

Three Lakes Clarity Monitoring Program

August 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.

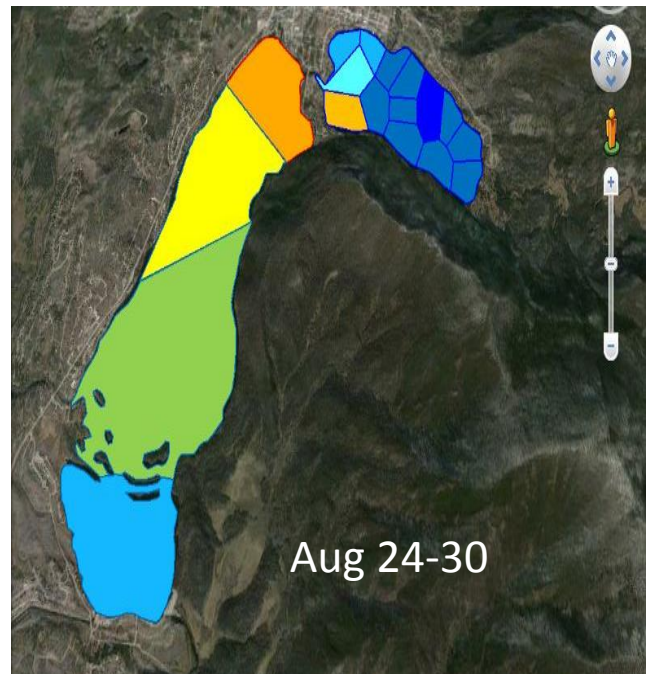
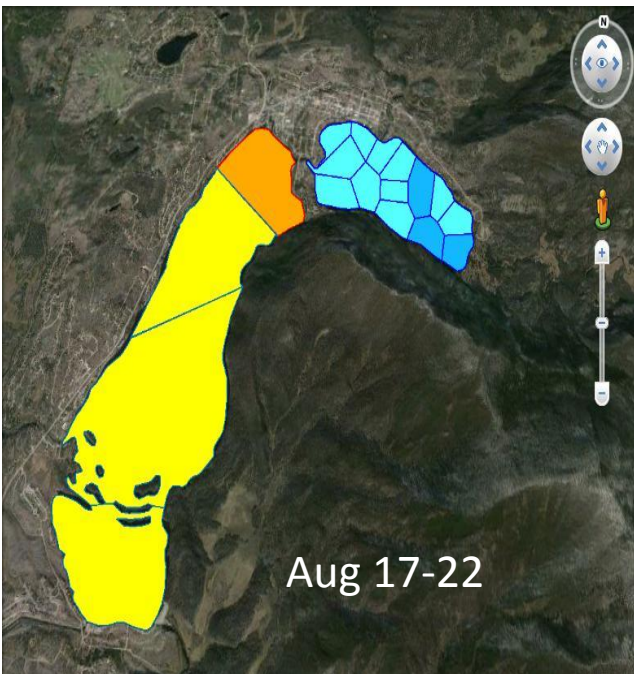
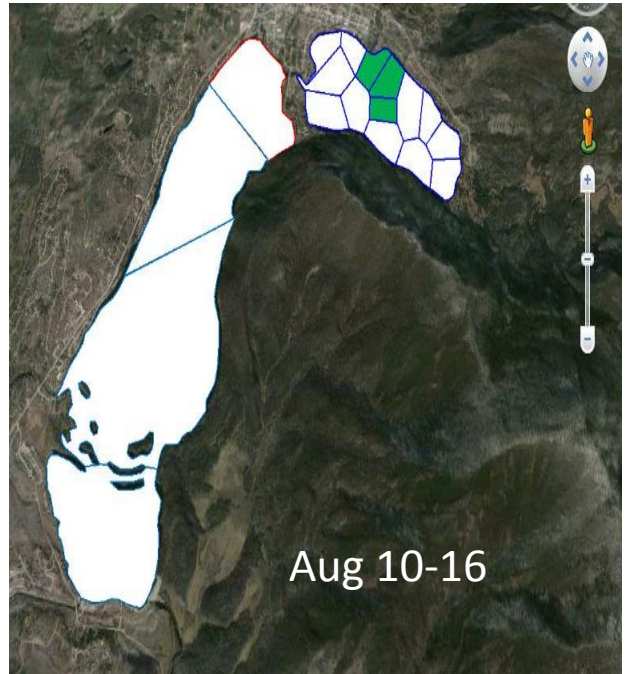
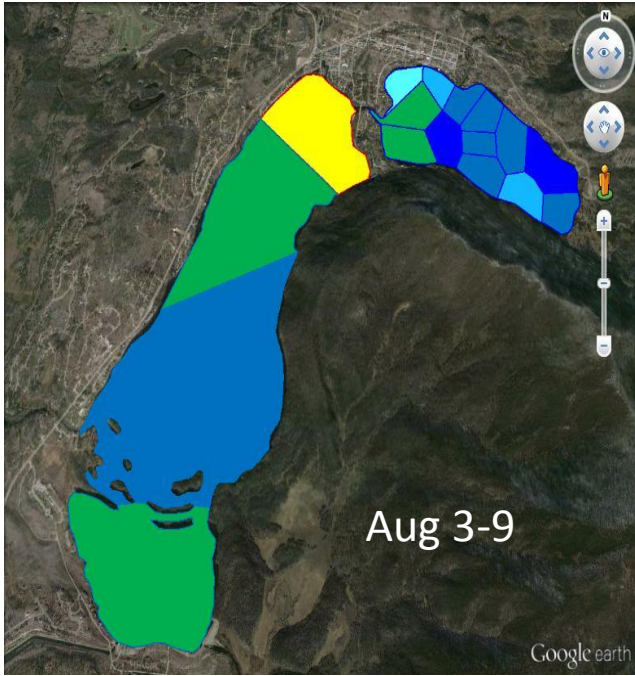
August synopsis

