

Three Lakes Clarity Monitoring Program

June 2014 Report

All data in this report is PROVISIONAL and SUBJECT TO REVISION

Data used is provided by GCWIN, USGS, BOR and NCWCD.

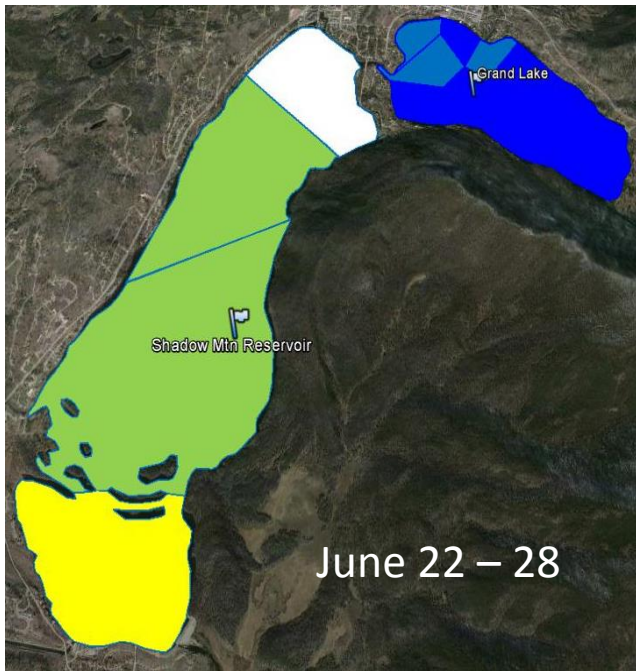
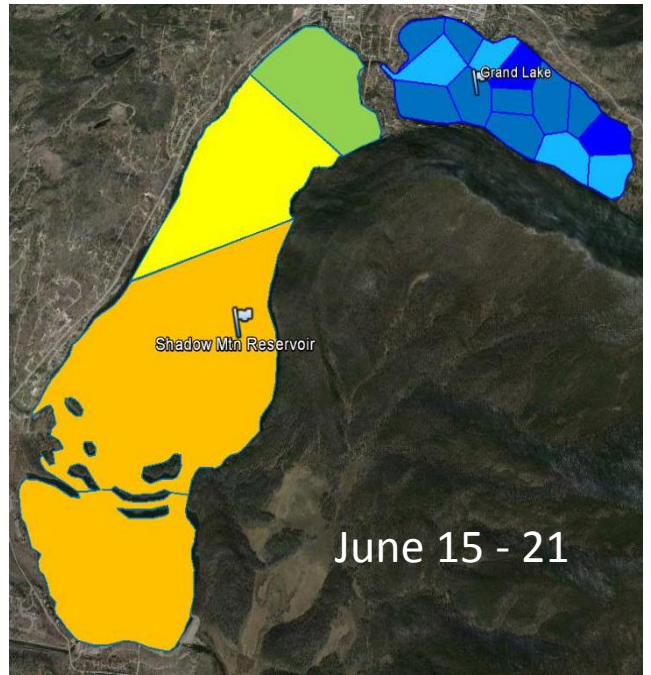
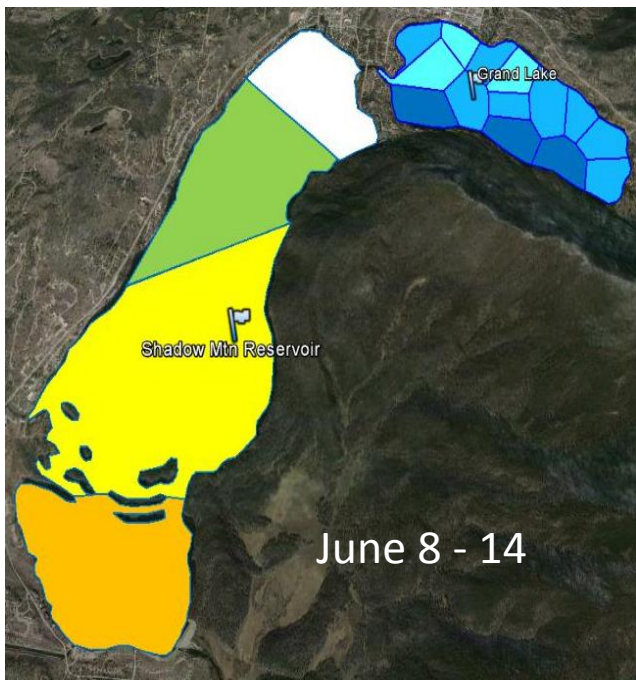
Secchi depths reported are measured using a view scope.

