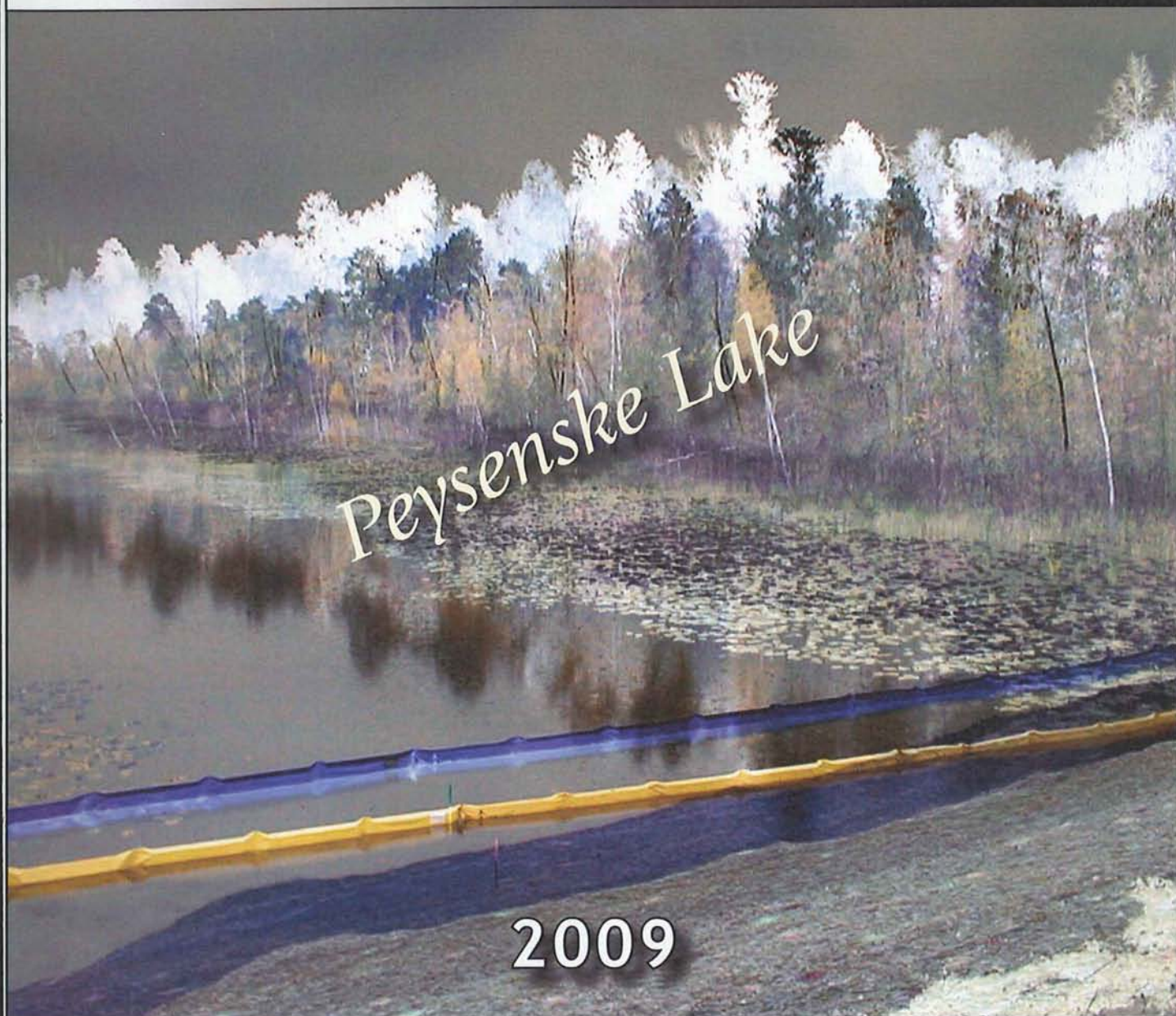


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Peysenske Lake Water Level Evaluation



Minnesota
Department of Natural Resources
Waters

Peysenske Lake Water Level Evaluation

by Michele Walker, Kirk English, Jeanette Leete and Robert Bezek

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Abstract

Low lake levels in Peysenske Lake have been observed by area residents. Some residents attribute the recent changes in lake levels to a culvert replacement beneath County State Aid Highway (CSAH) 11, a road which bisects Peysenske Lake. The record that past water levels have left on the landscape, called Ordinary High Water Levels (OHW), show that water level differences between the two basins on Peysenske Lake are long standing, and not due to the most recent culvert replacement but the functioning of the previous culverts. Analysis shows that lowering the culvert and subsequent drainage of the east basin would have a temporary and undetectable benefit to the west basin, while causing significant damage in the east basin.

Several previous investigations of ground water and surface water in this area have shown that ground water levels and precipitation have a direct impact on lake levels. This report further investigates the impact that precipitation has on ground water levels and lake levels in this area. Results confirm that ground water levels directly impact lake levels. With the decline in precipitation and subsequent reduced ground water recharge from 2003 to 2008, local ground water levels have dropped. This has resulted in lowered area lake levels. Historic records show that periods of increased precipitation can be predicted to cause rising lake levels on Peysenske Lake and other area lakes in the future.

Purpose and Scope

Residents around Peysenske Lake have observed and reported lowered lake levels during recent years. Several area residents have blamed the placement of a new culvert under County State Aid Highway 11 in 2005 for the lower lake levels. The residents believe that the culvert's elevation impedes flow of water from the east side of the lake to the west which then results in a redirection of ground water recharge away from the west basin and results in lower lake levels in the west basin. The purpose of this paper is to examine the cause of the lowered lake levels in Peysenske Lake.

Location and Description of Area

Peysenske Lake is located within the Pineland Sands area near Park Rapids, MN (Figure 1). The area is defined by surficial outwash underlain by till (Helgesen, 1977). The surficial outwash ranges from 0 to 135 feet thick with saturated thickness of 0 to 130 feet (Helgesen, 1977) for the entire Pineland Sands area. In the immediate area of Peysenske Lake, the saturated zone of the surficial aquifer ranges from 0 to 60 feet (Ruhl, 1995). The surficial soils consist mainly of loamy and coarse sands that are categorized as "generally excessively drained with high saturated conductivity" (NRCS, 2009).

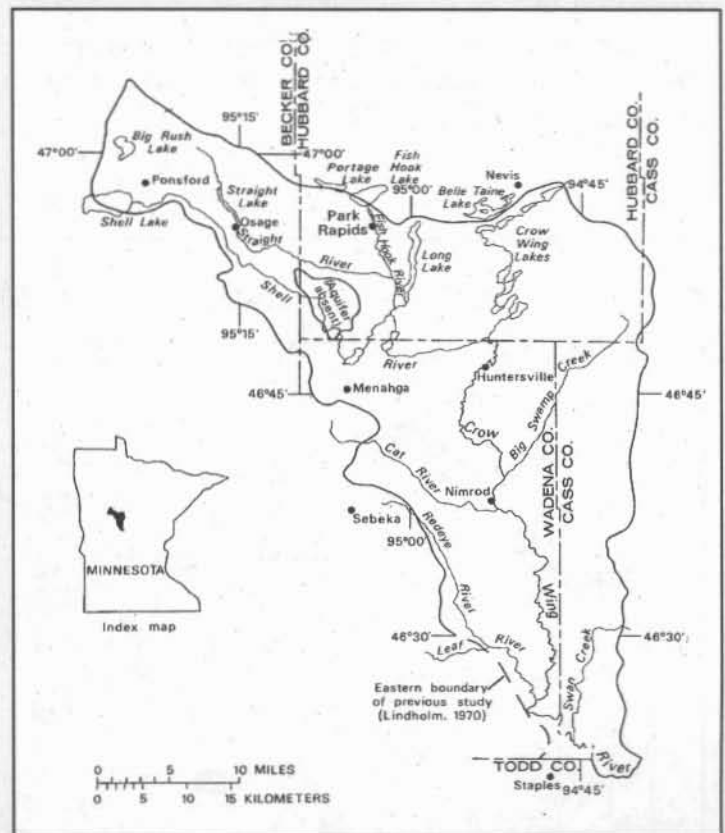


Figure 1. Pineland Sands Study Area (Figure 1 from Helgeson, 1977)

Previous Investigations

Studies conducted by Stark et al (1994), Siegel and Winter (1980), Helgeson (1977) and LaBaugh et al. (1981) have shown that ground water and surface water are directly connected in this area. Stark et al. (1994) showed that the Straight River, located southwest of Peysenske Lake, is recharged directly by ground water. Siegel and Winter (1980) and LaBaugh et al (1981) have shown that Williams Lake, located east of Peysenske Lake (Figure 2) and in a similar hydrogeologic system, is directly recharged from the shallow ground water around the lake. Helgeson (1977) showed that discharge from the shallow ground water system in this area is mainly to streams and lakes and that the "lakes and ponds that rely mostly on ground water for inflow might decline appreciably particularly in areas of substantial water table declines." These researchers have demonstrated that basins like Peysenske Lake are directly connected to and recharged by the ground water in this area.

Previous researchers have also demonstrated that the surficial aquifer in the area is recharged, in a large part, from the precipitation that falls directly in the area. Stark et al. (1994) and Ruhl (1995) stated that the sandy soils of the area have rapid infiltration, which results in substantial recharge to the surficial aquifers from precipitation. Precipitation in the area ranges from 23-28 inches per year with an average of 25.74 inches per year (the Minnesota Department of Natural Resources (DNR), State Climatology Office, 2009). The records show that from February 2003 until July 2008, annual precipitation varied from 0.18 to 13.68 inches below normal for the Park Rapids Area (Figure 3).

The ground water – lake interaction studies cited above show a strong correlation between precipitation and recharge to the surficial aquifer for this area. These studies also show a strong positive correlation between ground water levels and lake levels. This correlation indicates that the water level decline in Peysenske Lake may be due to lowered ground water levels rather than the culvert placement. To further evaluate this, an analysis of surface water, ground water and precipitation in the area of Peysenske Lake was conducted.

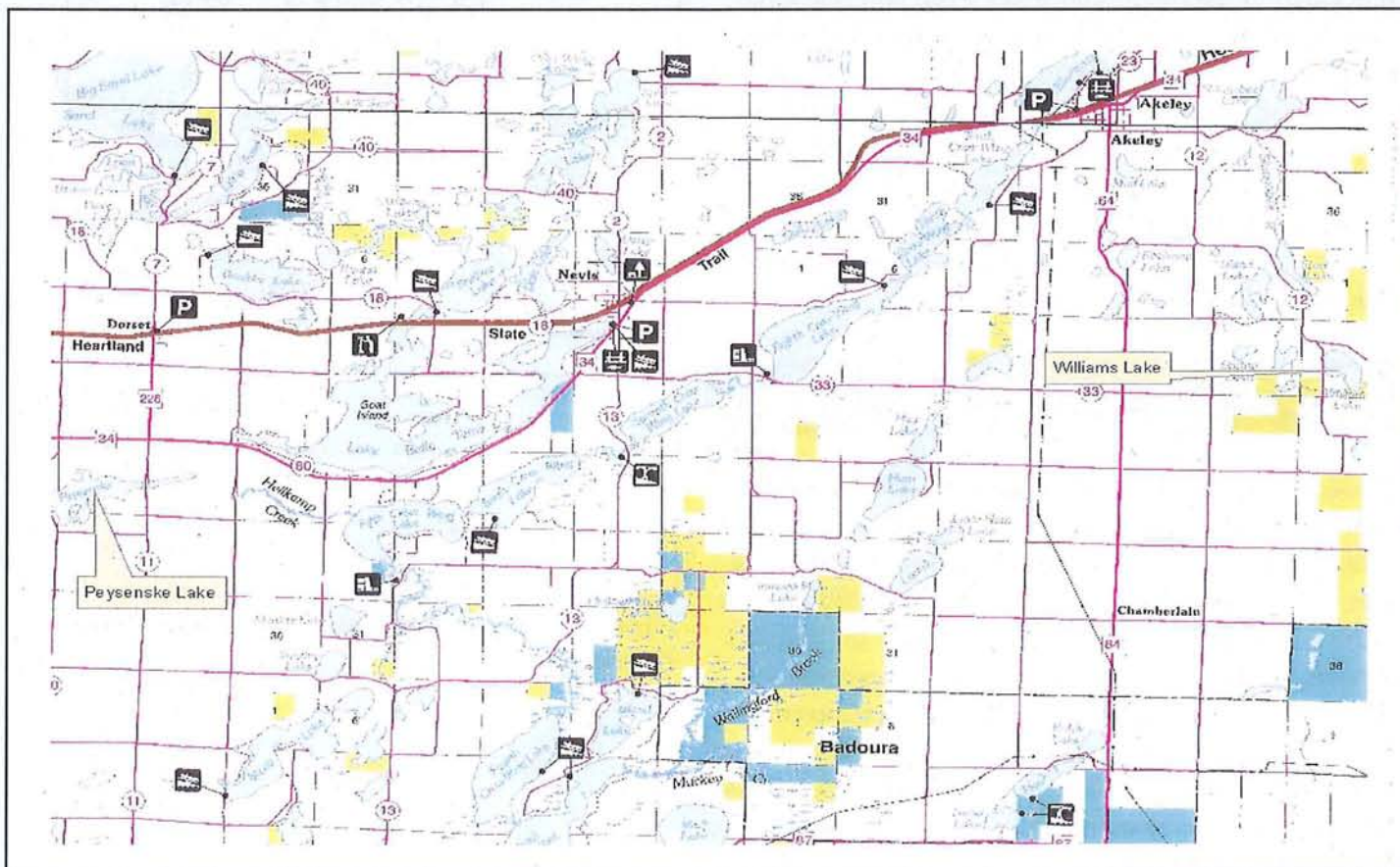


Figure 2. Location Map

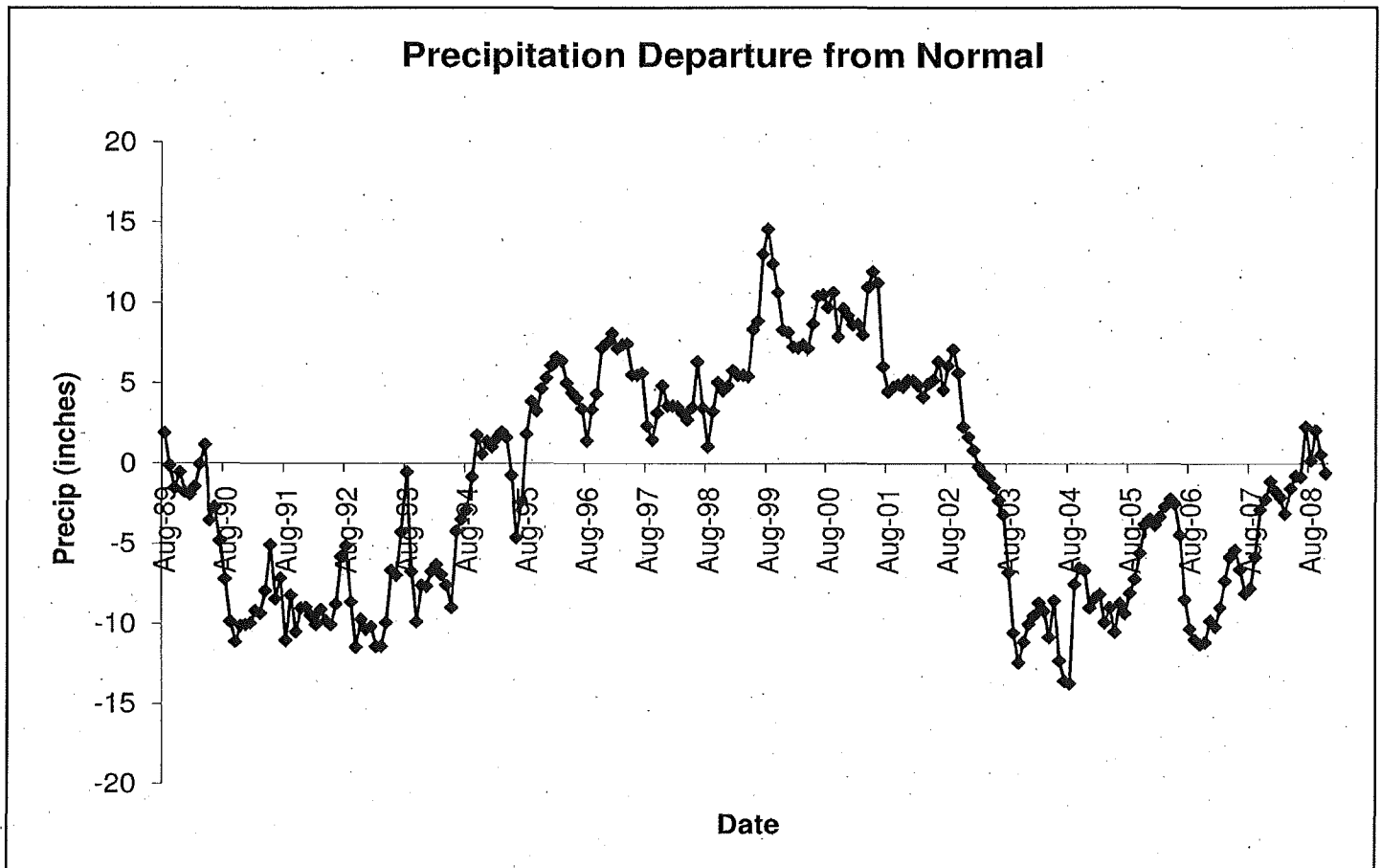


Figure 3. Cumulative Precipitation Departure from Normal

Investigation and Evaluation -Culvert & Surface Water Analysis

In October 2005, a hydrographic survey was completed for both basins on the lake. The survey determined that the OHW is higher in the east basin than the west basin. This indicates that higher water levels in the east basin have been maintained for a sufficient period of time, prior to the culvert replacement in September 2005, to leave permanent evidence on the landscape. This indicates that the culvert replacement did not raise water levels in the east basin above previously maintained levels.

