

Report Generator Help Guide

Report Generator lets you create custom reports from multiple data sources.

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Report Generator Features - Overview

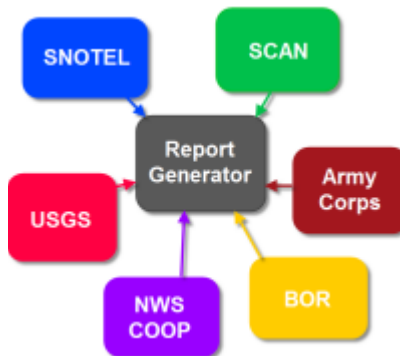
Open the [Report Generator](#) application.

A quick overview of the features and capabilities of Report Generator.

MT Hood Test Site (051)
Oregon SNOTEL/SCAN Site - 5570 ft

July 01 to Nov 02 10:00 to 10:00 PST (PST)
"Precipitation (mm) is based on 10-min"

Date	Snow Water Equivalent (mm)	Snow Depth (in)	Precipitation Accumulation (in)	Air Temperature Maximum (deg F)	Air Temperature Minimum (deg F)	Air Temperature Average (deg F)
2013-10-26	0.0	0	0.3	61	40	51
2013-10-28	0.0	0	0.3	60	40	50
2013-10-29	0.0	0	0.3	57	42	46
2013-10-27	0.0	0	0.3	40	34	37
2013-10-26	0.4	1	4.0	35	28	32
2013-10-28	0.3	0	4.0	42	26	33
2013-10-29	0.4	0	4.0	42	30	36
2013-10-21	0.4	0	4.0	42	33	38
2013-11-01	0.2	0	4.3	60	33	41
2013-11-02	0.1	0	4.3	64	27	33
2013-11-03	0.0	0	0.0	59	20	28
2013-11-04	0.2	0	0.7	34	30	31
2013-11-06	2.0	40	7.4	38	33	36
2013-11-08	3.0	6	8.4	42	27	28
2013-11-07	2.0	0	0.0	42	31	20
2013-11-09	3.3	40	0.0	33	30	31
2013-11-08	3.8	10	10.4	38	30	33
2013-11-10	3.8	11	10.4	47	39	43
2013-11-11	3.8	0	10.4	49	40	40



Report Generator is a web application developed by the Natural Resources Conservation Service (NRCS) National Water and Climate Center (NWCC).

The application uses long-term snowpack, precipitation, reservoir, streamflow, and soils data from a variety of quality-controlled sources to create reports.

Users can choose from predefined templates or build custom reports.

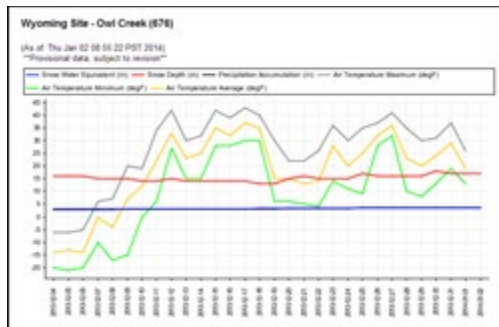
Data from tabular reports may be exported to different formats, including comma-separated value (CSV) files. Charts can be saved to graphics formats, such as JPG and PNG.

The **Report Generator** network incorporates data from many agency databases. The NRCS snow survey flagship database, the Water and Climate Information System (WCIS), provides a wealth of data, including manually-collected snow course data and information from automated Snow Telemetry (SNOTEL) and Soil Climate Analysis Network (SCAN) stations across the United States.

Report Generator also uses precipitation, streamflow, and reservoir data from the U.S. Army Corps of Engineers (USACE), the U.S. Bureau of Reclamation (BOR), the Applied Climate Information System (ACIS), the U.S. Geological Survey (USGS), various water districts and other entities.

In addition to creating reports, **Report Generator** lets you view information on sites, including "metadata," such as elevation, latitude/longitude and hydrologic unit code (HUC).

View photos of the site, including a site map (in Google maps when available).



Report Generator creates reports in both tabular and chart format. Single-station and multiple-station charting is also supported. Data may be displayed in either English or Metric units.

Who can benefit from using these data and products?

Farmers, municipalities, water and hydroelectric utilities, environmental organizations, fish and wildlife managers, tribal nations, reservoir managers, recreationists, wetlands managers, urban developers, transportation departments, and research organizations regularly use our data

Create a Single Station Report

This tutorial describes how to create a custom report for a single station in Report Generator. The example will use a SNOTEL station (Site 526, Hogg Pass) to create a report which compares snow water equivalent (SWE) and snow depth data for the current year and the previous year.

Step 1: Select station

Start Report Generator.

Select the **Create/Modify Report** tab.

Add the Hogg Pass station to the Selected Stations list. In **Select network**: select **SNOTEL** from the dropdown list.

In **Enter station(s)**: enter **526** (the station ID for Hogg Pass). Optionally, enter the first few characters of the Station Name to activate the auto-fill capability.

Select the **Add** button to add Station 526 to the Selected Stations list.