Grand Lake – Clarity averaged 4.23m. Average surface temperature was 57°F. Data Readings for the 2nd week of August were only taken for GL-NB, GL-MID, and GL-NI sites so the data is limited for that week. Inflow from the East Inlet fluctuated throughout the month starting at 75cfs and ended at 33cfs. Inflow from the North Inlet fluctuated throughout the month starting at 100cfs and ended at 49cfs. Outflow at Adams Tunnel started at 28cfs and reaching a high of 549cfs, ended the month at 29cfs.

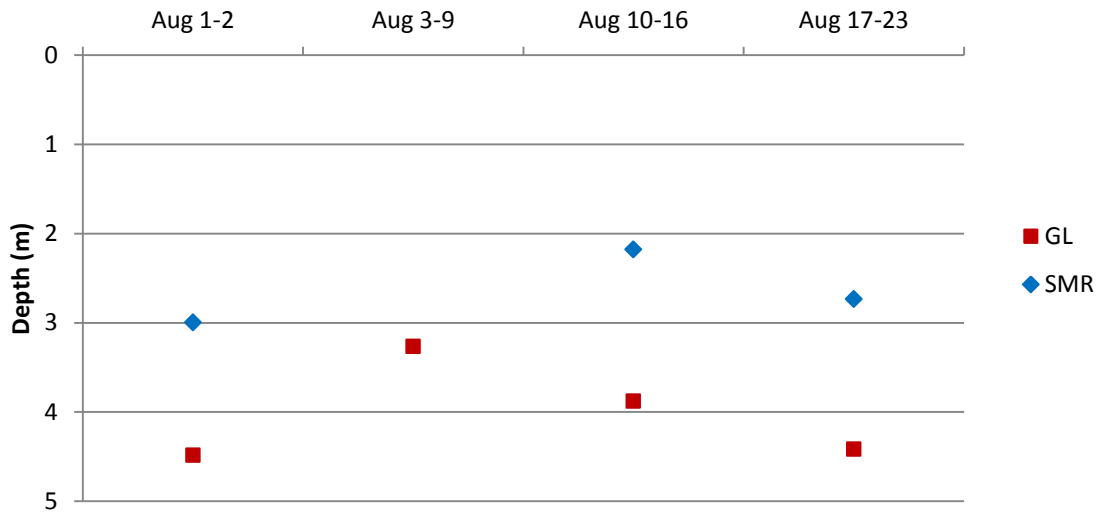
Shadow Mountain Reservoir – Clarity averaged 2.64m. Average surface temperature was 61°F (There were no readings for the 2nd week of August). Inflow from the North Fork decreased from 167cfs to 70cfs at the end of the month. Inflow at the Farr Pump was 0cfs until August 6th when it was 17cfs inflow fluctuated throughout the month and ended at 49cfs. Outflow at the Granby Dam decreased from 449cfs to 90cfs by the end the month.

