

## HIGHLIGHTS

### Valley Branch Watershed – Lake Levels, 2012

December 1, 2012

November was the fourth very dry month in a row with only 0.83 inches of precipitation (at Lake Jane) which is 43% of average. There was very little change in lake levels, although some of the readings were very difficult. On Downs Lake in particular, the bench mark was about 100 feet from shore. The Tri-Lakes froze over on Nov. 27. Lake Elmo is still all open.

Yearly comparisons show that all lakes were down. Horseshoe Lake and Long Lake were down 1.69 feet, and 1.46 feet respectively over December 2011.

Storage values in the Project 1007 lakes showed an increase in storage of 175 acre feet since last month, and an increase in storage of 851 acre feet since December 1, 2011. Eagle Pt. Lake level is unknown.

	Acres	Overflow Elev.	Level	Acre ft. Storage		Total
Long Lake	90	937.50	935.60	171.00	} 666.20	} 1178.16
O+D	220	928.35	927.27	237.60		
Jane	160	922.35	920.74	257.60		
Eagle Pt.	130	894.00	893.21	102.70	} 511.96	
Elmo	274	884.10	883.11	271.26		
Horseshoe	60	875.20	872.90	138.00		

		Tri Lakes	Lower Lakes	Total
	12/1/11	213	114	327
	4/1/12	107	-42	65
	5/1/12	140	-28	112
Storage	6/1/12	-161	-147	-308
Below	7/1/12	-82	-76	-158
Overflow	8/1/12	17	-13	4
	9/1/12	269	133	402
	10/1/12	553	305	858
	11/1/12	628	375	1003
	12/1/12	666	512	1178

VALLEY BRANCH WATER LEVELS

DATE	LONG	O-D	JANE	SUNFISH POINT	EAGLE	ELMO	HORSE- SHOE	DOWN	SILVER LAKE	GRAVEL PIT	WLSS LOWER
2008											
1/1	937.49	927.47	920.97		893.58	883.75	873.74	886.63			
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	899.10		
8/1	940.86	929.34	922.11		896.76	884.81	875.78		989.48	866.68	
9/1	939.68	929.09	922.20	890.90	896.08	885.06	875.73	887.61	989.07	866.77	862.16
10/1	937.60	928.70	921.85	890.78	894.23	884.26	875.53	887.04	988.51	865.14	860.68
10/28	937.15	928.40	921.65	890.74	893.83	884.26	874.98	887.06			858.28
12/1	937.06	928.16	921.53		893.13	884.23	874.59				
2012											
4/1	937.53	928.25	921.80		893.73	884.31	875.52		988.29	862.45	
5/1	937.40	928.25	921.67	891.78	893.60	884.33	875.48	886.56	988.55	865.56	857.78
6/1	938.36	929.03	921.94	892.24	894.35	884.36	875.70	886.32	989.10	865.70	861.00
7/1	937.75	928.97	921.87	892.24	894.25	884.21	875.43	886.16		864.93	
8/1	937.26	928.83	921.72	891.92	894.04	884.22	874.78	885.72			
9/1	936.32	928.35	921.33	891.68	893.25	883.89	873.86	885.41			
10/1	935.60	927.69	920.87	891.00	893.21	883.65	873.00	884.66			
11/1	935.58	927.45	920.74	890.88		883.61	872.90				
12/1	935.60	927.27	920.74	890.56		883.11	872.90	884.50			
Month diff.	0.02	-0.18	0.00	-0.32		-0.50	0.00				
Year Diff.	-1.46	-0.89	-0.79			-1.12	-1.69				
Overflow	937.50	928.35	922.35	927.80	894.00	884.10	875.20	891.50			



Minnesota Association of Watershed Districts, Inc.

MINNESOTA CLIMATOLOGICAL NETWORK

12	11	<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. INS & HOURS	SNOW INS & TENTHS	SNOW ON GROUND INCHES
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0.13

0.22

0.09

Avg. = 0.94

Late Sun. freeze over

