



COLORADO'S
Decision Support Systems
CWCBC / DWR

CDSS SNODAS Tools

What are the CDSS SNODAS Tools?

- Historical archive of SNODAS data products for Colorado water supply basins.
- Snow Data Assimilation System (SNODAS) data from the National Operational Hydrologic Remote Sensing Center (NOHRSC)
- Processed daily to calculate Snow Water Equivalent (SWE) and Snow Coverage statistics for water supply basins in Colorado.



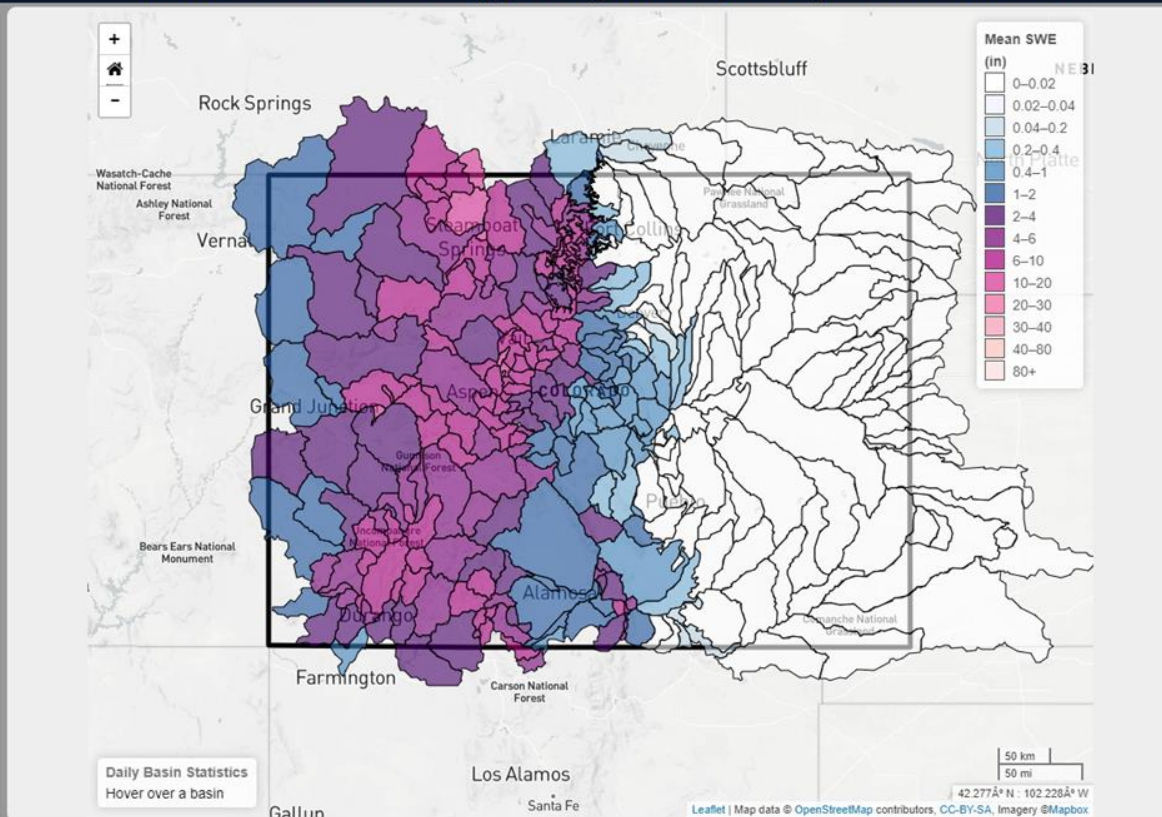
Colorado's Decision Support Systems (CDSS) SNODAS Tools

About Data Documentation

Daily SNODAS Snowpack Products for Colorado Water Supply Basins

This website provides access to a historical archive of SNODAS data products for Colorado water supply basins. Snow Data Assimilation System (SNODAS) data from the National Operational Hydrologic Remote Sensing Center (NOHRSC) are processed daily to calculate Snow Water Equivalent (SWE) and Snow Coverage statistics for water supply basins in Colorado. Snow Water Equivalent is the estimate of the depth of liquid water contained within the snowpack. Snow coverage is a percent of the basin land surface covered by snow (water bodies in the basin are ignored). The national SNODAS gridded dataset has been processed to provide data products for Colorado. Mean SWE is displayed in the map using a legend similar to the National Weather Service. The SNODAS Tools website provides access to an archive of daily products.