The water level in the east basin is approximately 2 feet higher than the west basin, due to the culvert beneath CSAH 11. An analysis of lowering the culvert elevation was undertaken to evaluate the effects of the culvert on the water levels in both basins. If the culvert had been installed at a much lower elevation at the time of instal-

lation, the water level of the east basin would have been reduced to nearly the same elevation as the west basin. This would have been a reduction of about 2 feet. This would have had a dramatic impact on the east basin, draining this water into the west basin and significantly reducing its water surface area. The significant lowering of the water level on the east basin would also destroy significant aquatic habitat.

The effect of lowering the culvert on the west basin would have been small and short-term. It would raise the water level in the west basin a maximum of 0.12 feet based on the relative sizes of the two basins. This assumes vertical side slopes on both basins and that all of the water was drained instantaneously. The actual impact on water levels would be less considering that the assumption of vertical side slopes overestimates the amount of water stored in the east basin and its effect on the water level of the west basin. The longterm effect on the water level of the west basin would be insignificant since the initial influx of water to the west basin would soon be lost to evaporation due to the much larger surface area of the west basin. Thereafter, there would be no benefit to the west basin.

Investigation and Evaluation of Ground Water

The DNR and the Minnesota Department of Agriculture (MDA) both maintain networks of monitoring wells in the area of Peysenske Lake (Figure 4). Water levels are measured monthly in the DNR observation wells (obwells). The MDA wells are monitored quarterly on a rotating basis for water levels and ground water quality parameters. Water table levels range from 23 to 42 feet below land surface in these wells. The DNR recently surveyed the monitoring wells around Peysenske Lake to NGVD 1929 which allows for a direct comparison of ground water elevations between wells and the surface water elevations. Using ground water elevation readings from May 21, 2008 (or within 4 days), a general ground water flow map using the DNR observation wells shows that the regional ground water flow direction is to the southeast (Figure 5).

DNR has found that the strongest correlation between depth to water and precipitation for this location was a cumulative precipitation departure from normal over a 12-month time span. Figure 6 shows the local precipitation data and water levels in several monitoring wells just south, west and east of Peysenske Lake. These levels show a positive correlation between precipitation and ground water levels, which is enhanced when precipitation extremes occur.

The DNR also monitors lake levels in the area through a network of volunteers and cooperative organizations that collect and report lake levels. Several lakes in the area have many years of water level monitoring. Peysenske Lake has only had intermittent monitoring, forcing a greater reliance on comparisons of the relationship between levels on neighboring lakes to precipitation trends. Figure 7 shows several area lakes water levels, including Peysenske Lake, and compares it to the precipitation. Direct positive correlation is seen between lake levels and precipitation, again enhanced for precipitation extremes.

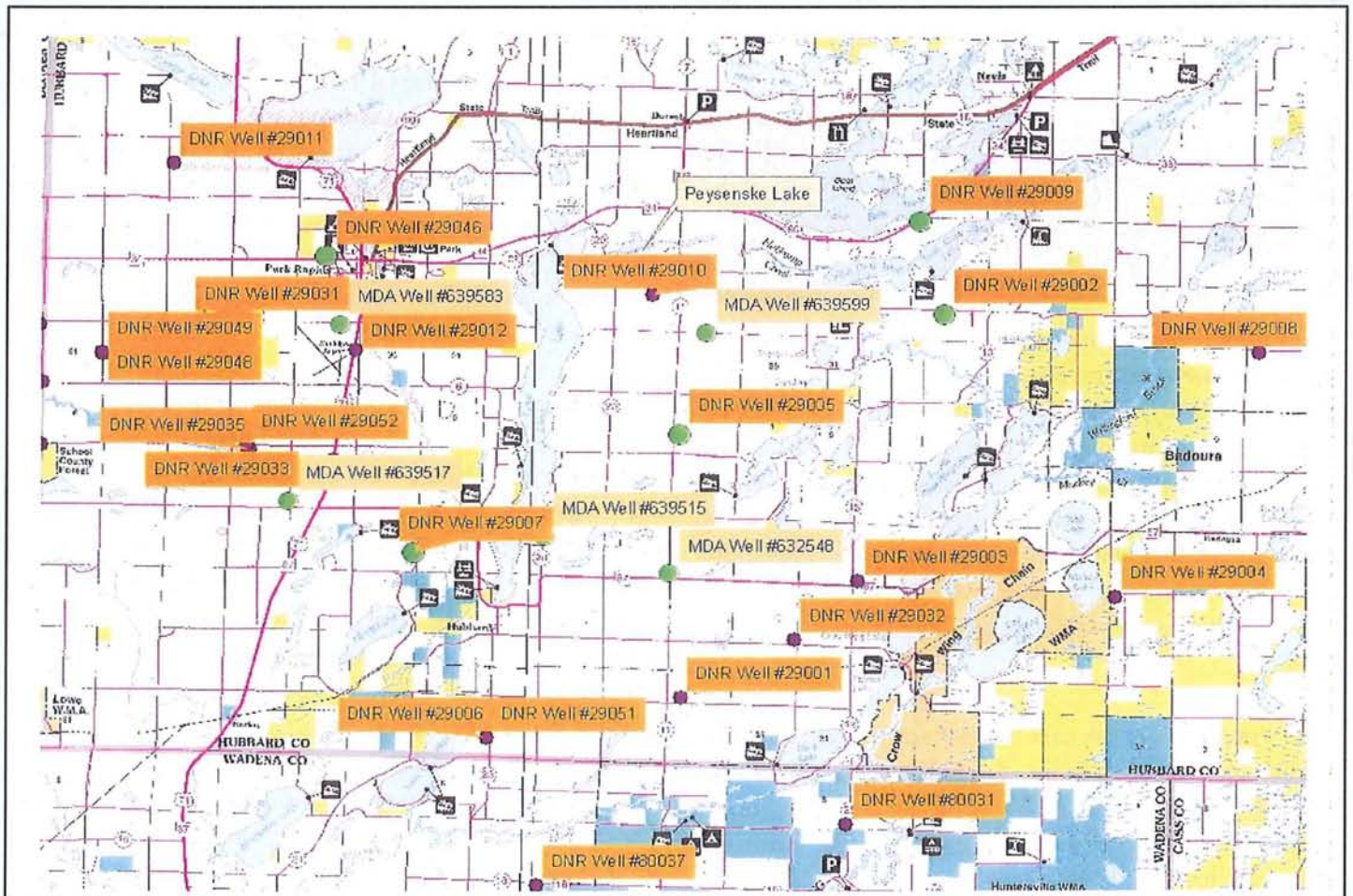


Figure 4. MDA and DNR Monitoring Well Locations

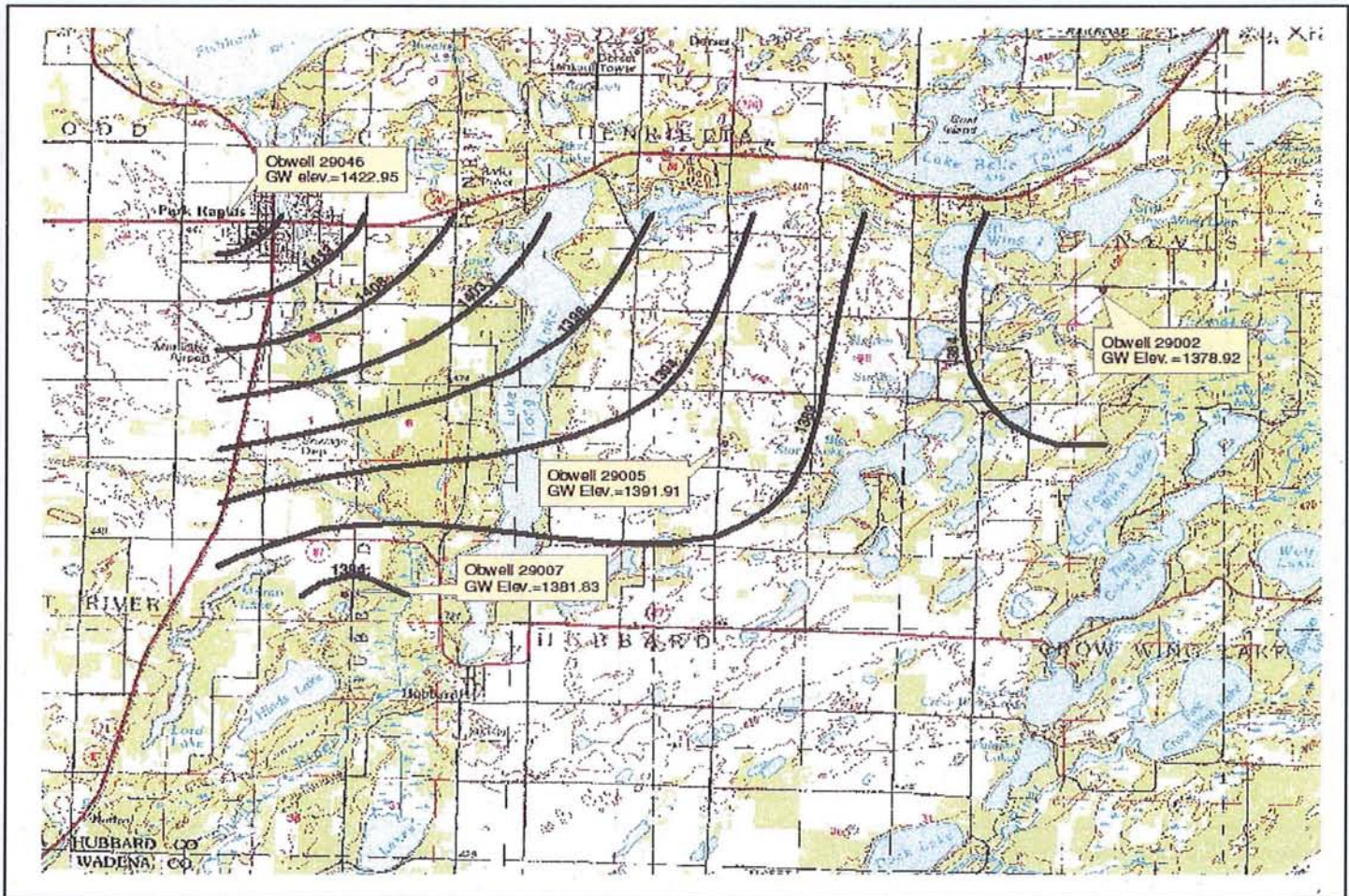


Figure 5. Generalized Ground Water Flow Direction (May 2008 Ground Water Levels-Kriging)

