

HIGHLIGHTS

Valley Branch Watershed – Lake Levels, 2011

October 1, 2011

September was the first dry month since April, with just 0.71 inches of precipitation (at Lake Jane), which is more than the airport. All lake levels were down with Long Lake and Eagle Point down 2.08 feet and 1.85 feet respectively. Even the West Lakeland storage area was down 1.48 feet.

On a yearly basis, all lakes, except Long Lake, were higher than a year ago. Horseshoe Lake is 6.67 higher than in 2010.

Storage values in the Project 1007 lakes showed an increase in storage of 800 acre feet since last month, but 1691 acre feet less storage than October 2010..

	Acres	Overflow Elev.	Level	Acre ft. Storage		Total
Long Lake	90	937.50	937.60	-9.00	} -6.00	} -99.54
O+D	220	928.35	928.70	-77.00		
Jane	160	922.35	921.85	80.00		
Eagle Pt.	130	894.00	894.23	-29.90	} -93.54	
Elmo	274	884.10	884.26	-43.84		
Horseshoe	60	875.20	875.53	-19.80		

		Tri Lakes	Lower Lakes	Total
	8/1/10	886	940	1826
	9/1/10	913	950	1863
	10/1/10	697	894	1591
Storage	11/1/10	780	923	1703
Below	4/1/11	310	262	572
Overflow	5/1/11	-130	232	102
	6/1/11	-73	46	-27
	7/1/11	-104	-108	-212
	8/1/11	-482	-588	-1070
	9/1/11	-335	-565	-900
	10/1/11	-6	-94	-100

VALLEY BRANCH WATER LEVELS

DATE	LONG	O-D	JANE	SUNFISH POINT	EAGLE	ELMO	HORSE- SHOE	DOWN	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	920.88	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			883.56	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						
8/1	940.86	929.34	922.11		896.76	884.81	875.78				866.68			
9/1	939.68	929.09	922.20	890.90	896.08	885.06	875.73	887.61			866.77	862.16		
10/1	937.60	928.70	921.85	890.78	894.23	884.26	875.53	887.04			865.14	860.68		
Month diff.		-2.08	-0.39	-0.35	-0.12	-1.85	-0.80	-0.20	-0.57			-1.63	-1.48	
Year Diff.		-0.92	2.24	1.83	2.04		1.56	6.67	2.47					
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	09	<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 ON GAGE	SNOW ON GROUND (INCHES)	Hour	Remarks
0.02			01	
			02	
0.04			03	
			04	
0.05			05	
			06	
			07	
			08	
			09	
			10	
			11	
			12	
			13	
			14	
			15	
			16	
			17	
0.32			18	
			19	
			20	
0.15			21	
			22	
			23	
			24	
			25	
			26	
0.13			27	
			28	
			29	
			30	
			31	
0.71			TOTALS	

Date	Silver Lake East 62-0001 (1912 datum)
2011	
1/20	988.83
2/23	988.93
3/10	988.88
4/15	989.24
5/4	988.92
5/18	988.90
5/23	989.16
6/1	989.03
6/30	989.10
7/14	988.97
7/27	989.48
8/10	989.25
8/24	989.25
9/8	988.90
9/21	988.66
10/4	988.51
Month Diff.	-0.15
Year Diff.	-0.21
Overflow	988.51