- The website is best viewed on a widescreen display. If the layout does not clearly show a left panel with tabs, a center panel with map, and a right panel with date and basin selectors, try maximizing to fill the display. **Ctrl and minus** can be used to zoom out until the layout shows all components.
- Hover over a basin to see the daily mean SWE value and other daily statistics.
- Use the **Select Date** button to display historical data for a specified day.
- Enter animation start and end dates, press **Submit**, and then press the play button to view the animation of daily SWE data.
- Click on a basin in the map to select the basin or use the **Select Basin** button to select from the basin list. Then click on buttons in the lower right to display graphs.
- Once a graph has been opened, click anywhere on the screen to close the graph view and return to the main screen.
- Reposition the map by holding the mouse button down and dragging.
- Zoom in and out of the map using the control in



Select Date **SNODAS Date: 2019-01-18**

SNODAS Animation

Starting Date: (earliest available date: 2003-09-30)
YYYY-MM-DD

Ending Date: (latest available date: 2019-01-18)
YYYY-MM-DD

Increment (days): (Default is set to 1)
value between 1 and 10

Submit

Play button, Pause button, Refresh button

Select Basin

SNODAS Snow Cover Graph

SNODAS SWE Graph

SNODAS SWE Volume Graph

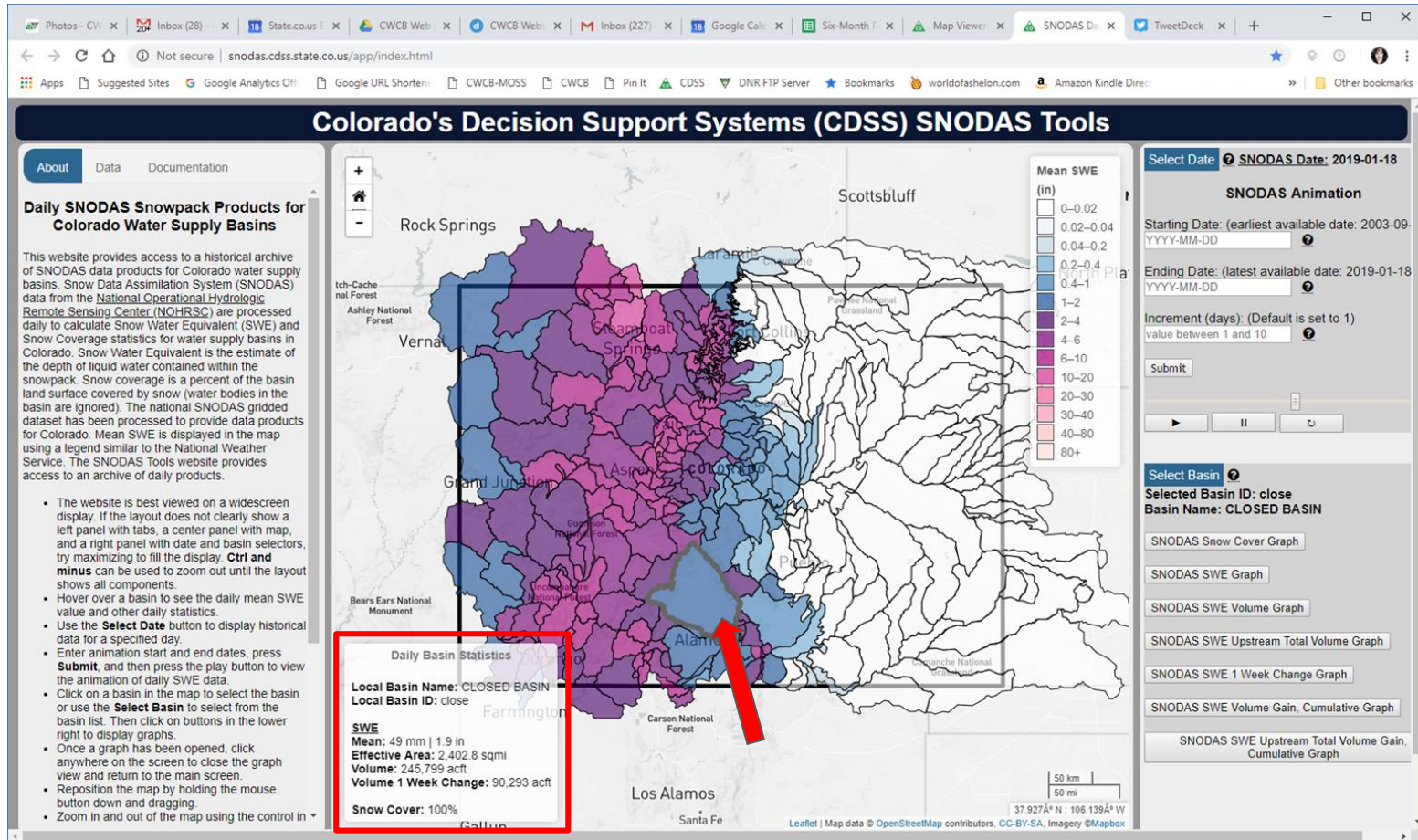
SNODAS SWE Upstream Total Volume Graph

SNODAS SWE 1 Week Change Graph

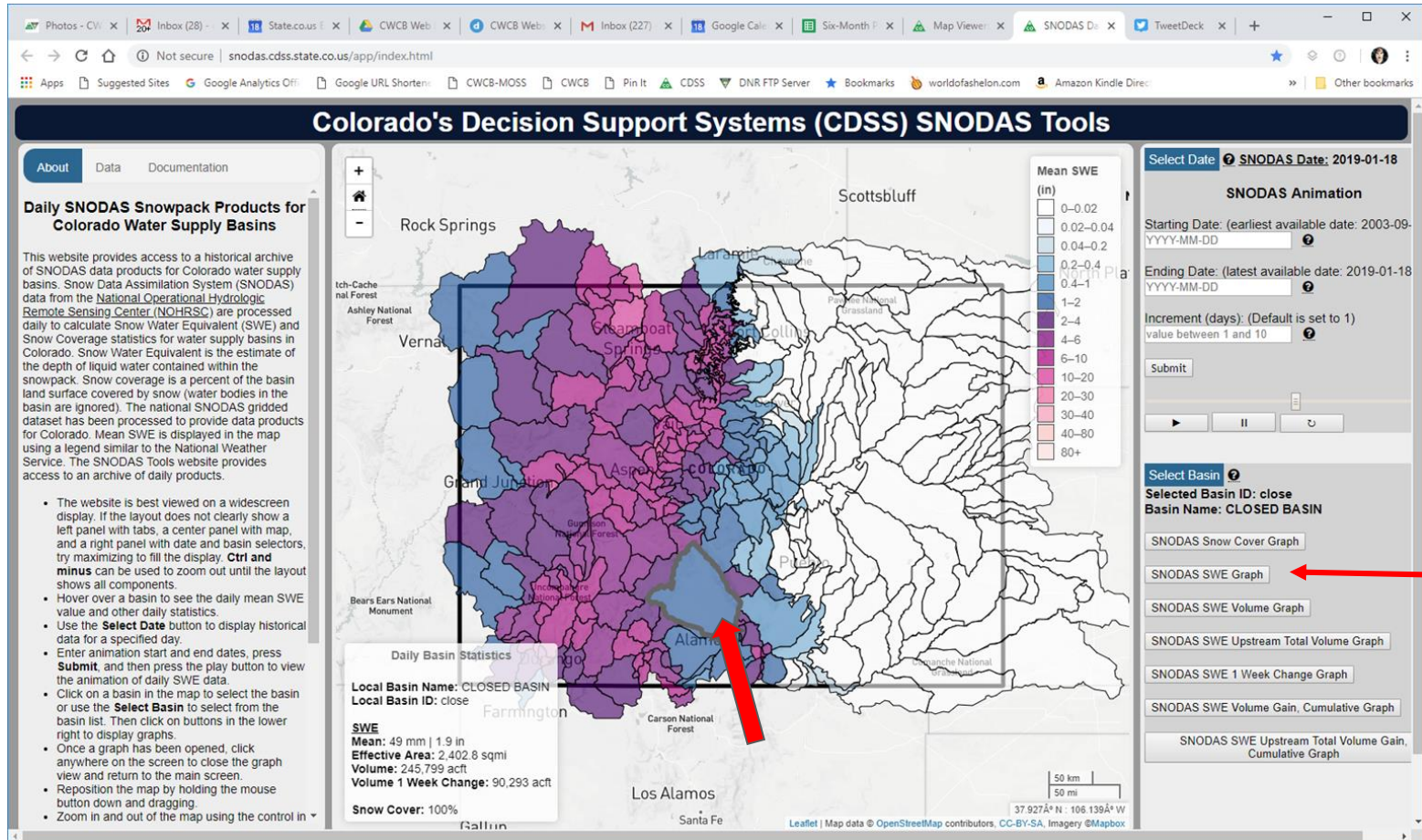
SNODAS SWE Volume Gain, Cumulative Graph