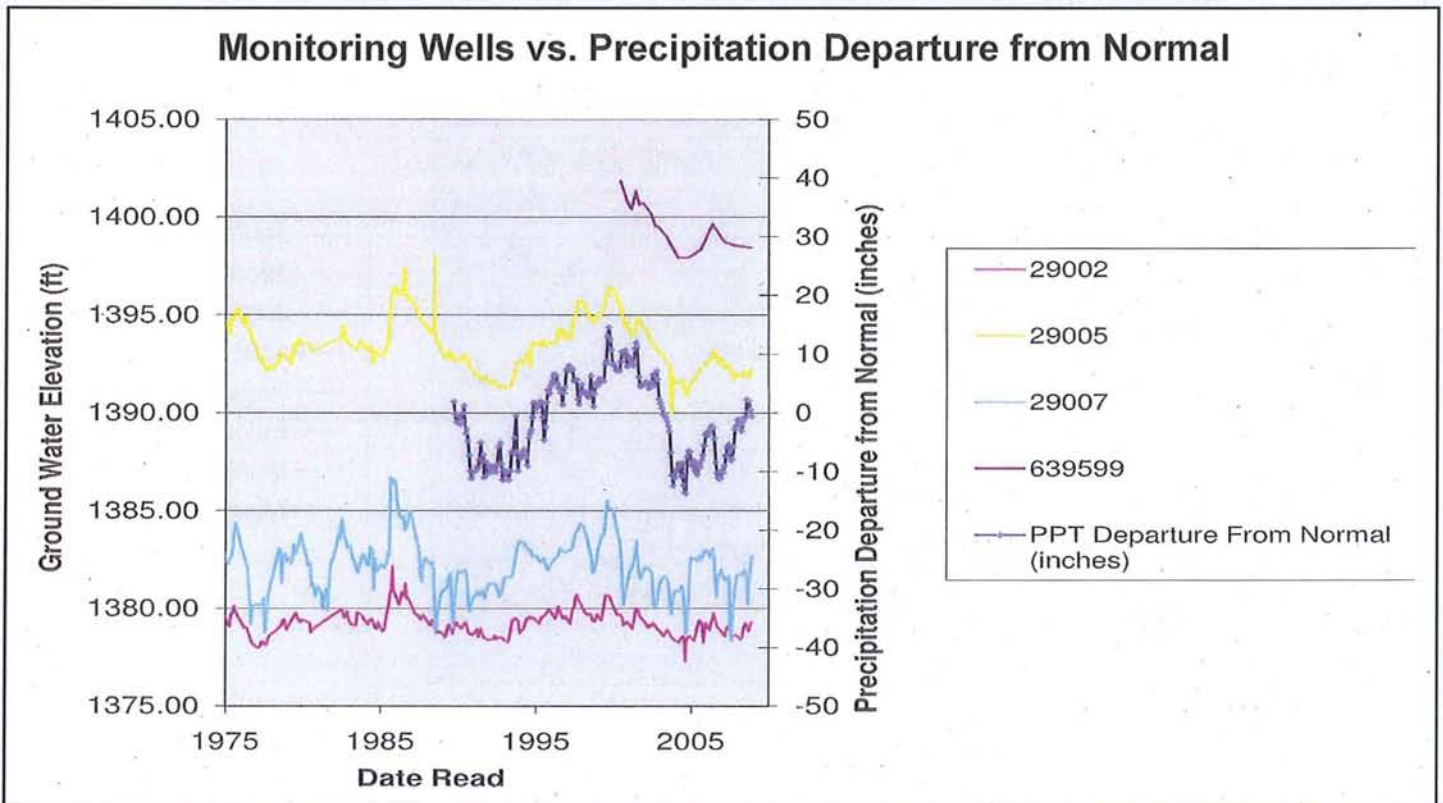


Figure 6. Monitoring Wells vs. Precipitation

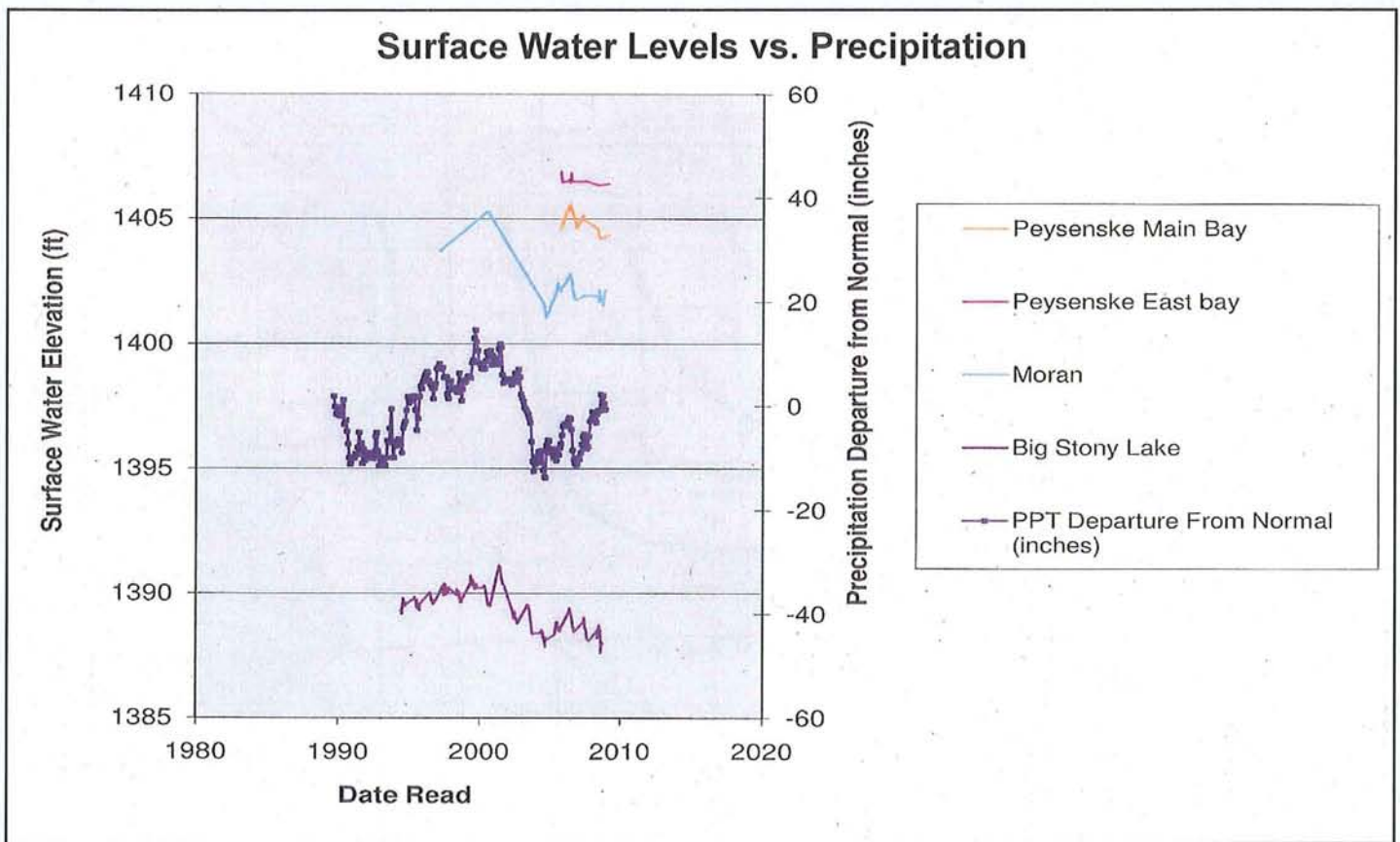


Figure 7. Surface Water vs. Precipitation

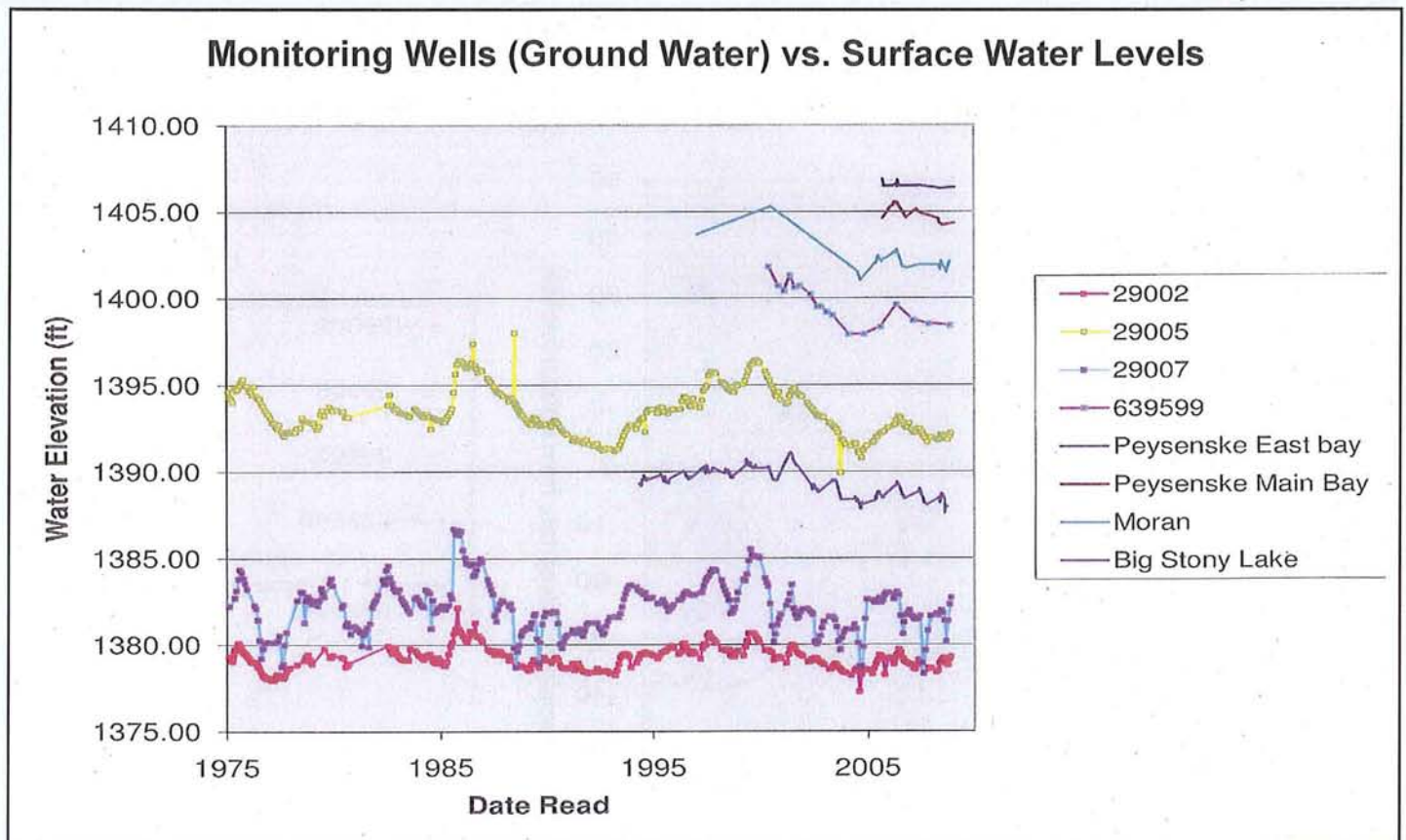


Figure 8. Surface Water vs. Monitoring Well (Ground Water) Elevations

Peysenske Lake Water Level Evaluation

Less direct correlation between lake and ground water levels and precipitation during more normal precipitation years is an indication that other influences on lake and ground water levels are involved. Previous studies have documented both ground water recharge to and discharge from area surface water bodies (Stark et al 1994, Helgesen 1977, LaBaugh et al 1981, Siegel and Winter 1980, Ruhl, 1995). Ground water and lake levels were compared to determine what effect they had on each other. Figure 8 shows a greater correlation between lake levels and ground water levels than precipitation and either surface or ground water levels. This correlation indicates that lake levels respond directly to ground water level changes and vice versa.

Investigation and Evaluation of Ground Water and Surface Water

Although many monitoring and observation wells exist in the area, few of the wells have a period of record of sufficient length to evaluate ground water flow directly around Peysenske Lake and the surface water and ground water interaction there. Previous research has shown that the water table in the area mimics the sur-

face topography. An analysis of the topography immediately around Peysenske Lake was conducted (Figures 9 & 10) to evaluate the ground water recharge to and discharge from the lake.

Based on the topography of the area, ground water flow (recharge to the lake) appears to be consistent with regional ground water flow: coming from the north moving southerly to a seepage face in Peysenske Lake on the NE side of the lake. As one proceeds west along the north side of the lake, the elevation decreases to Long Lake. The topography also shows that the whole ground water flow system from the north is separated from Peysenske Lake in the west half of the lake due to a trough that contains a string of little lakes (Figure 10). This indicates that the primary recharge area of the lake (for both basins) is on the NE side.

Evaluation of the topography and the areas' lake water elevations shows the discharge area of Peysenske Lake to be primarily to the SW. The area lakes are expressions of the water table surface. Comparing the elevations of the water in the string of little lakes immediately to the west of Peysenske Lake (Figure 10) to the water elevation of Peysenske Lake shows ground water flow is towards Long Lake and other smaller lakes SW and S from the west basin. In addition to this discharge on the west side of the lake, the east side of the lake drains primarily to the SW with some flow to the SE. The conclusion

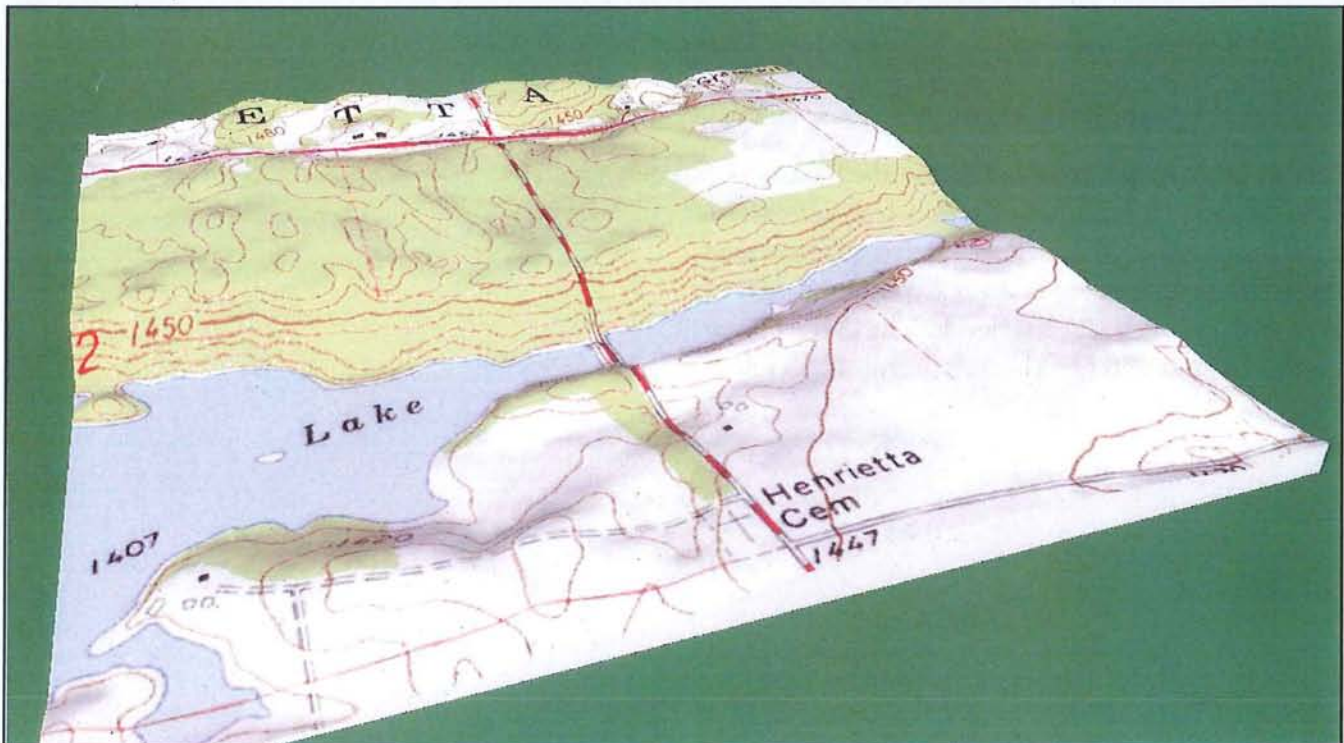


Figure 9. Peysenske Lake East Basin 3D Contour Map

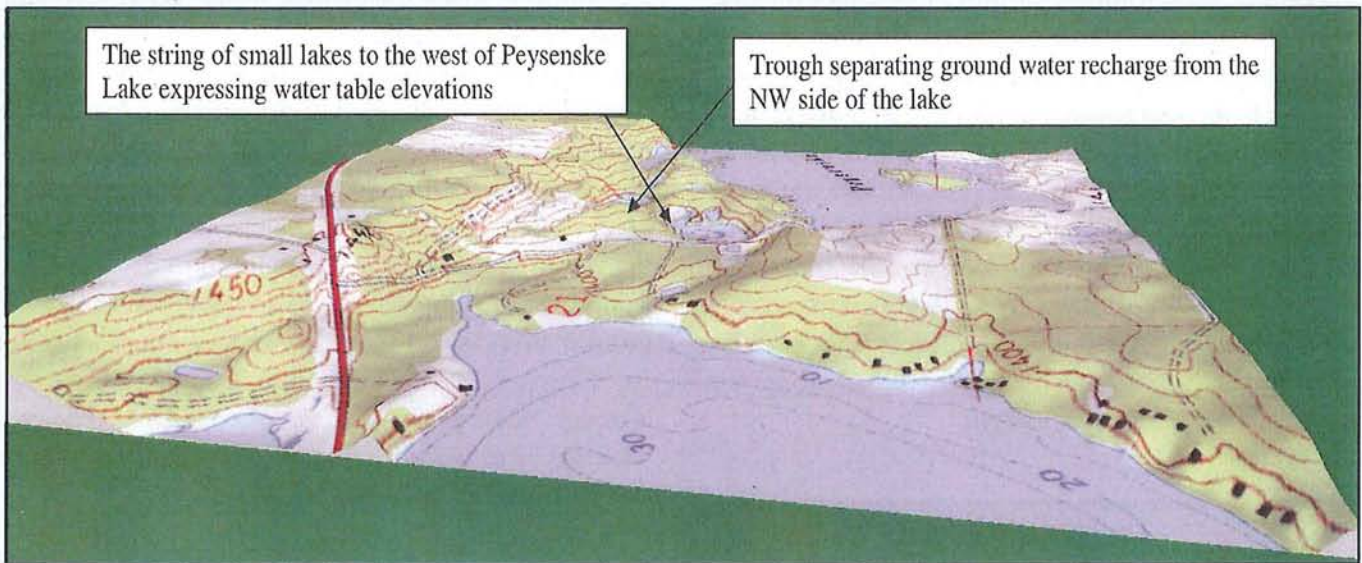


Figure 10. Peysenske Lake West Basin Contour Map with 3D View

is that discharge from the lake occurs primarily on the southwest side of the lake.

Although the entire lake receives ground water recharge from the north, the east basin receives more recharge relative to its surface area than the west basin. In addition, the west basin has a much larger discharge area than the east basin.

Conclusions

The water level in two basins of Peysenske Lake is directly related to groundwater levels which are correlated to precipitation trends. Recent years of decreased precipitation have resulted in decreased ground water levels and therefore lower lake levels. The culvert does not affect ground water levels nor control lake levels in the west basin.

