

HIGHLIGHTS

Valley Branch Watershed – Lake Levels, 2013
November 20, 2013

November was cold but extremely dry, with only 0.55 inches of precipitation (at Lake Jane) against an average of 1.94 inches. As expected there was little change in lake levels as of November 20 and most probably for the entire month. The biggest change was Long Lake which was down 0.46 feet, but suspect because different levels on the north and south portions of the lake.

Yearly changes were greater with all lakes above last year's levels. The greatest changes were Downs Lake and Sunfish Lake which were 3.12 feet and 1.19 feet higher respectively.

Storage values in the Project 1007 lakes showed a slight increase in storage of 58 acre feet since last month and a decrease of 691 acre feet since December 1, 2012.

			Elev.	Storage	
Long Lake	90	937.50	935.72	160.20	} 350.20
O+D	220	928.35	928.17	39.60	
Jane	160	922.35	921.41	150.40	
Eagle Pt.	130	894.00	893.57	55.90	} 487.38
Elmo	274	884.10	884.18	-21.92	
Horseshoe	60	875.20	873.48	103.20	

		Tri Lakes	Lower Lakes	Total
	11/1/12	628	375	1003
	12/1/12	666	512	1178
Storage	5/1/13	85	-2	83
Below	6/1/13	-189	-143	-332
Overflow	7/1/13	-717	-662	-1379
	8/1/13	-306	-140	-446
	9/1/13	-3	76	73
	10/1/13	240	257	497
	11/1/13	276	153	429
	11/20/13	350	137	487

VALLEY BRANCH WATER LEVELS

DATE	LONG	O-D	JANE	SUNFISH	EAGLE POINT	ELMO	HORSE- SHOE	DOWNS	SILVER LAKE	GRAVEL PIT	WLSS LOWER
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	989.22	865.70	861.00
7/1	937.75	928.97	921.87	892.24	894.25	884.21	875.43	886.16	989.64	864.93	
8/1	937.26	928.83	921.72	891.92	894.04	884.22	874.78	885.72	988.68		
9/1	936.32	928.35	921.33	891.68	893.25	883.89	873.86	885.41	988.15		
10/1	935.60	927.69	920.87	891.00	893.21	883.65	873.00	884.66	987.75		
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			
2013											
5/1	938.42	928.11	921.63		894.35		874.93		989.03		
6/1	939.20	928.92	921.79		894.27	884.37	875.77	887.44	989.22		
7/1	941.67	929.75	922.56	892.59	896.93	884.98	875.87	890.24	989.64	866.15	862.18
8/1	939.60	929.07	922.09		894.55	884.20	875.88	889.46	989.86	866.01	861.68
9/1	937.64	928.80	921.67		893.78	884.04	874.68	888.57	988.19		858.13
10/1	936.39	928.41	921.39	891.53	893.63	883.94	873.82	887.94	988.11		
11/1	936.18	928.32	921.41	891.75	893.57	884.14	873.40	887.64	988.06		
11/20	935.72	928.17	921.41	891.75	893.57	884.18	873.48	887.62			
Month diff.	-0.46	-0.15	0.00	0.00	0.00	0.04	0.08	-0.02			
Year Diff.	0.12	0.90	0.67	1.19		1.07	0.58	3.12			
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

13	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	

PAIN MELTED SNOW ETC. (INS. & HDTHS)	SNOW INS. & TENTHS	SNOW ON GROUND INCHES	Hour	Remarks
			01	
			02	
			03	
			04	
0.19			05	
0.12			06	1/2 snow + rain
			07	
			08	
			09	
			10	
			11	
			12	
			13	
			14	
			15	
			16	
0.24			17	
			18	
			19	
			20	
			21	
			22	
			23	
			24	late snow + Tri Lake freeze over
			25	
			26	
			27	
			28	
			29	
			30	
			31	

Nov. Avg = 1.94

0.55 TOTALS