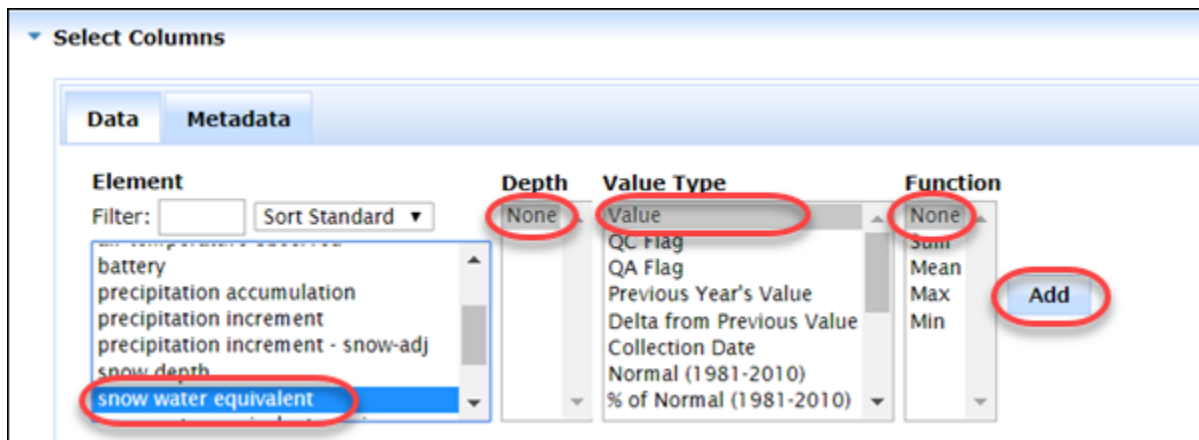
The Hogg Pass station is now the selected station for the custom report.

Step 2: Select columns

In the Select Columns pane, ensure the **Data** tab is selected.

In the **Element** area, select **snow water equivalent**. Select Depth = **None**, Value Type = **Value**, Function = **None**.

Select the **Add** button to add the element to the Manage Selected Columns list.



In the **Element** area, select **snow water equivalent**. Change the **Value Type** to **Previous Year's Value**.

Select the **Add** button to add the element to the Manage Selected Columns list.

In the **Element** area, select **snow depth**. Select Depth = **None**, Value Type = **Value**, Function = **None**.

Select the **Add** button to add the element to the Manage Selected Columns list.

Repeat steps 6 and 7, using **Previous Year's Value** as the Value Type. The screen should look similar to the following.

Select Columns

Data **Metadata**

Filter: Sort Standard ▾

Element	Depth	Value Type	Function
air temperature minimum	None	Value	None
air temperature observed		QC Flag	Sum
battery		QA Flag	Mean
precipitation accumulation		Previous Year's Value	Max
precipitation increment		Delta from Previous Value	Min
precipitation increment - snow-adj		Collection Date	
snow depth		Normal (1981-2010)	
		% of Normal (1981-2010)	

Add

Manage Selected Columns

	Data Type	Element Depth	Function	Value Type
<input checked="" type="checkbox"/>	snow water equivalent			Value
<input type="checkbox"/>	snow water equivalent			Previous Year's Value
<input type="checkbox"/>	snow depth			Value
<input type="checkbox"/>	snow depth			Previous Year's Value

[Remove Selected Columns](#) [Remove All](#)

Move Up
Move Down

Step 3: Determine column order

The next step is to determine the order in which the columns will be displayed.

To change the order of a column. Enable (select) the checkbox to the left of the snow water equivalent Previous Year's Value data type.

Select the **Move Down** button. The snow water equivalent Previous Year's Value will move down one level in order.

Manage Selected Columns

	Data Type	Element Depth	Function	Value Type
<input checked="" type="checkbox"/>	snow water equivalent			Value
<input checked="" type="checkbox"/>	snow water equivalent			Previous Year's Value
<input type="checkbox"/>	snow depth			Value
<input type="checkbox"/>	snow depth			Previous Year's Value

[Remove Selected Columns](#) [Remove All](#)

Move Up
Move Down

Manage Selected Columns

	Data Type	Element Depth	Function	Value Type
<input checked="" type="checkbox"/>	snow water equivalent			Value
<input type="checkbox"/>	snow depth			Value
<input checked="" type="checkbox"/>	snow water equivalent			Previous Year's Value
<input type="checkbox"/>	snow depth			Previous Year's Value

[Remove Selected Columns](#) [Remove All](#)

Move Up
Move Down

The report will contain snow water equivalent and snow depth data for the current year, followed by snow water equivalent and snow depth data for the previous year for the Hogg Pass station (526).

Now that the data types and order of the columns are complete, it's time to determine the layout of the final report.

Step 4: Determine report layout

For this example, the initial report will be generated with a frequency of monthly and a time series layout.

In the **Select Time Period, Layout, and Units** pane, select the following:

Frequency = Monthly

Report Instantaneous Data As = Start of Period

Time Period = Current Calendar Year and All Months

Layout = Time Series

Units = English

Output Format = HTML

Select Time Period, Layout, and Units

Interval/Duration
Daily
Monthly
Seasonal
Hourly
Water Year
Calendar Year

Time Period
Current Month
Last Month
Last 12 Months
Current Water Year
Current Calendar Year
Period of record
All Months
Jan
Feb
Mar
Apr
May

Report Instantaneous Data As:
Start of Period
End of Period

Custom Begin Date **Custom End Date**
[Date Picker] [Date Picker]
☐ Make custom dates relative to today

Layout
☒ Time Series
☐ Stacked Time Series
☐ Water Year - Group by Month
☐ Calendar Year - Group by Month
☐ Chart

Units
☒ English
☐ Metric

Output Format
☒ HTML
☐ CSV

Reset View Report

The report will contain snow water equivalent and snow depth data for the current year, followed by snow water equivalent and snow depth data for the previous year for the Hogg Pass station (526).

Now that the data types and order of the columns are complete, it's time to determine the layout of the final report.

Step 5: Create the report

Now that the station has been identified, the data types and their order defined, and the look and feel of the final report determined, it's time to view the report and analyze the results.

Select the **View Report** button. The results of the report are displayed in the **View Report** tab.

Note that snow water equivalent and snow depth data are displayed for the current and previous year for the Hogg Pass station (526).