June synopsis

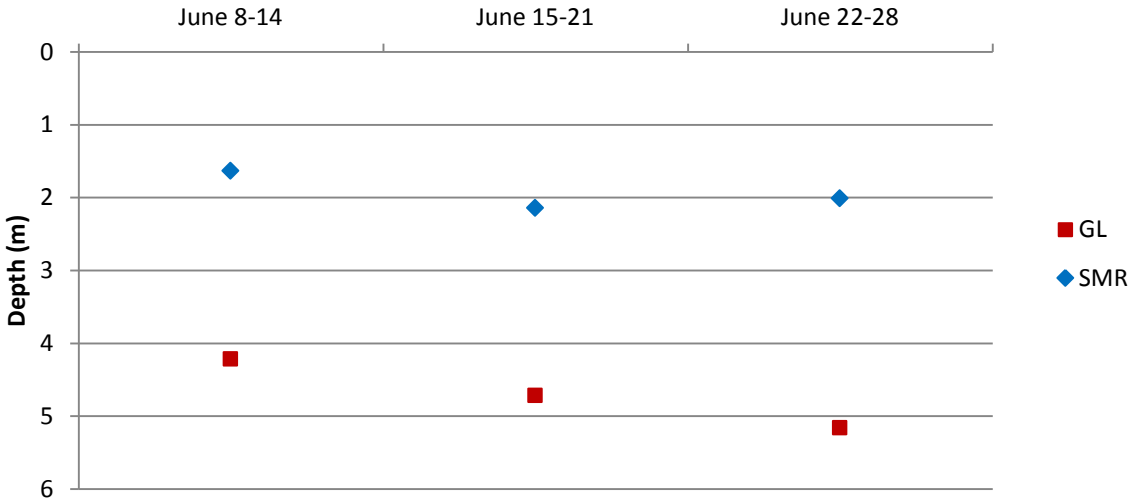
Grand Lake – Clarity averaged 4.81m. Average surface temperature was 49°F. Inflow from the East Inlet fluctuated throughout the month starting at 467cfs and ended at 251cfs. Inflow from the North Inlet fluctuated throughout the month starting at 653cfs and ended at 276cfs. Outflow at Adams Tunnel was 0cfs until June 17th when it was 208cfs and fluctuated ending the month at 192cfs.

Shadow Mountain Reservoir – Clarity averaged 1.95m. On June 25th at SMR-NOR the secchi disc hit bottom before a reading with scope was recorded. Average surface temperature was 52°F. Inflow from the North Fork decreased from 1,301cfs to 407cfs at the end of the month. Inflow at the Farr Pump was 0cfs throughout the month except for June 26th when it was 34cfs. Outflow at the Granby Dam fluctuated from 3,112cfs to end the month at 1,069cfs.