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APPENDIX Data Tables

Peysenske Lake Water Level Evaluation

Ground Water Data							
Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)	Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)
639599	5/25/2000	2000.40	1401.83	29002	7/15/1975	1975.53	1380.1
639599	11/14/2000	2000.86	1400.73	29002	7/20/1975	1975.55	1380.12
639599	2/13/2001	2001.12	1400.43	29002	7/28/1975	1975.57	1380.08
639599	5/22/2001	2001.39	1401.33	29002	7/31/1975	1975.58	1380.04
639599	8/15/2001	2001.62	1400.63	29002	8/5/1975	1975.59	1379.99
639599	11/8/2001	2001.84	1400.73	29002	8/10/1975	1975.60	1379.94
639599	5/8/2002	2002.35	1400.23	29002	8/15/1975	1975.62	1379.87
639599	9/3/2002	2002.67	1399.53	29002	8/20/1975	1975.63	1379.85
639599	11/4/2002	2002.83	1399.53	29002	8/25/1975	1975.64	1379.86
639599	2/11/2003	2003.11	1399.23	29002	8/31/1975	1975.66	1379.82
639599	5/14/2003	2003.37	1399.03	29002	9/3/1975	1975.67	1379.78
639568	2/12/2004	2004.12	1397.94	29002	9/5/1975	1975.67	1379.78
639568	11/4/2004	2004.83	1397.94	29002	9/10/1975	1975.68	1379.79
639568	8/10/2005	2005.60	1398.34	29002	9/15/1975	1975.70	1379.74
639568	5/10/2006	2006.36	1399.64	29002	9/20/1975	1975.71	1379.72
639568	2/23/2007	2007.15	1398.74	29002	9/25/1975	1975.73	1379.7
639568	11/13/2007	2007.86	1398.54	29002	9/30/1975	1975.74	1379.68
639568	11/21/2008	2008.88	1398.44	29002	10/5/1975	1975.75	1379.67
29002	10/23/1974	1974.80	1379.73	29002	10/10/1975	1975.77	1379.62
29002	11/11/1974	1974.85	1379.72	29002	10/15/1975	1975.78	1379.6
29002	11/15/1974	1974.86	1379.71	29002	10/20/1975	1975.79	1379.58
29002	11/20/1974	1974.88	1379.69	29002	11/21/1975	1975.88	1379.48
29002	11/25/1974	1974.89	1379.67	29002	11/25/1975	1975.89	1379.48
29002	11/30/1974	1974.90	1379.65	29002	11/30/1975	1975.90	1379.46
29002	12/5/1974	1974.92	1379.62	29002	12/5/1975	1975.92	1379.44
29002	12/9/1974	1974.93	1379.6	29002	12/10/1975	1975.93	1379.42
29002	1/31/1975	1975.08	1379.33	29002	12/15/1975	1975.95	1379.38
29002	3/17/1975	1975.21	1379.12	29002	12/20/1975	1975.96	1379.37
29002	3/20/1975	1975.22	1379.11	29002	12/25/1975	1975.97	1379.33
29002	3/25/1975	1975.23	1379.1	29002	12/31/1975	1975.99	1379.31
29002	3/31/1975	1975.25	1379.09	29002	1/12/1976	1976.03	1379.25
29002	4/5/1975	1975.26	1379.07	29002	1/15/1976	1976.04	1379.25
29002	4/10/1975	1975.27	1379.06	29002	2/12/1976	1976.12	1379.11
29002	4/15/1975	1975.29	1379.11	29002	2/15/1976	1976.12	1379.11
29002	4/20/1975	1975.30	1379.31	29002	2/20/1976	1976.14	1379.09
29002	4/25/1975	1975.32	1379.44	29002	2/25/1976	1976.15	1379.07
29002	4/30/1975	1975.33	1379.53	29002	2/29/1976	1976.16	1379.04
29002	5/5/1975	1975.34	1379.62	29002	3/5/1976	1976.18	1379.01
29002	5/10/1975	1975.36	1379.68	29002	3/10/1976	1976.19	1379.01
29002	5/15/1975	1975.37	1379.71	29002	3/24/1976	1976.23	1379.02
29002	5/20/1975	1975.38	1379.76	29002	5/5/1976	1976.34	1379.03
29002	5/25/1975	1975.40	1379.77	29002	5/10/1976	1976.36	1379.03
29002	5/31/1975	1975.41	1379.77	29002	5/15/1976	1976.37	1379.02
29002	6/5/1975	1975.42	1379.77	29002	5/20/1976	1976.38	1378.98
29002	6/10/1975	1975.44	1379.75	29002	5/25/1976	1976.40	1378.96
29002	6/15/1975	1975.45	1379.74	29002	5/31/1976	1976.41	1378.92
29002	6/20/1975	1975.47	1379.78	29002	6/5/1976	1976.42	1378.81
29002	6/25/1975	1975.48	1379.82	29002	6/10/1976	1976.44	1378.8
29002	6/30/1975	1975.49	1379.86	29002	6/15/1976	1976.45	1378.77
29002	7/5/1975	1975.51	1379.94	29002	6/16/1976	1976.45	1378.77
29002	7/10/1975	1975.52	1380.03	29002	7/7/1976	1976.51	1378.7

Peysenske Lake Water Level Evaluation

Ground Water Data								
Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)		Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)
29002	8/5/1976	1976.59	1378.48		29002	8/18/1977	1977.62	1378.1
29002	9/8/1976	1976.68	1378.27		29002	9/15/1977	1977.70	1378.2
29002	9/20/1976	1976.71	1378.24		29002	10/17/1977	1977.79	1378.47
29002	9/24/1976	1976.72	1378.2		29002	11/19/1977	1977.87	1378.62
29002	10/18/1976	1976.79	1378.15		29002	12/17/1977	1977.95	1378.68
29002	10/22/1976	1976.80	1378.13		29002	4/15/1978	1978.29	1378.86
29002	10/25/1976	1976.81	1378.12		29002	8/20/1978	1978.63	1379.12
29002	10/31/1976	1976.82	1378.12		29002	9/16/1978	1978.70	1379.33
29002	11/5/1976	1976.84	1378.12		29002	10/16/1978	1978.78	1379.44
29002	11/10/1976	1976.85	1378.1		29002	11/18/1978	1978.87	1379.15
29002	11/15/1976	1976.86	1378.1		29002	12/21/1978	1978.96	1378.91
29002	11/20/1976	1976.88	1378.1		29002	7/21/1979	1979.55	1379.77
29002	11/25/1976	1976.89	1378.1		29002	10/17/1979	1979.79	1379.32
29002	11/30/1976	1976.90	1378.09		29002	11/17/1979	1979.87	1379.3
29002	12/1/1976	1976.91	1378.09		29002	12/15/1979	1979.95	1379.41
29002	12/5/1976	1976.92	1378.1		29002	5/17/1980	1980.38	1379.3
29002	1/6/1977	1977.02	1378.02		29002	6/18/1980	1980.46	1379.24
29002	1/10/1977	1977.03	1378.03		29002	7/19/1980	1980.55	1378.75
29002	1/15/1977	1977.04	1378.01		29002	8/16/1980	1980.62	1378.82
29002	1/20/1977	1977.05	1378.01		29002	9/13/1980	1980.69	1378.94
29002	1/25/1977	1977.07	1378.01		29002	7/16/1982	1982.54	1379.96
29002	1/31/1977	1977.08	1378		29002	8/15/1982	1982.62	1379.74
29002	2/5/1977	1977.10	1378		29002	9/17/1982	1982.70	1379.52
29002	2/10/1977	1977.11	1378.01		29002	10/17/1982	1982.79	1379.63
29002	2/15/1977	1977.12	1378.02		29002	11/14/1982	1982.86	1379.85
29002	2/20/1977	1977.14	1378.02		29002	12/17/1982	1982.95	1379.47
29002	2/25/1977	1977.15	1378.01		29002	1/14/1983	1983.04	1379.3
29002	2/28/1977	1977.16	1378		29002	2/16/1983	1983.13	1379.17
29002	3/5/1977	1977.18	1377.99		29002	3/15/1983	1983.21	1379.18
29002	3/10/1977	1977.19	1377.99		29002	4/15/1983	1983.29	1379.13
29002	3/15/1977	1977.21	1378.02		29002	5/18/1983	1983.38	1379.15
29002	3/20/1977	1977.22	1378.05		29002	6/16/1983	1983.45	1379.12
29002	3/25/1977	1977.23	1378.05		29002	7/15/1983	1983.53	1379.79
29002	3/31/1977	1977.25	1378.06		29002	10/14/1983	1983.78	1379.7
29002	4/5/1977	1977.26	1378.09		29002	11/15/1983	1983.86	1379.6
29002	4/10/1977	1977.27	1378.1		29002	12/16/1983	1983.95	1379.43
29002	4/15/1977	1977.29	1378.1		29002	1/13/1984	1984.04	1379.37
29002	4/20/1977	1977.30	1378.15		29002	2/17/1984	1984.13	1379.25
29002	4/25/1977	1977.32	1378.22		29002	3/16/1984	1984.21	1379.17
29002	4/28/1977	1977.32	1378.14		29002	4/16/1984	1984.29	1379.37
29002	4/30/1977	1977.33	1378.26		29002	5/17/1984	1984.38	1379.43
29002	5/5/1977	1977.34	1378.3		29002	6/19/1984	1984.46	1379.47
29002	5/10/1977	1977.36	1378.3		29002	7/17/1984	1984.54	1379.29
29002	5/12/1977	1977.36	1378.28		29002	8/15/1984	1984.62	1379.09
29002	5/15/1977	1977.37	1378.25		29002	9/17/1984	1984.70	1378.99
29002	5/20/1977	1977.38	1378.2		29002	10/18/1984	1984.79	1378.96
29002	5/25/1977	1977.40	1378.17		29002	11/14/1984	1984.86	1379.28
29002	5/31/1977	1977.41	1378.19		29002	12/14/1984	1984.94	1379.12
29002	6/5/1977	1977.42	1378.27		29002	1/15/1985	1985.04	1378.96
29002	6/23/1977	1977.47	1378.26		29002	2/15/1985	1985.12	1378.84
29002	7/19/1977	1977.55	1378.18		29002	3/18/1985	1985.21	1378.82

Peysenske Lake Water Level Evaluation

Ground Water Data

Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)	Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)
29002	4/15/1985	1985.29	1379.04	29002	11/15/1989	1989.86	1379.29
29002	5/14/1985	1985.37	1379.48	29002	12/14/1989	1989.94	1379.12
29002	6/17/1985	1985.46	1379.92	29002	3/16/1990	1990.21	1378.97
29002	7/15/1985	1985.53	1380.16	29002	4/17/1990	1990.29	1379.11
29002	8/13/1985	1985.61	1380.65	29002	5/15/1990	1990.37	1379.22
29002	9/13/1985	1985.69	1380.93	29002	6/14/1990	1990.45	1379.28
29002	10/17/1985	1985.79	1382.14	29002	7/16/1990	1990.54	1379.13
29002	11/14/1985	1985.86	1380.91	29002	8/15/1990	1990.62	1378.84
29002	12/16/1985	1985.95	1380.73	29002	9/17/1990	1990.70	1378.69
29002	1/15/1986	1986.04	1380.55	29002	10/15/1990	1990.78	1378.66
29002	2/18/1986	1986.13	1380.34	29002	11/15/1990	1990.86	1378.71
29002	3/14/1986	1986.20	1380.18	29002	12/14/1990	1990.94	1378.62
29002	4/15/1986	1986.29	1380.4	29002	3/15/1991	1991.21	1378.94
29002	5/15/1986	1986.37	1380.81	29002	4/16/1991	1991.29	1378.55
29002	6/17/1986	1986.46	1380.76	29002	5/13/1991	1991.36	1378.82
29002	7/14/1986	1986.53	1380.63	29002	6/14/1991	1991.45	1378.94
29002	8/15/1986	1986.62	1381.27	29002	7/18/1991	1991.54	1378.75
29002	9/15/1986	1986.70	1380.48	29002	8/14/1991	1991.61	1378.58
29002	10/16/1986	1986.78	1380.54	29002	9/16/1991	1991.70	1378.48
29002	11/17/1986	1986.87	1380.38	29002	10/15/1991	1991.78	1378.45
29002	12/15/1986	1986.95	1380.23	29002	11/19/1991	1991.87	1378.41
29002	3/16/1987	1987.21	1379.74	29002	12/16/1991	1991.95	1378.38
29002	4/14/1987	1987.28	1379.69	29002	3/17/1992	1992.21	1378.42
29002	5/15/1987	1987.37	1379.62	29002	4/17/1992	1992.29	1378.45
29002	6/17/1987	1987.46	1379.66	29002	5/13/1992	1992.36	1378.63
29002	7/15/1987	1987.53	1379.45	29002	6/16/1992	1992.45	1378.42
29002	8/14/1987	1987.61	1379.45	29002	7/14/1992	1992.53	1378.52
29002	9/15/1987	1987.70	1379.57	29002	8/17/1992	1992.62	1378.48
29002	10/13/1987	1987.78	1379.64	29002	9/14/1992	1992.70	1378.49
29002	11/12/1987	1987.85	1379.54	29002	10/19/1992	1992.79	1378.52
29002	12/14/1987	1987.94	1379.42	29002	11/16/1992	1992.87	1378.46
29002	3/16/1988	1988.21	1379.12	29002	12/15/1992	1992.95	1378.37
29002	4/19/1988	1988.30	1379.4	29002	3/15/1993	1993.21	1378.26
29002	5/16/1988	1988.37	1379.3	29002	4/15/1993	1993.29	1378.53
29002	6/14/1988	1988.45	1379.09	29002	5/18/1993	1993.38	1378.9
29002	7/15/1988	1988.53	1378.91	29002	6/15/1993	1993.45	1379.28
29002	8/17/1988	1988.62	1378.78	29002	7/16/1993	1993.54	1379.42
29002	9/13/1988	1988.69	1378.75	29002	8/16/1993	1993.62	1379.47
29002	10/18/1988	1988.79	1378.81	29002	9/16/1993	1993.70	1379.51
29002	11/14/1988	1988.86	1378.75	29002	10/14/1993	1993.78	1379.43
29002	12/19/1988	1988.96	1378.72	29002	11/16/1993	1993.87	1379.33
29002	1/17/1989	1989.05	1378.66	29002	12/16/1993	1993.95	1378.72
29002	2/16/1989	1989.13	1378.52	29002	3/16/1994	1994.21	1378.97
29002	3/15/1989	1989.21	1378.56	29002	4/18/1994	1994.30	1379.22
29002	4/12/1989	1989.28	1378.91	29002	5/17/1994	1994.38	1379.49
29002	5/16/1989	1989.37	1379.17	29002	6/16/1994	1994.45	1379.44
29002	6/13/1989	1989.45	1379.08	29002	7/15/1994	1994.53	1379.54
29002	7/14/1989	1989.53	1378.92	29002	8/15/1994	1994.62	1379.6
29002	8/15/1989	1989.62	1378.69	29002	9/12/1994	1994.69	1379.46
29002	9/15/1989	1989.70	1379.07	29002	10/17/1994	1994.79	1379.48
29002	10/16/1989	1989.78	1379.29	29002	11/15/1994	1994.86	1379.51

Peysenske Lake Water Level Evaluation

Ground Water Data								
Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)		Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)
29002	12/19/1994	1994.96	1379.41		29002	3/16/2000	2000.21	1379.67
29002	3/16/1995	1995.21	1379.21		29002	4/14/2000	2000.28	1379.69
29002	4/13/1995	1995.28	1379.36		29002	5/11/2000	2000.36	1379.69
29002	5/16/1995	1995.37	1379.53		29002	6/15/2000	2000.45	1379.62
29002	6/14/1995	1995.45	1379.56		29002	7/13/2000	2000.53	1379.57
29002	7/14/1995	1995.53	1379.62		29002	8/15/2000	2000.62	1379.13
29002	8/15/1995	1995.62	1379.68		29002	9/15/2000	2000.70	1379.26
29002	9/19/1995	1995.71	1379.8		29002	10/16/2000	2000.78	1379.2
29002	10/16/1995	1995.78	1379.91		29002	11/14/2000	2000.86	1379.31
29002	11/17/1995	1995.87	1379.94		29002	12/14/2000	2000.94	1379.23
29002	12/14/1995	1995.94	1379.84		29002	3/15/2001	2001.21	1378.95
29002	3/14/1996	1996.20	1379.47		29002	4/20/2001	2001.30	1379.43
29002	4/15/1996	1996.29	1379.6		29002	5/16/2001	2001.37	1379.77
29002	5/16/1996	1996.37	1380.06		29002	6/14/2001	2001.45	1380
29002	6/17/1996	1996.46	1380.09		29002	7/17/2001	2001.54	1379.97
29002	7/15/1996	1996.53	1379.89		29002	8/14/2001	2001.61	1379.78
29002	8/14/1996	1996.61	1379.67		29002	9/14/2001	2001.70	1379.58
29002	9/16/1996	1996.70	1379.51		29002	10/12/2001	2001.77	1379.49
29002	10/15/1996	1996.78	1379.48		29002	11/14/2001	2001.86	1379.42
29002	11/18/1996	1996.87	1379.62		29002	12/17/2001	2001.95	1379.36
29002	12/16/1996	1996.95	1379.51		29002	3/14/2002	2002.20	1379.03
29002	3/12/1997	1997.20	1379.2		29002	4/15/2002	2002.29	1379.03
29002	4/17/1997	1997.29	1379.8		29002	5/16/2002	2002.37	1379.17
29002	5/14/1997	1997.37	1380.03		29002	6/12/2002	2002.44	1379.08
29002	6/16/1997	1997.45	1379.99		29002	7/16/2002	2002.54	1379.24
29002	7/15/1997	1997.53	1380.55		29002	8/16/2002	2002.62	1379.2
29002	8/15/1997	1997.62	1380.69		29002	9/13/2002	2002.69	1379.09
29002	9/15/1997	1997.70	1380.47		29002	10/15/2002	2002.78	1378.99
29002	10/14/1997	1997.78	1380.33		29002	11/14/2002	2002.86	1378.93
29002	11/14/1997	1997.86	1380.27		29002	12/19/2002	2002.96	1378.85
29002	12/16/1997	1997.95	1380.11		29002	3/12/2003	2003.20	1378.59
29002	3/16/1998	1998.21	1379.73		29002	4/8/2003	2003.27	1378.6
29002	4/15/1998	1998.29	1379.72		29002	5/15/2003	2003.37	1378.79
29002	5/13/1998	1998.36	1379.66		29002	6/16/2003	2003.45	1378.9
29002	6/16/1998	1998.45	1379.73		29002	7/14/2003	2003.53	1378.82
29002	7/16/1998	1998.54	1379.69		29002	8/14/2003	2003.61	1378.7
29002	8/17/1998	1998.62	1379.39		29002	9/17/2003	2003.70	1378.57
29002	9/16/1998	1998.70	1379.32		29002	10/15/2003	2003.78	1378.48
29002	10/16/1998	1998.78	1379.32		29002	11/13/2003	2003.86	1378.4
29002	11/20/1998	1998.88	1379.6		29002	12/15/2003	2003.95	1378.37
29002	12/14/1998	1998.94	1379.67		29002	3/15/2004	2004.21	1378.25
29002	3/15/1999	1999.21	1379.37		29002	5/17/2004	2004.38	1378.51
29002	4/16/1999	1999.29	1379.86		29002	6/15/2004	2004.45	1378.59
29002	5/17/1999	1999.38	1380.22		29002	7/16/2004	2004.54	1378.45
29002	6/15/1999	1999.45	1380.64		29002	8/12/2004	2004.61	1377.31
29002	7/19/1999	1999.55	1380.67		29002	9/16/2004	2004.70	1378.27
29002	8/17/1999	1999.62	1380.67		29002	10/14/2004	2004.78	1378.52
29002	9/14/1999	1999.70	1380.62		29002	11/15/2004	2004.86	1378.58
29002	10/19/1999	1999.79	1380.44		29002	12/15/2004	2004.95	1378.53
29002	11/15/1999	1999.86	1380.31		29002	3/14/2005	2005.20	1378.33
29002	12/13/1999	1999.94	1380.17		29002	4/12/2005	2005.28	1378.62