Connecting Channel Flow – Velocity fluctuated, starting at -176cfs and ending at -66cfs flowing to Shadow Mountain Reservoir.

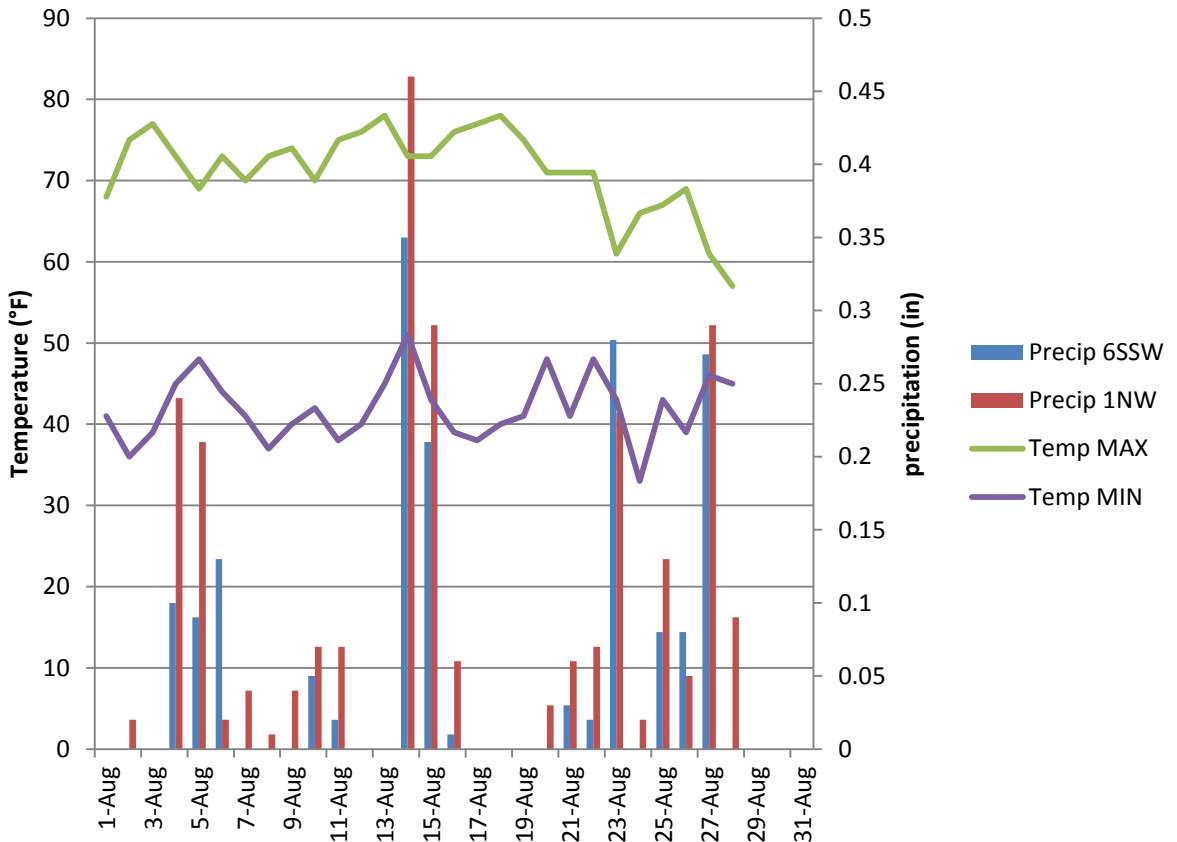
Secchi Depth (m)	
<1.0	4.0 - 4.5
1.0 - 1.5	4.5 - 5.0
1.5 - 2.0	5.0 - 5.5
2.0 - 2.5	5.5 - 6.0
2.5 - 3.0	6.0 - 6.5
3.0 - 3.5	6.5 - 7.0
3.5 - 4.0	> 7.0