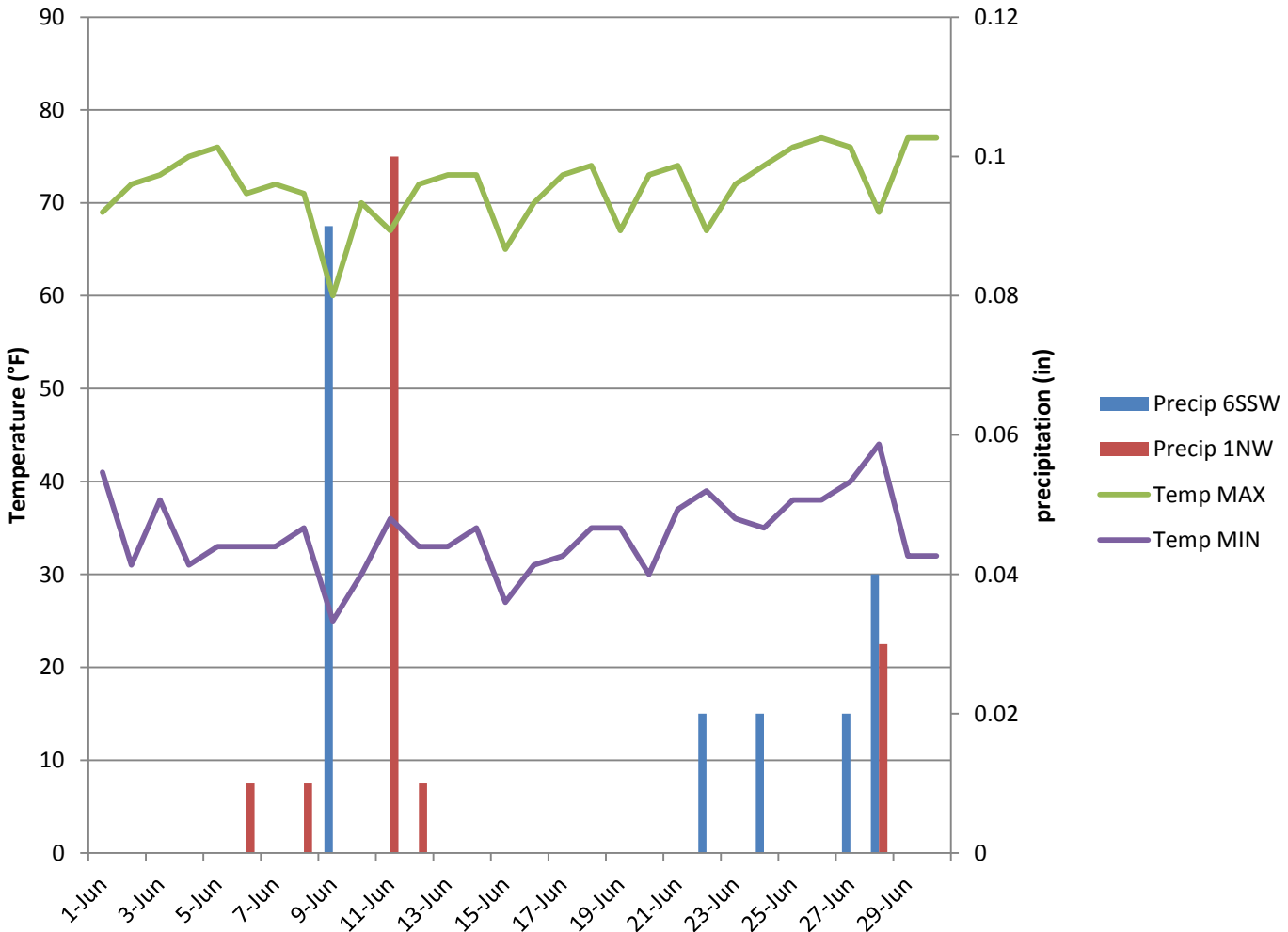
Connecting Channel Flow – Velocity fluctuated, starting at 1,260cfs and ending at 332cfs flowing to Shadow Mountain Reservoir.