Create/Modify ReportView ReportReport Details

Output FormatLayoutUnitsTime PeriodFit Table To Screen

Hogg Pass (526)

Oregon SNOTEL Site - 4790 ft

Reporting Frequency: Monthly; Date Range: Jan 2018 to Dec 2018

(As of: Fri Oct 12 07:44:41 GMT-08:00 2018)
 Provisional data, subject to revision

Date	Hogg Pass (526) Snow Water Equivalent (in) Start of Month Values	Hogg Pass (526) Snow Depth (in) Start of Month Values	Hogg Pass (526) Snow Water Equivalent (in) Start of Month Values	Hogg Pass (526) Snow Depth (in) Start of Month Values
Jan 2018	3.4	9	14.4	50
Feb 2018	9.3	28	22.1	60
Mar 2018	10.9	42	29.6	81
Apr 2018	13.5	36	25.4	58
May 2018	4.8	14	21.0	46
Jun 2018	0.0	0	0.0	0
Jul 2018	0.0	0	0.0	0
Aug 2018	0.0	0	0.0	0
Sep 2018	0.0	0	0.0	0
Oct 2018	0.0	0	0.0	0
Nov 2018			0.0	0
Dec 2018			1.2	6

To save the results of the report in comma-separated value format, select **CSV** from the **Output Format** dropdown list. A web page will open with the data from the report displayed.


```

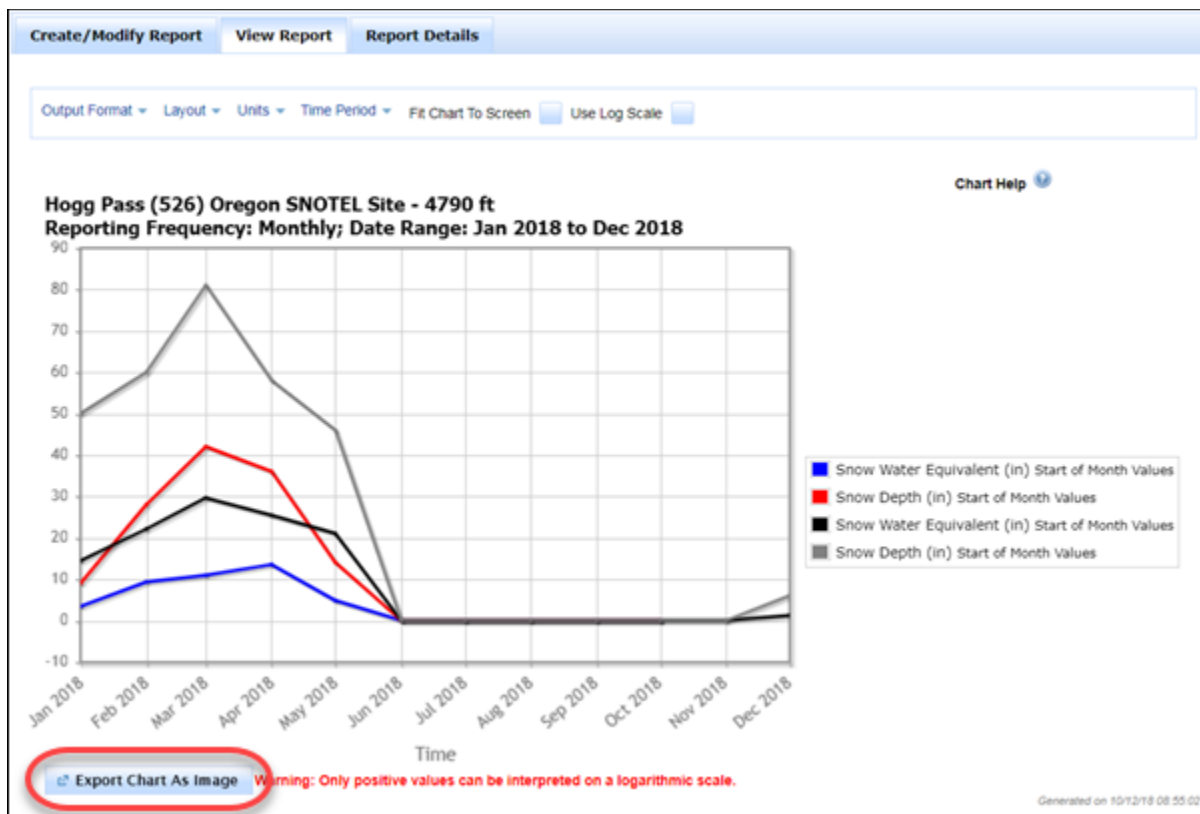
***** WARNING *****
#
# The data you have obtained from this automated Natural Resource Conservation Service
# database are subject to revision regardless of indicated Quality Assurance level.
# Data are released on condition that neither the NRCS nor the United States Government
# may be held liable for any damages resulting from its use.
#
# Help and Tutorials: http://www.nrcs.nrcs.usda.gov/report\_generator/report\_generator\_landing.htm
# Support Contact: nrcsprod@hidetel.service-now.com
#
#-----
#
# Reporting Frequency: Monthly
# Date Range: Jan 2018 to Dec 2018
# Report Instantaneous Data As: Start of Month
#
# Data for the following site(s) are contained in this file:
#
#   SHOTEL S26: Hogg Pass, OR
#
# Data items provided in this file:
#
# Element Name      Value Type      Function Type      Function Duration      Base Data      Measurement Units      Sensor Depth      Element Code      Description
# Snow Water Equivalent Value      None      Instantaneous - Start of Month      N/A      Inches      N/A      N/A      N/A      Depth of water that
# would theoretically result if the entire snowpack were melted Instantaneously
# Snow Depth Value      None      Instantaneous - Start of Month      N/A      Inches      N/A      N/A      N/A      Total snow depth
# Snow Water Equivalent Previous year's value None      Instantaneous - Start of Month      N/A      Inches      N/A      N/A      N/A      Depth of water that
# would theoretically result if the entire snowpack were melted Instantaneously
# Snow Depth Previous year's value None      Instantaneous - Start of Month      N/A      Inches      N/A      N/A      N/A      Total snow depth
#
# Quality Control flags included:
#
# Flag Name      Description
# V Valid      Validated Date
# H No Profile      No profile for automated validation
# E Edit      Edit, minor adjustment for sensor noise
# B Back Estimate      Regression-based estimate for homogenizing collocated Snow Course and Snow Pillow data sets
# K Estimate      Estimate
# X External Estimate      External estimate
# S Suspect      Suspect data
#
# Quality Assurance flags included:
#
# Flag Name      Description
# U Unknown      Unknown
# R Raw      No Human Review
# P Provisional      Preliminary Human Review
# A Approved      Processing and Final Review Completed
#
#-----
#
# Hogg Pass (S26)
# Oregon SHOTEL site - 4790 ft
# Reporting Frequency: Monthly; Date Range: Jan 2018 to Dec 2018
#
# As of: Oct 12, 2018 7:51:29 AM GMT-08:00
#
# Date,Hogg Pass (S26) Snow Water Equivalent (in) Start of Month Values,Hogg Pass (S26) Snow Depth (in) Start of Month Values,Hogg Pass (S26) Snow Water Equivalent (in) Start of
# Month Values,Hogg Pass (S26) Snow Depth (in) Start of Month Values
# Jan 2018,0.4,0.14,4.50
# Feb 2018,0.3,25.22,1.60
# Mar 2018,10.0,42.29,0.82
# Apr 2018,13.0,36.25,4.50
# May 2018,4.0,14.22,0.40
# Jun 2018,0.0,0.0,0.0
# Jul 2018,0.0,0.0,0.0
# Aug 2018,0.0,0.0,0.0
# Sep 2018,0.0,0.0,0.0
# Oct 2018,0.0,0.0,0.0
# Nov 2018,,,0.0,0
# Dec 2018,,,1.2,0