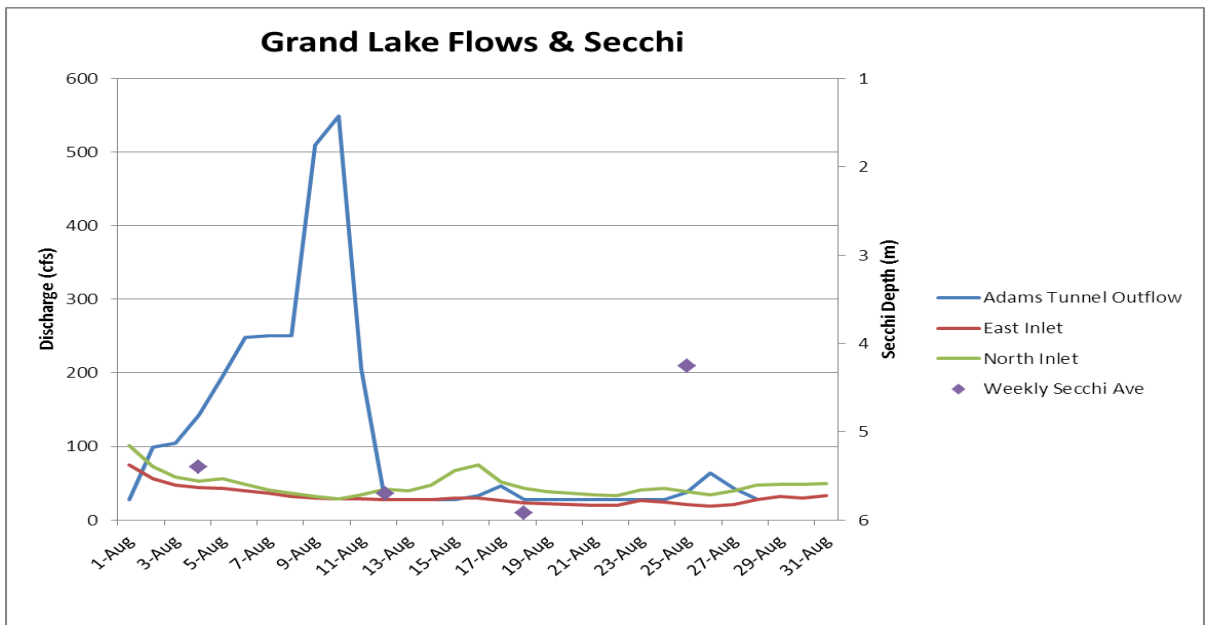


Average Weekly Secchi Depth Chart

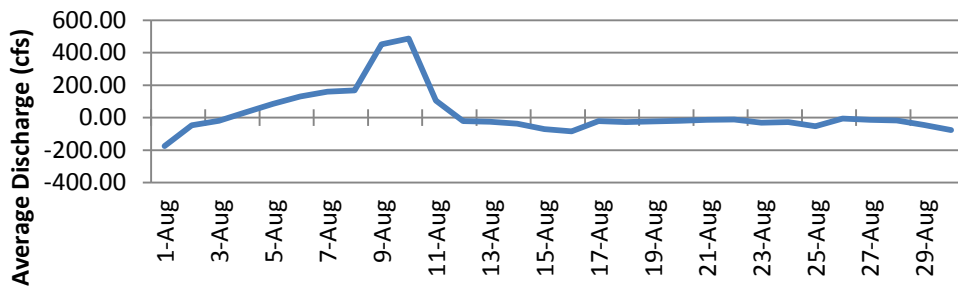


Weather Around Grand Lake