Peysenske Lake Water Level Evaluation

Ground Water Data								
Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)		Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)
29002	5/16/2005	2005.37	1378.9		29005	12/15/1975	1975.95	1394.99
29002	6/13/2005	2005.45	1379.12		29005	1/17/1976	1976.05	1394.7
29002	7/13/2005	2005.53	1379.39		29005	2/19/1976	1976.13	1394.61
29002	8/13/2005	2005.61	1379.33		29005	3/17/1976	1976.21	1394.46
29002	9/15/2005	2005.70	1379.2		29005	4/17/1976	1976.29	1394.95
29002	10/14/2005	2005.78	1378.26		29005	5/14/1976	1976.37	1394.44
29002	12/19/2005	2005.96	1379.23		29005	6/15/1976	1976.45	1394.29
29002	3/16/2006	2006.21	1378.89		29005	7/18/1976	1976.54	1394.25
29002	4/14/2006	2006.28	1379.23		29005	8/16/1976	1976.62	1394.01
29002	5/12/2006	2006.36	1379.39		29005	9/15/1976	1976.70	1393.85
29002	6/14/2006	2006.45	1379.73		29005	10/16/1976	1976.78	1393.6
29002	7/13/2006	2006.53	1379.55		29005	11/15/1976	1976.86	1393.47
29002	8/22/2006	2006.64	1379.21		29005	12/17/1976	1976.95	1393.33
29002	9/12/2006	2006.69	1379.05		29005	1/15/1977	1977.04	1393.13
29002	10/16/2006	2006.78	1379		29005	2/16/1977	1977.13	1392.87
29002	11/15/2006	2006.86	1378.92		29005	3/18/1977	1977.21	1392.83
29002	12/15/2006	2006.95	1378.85		29005	4/15/1977	1977.29	1392.66
29002	2/16/2007	2007.13	1378.64		29005	5/19/1977	1977.38	1392.53
29002	3/14/2007	2007.20	1378.58		29005	6/18/1977	1977.46	1392.76
29002	4/6/2007	2007.26	1378.85		29005	7/19/1977	1977.55	1392.36
29002	5/14/2007	2007.37	1379.1		29005	8/18/1977	1977.62	1392.21
29002	6/8/2007	2007.43	1379.14		29005	9/14/1977	1977.70	1392.11
29002	7/12/2007	2007.53	1378.86		29005	10/19/1977	1977.79	1392.26
29002	8/9/2007	2007.60	1378.69		29005	11/19/1977	1977.87	1392.34
29002	9/7/2007	2007.68	1378.55		29005	12/17/1977	1977.95	1392.37
29002	10/15/2007	2007.78	1378.6		29005	1/14/1978	1978.04	1392.27
29002	12/12/2007	2007.94	1378.64		29005	2/13/1978	1978.12	1392.37
29002	3/12/2008	2008.20	1378.42		29005	3/17/1978	1978.21	1392.32
29002	4/16/2008	2008.29	1378.5		29005	4/16/1978	1978.29	1392.52
29002	5/15/2008	2008.37	1378.92		29005	6/17/1978	1978.46	1392.57
29002	6/9/2008	2008.44	1379.08		29005	7/15/1978	1978.53	1393.14
29002	7/11/2008	2008.52	1379.23		29005	8/20/1978	1978.63	1392.93
29002	8/4/2008	2008.59	1379.14		29005	9/16/1978	1978.70	1392.93
29002	9/2/2008	2008.66	1378.9		29005	10/16/1978	1978.78	1392.92
29002	10/2/2008	2008.75	1378.82		29005	11/18/1978	1978.87	1392.89
29002	11/10/2008	2008.85	1379.18		29005	12/21/1978	1978.96	1392.87
29002	12/2/2008	2008.91	1379.3		29005	1/20/1979	1979.05	1392.83
29005	10/17/1974	1974.79	1394.8		29005	2/17/1979	1979.13	1392.66
29005	11/16/1974	1974.87	1394.7		29005	3/25/1979	1979.23	1392.48
29005	12/14/1974	1974.94	1394.57		29005	4/20/1979	1979.30	1392.66
29005	1/18/1975	1975.05	1394.66		29005	5/25/1979	1979.40	1393.34
29005	2/14/1975	1975.12	1394.31		29005	6/16/1979	1979.45	1393.56
29005	3/14/1975	1975.20	1394.2		29005	7/21/1979	1979.55	1393.26
29005	4/12/1975	1975.28	1394.03		29005	10/17/1979	1979.79	1393.76
29005	5/16/1975	1975.37	1394.83		29005	11/17/1979	1979.87	1393.59
29005	6/13/1975	1975.45	1394.73		29005	12/15/1979	1979.95	1393.53
29005	7/16/1975	1975.54	1394.8		29005	2/16/1980	1980.13	1393.59
29005	8/15/1975	1975.62	1395.02		29005	5/17/1980	1980.38	1393.5
29005	9/15/1975	1975.70	1395.21		29005	6/18/1980	1980.46	1393.5
29005	10/15/1975	1975.78	1395.35		29005	7/19/1980	1980.55	1393.18
29005	11/16/1975	1975.87	1394.98		29005	8/16/1980	1980.62	1393.18

Peysenske Lake Water Level Evaluation

Ground Water Data								
Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)		Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)
29005	9/13/1980	1980.69	1393.16		29005	11/17/1986	1986.87	1395.9
29005	7/16/1982	1982.54	1393.86		29005	12/15/1986	1986.95	1395.82
29005	8/15/1982	1982.62	1394.46		29005	3/16/1987	1987.21	1395.42
29005	9/17/1982	1982.70	1393.86		29005	4/14/1987	1987.28	1395.33
29005	10/17/1982	1982.79	1393.68		29005	5/15/1987	1987.37	1395.2
29005	11/14/1982	1982.86	1393.58		29005	6/17/1987	1987.46	1395
29005	12/17/1982	1982.95	1393.64		29005	7/15/1987	1987.53	1394.89
29005	1/14/1983	1983.04	1393.46		29005	8/17/1987	1987.62	1394.7
29005	2/16/1983	1983.13	1393.45		29005	9/15/1987	1987.70	1394.6
29005	3/15/1983	1983.21	1393.38		29005	10/13/1987	1987.78	1394.58
29005	4/15/1983	1983.29	1393.36		29005	11/12/1987	1987.85	1394.52
29005	5/18/1983	1983.38	1393.31		29005	12/14/1987	1987.94	1394.39
29005	6/16/1983	1983.45	1393.23		29005	3/16/1988	1988.21	1394.06
29005	7/15/1983	1983.53	1393.2		29005	4/19/1988	1988.30	1394.31
29005	10/14/1983	1983.78	1393.67		29005	5/16/1988	1988.37	1394.23
29005	11/15/1983	1983.86	1393.58		29005	6/14/1988	1988.45	1394.08
29005	12/16/1983	1983.95	1393.46		29005	6/30/1988	1988.49	1398.02
29005	1/13/1984	1984.04	1393.36		29005	7/5/1988	1988.51	1393.99
29005	2/17/1984	1984.13	1393.26		29005	7/12/1988	1988.53	1393.96
29005	3/16/1984	1984.21	1393.17		29005	7/15/1988	1988.53	1393.94
29005	4/16/1984	1984.29	1393.31		29005	7/19/1988	1988.55	1393.9
29005	5/17/1984	1984.38	1393.34		29005	7/26/1988	1988.56	1393.86
29005	6/19/1984	1984.46	1393.21		29005	8/4/1988	1988.59	1393.8
29005	7/17/1984	1984.54	1392.49		29005	8/8/1988	1988.60	1393.7
29005	8/15/1984	1984.62	1393.15		29005	8/17/1988	1988.62	1393.69
29005	9/17/1984	1984.70	1393.1		29005	8/24/1988	1988.64	1393.66
29005	10/18/1984	1984.79	1393.04		29005	8/31/1988	1988.66	1393.61
29005	11/14/1984	1984.86	1392.99		29005	9/6/1988	1988.67	1393.54
29005	12/14/1984	1984.94	1393.01		29005	9/13/1988	1988.69	1393.52
29005	1/14/1985	1985.04	1392.96		29005	9/21/1988	1988.72	1393.5
29005	2/15/1985	1985.12	1392.88		29005	9/30/1988	1988.74	1393.42
29005	3/18/1985	1985.21	1392.88		29005	10/18/1988	1988.79	1393.34
29005	4/15/1985	1985.29	1393.09		29005	11/14/1988	1988.86	1393.24
29005	5/14/1985	1985.37	1393.27		29005	12/16/1988	1988.95	1393.12
29005	6/17/1985	1985.46	1393.44		29005	1/17/1989	1989.05	1393
29005	7/15/1985	1985.53	1393.66		29005	2/16/1989	1989.13	1392.81
29005	8/13/1985	1985.61	1394.6		29005	3/15/1989	1989.21	1392.76
29005	9/13/1985	1985.69	1395.66		29005	4/12/1989	1989.28	1392.73
29005	10/17/1985	1985.79	1396.23		29005	5/2/1989	1989.33	1393
29005	11/14/1985	1985.86	1396.43		29005	5/16/1989	1989.37	1393.09
29005	12/16/1985	1985.95	1396.44		29005	5/30/1989	1989.41	1393.15
29005	1/15/1986	1986.04	1396.32		29005	6/13/1989	1989.45	1393.14
29005	2/18/1986	1986.13	1396.13		29005	7/14/1989	1989.53	1393.02
29005	3/14/1986	1986.20	1395.99		29005	8/15/1989	1989.62	1392.81
29005	4/15/1986	1986.29	1396.07		29005	9/1/1989	1989.66	1392.71
29005	5/15/1986	1986.37	1396.17		29005	9/15/1989	1989.70	1392.66
29005	6/17/1986	1986.46	1396.28		29005	10/16/1989	1989.78	1392.67
29005	7/14/1986	1986.53	1397.39		29005	11/15/1989	1989.86	1392.75
29005	8/15/1986	1986.62	1396.14		29005	12/14/1989	1989.94	1392.77
29005	9/15/1986	1986.70	1395.97		29005	3/16/1990	1990.21	1392.61
29005	10/16/1986	1986.78	1395.75		29005	4/17/1990	1990.29	1392.92

Peysenske Lake Water Level Evaluation

Ground Water Data								
Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)		Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)
29005	5/14/1990	1990.37	1392.98		29005	7/14/1995	1995.53	1393.45
29005	6/14/1990	1990.45	1392.93		29005	9/19/1995	1995.71	1393.36
29005	7/16/1990	1990.54	1392.77		29005	10/16/1995	1995.78	1393.51
29005	8/15/1990	1990.62	1392.58		29005	11/17/1995	1995.87	1393.58
29005	9/17/1990	1990.70	1392.43		29005	12/14/1995	1995.94	1393.6
29005	10/15/1990	1990.78	1392.32		29005	3/14/1996	1996.20	1393.59
29005	11/15/1990	1990.86	1392.23		29005	4/15/1996	1996.29	1393.6
29005	12/14/1990	1990.94	1392.16		29005	5/16/1996	1996.37	1394.07
29005	3/15/1991	1991.21	1391.83		29005	6/17/1996	1996.46	1394.34
29005	4/16/1991	1991.29	1391.97		29005	7/15/1996	1996.53	1394.25
29005	5/13/1991	1991.36	1391.77		29005	8/14/1996	1996.61	1394.04
29005	6/14/1991	1991.45	1391.83		29005	9/16/1996	1996.70	1393.85
29005	7/18/1991	1991.54	1391.84		29005	10/15/1996	1996.78	1393.78
29005	8/14/1991	1991.61	1391.72		29005	11/18/1996	1996.87	1394.22
29005	9/16/1991	1991.70	1391.67		29005	12/16/1996	1996.95	1393.85
29005	10/15/1991	1991.78	1391.66		29005	3/12/1997	1997.20	1393.72
29005	11/19/1991	1991.87	1391.85		29005	4/17/1997	1997.29	1394.13
29005	12/16/1991	1991.95	1391.59		29005	5/14/1997	1997.37	1394.68
29005	3/17/1992	1992.21	1391.48		29005	6/16/1997	1997.45	1394.85
29005	4/17/1992	1992.29	1391.63		29005	7/15/1997	1997.53	1394.97
29005	5/13/1992	1992.36	1391.6		29005	8/15/1997	1997.62	1395.56
29005	6/16/1992	1992.45	1391.39		29005	9/15/1997	1997.70	1395.76
29005	7/14/1992	1992.53	1391.34		29005	10/14/1997	1997.78	1395.71
29005	8/17/1992	1992.62	1391.23		29005	11/14/1997	1997.86	1395.76
29005	9/14/1992	1992.70	1391.25		29005	12/16/1997	1997.95	1395.67
29005	10/19/1992	1992.79	1391.38		29005	3/16/1998	1998.21	1395.18
29005	12/15/1992	1992.95	1391.33		29005	4/15/1998	1998.29	1395.12
29005	3/15/1993	1993.21	1391.21		29005	5/13/1998	1998.36	1395.03
29005	4/15/1993	1993.29	1391.3		29005	6/16/1998	1998.45	1394.85
29005	5/18/1993	1993.38	1391.34		29005	7/16/1998	1998.54	1394.76
29005	6/15/1993	1993.45	1391.56		29005	8/17/1998	1998.62	1394.67
29005	7/16/1993	1993.54	1391.82		29005	9/16/1998	1998.70	1394.61
29005	8/16/1993	1993.62	1392.09		29005	10/16/1998	1998.78	1394.59
29005	9/16/1993	1993.70	1392.32		29005	11/20/1998	1998.88	1395.04
29005	10/14/1993	1993.78	1392.48		29005	12/14/1998	1998.94	1394.96
29005	11/16/1993	1993.87	1392.64		29005	3/15/1999	1999.21	1395.05
29005	12/16/1993	1993.95	1392.67		29005	4/16/1999	1999.29	1395.23
29005	3/16/1994	1994.21	1392.48		29005	5/17/1999	1999.38	1395.49
29005	4/18/1994	1994.30	1392.75		29005	6/15/1999	1999.45	1395.82
29005	5/17/1994	1994.38	1392.96		29005	7/20/1999	1999.55	1396.17
29005	6/16/1994	1994.45	1393.06		29005	8/17/1999	1999.62	1396.22
29005	7/15/1994	1994.53	1393.11		29005	9/14/1999	1999.70	1396.35
29005	8/15/1994	1994.62	1392.31		29005	10/19/1999	1999.79	1396.44
29005	9/12/1994	1994.69	1393.46		29005	11/15/1999	1999.86	1396.38
29005	10/17/1994	1994.79	1393.58		29005	12/13/1999	1999.94	1396.27
29005	11/15/1994	1994.86	1393.56		29005	3/17/2000	2000.21	1395.77
29005	12/19/1994	1994.96	1393.6		29005	4/14/2000	2000.28	1395.6
29005	3/16/1995	1995.21	1393.38		29005	5/11/2000	2000.36	1395.43
29005	4/13/1995	1995.28	1393.65		29005	6/15/2000	2000.45	1395.26
29005	5/16/1995	1995.37	1393.71		29005	7/13/2000	2000.53	1394.94
29005	6/14/1995	1995.45	1393.69		29005	8/15/2000	2000.62	1394.78