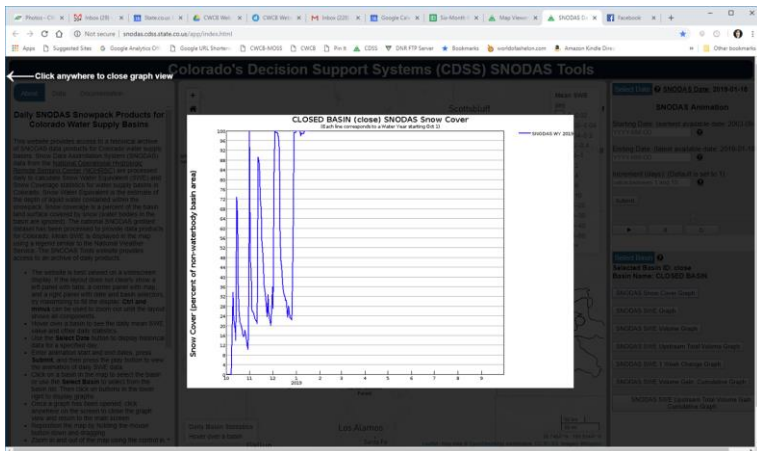
SNODAS SWE Upstream Total Volume Gain, Cumulative Graph

Arrow over or click on a basin for more info

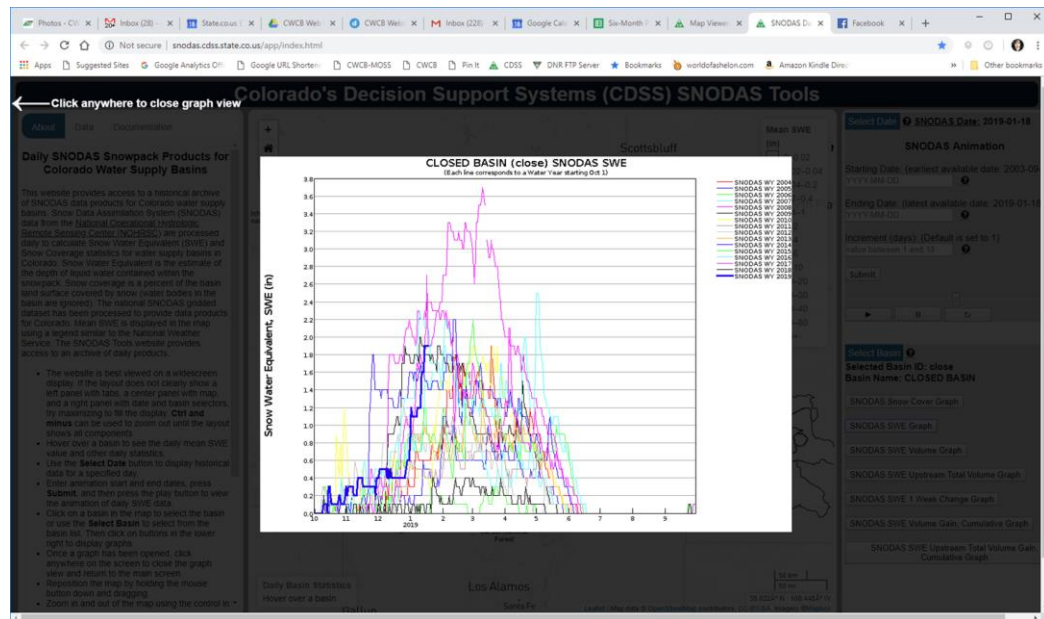


You can view graphs of data for the selected basin:

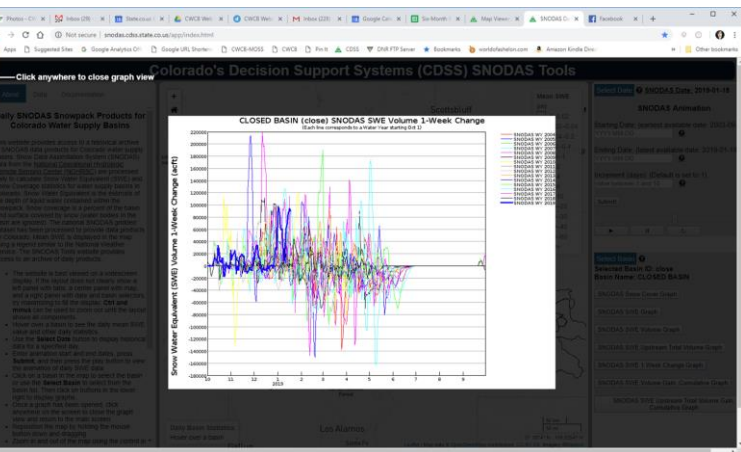




Snow Cover



SWE



1 Week Change

Links

SNODAS Tools: <http://snodas.cdss.state.co.us/app/index.html>

SNODAS Training Video -

<https://www.youtube.com/watch?v=h6bgRP07C6U&t=6s>

Snowpack Assessment Viewer (SNODAS data + DWR data)

<https://gis.colorado.gov/dnrviewer/Index.html?viewer=cwcbsnodas>

Contact:

Carolyn Kemp: Carolyn.kemp@state.co.us



COLORADO'S
Decision Support Systems
CWCBC / DWR

Thank You!