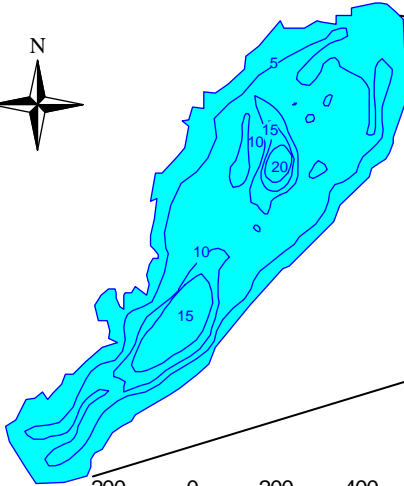
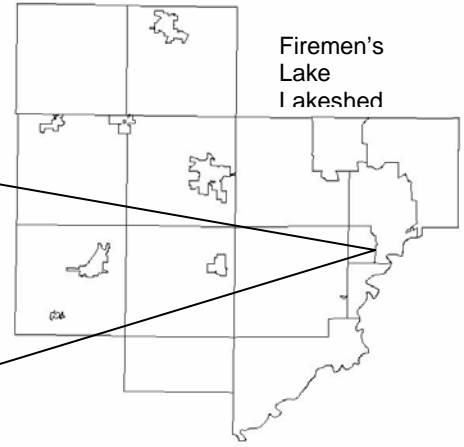


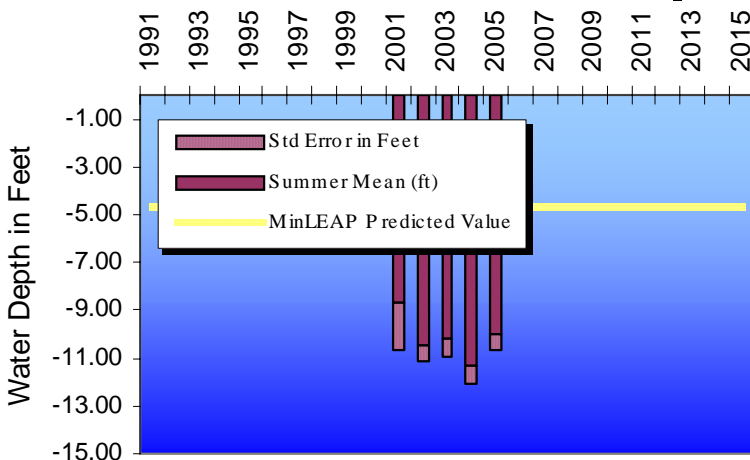
Firemen's Lake



Lake Area (acres): 9
 Lakeshed Area (acres): 29
 Littoral Area (acres): 7.6
 Percent littoral area: 26%
 Maximum Depth (ft): 20
 Mean Depth (ft): 3
 *Note: Littoral area is defined by the portion of lake less than 15 ft. and dominated by aquatic vegetation.

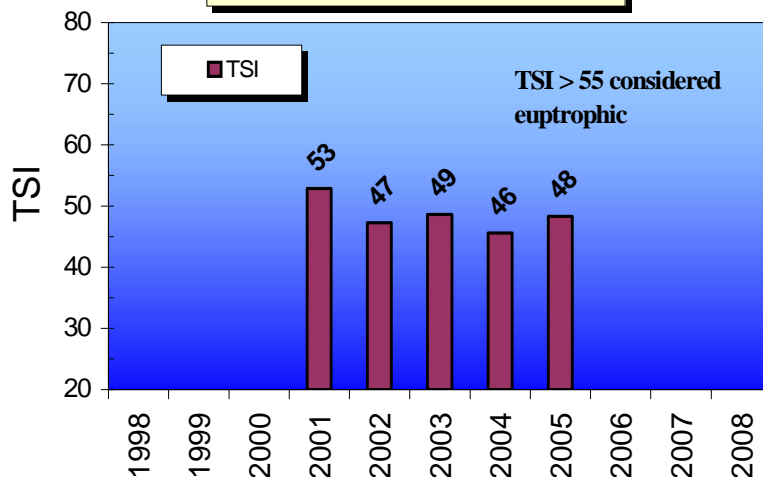


Summer Mean Secchi Depth (Water Clarity)



Note: Means calculated from 12 samples (2001).
 MinLEAP predicted range: 2.6 to 6.6 ft.
 Std. error can be plus (as shown) or minus the mean.

Carlson Trophic State Index (decreasing)

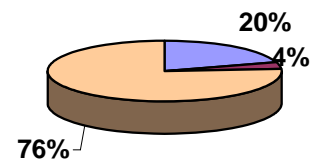


TSI > 55 considered eutrophic

Summary Points

- 2001 was the first sampling season for Firemen's Lake
- The Carlson Trophic State Index rates the lake as mesotrophic.
- The lake area to lakeshed area ratio is 1:3.2, which is beneficial to the lake since the nutrient load from the watershed is relatively small.
- The dominant land use within the lakeshed is open space (76 percent) which is beneficial to the lake.
- The water clarity continues to improve and is better (clearer) than the MinLEAP predicted range.
- The Total Phosphorus concentration continues to fall well below (better) the MinLEAP prediction.
- The Chlorophyll-a concentration is also below (better) than the MinLEAP predicted range.
- There is no fish consumption information available for this lake.
- The City of Chaska operates a swimming beach on Firemen's Lake.
- The TSI for the lake continues to decrease, a sign of slight improvement.

Land Use Within the Lakeshed



Legend: Agricultural, Residential, Open Space

Note: Commercial/Industrial includes Public and Institutional Spaces