Peysenske Lake Water Level Evaluation

Ground Water Data								
Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)		Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)
29005	9/15/2000	2000.70	1394.44		29005	12/19/2005	2005.96	1392.53
29005	10/16/2000	2000.78	1394.35		29005	3/16/2006	2006.21	1392.64
29005	11/14/2000	2000.86	1394.58		29005	4/14/2006	2006.28	1392.73
29005	12/14/2000	2000.94	1394.16		29005	5/12/2006	2006.36	1392.99
29005	3/15/2001	2001.21	1393.91		29005	6/14/2006	2006.45	1393.16
29005	4/20/2001	2001.30	1394.01		29005	7/13/2006	2006.53	1393.09
29005	5/16/2001	2001.37	1394.37		29005	8/22/2006	2006.64	1392.84
29005	6/14/2001	2001.45	1394.66		29005	9/12/2006	2006.69	1392.68
29005	7/17/2001	2001.54	1394.87		29005	10/16/2006	2006.78	1392.53
29005	8/14/2001	2001.61	1394.77		29005	11/15/2006	2006.86	1392.56
29005	9/17/2001	2001.70	1394.54		29005	12/15/2006	2006.95	1392.79
29005	10/12/2001	2001.77	1394.48		29005	1/18/2007	2007.05	1392.41
29005	11/14/2001	2001.86	1394.39		29005	2/16/2007	2007.13	1392.27
29005	12/17/2001	2001.95	1394.32		29005	3/14/2007	2007.20	1392.23
29005	3/14/2002	2002.20	1393.96		29005	4/6/2007	2007.26	1392.33
29005	4/15/2002	2002.29	1393.82		29005	5/14/2007	2007.37	1392.47
29005	5/16/2002	2002.37	1393.67		29005	6/8/2007	2007.43	1392.46
29005	6/12/2002	2002.44	1393.6		29005	7/12/2007	2007.53	1392.28
29005	7/16/2002	2002.54	1393.47		29005	8/9/2007	2007.60	1392.08
29005	8/16/2002	2002.62	1393.31		29005	9/7/2007	2007.68	1391.92
29005	9/13/2002	2002.69	1393.2		29005	10/15/2007	2007.78	1391.7
29005	10/15/2002	2002.78	1393.18		29005	12/12/2007	2007.94	1391.98
29005	11/14/2002	2002.86	1393.16		29005	3/12/2008	2008.20	1391.91
29005	12/19/2002	2002.96	1393.12		29005	4/16/2008	2008.29	1391.82
29005	3/12/2003	2003.20	1392.84		29005	5/15/2008	2008.37	1391.91
29005	4/8/2003	2003.27	1392.78		29005	6/10/2008	2008.44	1392.09
29005	5/15/2003	2003.37	1392.64		29005	7/11/2008	2008.52	1392.1
29005	6/16/2003	2003.45	1392.55		29005	8/4/2008	2008.59	1392.03
29005	7/14/2003	2003.53	1392.47		29005	9/2/2008	2008.66	1391.84
29005	8/14/2003	2003.61	1392.25		29005	10/2/2008	2008.75	1391.84
29005	9/17/2003	2003.70	1389.94		29005	11/10/2008	2008.85	1392.06
29005	10/15/2003	2003.78	1391.87		29005	12/2/2008	2008.91	1392.22
29005	11/13/2003	2003.86	1391.77		29007	10/18/1974	1974.79	1383.14
29005	12/15/2003	2003.95	1391.59		29007	11/16/1974	1974.87	1383.11
29005	3/15/2004	2004.21	1391.47		29007	12/14/1974	1974.94	1382.62
29005	5/13/2004	2004.36	1391.64		29007	2/14/1975	1975.12	1382.25
29005	6/15/2004	2004.45	1391.59		29007	5/16/1975	1975.37	1382.74
29005	7/16/2004	2004.54	1391.18		29007	6/13/1975	1975.45	1383.17
29005	8/12/2004	2004.61	1391.05		29007	7/16/1975	1975.54	1383.84
29005	9/16/2004	2004.70	1390.81		29007	8/15/1975	1975.62	1384.39
29005	10/14/2004	2004.78	1391.21		29007	9/15/1975	1975.70	1384.22
29005	11/15/2004	2004.86	1391.38		29007	10/15/1975	1975.78	1383.87
29005	12/14/2004	2004.94	1391.49		29007	11/14/1975	1975.86	1383.58
29005	3/14/2005	2005.20	1391.68		29007	12/15/1975	1975.95	1383.25
29005	4/12/2005	2005.28	1391.73		29007	4/17/1976	1976.29	1382.32
29005	5/16/2005	2005.37	1391.96		29007	5/14/1976	1976.37	1382.14
29005	6/13/2005	2005.45	1392		29007	6/15/1976	1976.45	1381.48
29005	7/13/2005	2005.53	1392.16		29007	7/18/1976	1976.54	1380.3
29005	8/15/2005	2005.62	1392.22		29007	8/13/1976	1976.61	1379.24
29005	9/15/2005	2005.70	1392.26		29007	9/15/1976	1976.70	1379.8
29005	10/14/2005	2005.78	1392.32		29007	10/16/1976	1976.78	1380.15

Peysenske Lake Water Level Evaluation

Ground Water Data							
Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)		Well Number	Date Read	Ground Water Elevation (ft)
29007	11/15/1976	1976.86	1380.2		29007	8/15/1982	1383.92
29007	3/18/1977	1977.21	1380.17		29007	9/17/1982	1383.6
29007	4/15/1977	1977.29	1380.2		29007	10/17/1982	1383.28
29007	5/18/1977	1977.38	1380.26		29007	11/14/1982	1383.13
29007	6/18/1977	1977.46	1380.54		29007	12/21/1982	1383.1
29007	7/19/1977	1977.55	1378.76		29007	1/14/1983	1383.24
29007	8/18/1977	1977.62	1378.91		29007	2/16/1983	1382.74
29007	9/14/1977	1977.70	1380.02		29007	3/15/1983	1382.55
29007	10/17/1977	1977.79	1380.74		29007	4/15/1983	1382.4
29007	4/16/1978	1978.29	1382.58		29007	5/18/1983	1382.18
29007	6/17/1978	1978.46	1383.1		29007	6/16/1983	1382
29007	7/15/1978	1978.53	1383.06		29007	7/15/1983	1381.86
29007	8/20/1978	1978.63	1381.3		29007	10/14/1983	1382.7
29007	9/16/1978	1978.70	1382.56		29007	11/14/1983	1382.8
29007	10/16/1978	1978.78	1382.83		29007	12/16/1983	1382.62
29007	11/18/1978	1978.87	1382.68		29007	1/13/1984	1382.44
29007	12/21/1978	1978.96	1382.4		29007	2/17/1984	1382.26
29007	1/20/1979	1979.05	1382.6		29007	3/16/1984	1382.22
29007	2/17/1979	1979.13	1382.49		29007	4/16/1984	1383.2
29007	3/25/1979	1979.23	1382.3		29007	5/17/1984	1383.11
29007	4/20/1979	1979.30	1382.6		29007	6/19/1984	1383.02
29007	5/25/1979	1979.40	1383.3		29007	7/16/1984	1380.96
29007	6/16/1979	1979.45	1383.07		29007	8/15/1984	1382.6
29007	7/21/1979	1979.55	1382.8		29007	9/17/1984	1381.88
29007	10/17/1979	1979.79	1383.6		29007	10/18/1984	1381.92
29007	11/17/1979	1979.87	1383.87		29007	11/14/1984	1382.1
29007	12/15/1979	1979.95	1383.46		29007	12/14/1984	1382.18
29007	5/17/1980	1980.38	1382.2		29007	1/14/1985	1382.28
29007	6/18/1980	1980.46	1382.35		29007	2/15/1985	1382.2
29007	7/19/1980	1980.55	1381.15		29007	3/18/1985	1382.07
29007	8/16/1980	1980.62	1381.3		29007	4/15/1985	1382.25
29007	9/13/1980	1980.69	1381.1		29007	5/14/1985	1382.3
29007	10/16/1980	1980.78	1380.65		29007	6/17/1985	1382.92
29007	12/14/1980	1980.94	1381.12		29007	7/15/1985	1382.69
29007	1/17/1981	1981.05	1380.99		29007	8/13/1985	1386.71
29007	2/16/1981	1981.13	1380.9		29007	9/13/1985	1386.44
29007	3/16/1981	1981.21	1380.78		29007	10/17/1985	1386.65
29007	4/15/1981	1981.29	1379.98		29007	11/14/1985	1386.36
29007	5/17/1981	1981.38	1380.6		29007	12/16/1985	1386.59
29007	6/14/1981	1981.45	1380.68		29007	1/15/1986	1385.5
29007	7/12/1981	1981.53	1381		29007	2/18/1986	1385.05
29007	8/15/1981	1981.62	1379.9		29007	3/14/1986	1384.71
29007	9/12/1981	1981.69	1381.27		29007	4/15/1986	1384.73
29007	10/17/1981	1981.79	1382.19		29007	5/15/1986	1384.62
29007	11/14/1981	1981.86	1382.46		29007	6/17/1986	1384.72
29007	12/20/1981	1981.96	1382.61		29007	7/14/1986	1384.01
29007	1/18/1982	1982.05	1382.9		29007	8/15/1986	1384.08
29007	4/17/1982	1982.29	1383.81		29007	9/15/1986	1384.36
29007	5/15/1982	1982.37	1383.55		29007	10/16/1986	1384.72
29007	6/12/1982	1982.44	1384.35		29007	11/17/1986	1385.01
29007	7/16/1982	1982.54	1384.6		29007	12/15/1986	1384.8

Peysenske Lake Water Level Evaluation

Ground Water Data								
Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)		Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)
29007	3/16/1987	1987.21	1383.79		29007	12/16/1991	1991.95	1381.29
29007	4/14/1987	1987.28	1383.52		29007	3/17/1992	1992.21	1381.29
29007	5/15/1987	1987.37	1383.22		29007	4/17/1992	1992.29	1381.3
29007	6/17/1987	1987.46	1382.94		29007	5/13/1992	1992.36	1381.26
29007	7/15/1987	1987.53	1381.72		29007	6/16/1992	1992.45	1381.05
29007	8/17/1987	1987.62	1381.38		29007	7/14/1992	1992.53	1380.91
29007	9/15/1987	1987.70	1382.05		29007	8/14/1992	1992.61	1380.62
29007	10/13/1987	1987.78	1382.39		29007	9/14/1992	1992.70	1380.68
29007	11/12/1987	1987.85	1382.58		29007	10/19/1992	1992.79	1381.1
29007	12/14/1987	1987.94	1382.51		29007	11/16/1992	1992.87	1381.4
29007	3/16/1988	1988.21	1382.26		29007	12/15/1992	1992.95	1381.59
29007	4/19/1988	1988.30	1382.4		29007	3/15/1993	1993.21	1381.65
29007	5/16/1988	1988.37	1382.08		29007	4/15/1993	1993.29	1381.61
29007	6/14/1988	1988.45	1379.86		29007	5/18/1993	1993.38	1381.6
29007	7/15/1988	1988.53	1378.72		29007	6/16/1993	1993.45	1381.82
29007	8/17/1988	1988.62	1379.62		29007	7/16/1993	1993.54	1382.21
29007	9/13/1988	1988.69	1380		29007	8/16/1993	1993.62	1382.65
29007	10/18/1988	1988.79	1380.55		29007	9/16/1993	1993.70	1382.97
29007	11/14/1988	1988.86	1380.82		29007	10/14/1993	1993.78	1383.23
29007	12/16/1988	1988.95	1380.88		29007	11/16/1993	1993.87	1383.43
29007	1/17/1989	1989.05	1381.02		29007	12/16/1993	1993.95	1383.47
29007	2/16/1989	1989.13	1381.01		29007	3/16/1994	1994.21	1383.37
29007	3/15/1989	1989.21	1380.96		29007	4/18/1994	1994.30	1383.18
29007	4/12/1989	1989.28	1381.32		29007	5/17/1994	1994.38	1383.13
29007	5/16/1989	1989.37	1381.72		29007	6/16/1994	1994.45	1383.05
29007	6/13/1989	1989.45	1381.8		29007	7/15/1994	1994.53	1382.96
29007	7/14/1989	1989.53	1380.36		29007	8/15/1994	1994.62	1383.04
29007	8/15/1989	1989.62	1378.99		29007	9/12/1994	1994.69	1382.7
29007	9/15/1989	1989.70	1380.13		29007	10/17/1994	1994.79	1382.69
29007	10/16/1989	1989.78	1381.2		29007	11/15/1994	1994.86	1382.71
29007	11/15/1989	1989.86	1381.67		29007	12/19/1994	1994.96	1382.76
29007	12/14/1989	1989.94	1381.9		29007	3/16/1995	1995.21	1382.4
29007	3/16/1990	1990.21	1381.85		29007	4/13/1995	1995.28	1382.42
29007	4/17/1990	1990.29	1381.96		29007	5/16/1995	1995.37	1382.46
29007	5/15/1990	1990.37	1381.95		29007	6/14/1995	1995.45	1382.61
29007	6/14/1990	1990.45	1381.89		29007	7/14/1995	1995.53	1382.43
29007	7/16/1990	1990.54	1381.26		29007	8/15/1995	1995.62	1382.23
29007	8/15/1990	1990.62	1380.05		29007	9/18/1995	1995.71	1381.96
29007	9/17/1990	1990.70	1379.84		29007	10/16/1995	1995.78	1382.08
29007	10/15/1990	1990.78	1380.16		29007	11/17/1995	1995.87	1382.17
29007	11/15/1990	1990.86	1380.44		29007	12/14/1995	1995.94	1382.31
29007	12/14/1990	1990.94	1380.58		29007	3/14/1996	1996.20	1382.6
29007	3/15/1991	1991.21	1380.88		29007	4/15/1996	1996.29	1382.6
29007	4/16/1991	1991.29	1380.69		29007	5/16/1996	1996.37	1382.75
29007	5/13/1991	1991.36	1380.74		29007	6/17/1996	1996.46	1382.97
29007	6/14/1991	1991.45	1380.88		29007	7/15/1996	1996.53	1383.1
29007	7/18/1991	1991.54	1380.93		29007	8/14/1996	1996.61	1383.03
29007	8/14/1991	1991.61	1380.66		29007	9/17/1996	1996.70	1382.93
29007	9/16/1991	1991.70	1380.53		29007	10/15/1996	1996.78	1382.89
29007	10/15/1991	1991.78	1380.86		29007	11/18/1996	1996.87	1382.88
29007	11/19/1991	1991.87	1381.19		29007	12/16/1996	1996.95	1382.92