```

Right-click on this web page and select **Save as...**

Save the file with a .csv extension.

To change the report from tabular to chart view, select **Chart** from the **Layout** drop-down menu. The table will display as a chart, similar to the one shown below.



Create a Multi-Station Report

This tutorial describes how to create custom reports for multiple stations in Report Generator. The example will use several SNOTEL (Snow Telemetry) stations in the state of Oregon to compare standard elements and generate two reports: a multi-station report grouped by element and a multi-station chart.

Step 1: Select stations

Start Report Generator.

Select the **Create/Modify Report** tab.

Add stations to the Selected Stations list. In **Select network**: select **SNOTEL** from the dropdown list.

In **Enter station(s)**: enter **619** (the station ID for McKenzie). Optionally, enter the first few characters of the Station Name to activate the auto-fill capability.

Select the **Add** button to add Station 619 to the Selected Stations list.

Select Stations

Select network: SNOTEL

Enter station(s): 619 Add

Advanced Search

Selected Stations (1)

Station Id	Name	State	Network	Actions
619	McKenzie	OR	SNTL	Remove

Remove All Sort By: Name

Repeat Steps #4 and #5 to add each of these stations to the Selected Stations list:

- 719 Roaring River
- 733 Santiam Junction

When finished, there should be three stations in the Selected Stations list.

Station Id	Name	State	Network	Actions
619	Mckenzie	OR	SNTL	Remove
719	Roaring River	OR	SNTL	Remove
733	Santiam Jct.	OR	SNTL	Remove

Step 2: Select columns

The next step is to determine the data columns which will be part of the multi-station report. For this tutorial, we will add two data columns (snow water equivalent and precipitation accumulation) and a metadata column (HUC) to display for the multiple stations.

Add the data columns. In the **Select Columns** pane, select the **Data** tab.

For element, select **air temperature average**. Depth = **None**, Value Type = **Value**, Function = **None**.

Select the **Add** button to add the element to the Manage Selected Columns list.

Repeat Steps 2 and 3, this time selecting the **snow depth** element.

The display should look similar to the following.

Element	Depth	Value Type	Function
air temperature average	None	Value	None
snow depth	None	Value	None

	Data Type	Element Depth	Function	Value Type
<input checked="" type="checkbox"/>	air temperature average			Value
<input checked="" type="checkbox"/>	snow depth			Value

Step 3: Determine report layout

For this example, the report will be generated with a frequency of **Water Year**, a time period of the **Last 3 Water Years** and **Water Year - Group by Month** layout.

In the **Select Time Period, Layout, and Units** pane, select the following:

Frequency = Monthly

Report Instantaneous Data As = Start of Period

Time Period = Last 12 Months, All Months

Layout = Stacked Time Series

Units = English

Output Format = HTML

Select Time Period, Layout, and Units

Interval/Duration
Daily
Monthly
Semi-Monthly
Hourly
Water Year
Calendar Year

Time Period
Current Month
Last Month
Last 12 Months
Current Water Year
Current Calendar Year
Period of Record

Layout
☐ Time Series
☒ Stacked Time Series
☐ Water Year - Group by Month
☐ Calendar Year - Group by Month
☐ Chart

Units
☒ English
☐ Metric

Output Format
☒ HTML
☐ CSV

Report Instantaneous Data As:
Start of Period
End of Period

Custom Begin Date **Custom End Date**
[] []
☐ Make custom dates relative to today






Reset **View Report**

Step 4: Generate the report

Now that the stations have been identified, the data types and their order defined, and the look and feel of the final report determined, it's time to generate the report and analyze the results.

Select the **View Report** button. The results of the report are displayed in the **View Report** tab.






Note that Air Temperature Average and Snow Depth data are displayed for the last 12 months for the three selected stations. Note, too, that Report Generator automatically added the Site ID and Site Name into the report.

