

HIGHLIGHTS

Valley Branch Watershed – Lake Levels, 2013

June 1, 2013

The cold wet spring has continued with 2.4 times normal precipitation (5.75 inches at Lake Jane). All lakes are up with Horseshoe Lake and Long Lake up 0.84 feet and 0.78 feet respectively. Horseshoe is above overflow, but the pit is not quite at overflow so that there is almost no water in the West Lakeland lower pond.

Yearly comparisons show only modest changes except, Long Lake, which is up 0.84 feet over last year at this time.

Storage values in the Project 1007 lakes showed a decrease in storage of 415 acre feet since last month and a decrease of just 24 acre feet since June 1, 2012.

| | Acres | Overflow Elev. | Level | Acre ft. Storage | Total |
|-----------|-------|----------------|--------|------------------|---------|
| Long Lake | 90 | 937.50 | 939.20 | -153.00 | -332.08 |
| O+D | 220 | 928.35 | 928.92 | -125.40 | |
| Jane | 160 | 922.35 | 921.79 | 89.60 | |
| Eagle Pt. | 130 | 894.00 | 894.27 | -35.10 | |
| Elmo | 274 | 884.10 | 884.37 | -73.98 | |
| Horseshoe | 60 | 875.20 | 875.77 | -34.20 | |

| | | 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 |
| | 5/1/13 | 85 | -2 | 83 |
| | 6/1/13 | -189 | -143 | -332 |

VALLEY BRANCH WATER LEVELS

| DATE | LONG | O-D | JANE | SUNFISH LAKE | 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 | 989.10 | 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 | | | |
| 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 | | | |
| Month diff. | 0.78 | 0.81 | 0.16 | | -0.08 | | 0.84 | | below full | little water | |
| Year Diff. | 0.84 | -0.11 | -0.15 | | -0.08 | 0.01 | 0.07 | | | | |
| 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

Year: 13 Month: 05 Ob Time: am pm County: Township: Range: Section: 8

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. | <input type="checkbox"/> | Test Tube | <input type="checkbox"/> |
| Wedge | <input type="checkbox"/> | Other | <input type="checkbox"/> |

| RAIN MELTED SNOW ETC (INS & FORTHS) | SNOW INS & FENTHS | SNOW ON GROUND INCHES | |
|---|-------------------------|--------------------------------|----|
| | | | 01 |
| 0.48 | | | 02 |
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| 0.75 | | | 05 |
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| 0.07 | | | 23 |
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| 0.27 | | | 25 |
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| 0.07 | | | 28 |
| | | | 29 |
| 0.52 | | | 30 |
| 5.75 | | | 31 |
| TOTALS | | | |