Peysenske Lake Water Level Evaluation

Ground Water Data								
Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)		Well Number	Date Read	Decimal Date Read	Ground Water Elevation (ft)
29007	3/12/1997	1997.20	1383.01		29007	4/15/2002	2002.29	1381.97
29007	4/17/1997	1997.29	1383.07		29007	5/16/2002	2002.37	1381.9
29007	5/14/1997	1997.37	1383.41		29007	6/12/2002	2002.44	1381.75
29007	6/16/1997	1997.45	1383.72		29007	7/16/2002	2002.54	1380.22
29007	7/15/1997	1997.53	1383.91		29007	8/16/2002	2002.62	1380.05
29007	8/15/1997	1997.62	1384.01		29007	9/13/2002	2002.69	1380.15
29007	9/15/1997	1997.70	1384.21		29007	10/15/2002	2002.78	1380.52
29007	10/14/1997	1997.78	1384.35		29007	11/14/2002	2002.86	1380.98
29007	11/14/1997	1997.86	1384.37		29007	12/19/2002	2002.96	1381.35
29007	12/16/1997	1997.95	1384.3		29007	3/13/2003	2003.20	1381.64
29007	3/16/1998	1998.21	1383.75		29007	4/8/2003	2003.27	1381.64
29007	4/15/1998	1998.29	1383.41		29007	5/15/2003	2003.37	1381.6
29007	5/13/1998	1998.36	1383.14		29007	6/16/2003	2003.45	1381.45
29007	6/16/1998	1998.45	1382.9		29007	7/14/2003	2003.53	1381.05
29007	7/16/1998	1998.54	1382.6		29007	8/13/2003	2003.61	1380.21
29007	8/17/1998	1998.62	1381.82		29007	9/16/2003	2003.70	1379.71
29007	9/16/1998	1998.70	1381.9		29007	10/15/2003	2003.78	1380.4
29007	10/16/1998	1998.78	1382.15		29007	11/13/2003	2003.86	1380.74
29007	11/20/1998	1998.88	1382.6		29007	12/15/2003	2003.95	1380.91
29007	12/14/1998	1998.94	1383.03		29007	3/15/2004	2004.21	1380.9
29007	3/15/1999	1999.21	1383.8		29007	5/13/2004	2004.36	1381.19
29007	4/16/1999	1999.29	1383.71		29007	6/15/2004	2004.45	1380.93
29007	5/17/1999	1999.38	1384.08		29007	7/16/2004	2004.54	1380.12
29007	6/15/1999	1999.45	1384.88		29007	8/13/2004	2004.61	1378.74
29007	7/20/1999	1999.55	1385.55		29007	9/16/2004	2004.70	1378.78
29007	8/17/1999	1999.62	1385.19		29007	10/14/2004	2004.78	1379.9
29007	9/14/1999	1999.70	1385.1		29007	11/15/2004	2004.86	1381.5
29007	10/19/1999	1999.79	1385.14		29007	12/14/2004	2004.94	1382.63
29007	11/15/1999	1999.86	1385.12		29007	3/14/2005	2005.20	1382.57
29007	12/13/1999	1999.94	1385.03		29007	4/12/2005	2005.28	1382.47
29007	3/16/2000	2000.21	1383.87		29007	5/16/2005	2005.37	1382.44
29007	4/14/2000	2000.28	1383.61		29007	6/14/2005	2005.45	1382.57
29007	5/10/2000	2000.36	1383.4		29007	7/13/2005	2005.53	1382.7
29007	6/15/2000	2000.45	1382.4		29007	8/15/2005	2005.62	1382.46
29007	7/13/2000	2000.53	1381.08		29007	9/15/2005	2005.70	1382.6
29007	8/15/2000	2000.62	1380.2		29007	10/14/2005	2005.78	1382.88
29007	9/15/2000	2000.70	1380.62		29007	11/14/2005	2005.86	1383
29007	10/16/2000	2000.78	1381.16		29007	12/19/2005	2005.96	1383.02
29007	11/14/2000	2000.86	1381.51		29007	3/16/2006	2006.21	1382.65
29007	12/14/2000	2000.94	1381.75		29007	4/14/2006	2006.28	1382.93
29007	3/15/2001	2001.21	1382.29		29007	5/12/2006	2006.36	1383.08
29007	4/20/2001	2001.30	1382.56		29007	6/14/2006	2006.45	1382.87
29007	5/16/2001	2001.37	1382.95		29007	7/13/2006	2006.53	1381.68
29007	6/14/2001	2001.45	1383.49		29007	8/22/2006	2006.64	1380.62
29007	7/17/2001	2001.54	1382.11		29007	9/12/2006	2006.69	1381.29
29007	8/14/2001	2001.61	1381.76		29007	10/16/2006	2006.78	1381.72
29007	9/17/2001	2001.70	1381.53		29007	11/15/2006	2006.86	1381.83
29007	10/12/2001	2001.77	1381.66		29007	12/15/2006	2006.95	1382.01
29007	11/14/2001	2001.86	1381.91		29007	1/18/2007	2007.05	1381.68
29007	12/17/2001	2001.95	1382.07		29007	2/16/2007	2007.13	1381.55
29007	3/14/2002	2002.20	1382.09		29007	3/14/2007	2007.20	1381.46

Peysenske Lake Water Level Evaluation

Lake Level Data							
Lake	Date Read	Dec date Read	Surface Water Elevation (ft)	Lake	Date Read	Dec date Read	Surface Water Elevation (ft)
Peysenske East bay	9/21/2005	2005.71507	1406.89	Big Stony Lake	7/30/1994	1994.57534	1389.69
Peysenske East bay	10/18/2005	2005.78904	1406.47	Big Stony Lake	8/8/1994	1994.59726	1389.63
Peysenske East bay	10/18/2005	2005.78904	1406.47	Big Stony Lake	8/19/1994	1994.6274	1389.57
Peysenske East bay	3/22/2006	2006.22466	1406.5	Big Stony Lake	8/25/1994	1994.64384	1389.55
Peysenske East bay	5/3/2006	2006.33699	1406.58	Big Stony Lake	9/3/1994	1994.66575	1389.49
Peysenske East bay	5/5/2006	2006.34247	1406.52	Big Stony Lake	9/10/1994	1994.68493	1389.51
Peysenske East bay	5/10/2006	2006.35616	1406.59	Big Stony Lake	9/17/1994	1994.70411	1389.63
Peysenske East bay	5/26/2006	2006.4	1406.44	Big Stony Lake	10/1/1994	1994.74247	1389.55
Peysenske East bay	6/7/2006	2006.43014	1406.83	Big Stony Lake	5/5/1995	1995.34247	1389.79
Peysenske East bay	6/28/2006	2006.48767	1406.5	Big Stony Lake	5/10/1995	1995.35616	1389.83
Peysenske East bay	11/6/2006	2006.83836	1406.49	Big Stony Lake	5/11/1995	1995.3589	1389.83
Peysenske East bay	4/25/2007	2007.31507	1406.48	Big Stony Lake	5/14/1995	1995.36712	1389.87
Peysenske East bay	6/8/2007	2007.43288	1406.51	Big Stony Lake	5/24/1995	1995.39452	1389.77
Peysenske East bay	5/6/2008	2008.34521	1406.35	Big Stony Lake	6/2/1995	1995.41644	1389.73
Peysenske East bay	5/21/2008	2008.3863	1406.34	Big Stony Lake	6/14/1995	1995.44932	1389.69
Peysenske East bay	2/10/2009	2009.10959	1406.4	Big Stony Lake	6/19/1995	1995.46301	1389.65
Peysenske Main Bay	9/21/2005	2005.71507	1404.59	Big Stony Lake	6/20/1995	1995.46575	1389.61
Peysenske Main Bay	10/18/2005	2005.78904	1404.71	Big Stony Lake	7/1/1995	1995.49589	1389.45
Peysenske Main Bay	10/19/2005	2005.79178	1404.71	Big Stony Lake	7/3/1995	1995.50137	1389.65
Peysenske Main Bay	10/19/2005	2005.79178	1404.71	Big Stony Lake	7/11/1995	1995.52329	1389.67
Peysenske Main Bay	2/10/2006	2006.10959	1405.29	Big Stony Lake	7/17/1995	1995.53973	1389.75
Peysenske Main Bay	3/22/2006	2006.22466	1405.31	Big Stony Lake	7/23/1995	1995.55616	1389.69
Peysenske Main Bay	4/7/2006	2006.26575	1405.54	Big Stony Lake	7/28/1995	1995.56986	1389.63
Peysenske Main Bay	5/3/2006	2006.33699	1405.49	Big Stony Lake	8/1/1995	1995.57808	1389.55
Peysenske Main Bay	5/5/2006	2006.34247	1405.49	Big Stony Lake	8/9/1995	1995.6	1389.49
Peysenske Main Bay	5/10/2006	2006.35616	1405.55	Big Stony Lake	8/17/1995	1995.62192	1389.37
Peysenske Main Bay	5/26/2006	2006.4	1405.54	Big Stony Lake	9/14/1995	1995.69589	1389.37
Peysenske Main Bay	5/26/2006	2006.4	1405.42	Big Stony Lake	9/19/1995	1995.70959	1389.47
Peysenske Main Bay	6/7/2006	2006.43014	1405.47	Big Stony Lake	9/25/1995	1995.72603	1389.33
Peysenske Main Bay	6/28/2006	2006.48767	1405.34	Big Stony Lake	10/1/1995	1995.74247	1389.49
Peysenske Main Bay	11/6/2006	2006.83836	1404.64	Big Stony Lake	10/6/1995	1995.75616	1389.55
Peysenske Main Bay	4/25/2007	2007.31507	1405.14	Big Stony Lake	10/9/1995	1995.76438	1389.59
Peysenske Main Bay	6/8/2007	2007.43288	1404.94	Big Stony Lake	5/23/1996	1996.39178	1390.01
Peysenske Main Bay	5/6/2008	2008.34521	1404.58	Big Stony Lake	5/28/1996	1996.40548	1390.01
Peysenske Main Bay	5/21/2008	2008.3863	1404.34	Big Stony Lake	6/10/1996	1996.43836	1390.05
Peysenske Main Bay	7/21/2008	2008.55068	1404.21	Big Stony Lake	6/18/1996	1996.46027	1390.01
Peysenske Main Bay	2/10/2009	2009.10959	1404.34	Big Stony Lake	6/24/1996	1996.47671	1389.99
Big Stony Lake	5/6/1994	1994.34521	1389.31	Big Stony Lake	7/1/1996	1996.49589	1389.95
Big Stony Lake	5/7/1994	1994.34795	1389.31	Big Stony Lake	7/10/1996	1996.52055	1389.85
Big Stony Lake	5/14/1994	1994.36712	1389.33	Big Stony Lake	7/19/1996	1996.54521	1389.79
Big Stony Lake	5/21/1994	1994.3863	1389.27	Big Stony Lake	7/23/1996	1996.55616	1389.71
Big Stony Lake	5/28/1994	1994.40548	1389.29	Big Stony Lake	8/5/1996	1996.58904	1389.77
Big Stony Lake	6/4/1994	1994.42192	1389.21	Big Stony Lake	8/24/1996	1996.6411	1389.61
Big Stony Lake	6/11/1994	1994.4411	1389.19	Big Stony Lake	8/28/1996	1996.65205	1389.57
Big Stony Lake	6/17/1994	1994.45753	1389.39	Big Stony Lake	9/3/1996	1996.66575	1389.63
Big Stony Lake	6/21/1994	1994.46849	1389.53	Big Stony Lake	9/7/1996	1996.67671	1389.71
Big Stony Lake	6/28/1994	1994.48767	1389.59	Big Stony Lake	9/13/1996	1996.69315	1389.61
Big Stony Lake	7/4/1994	1994.50411	1389.51	Big Stony Lake	9/21/1996	1996.71507	1389.61
Big Stony Lake	7/9/1994	1994.51781	1389.59	Big Stony Lake	9/28/1996	1996.73425	1389.73
Big Stony Lake	7/15/1994	1994.53425	1389.55	Big Stony Lake	10/10/1996	1996.76712	1389.63
Big Stony Lake	7/19/1994	1994.54521	1389.81	Big Stony Lake	5/11/1997	1997.3589	1390.29

Peysenske Lake Water Level Evaluation

Lake Level Data							
Lake	Date Read	Dec date Read	Surface Water Elevation (ft)	Lake	Date Read	Dec date Read	Surface Water Elevation (ft)
Big Stony Lake	5/13/1997	1997.36438	1390.23	Big Stony Lake	6/15/1999	1999.45205	1390.49
Big Stony Lake	5/15/1997	1997.36986	1390.23	Big Stony Lake	6/22/1999	1999.47123	1390.33
Big Stony Lake	5/17/1997	1997.37534	1390.19	Big Stony Lake	7/13/1999	1999.52877	1390.29
Big Stony Lake	5/29/1997	1997.40822	1390.09	Big Stony Lake	7/17/1999	1999.53973	1390.53
Big Stony Lake	6/2/1997	1997.41644	1390.05	Big Stony Lake	7/30/1999	1999.57534	1390.29
Big Stony Lake	6/10/1997	1997.43836	1389.99	Big Stony Lake	8/4/1999	1999.5863	1390.25
Big Stony Lake	6/15/1997	1997.45205	1389.93	Big Stony Lake	8/18/1999	1999.62466	1390.27
Big Stony Lake	6/20/1997	1997.46575	1389.99	Big Stony Lake	8/27/1999	1999.64932	1390.21
Big Stony Lake	6/24/1997	1997.47671	1390.07	Big Stony Lake	9/16/1999	1999.70137	1390.19
Big Stony Lake	6/30/1997	1997.49315	1390.27	Big Stony Lake	9/27/1999	1999.73151	1390.27
Big Stony Lake	7/1/1997	1997.49589	1390.39	Big Stony Lake	10/10/1999	1999.76712	1390.39
Big Stony Lake	7/4/1997	1997.50411	1390.39	Big Stony Lake	10/19/1999	1999.79178	1390.23
Big Stony Lake	7/15/1997	1997.53425	1390.35	Big Stony Lake	5/3/2000	2000.33699	1390.23
Big Stony Lake	7/23/1997	1997.55616	1390.23	Big Stony Lake	5/8/2000	2000.35068	1390.31
Big Stony Lake	8/1/1997	1997.57808	1390.05	Big Stony Lake	5/30/2000	2000.41096	1390.27
Big Stony Lake	8/18/1997	1997.62466	1389.95	Big Stony Lake	6/10/2000	2000.43836	1390.01
Big Stony Lake	8/22/1997	1997.63562	1389.97	Big Stony Lake	6/18/2000	2000.46027	1390.07
Big Stony Lake	9/5/1997	1997.67123	1389.97	Big Stony Lake	6/28/2000	2000.48767	1389.91
Big Stony Lake	9/16/1997	1997.70137	1390.05	Big Stony Lake	7/9/2000	2000.51781	1389.81
Big Stony Lake	9/28/1997	1997.73425	1390.01	Big Stony Lake	7/23/2000	2000.55616	1389.61
Big Stony Lake	10/5/1997	1997.75342	1390.03	Big Stony Lake	7/30/2000	2000.57534	1389.63
Big Stony Lake	10/13/1997	1997.77534	1390.25	Big Stony Lake	8/7/2000	2000.59452	1389.59
Big Stony Lake	5/5/1998	1998.34247	1389.93	Big Stony Lake	8/12/2000	2000.60822	1389.53
Big Stony Lake	5/13/1998	1998.36438	1389.97	Big Stony Lake	8/22/2000	2000.63562	1389.51
Big Stony Lake	5/16/1998	1998.3726	1390.17	Big Stony Lake	9/3/2000	2000.66575	1389.55
Big Stony Lake	5/26/1998	1998.4	1389.97	Big Stony Lake	9/16/2000	2000.70137	1389.51
Big Stony Lake	5/30/1998	1998.41096	1390.03	Big Stony Lake	10/8/2000	2000.76164	1389.49
Big Stony Lake	6/5/1998	1998.42466	1389.95	Big Stony Lake	5/15/2001	2001.36986	1391.09
Big Stony Lake	6/12/1998	1998.44384	1389.99	Big Stony Lake	5/17/2001	2001.37534	1391.06
Big Stony Lake	6/18/1998	1998.46027	1390.11	Big Stony Lake	5/19/2001	2001.38082	1391.07
Big Stony Lake	6/29/1998	1998.49041	1390.11	Big Stony Lake	5/25/2001	2001.39726	1391.11
Big Stony Lake	7/8/1998	1998.51507	1390.09	Big Stony Lake	5/30/2001	2001.41096	1391.09
Big Stony Lake	7/19/1998	1998.54521	1389.99	Big Stony Lake	6/8/2001	2001.43288	1391.01
Big Stony Lake	7/27/1998	1998.56712	1389.89	Big Stony Lake	6/18/2001	2001.46027	1391.05
Big Stony Lake	7/30/1998	1998.57534	1389.83	Big Stony Lake	6/26/2001	2001.48219	1391.01
Big Stony Lake	8/14/1998	1998.6137	1389.69	Big Stony Lake	7/4/2001	2001.50411	1390.85
Big Stony Lake	8/15/1998	1998.61644	1389.65	Big Stony Lake	7/12/2001	2001.52603	1390.71
Big Stony Lake	8/20/1998	1998.63014	1389.79	Big Stony Lake	8/6/2001	2001.59178	1390.51
Big Stony Lake	8/24/1998	1998.6411	1389.81	Big Stony Lake	8/15/2001	2001.61644	1390.51
Big Stony Lake	9/1/1998	1998.66027	1389.77	Big Stony Lake	8/22/2001	2001.63562	1390.47
Big Stony Lake	9/8/1998	1998.67945	1389.67	Big Stony Lake	9/3/2001	2001.66575	1390.37
Big Stony Lake	9/15/1998	1998.69863	1389.75	Big Stony Lake	9/30/2001	2001.73973	1390.33
Big Stony Lake	9/22/1998	1998.71781	1389.65	Big Stony Lake	5/8/2002	2002.35068	1389.27
Big Stony Lake	9/28/1998	1998.73425	1389.81	Big Stony Lake	5/8/2002	2002.35068	1389.28
Big Stony Lake	10/6/1998	1998.75616	1389.81	Big Stony Lake	5/29/2002	2002.40822	1389.12
Big Stony Lake	5/6/1999	1999.34521	1390.39	Big Stony Lake	6/4/2002	2002.42192	1389.08
Big Stony Lake	5/8/1999	1999.35068	1390.43	Big Stony Lake	6/9/2002	2002.43562	1388.98
Big Stony Lake	5/13/1999	1999.36438	1390.71	Big Stony Lake	6/23/2002	2002.47397	1389.28
Big Stony Lake	5/26/1999	1999.4	1390.59	Big Stony Lake	7/8/2002	2002.51507	1389.24
Big Stony Lake	6/4/1999	1999.42192	1390.51	Big Stony Lake	7/20/2002	2002.54795	1389.08
Big Stony Lake	6/10/1999	1999.43836	1390.59	Big Stony Lake	7/24/2002	2002.5589	1389