Output Format  Layout  Units  Time Period  Fit Table To Screen 

Reporting Frequency: Monthly; Date Range: Oct 2017 to Oct 2018

(As of: Fri Oct 12 10:25:11 GMT-08:00 2018)

Provisional data, subject to revision

Date 	Station Id 	Station Name 	Air Temperature Average (degF) 	Snow Depth (in) Start of Month Values 
Oct 2017	619	Mckenzie	39	0
Nov 2017	619	Mckenzie	35	0
Dec 2017	619	Mckenzie	29	14
Jan 2018	619	Mckenzie	34	27
Feb 2018	619	Mckenzie	29	41
Mar 2018	619	Mckenzie	33	81
Apr 2018	619	Mckenzie	38	64
May 2018	619	Mckenzie	46	53
Jun 2018	619	Mckenzie	50	0
Jul 2018	619	Mckenzie	59	0
Aug 2018	619	Mckenzie	57	0
Sep 2018	619	Mckenzie	47	0
Oct 2018	619	Mckenzie		0
Oct 2017	719	Roaring River	44	0
Nov 2017	719	Roaring River	36	0
Dec 2017	719	Roaring River	36	8
Jan 2018	719	Roaring River	38	15
Feb 2018	719	Roaring River	31	25
Mar 2018	719	Roaring River	34	56
Apr 2018	719	Roaring River	39	42
May 2018	719	Roaring River	49	28
Jun 2018	719	Roaring River	52	0
Jul 2018	719	Roaring River	62	0
Aug 2018	719	Roaring River	60	0
Sep 2018	719	Roaring River	51	0
Oct 2018	719	Roaring River		0
Oct 2017	733	Santiam Jct.	44	0
Nov 2017	733	Santiam Jct.	36	0
Dec 2017	733	Santiam Jct.	34	4

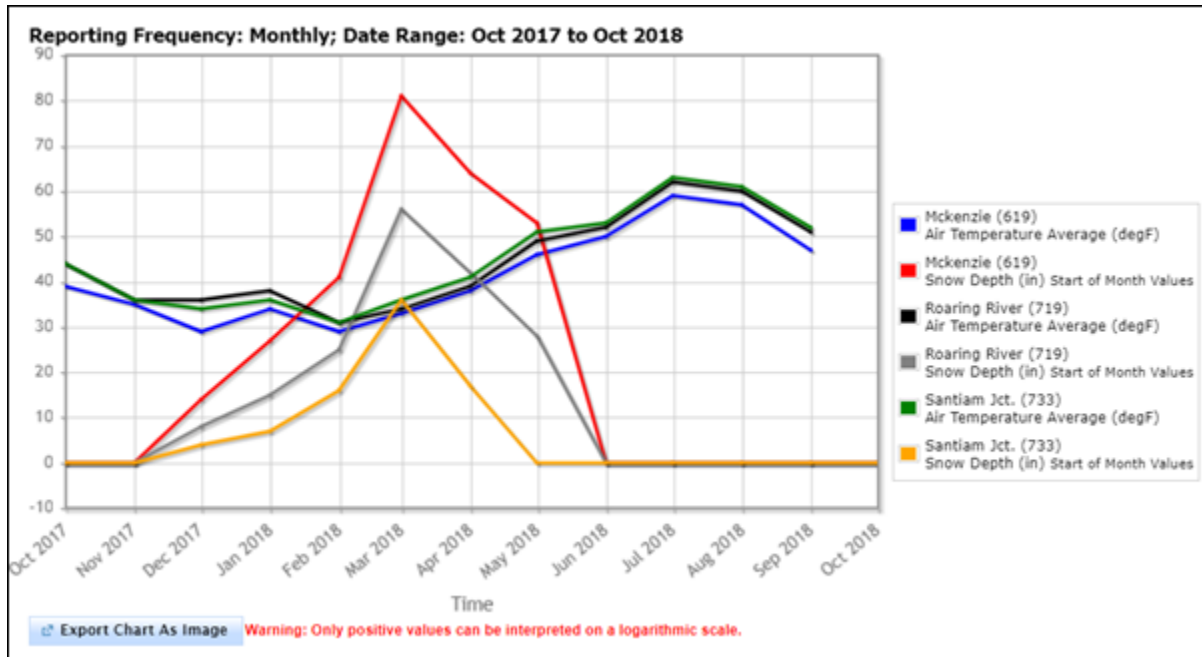
Tip: To save the results of the report, select the **Export** icon (). Use the **Layout**, **Units**, and **Time Period** menus to change the output of the report.

The final step in this tutorial is to create a multi-station chart.

In the **Layout** dropdown list, select **Chart**.

Select the button.

Depending on the time of year the tutorial is completed, a chart similar to the one shown displays.



Create a Daily Soil Summary

This tutorial describes how to create a daily soil data summary for a single station in Report Generator. The example will use a Soil Climate Analysis Network (SCAN) station (Site 2015, Adams Ranch) to create a report which summarizes soil moisture and soil temperature at three depths for the last 30 days.

Step 1: Select station

1. Start Report Generator.
2. Select the **Create/Modify Report** tab.
3. Add the Adams Ranch SCAN station to the Selected Stations list. In **Select network:** select **SCAN** from the dropdown list.
4. In **Enter station(s):** enter **2015** (the station ID for Adams Ranch). Optionally, enter the first few characters of the Station Name to activate the auto-fill capability.
5. Select the **Add** button to add Station 2015 to the Selected Stations list.

Create/Modify Report View Report Report Details

Select Stations

Select network: SCAN
 Enter station(s): 2015 Add

Advanced Search

Station Id	Name	State	Network	Actions
2015	Adams Ranch #1	NM	SCAN	Remove

Remove All Sort By: Name

The Adams Ranch station is now the selected station for the custom report.

