all lakes are higher, but Horseshoe is up 7.15 feet and Olson & DeMontreville Lakes are up 3.6 feet from a year ago.

Storage values in the Project 1007 lakes showed a decrease in storage of 185 acre feet since last month and a decrease of 2013 acre feet since July 1, 2010. In fact, this is the 2<sup>nd</sup> month with negative storage values in the Project 1007 lakes.

	Acres	Overflow Elev.	Level	Acre ft. Storage		Total
Long Lake	90	937.50	938.75	-112.50	}	-103.90
O+D	220	928.35	929.30	-209.00		
Jane	160	922.35	920.99	217.60	}	-212.06
Eagle Pt.	130	894.00	894.76	-98.80		
Elmo	274	884.10	884.04	16.44	}	-108.16
Horseshoe	60	875.20	875.63	-25.80		

		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
	7/1/11	-104	-108	-212

VALLEY BRANCH WATER LEVELS

DATE	LONG	O-D	JANE	SUNFISH POINT	EAGLE	ELMO	HORSE- SHOE	DOWNS	CLOVER- DALE	Mc- DONALD	Goetschel POND	GRAVEL PIT	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		887.31	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					
7/1	938.77	929.30	920.99	890.00	894.76	884.04	875.63	885.22					
Month diff.	-0.22	0.08	0.22	0.22	0.21	0.28	0.84	-0.10					
Year Diff.	0.31	3.60	0.99	1.25		1.38	7.15	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	06	<input checked="" type="checkbox"/> am <input type="checkbox"/> pm						8
Year	Month	Ob Time	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. (IN & HOURS)	SNOW INS. & TENTHS	SNOW ON GROUND INCHES	Hour	Remarks
			01	
			02	
			03	
			04	
			05	
0.11			06	Avg 4.07
			07	
			08	
			09	
0.31			10	
0.21			11	
			12	
			13	
			14	
0.99			15	
0.04			16	
			17	
			18	} 1 day combined
1.22			19	
			20	
0.88			21	
1.30			22	
0.52			23	
			24	
			25	
			26	
			27	
			28	
			29	
			30	
			31	
5.58			TOTALS	