

HIGHLIGHTS

Valley Branch Watershed – Lake Levels, 2013

October 1, 2013

September was another warm dry month with 1.69 inches of rain (at Lake Jane), which is 63% of the average for September. All lakes were down with the biggest drops being Long Lake and Horseshoe Lake which were down 1.25 feet and 0.86 feet respectively. The gravel pit and the West Lakeland storage were too low to get a reading, and Eagle Point Lake was up hill from the benchmark.

Yearly comparisons show all lakes are still above a year ago readings. The biggest departures are Downs Lake and Horseshoe Lake which are 3.16 feet and 0.82 higher than a year ago.

Storage values in the Project 1007 lakes showed an increase in storage of 424 acre feet since last month and a decrease of 361 acre feet since October 1, 2012. Keep in mind that Eagle Point is just a guess.

	Acres	Overflow Elev.	Level	Acre ft. Storage	Total
Long Lake	90	937.50	936.39	99.90	240.30
O+D	220	928.35	928.41	-13.20	
Jane	160	922.35	921.39	153.60	
Eagle Pt.	130	894.00	893.00	130.00	256.64
Elmo	274	884.10	883.94	43.84	
Horseshoe	60	875.20	873.82	82.80	

		Tri Lakes	Lower Lakes	Total
	9/1/12	269	133	402
	10/1/12	553	305	858
Storage	11/1/12	628	375	1003
Below	12/1/12	666	512	1178
Overflow	5/1/13	85	-2	83
	6/1/13	-189	-143	-332
	7/1/13	-717	-662	-1379
	8/1/13	-306	-140	-446
	9/1/13	-3	76	73
	10/1/13	240	257	497

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			
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			
2013											
5/1	938.42	928.11	921.63		894.35		874.93				
6/1	939.20	928.92	921.79		894.27	884.37	875.77	887.44			
7/1	941.67	929.75	922.56	892.59	896.93	884.98	875.87	890.24			
8/1	939.60	929.07	922.09		894.55	884.20	875.88	889.46		866.15	862.18
9/1	937.64	928.80	921.67		893.78	884.04	874.68	888.57		866.01	861.68
10/1	936.39	928.41	921.39			883.94	873.82	887.94			858.13
Month diff.	-1.25	-0.39	-0.28			-0.10	-0.86	-0.63			
Year Diff.	0.79	0.45	0.34			0.15	0.82	3.16			
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

am pm

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)			
RAIN MELTED SNOW ETC. IN & FIFTHS	SNOW INS & TENTHS	SNOW ON GROUND INCHES			Cyl	Test Tube	Wedge	Other

			01	
			02	
			03	
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			14	
0.72			15	
			16	
0.34			17	
			18	
0.30			19	
			20	
			21	
			22	
			23	
			24	
			25	
			26	
			27	
			28	
0.33			29	
			30	
			31	
1.69			TOTALS	

Average for Sept.
2.69"