Step 2: Select columns

The next step is to determine the data columns which will be part of the single station report. For this tutorial, we will add columns to display the previous 30 day's soil moisture percentage at three depths (2", 8", and 20") for the Adams Ranch station.

1. In the Select Columns pane, ensure the **Data** tab is selected.
2. In the **Element** area, select **soil moisture percent**.
3. Set **Depth** to -2", **Value Type** to Value, **Function** to Mean, and **Function Interval** to Hourly.
4. Select the **Add** button to add the element to the Manage Selected Columns list.

Data Metadata

Element: Filter: Sort Standard

Element	Depth	Value Type	Function	Base Data	
real dielectric constant	-2"	Value	None	Daily	Add
relative humidity	-4"	QC Flag	Sum	Monthly	
relative humidity enclosure	-8"	QA Flag	Mean	Semi-Monthly	
relative humidity maximum	-20"	Previous Year's Value	Max	Hourly	
relative humidity minimum	-40"	Delta from Previous Value	Min		
relative humidity minimum		Collection Date			
salinity		Normal (1981-2010)			
soil moisture percent		% of Normal (1981-2010)			
		Average (1981-2010)			

5. Repeat Steps 3 and 4, using the **Depths** -8" and -20".
6. Select the **Add** button to add each depth to the Manage Selected Columns list.

Data **Metadata**

Filter: Sort Standard ▼

Element	Depth	Value Type	Function	Base Data
real dielectric constant	-2"	Value	None	Daily
relative humidity	-4"	QC Flag	Sum	Monthly
relative humidity enclosure	-8"	QA Flag	Mean	Semi-Monthly
relative humidity maximum	-20"	Previous Year's Value	Max	Hourly
relative humidity minimum	-40"	Delta from Previous Value	Min	
salinity		Collection Date		
soil moisture percent		Normal (1981-2010)		
		% of Normal (1981-2010)		
		Average (1981-2010)		

Add

Manage Selected Columns				
	Data Type	Element Depth	Function	Value Type
<input checked="" type="checkbox"/>	soil moisture percent	-2	Mean Of Hourly Values	Value
<input type="checkbox"/>	soil moisture percent	-8	Mean Of Hourly Values	Value
<input type="checkbox"/>	soil moisture percent	-20	Mean Of Hourly Values	Value

[Remove Selected Columns](#) [Remove All](#)

[Move Up](#) [Move Down](#)

- Next, in the **Element** area, select **soil temperature observed**.
- Set **Depth** to -2", **Value Type** to Value, **Function** to Mean, and **Function Interval** to Hourly.
- Select the **Add** button to add the element to the Manage Selected Columns list.

Data **Metadata**

Filter: Sort Standard ▼

Element	Depth	Value Type	Function	Base Data
soil moisture percent average	-2"	Value	None	Daily
soil moisture percent maximum	-4"	QC Flag	Sum	Monthly
soil moisture percent minimum	-8"	QA Flag	Mean	Semi-Monthly
soil moisture percent minimum	-20"	Previous Year's Value	Max	Hourly
soil temperature average	-40"	Delta from Previous Value	Min	
soil temperature maximum		Collection Date		
soil temperature minimum		Normal (1981-2010)		
soil temperature observed		% of Normal (1981-2010)		
		Average (1981-2010)		

Add

- Repeat Steps 8 and 9, using the **Depths** -8" and -20".
- Select the **Add** button to add each depth to the Manage Selected Columns list.

Element	Depth	Value Type	Function	Base Data
soil temperature average	-2"	Value	None	Daily
soil temperature maximum	-4"	QC Flag	Sum	Monthly
soil temperature minimum	-8"	QA Flag	Mean	Semi-Monthly
soil temperature observed	-20"	Previous Year's Value	Max	Hourly
solar radiation average	-40"	Delta from Previous Value	Min	
solar radiation/langley total		Collection Date		
vapor pressure - partial		Normal (1981-2010)		
		% of Normal (1981-2010)		

✓	Data Type	Element Depth	Function	Value Type
<input type="checkbox"/>	soil moisture percent	-2	Mean Of Hourly Values	Value
<input type="checkbox"/>	soil moisture percent	-8	Mean Of Hourly Values	Value
<input type="checkbox"/>	soil moisture percent	-20	Mean Of Hourly Values	Value
<input type="checkbox"/>	soil temperature observed	-2	Mean Of Hourly Values	Value
<input type="checkbox"/>	soil temperature observed	-8	Mean Of Hourly Values	Value
<input type="checkbox"/>	soil temperature observed	-20	Mean Of Hourly Values	Value

Remove Selected Columns Remove All

Soil moisture and soil temperature data at depths of -2", -8", and -20" will be reported on an hourly mean basis for the Adams Ranch SCAN station (2015).

Now that the data types are selected, it's time to determine the layout of the final report.

Step 3: Determine report layout

For this example, the initial report will be generated with a frequency of monthly and Standard (non-grouped) layout.

1. In the **Select Time Period, Layout, and Units** pane, select the following:

Frequency = Daily
 Report Instantaneous Data As = Start of Period
 Time Period = Last 30 Days, All Months, and All Days
 Layout = Time Series
 Units = English
 Output Format = HTML

Select Time Period, Layout, and Units

Interval/Duration: Daily

Time Period: Today, Last 30 Days, All Months, All Days

Layout: Time Series, Stacked Time Series, Water Year - Group by Month, Calendar Year - Group by Month, Chart

Units: English, Metric

Output Format: HTML, CSV


Report Instantaneous Data As: Start of Period, End of Period

Custom Begin Date: [] Custom End Date: []