Peysenske Lake Water Level Evaluation

Lake Level Data							
Lake	Date Read	Dec date Read	Surface Water Elevation (ft)	Lake	Date Read	Dec date Read	Surface Water Elevation (ft)
Big Stony Lake	8/13/2002	2002.61096	1388.96	Big Stony Lake	5/11/2006	2006.3589	1389.35
Big Stony Lake	8/24/2002	2002.6411	1388.88	Big Stony Lake	5/16/2006	2006.3726	1389.39
Big Stony Lake	9/1/2002	2002.66027	1389	Big Stony Lake	5/20/2006	2006.38356	1389.25
Big Stony Lake	9/16/2002	2002.70137	1388.8	Big Stony Lake	6/2/2006	2006.41644	1389.33
Big Stony Lake	5/6/2003	2003.34521	1389.46	Big Stony Lake	6/28/2006	2006.48767	1389.11
Big Stony Lake	5/10/2003	2003.35616	1389.54	Big Stony Lake	7/11/2006	2006.52329	1389.03
Big Stony Lake	5/27/2003	2003.40274	1389.46	Big Stony Lake	7/22/2006	2006.55342	1388.87
Big Stony Lake	6/9/2003	2003.43562	1389.46	Big Stony Lake	7/28/2006	2006.56986	1388.83
Big Stony Lake	6/30/2003	2003.49315	1389.52	Big Stony Lake	8/3/2006	2006.58356	1388.79
Big Stony Lake	7/17/2003	2003.53973	1389.34	Big Stony Lake	8/8/2006	2006.59726	1388.64
Big Stony Lake	7/28/2003	2003.56986	1389.22	Big Stony Lake	8/8/2006	2006.59726	1388.69
Big Stony Lake	8/7/2003	2003.59452	1389.12	Big Stony Lake	9/5/2006	2006.67123	1388.65
Big Stony Lake	8/19/2003	2003.6274	1388.9	Big Stony Lake	9/12/2006	2006.69041	1388.45
Big Stony Lake	8/26/2003	2003.64658	1388.86	Big Stony Lake	10/9/2006	2006.76438	1388.49
Big Stony Lake	8/31/2003	2003.66027	1388.74	Big Stony Lake	10/18/2006	2006.78904	1388.49
Big Stony Lake	9/21/2003	2003.71507	1388.52	Big Stony Lake	5/18/2007	2007.37808	1388.84
Big Stony Lake	9/25/2003	2003.72603	1388.46	Big Stony Lake	5/18/2007	2007.37808	1388.84
Big Stony Lake	10/3/2003	2003.74795	1388.38	Big Stony Lake	5/25/2007	2007.39726	1388.8
Big Stony Lake	4/30/2004	2004.32877	1388.41	Big Stony Lake	6/2/2007	2007.41644	1389.02
Big Stony Lake	5/1/2004	2004.33151	1388.41	Big Stony Lake	6/14/2007	2007.44932	1388.94
Big Stony Lake	5/12/2004	2004.36164	1388.45	Big Stony Lake	6/20/2007	2007.46575	1388.84
Big Stony Lake	5/17/2004	2004.37534	1388.47	Big Stony Lake	6/27/2007	2007.48493	1388.7
Big Stony Lake	6/2/2004	2004.41644	1388.53	Big Stony Lake	7/5/2007	2007.50685	1388.62
Big Stony Lake	6/24/2004	2004.47671	1388.29	Big Stony Lake	7/11/2007	2007.52329	1388.6
Big Stony Lake	6/27/2004	2004.48493	1388.25	Big Stony Lake	7/20/2007	2007.54795	1388.54
Big Stony Lake	7/7/2004	2004.51233	1388.39	Big Stony Lake	7/29/2007	2007.5726	1388.5
Big Stony Lake	7/8/2004	2004.51507	1388.45	Big Stony Lake	8/10/2007	2007.60274	1388.28
Big Stony Lake	7/29/2004	2004.5726	1388.21	Big Stony Lake	8/22/2007	2007.63562	1388.18
Big Stony Lake	8/4/2004	2004.5863	1388.15	Big Stony Lake	9/21/2007	2007.71507	1388.12
Big Stony Lake	8/11/2004	2004.60548	1388.11	Big Stony Lake	10/11/2007	2007.76986	1388.1
Big Stony Lake	9/4/2004	2004.66849	1387.85	Big Stony Lake	5/13/2008	2008.36438	1388.51
Big Stony Lake	9/7/2004	2004.67671	1388.09	Big Stony Lake	5/17/2008	2008.37534	1388.21
Big Stony Lake	9/21/2004	2004.71507	1388.23	Big Stony Lake	6/7/2008	2008.43014	1388.61
Big Stony Lake	10/11/2004	2004.76986	1388.13	Big Stony Lake	6/10/2008	2008.43836	1388.69
Big Stony Lake	5/5/2005	2005.34247	1388.34	Big Stony Lake	6/17/2008	2008.45753	1388.73
Big Stony Lake	5/10/2005	2005.35616	1388.58	Big Stony Lake	7/2/2008	2008.49863	1388.67
Big Stony Lake	5/23/2005	2005.39178	1388.42	Big Stony Lake	8/3/2008	2008.58356	1388.47
Big Stony Lake	5/27/2005	2005.40274	1388.6	Big Stony Lake	8/9/2008	2008.6	1387.61
Big Stony Lake	6/11/2005	2005.4411	1388.78	Big Stony Lake	9/2/2008	2008.66301	1388.05
Big Stony Lake	6/20/2005	2005.46575	1388.84	Big Stony Lake	10/2/2008	2008.74521	1387.97
Big Stony Lake	7/12/2005	2005.52603	1388.86	Moran	1/22/1997	1997.06027	1403.7
Big Stony Lake	7/20/2005	2005.54795	1388.7	Moran	7/1/2000	2000.49589	1405.3
Big Stony Lake	8/5/2005	2005.58904	1388.66	Moran	7/7/2004	2004.51233	1401.58
Big Stony Lake	8/16/2005	2005.61918	1388.56	Moran	7/14/2004	2004.53151	1401.56
Big Stony Lake	8/20/2005	2005.63014	1388.58	Moran	7/21/2004	2004.55068	1401.47
Big Stony Lake	8/26/2005	2005.64658	1388.5	Moran	7/28/2004	2004.56986	1401.36
Big Stony Lake	8/29/2005	2005.65479	1388.48	Moran	8/4/2004	2004.5863	1401.32
Big Stony Lake	9/15/2005	2005.69863	1388.52	Moran	8/11/2004	2004.60548	1401.28
Big Stony Lake	9/26/2005	2005.72877	1388.48	Moran	8/18/2004	2004.62466	1401.22
Big Stony Lake	10/7/2005	2005.7589	1388.62	Moran	8/25/2004	2004.64384	1401.14
Big Stony Lake	5/2/2006	2006.33425	1389.24	Moran	9/1/2004	2004.66027	1401.08

Peysenske Lake Water Level Evaluation

Precipitation Data								
Date Read	Decimal date read	Precipitation Departure From Normal (inches)		Date Read	Decimal date read	Precipitation Departure From Normal (inches)		
8/31/1989	1989.66	1.92		6/30/1994	1994.49	-4.2		
9/30/1989	1989.74	-0.1		7/31/1994	1994.58	-3.46		
10/31/1989	1989.82	-1.51		8/31/1994	1994.66	-2.88		
11/30/1989	1989.90	-0.53		9/30/1994	1994.74	-0.81		
12/31/1989	1989.99	-1.74		10/31/1994	1994.82	1.77		
1/31/1990	1990.08	-1.9		11/30/1994	1994.90	0.62		
2/28/1990	1990.16	-1.41		12/31/1994	1994.99	1.4		
3/31/1990	1990.25	-0.03		1/31/1995	1995.08	1.04		
4/30/1990	1990.33	1.18		2/28/1995	1995.16	1.57		
5/31/1990	1990.41	-3.52		3/31/1995	1995.25	1.98		
6/30/1990	1990.49	-2.69		4/30/1995	1995.33	1.62		
7/31/1990	1990.58	-4.79		5/31/1995	1995.41	-0.72		
8/31/1990	1990.66	-7.18		6/30/1995	1995.49	-4.6		
9/30/1990	1990.74	-9.84		7/31/1995	1995.58	-2.36		
10/31/1990	1990.82	-11.11		8/31/1995	1995.66	1.84		
11/30/1990	1990.90	-10.1		9/30/1995	1995.74	3.87		
12/31/1990	1990.99	-10.03		10/31/1995	1995.82	3.29		
1/31/1991	1991.08	-9.93		11/30/1995	1995.90	4.66		
2/28/1991	1991.16	-9.15		12/31/1995	1995.99	5.32		
3/31/1991	1991.25	-9.31		1/31/1996	1996.08	6.1		
4/30/1991	1991.33	-7.91		2/29/1996	1996.16	6.63		
5/31/1991	1991.41	-5.04		3/31/1996	1996.25	6.4		
6/30/1991	1991.49	-8.41		4/30/1996	1996.33	5.02		
7/31/1991	1991.58	-7.11		5/31/1996	1996.41	4.42		
8/31/1991	1991.66	-11.01		6/30/1996	1996.49	4.08		
9/30/1991	1991.74	-8.2		7/31/1996	1996.58	3.43		
10/31/1991	1991.82	-10.47		8/31/1996	1996.66	1.44		
11/30/1991	1991.90	-8.99		9/30/1996	1996.74	3.39		
12/31/1991	1991.99	-8.93		10/31/1996	1996.82	4.37		
1/31/1992	1992.08	-9.45		11/30/1996	1996.90	7.21		
2/29/1992	1992.16	-10.02		12/31/1996	1996.99	7.52		
3/31/1992	1992.25	-9.09		1/31/1997	1997.08	8.12		
4/30/1992	1992.33	-9.78		2/28/1997	1997.16	7.17		
5/31/1992	1992.41	-10.03		3/31/1997	1997.25	7.41		
6/30/1992	1992.49	-8.75		4/30/1997	1997.33	7.47		
7/31/1992	1992.58	-5.77		5/31/1997	1997.41	5.54		
8/31/1992	1992.66	-5.12		6/30/1997	1997.49	5.52		
9/30/1992	1992.74	-8.62		7/31/1997	1997.58	5.64		
10/31/1992	1992.82	-11.43		8/31/1997	1997.66	2.36		
11/30/1992	1992.90	-9.7		9/30/1997	1997.74	1.49		
12/31/1992	1992.99	-10.31		10/31/1997	1997.82	3.18		
1/31/1993	1993.08	-10.14		11/30/1997	1997.90	4.86		
2/28/1993	1993.16	-11.39		12/31/1997	1997.99	3.61		
3/31/1993	1993.25	-11.37		1/31/1998	1998.08	3.61		
4/30/1993	1993.33	-9.89		2/28/1998	1998.16	3.54		
5/31/1993	1993.41	-6.64		3/31/1998	1998.25	3.15		
6/30/1993	1993.49	-6.95		4/30/1998	1998.33	2.73		
7/31/1993	1993.58	-4.25		5/31/1998	1998.41	3.49		
8/31/1993	1993.66	-0.51		6/30/1998	1998.49	6.35		
9/30/1993	1993.74	-6.72		7/31/1998	1998.58	3.46		
10/31/1993	1993.82	-9.84		8/31/1998	1998.66	1.07		
11/30/1993	1993.90	-7.58		9/30/1998	1998.74	3.25		
12/31/1993	1993.99	-7.64		10/31/1998	1998.82	5.07		
1/31/1994	1994.08	-6.71		11/30/1998	1998.90	4.55		
2/28/1994	1994.16	-6.29		12/31/1998	1998.99	4.86		
3/31/1994	1994.25	-6.9		1/31/1999	1999.08	5.81		
4/30/1994	1994.33	-7.55		2/28/1999	1999.16	5.52		
5/31/1994	1994.41	-8.96		3/31/1999	1999.25	5.52		

Peysenske Lake Water Level Evaluation

Precipitation Data						
Date Read	Decimal date read	Precipitation Departure From Normal (inches)		Date Read	Decimal date read	Precipitation Departure From Normal (inches)
4/30/1999	1999.33	5.44		2/29/2004	2004.16	-8.65
5/31/1999	1999.41	8.36		3/31/2004	2004.25	-9.17
6/30/1999	1999.49	8.89		4/30/2004	2004.33	-10.8
7/31/1999	1999.58	13.06		5/31/2004	2004.41	-8.52
8/31/1999	1999.66	14.61		6/30/2004	2004.49	-12.26
9/30/1999	1999.74	12.46		7/31/2004	2004.58	-13.52
10/31/1999	1999.82	10.67		8/31/2004	2004.66	-13.68
11/30/1999	1999.90	8.34		9/30/2004	2004.74	-7.49
12/31/1999	1999.99	8.18		10/31/2004	2004.82	-6.47
1/31/2000	2000.08	7.29		11/30/2004	2004.90	-6.61
2/28/2000	2000.16	7.23		12/31/2004	2004.99	-8.95
3/31/2000	2000.25	7.41		1/31/2005	2005.08	-8.36
4/30/2000	2000.33	7.19		2/28/2005	2005.16	-8.11
5/31/2000	2000.41	8.7		3/31/2005	2005.25	-9.87
6/30/2000	2000.49	10.43		4/30/2005	2005.33	-8.93
7/31/2000	2000.58	10.52		5/31/2005	2005.41	-10.47
8/31/2000	2000.66	9.75		6/30/2005	2005.49	-8.69
9/30/2000	2000.74	10.67		7/31/2005	2005.58	-9.3
10/31/2000	2000.82	7.92		8/31/2005	2005.66	-8.04
11/30/2000	2000.90	9.66		9/30/2005	2005.74	-7.17
12/31/2000	2000.99	9.22		10/31/2005	2005.82	-5.56
1/31/2001	2001.08	8.65		11/30/2005	2005.90	-3.76
2/28/2001	2001.16	8.71		12/31/2005	2005.99	-3.41
3/31/2001	2001.25	8.04		1/31/2006	2006.08	-3.79
4/30/2001	2001.33	11		2/28/2006	2006.16	-3.29
5/31/2001	2001.41	11.98		3/31/2006	2006.25	-2.64
6/30/2001	2001.49	11.3		4/30/2006	2006.33	-2.18
7/31/2001	2001.58	6.07		5/31/2006	2006.41	-2.49
8/31/2001	2001.66	4.51		6/30/2006	2006.49	-4.42
9/30/2001	2001.74	4.8		7/31/2006	2006.58	-8.44
10/31/2001	2001.82	4.94		8/31/2006	2006.66	-10.26
11/30/2001	2001.90	4.82		9/30/2006	2006.74	-10.95
12/31/2001	2001.99	5.23		10/31/2006	2006.82	-11.24
1/31/2002	2002.08	5.2		11/30/2006	2006.90	-11.12
2/28/2002	2002.16	4.91		12/31/2006	2006.99	-9.78
3/31/2002	2002.25	4.18		1/31/2007	2007.08	-10.15
4/30/2002	2002.33	4.99		2/28/2007	2007.16	-8.95
5/31/2002	2002.41	5.22		3/31/2007	2007.25	-7.28
6/30/2002	2002.49	6.39		4/30/2007	2007.33	-5.79
7/31/2002	2002.58	4.61		5/31/2007	2007.41	-5.35
8/31/2002	2002.66	6.11		6/30/2007	2007.49	-6.57
9/30/2002	2002.74	7.13		7/31/2007	2007.58	-8.06
10/31/2002	2002.82	5.67		8/31/2007	2007.66	-7.75
11/30/2002	2002.90	2.31		9/30/2007	2007.74	-5.79
12/31/2002	2002.99	1.67		10/31/2007	2007.82	-2.85
1/31/2003	2003.08	0.86		11/30/2007	2007.90	-2.21
2/28/2003	2003.16	-0.18		12/31/2007	2007.99	-1.08
3/31/2003	2003.25	-0.61		1/31/2008	2008.08	-1.71
4/30/2003	2003.33	-0.88		2/29/2008	2008.16	-2.09
5/31/2003	2003.41	-1.46		3/31/2008	2008.25	-3.1
6/30/2003	2003.49	-2.26		4/30/2008	2008.33	-1.53
7/31/2003	2003.58	-3.15		5/31/2008	2008.41	-0.76
8/31/2003	2003.66	-6.77		6/30/2008	2008.49	-0.82
9/30/2003	2003.74	-10.53		7/31/2008	2008.58	2.29
10/31/2003	2003.82	-12.39		8/31/2008	2008.66	0.2
11/30/2003	2003.90	-11.11		9/30/2008	2008.74	2.07
12/31/2003	2003.99	-9.98		10/31/2008	2008.82	0.56
1/31/2004	2004.08	-9.47		11/30/2008	2008.90	-0.6