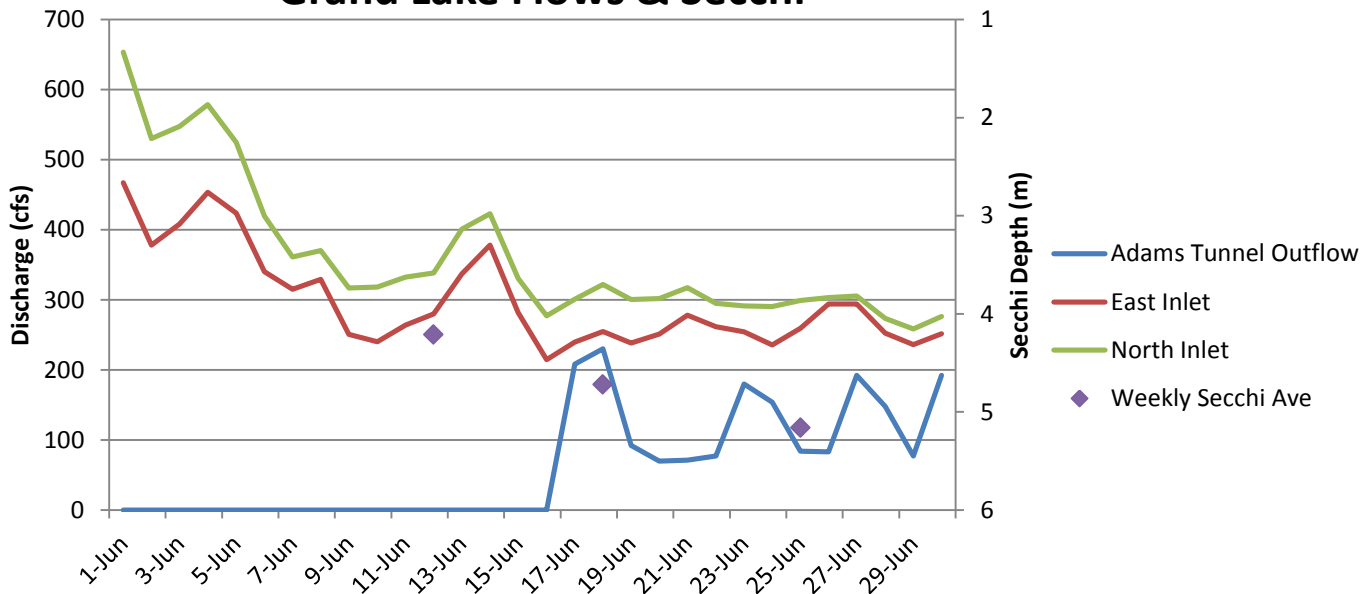
Average Weekly Secchi Depth Chart



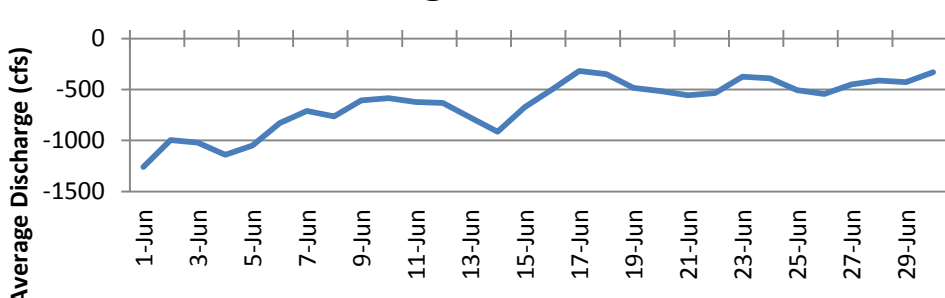
Weather Around Grand Lake



Grand Lake Flows & Secchi



Connecting Channel Flow

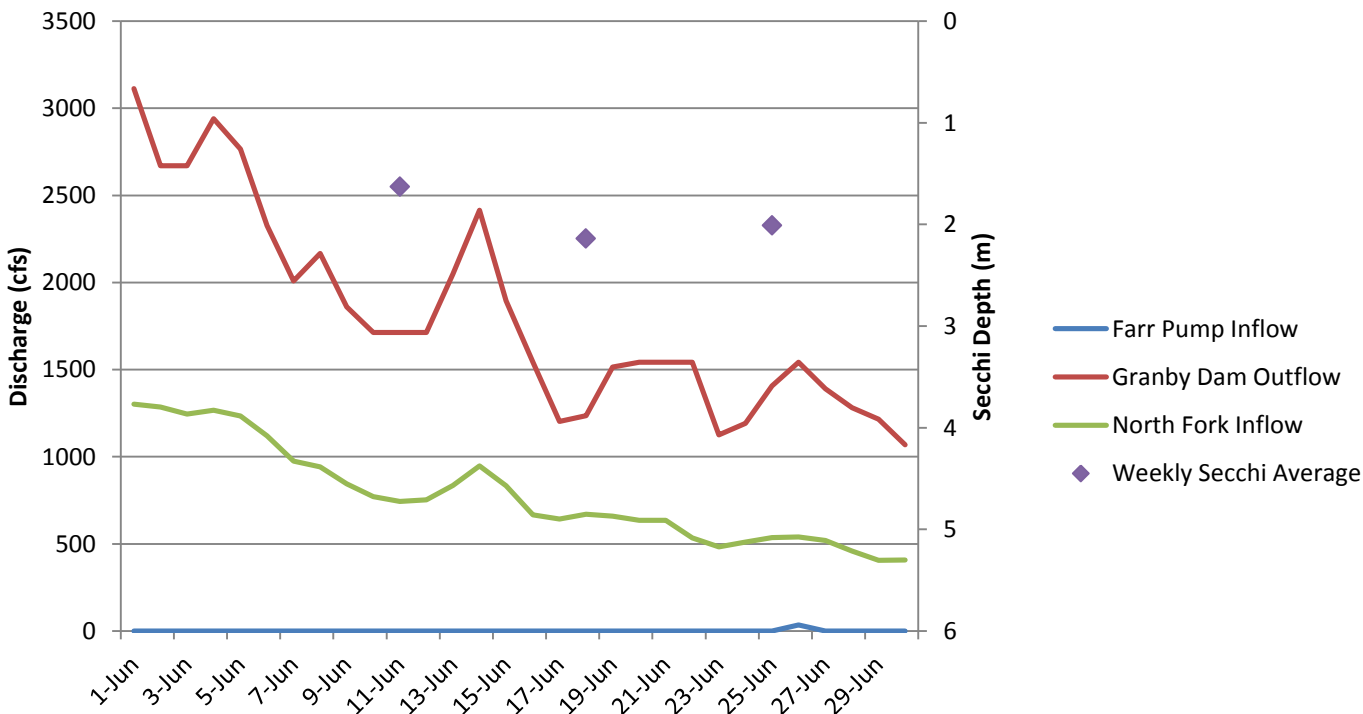


Grand Lake

↑
Direction
of flow
↓

Shadow
Mountain
Reservoir

Shadow Mountain Reservoir Flows & Secchi



If you are interested in viewing current conditions, you can check the following links:

- For real-time data on SMR– GL connecting channel: :
http://waterdata.usgs.gov/nwis/dv?referred_module=sw&site_no=09014050
- For information on stream inflows:
<http://www.northernwater.org/WaterProjects/WestSlopeWaterData.aspx?WDType=R>
- For five-day archives of Adams Tunnel flows:
http://www.usbr.gov/gp-bin/hydromet_archives.pl?adatunco
- For Grand County’s water resource page: <http://co.grand.co.us/408/Water-Resource-Management>
- For weather, gages, snow, avalanche reports , and water news: www.crwcd.org
- For water quality data around Grand County <http://www.gcwin.org>