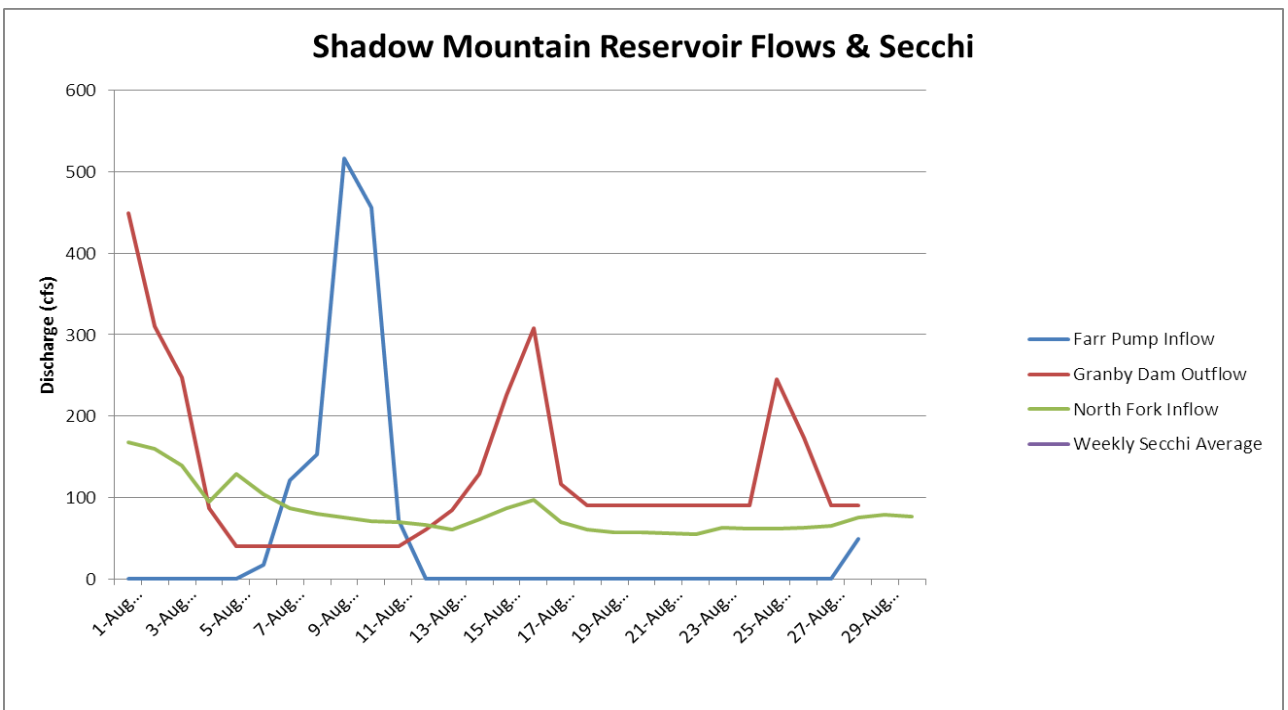




Connecting Channel Flow



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>