☐ Make custom dates relative to today

Step 4: Generate the report

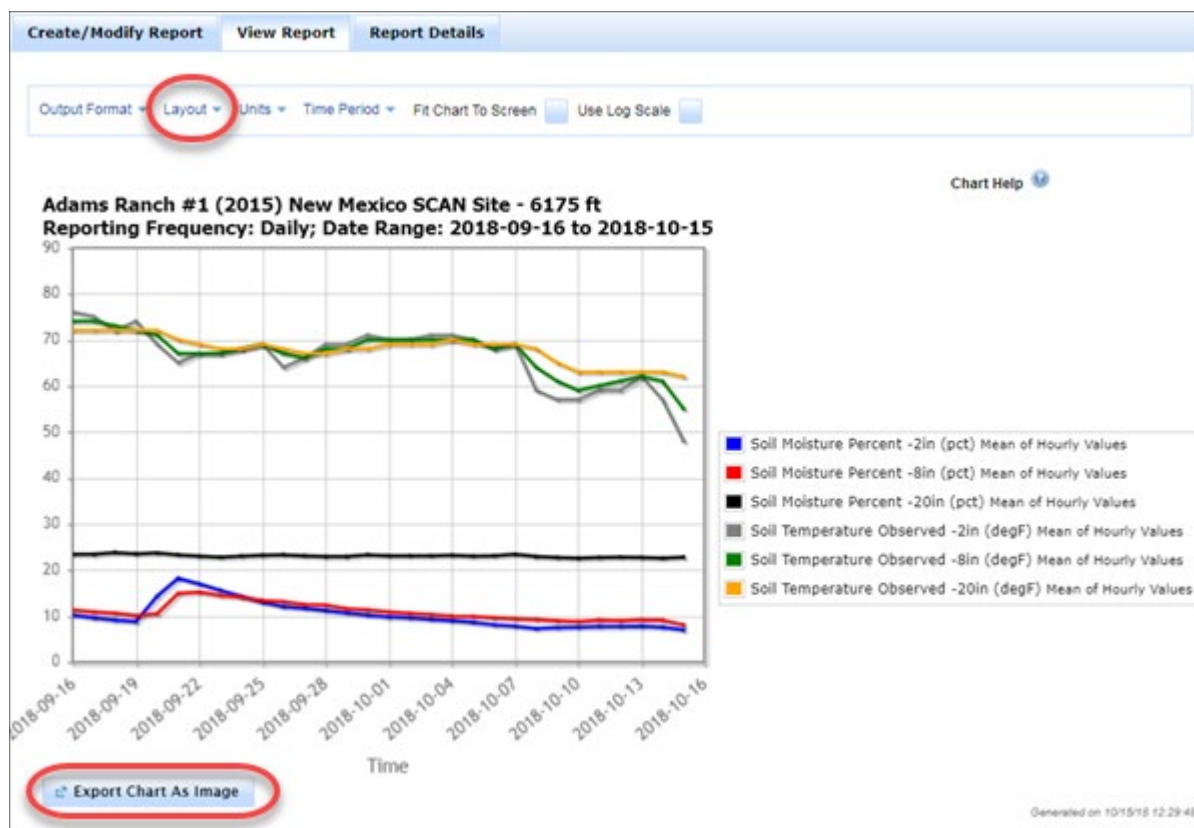
Now that the station has been identified, the data types and their order defined, and the look and feel of the final report determined, it's time to generate the report and analyze the results.

1. Select the  button. The results of the report are displayed in the **View Report** tab.


Adams Ranch #1 (2015) New Mexico SCAN Site - 6175 ft Reporting Frequency: Daily; Date Range: 2018-09-16 to 2018-10-15						
(As of: Mon Oct 15 11:27:41 GMT-08:00 2018) **Provisional data, subject to revision**						
Date	Adams Ranch #1 (2015) Soil Moisture Percent -2in (pct) Mean of Hourly Values	Adams Ranch #1 (2015) Soil Moisture Percent -8in (pct) Mean of Hourly Values	Adams Ranch #1 (2015) Soil Moisture Percent -20in (pct) Mean of Hourly Values	Adams Ranch #1 (2015) Soil Temperature Observed -2in (degF) Mean of Hourly Values	Adams Ranch #1 (2015) Soil Temperature Observed -8in (degF) Mean of Hourly Values	Adams Ranch #1 (2015) Soil Temperature Observed -20in (degF) Mean of Hourly Values
2018-09-16	10.2	11.3	23.4	76	74	72
2018-09-17	9.6	10.9	23.4	75	74	72
2018-09-18	9.1	10.6	23.8	72	73	72
2018-09-19	8.8	10.1	23.5	74	72	72
2018-09-20	14.3	10.5	23.7	69	71	72
2018-09-21	18.2	14.9	23.3	65	67	70
2018-09-22	17.0	15.2	23.0	67	67	69
2018-09-23	15.6	14.5	22.8	67	67	68
2018-09-24	14.3	14.1	23.0	68	68	68
2018-09-25	13.0	13.4	23.2	69	69	69
2018-09-26	12.0	13.1	23.3	64	67	68
2018-09-27	11.7	12.5	23.1	66	66	67
2018-09-28	11.2	12.4	22.9	69	68	67
2018-09-29	10.7	11.6	22.9	69	68	68
2018-09-30	10.2	11.3	23.3	71	70	68
2018-10-01	9.8	10.9	23.1	70	70	69
2018-10-02	9.6	10.6	23.1	70	70	69

Note that mean hourly soil moisture and soil temperature data are displayed for three depths (-2", -8", and -20") for the last 30 days for the Adams Ranch station (2015).

2. To change the report from tabular to chart view, select **Chart** from the **Layout** drop-down menu.



Tip: To save the results of the report, select the **CSV** icon () from the **Output Format** dropdown list. Use the **Layout**, **Units**, and **Time Period** menus to change the output of the report.

Tip: To save the chart in a graphics format, select the  button. Right click the image and select **Save image as...** to save to a format such as .png or .jpg.

View Station Information Panel: Select Predefined Reports

This tutorial shows how to work with predefined reports in Report Generator. There are two types of predefined reports:

- **Data Reports.** These reports are based on several standard elements (such as precipitation or snow depth), values, and time periods.
- **Metadata Reports.** These reports are based on current and historic sensor data and site information.

Note: This tutorial uses the set of the Data Reports and Metadata Reports that are available in the current release of Report Generator. Your version of Report Generator may have additional reports available.

The tutorial consists of three, short lessons:

- **Lesson 1** shows how to display the different predefined Data Reports in the **View Reports** pane.

- **Lesson 2** shows how to take the results in the **View Reports** pane and save them to a .csv (comma-separated value) file for further analysis.
- **Lesson 3** shows how to quickly change the layout of a Data Report from tabular view to chart view.

Lesson 1: View Report

1. Start Report Generator.
2. Select the **Create/Modify Report** tab.
3. Choose the station. In the **Enter station(s)** field, enter the following station ID: 526.
4. Station 526, Hogg Pass, will be added to the Selected Stations list. When a station is added, the **View Station Information** link appears in the upper left corner of the application.

View Station Information

Create/Modify Report **View Report** **Report Details**

Select Stations

Select network: SNOTEL

Enter station(s): **Add**

[Advanced Search](#)

Selected Stations (1)				
Station Id	Name	State	Network	Actions
526	Hogg Pass	OR	SNTL	Remove

[Remove All](#) Sort By:

5. Select the **View Station Information** link. The Station View panel will open, displaying the station name, station metadata (such as Network, County, Elevation, Latitude, and Longitude), a site photo and a link to the site in Google Maps.

Hide Station Information

Station View

Reports Metadata Reports

Hogg Pass

Station Id: 526
 State: OR
 Network: SNOTEL
 County: Linn
 Elevation: 4790 ft
 Latitude: 44.42
 Longitude: -121.86
 Huc: 170900040201
 Reporting Since: 1978-10-01
 Reporting Until: Active

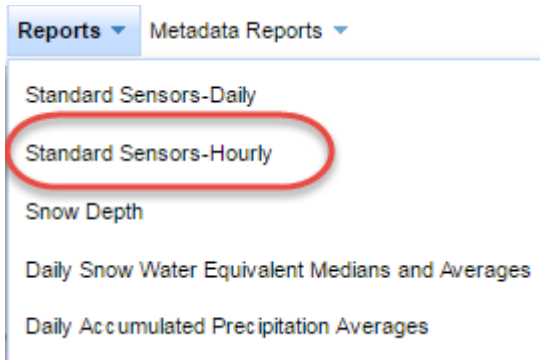
[Google Maps](#)

[Site Contact](#)

1: Hogg Pass (526)

Caution: Listed coordinates are only approximate.

6. From the Station View pane, hover over the the **Reports** dropdown list and select **Standard Sensors-Hourly**.



7. A report opens with hourly standard sensor data for the Hogg Pass site for the last seven days.

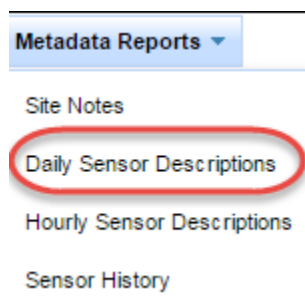
Hogg Pass (526)
Oregon SNOTEL Site - 4790 ft
Reporting Frequency: Hourly; Date Range: 2016-10-18 14:00 to 2016-10-25 13:00

(As of: Tue Oct 25 13:20:05 PDT 2016)

Provisional data, subject to revision

Date ↕	Snow Water Equivalent (in) ↕	Snow Depth (in) ↕	Precipitation Accumulation (in) ↕	Air Temperature Observed (degF) ↕
2016-10-18 14:00	1.2	6		36
2016-10-18 15:00	1.2	6		36
2016-10-18 16:00	1.2	5		37
2016-10-18 17:00	1.2	5		37
2016-10-18 18:00	1.2	5		37
2016-10-18 19:00	1.1	4		37
2016-10-18 20:00	1.1	4		37

8. Next, select **Daily Sensor Descriptions** from the **Metadata Reports** dropdown list. The data changes to reflect the complete list of sensor descriptions for the Hogg Pass site.



Oregon SNTL Site Hogg Pass (526) - Daily Sensors for

2016-October-25 NRCS National Water and Climate Center

Daily sensors report a summary value for the previous day.

Hourly sensors report a summary value for the previous hour.

Instantaneous sensors report a single observation on the hour.

Instantaneous sensors are included with both Daily and Hourly sensor selections.

Instantaneous sensors for a Daily sensor selections are the midnight observation.

*The use of a particular manufacturer's instrument does not constitute an endorsement of that instrument or manufacturer.

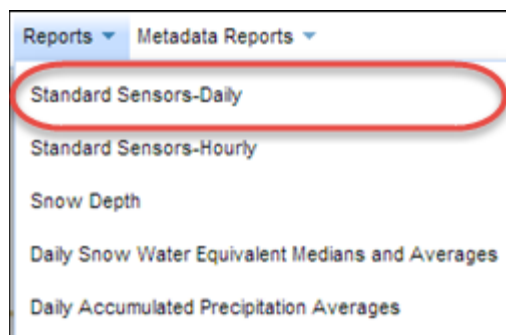
Label	Element	Unit	Instrument*	Ecode	Function Interval	Ordinal	Sensor Height
[E.I-O:H]				[E]	[I]	[O]	[H]
WTEQ.I-1	Snow Water Equivalent	In	100" Transducer - Sensotec	WTEQ	INSTANTANEOUS	1	unknown
PREC.I-1	Precipitation Accumulation	In	200" Transducer - Sensotec	PREC	INSTANTANEOUS	1	unknown
TOBS.I-1	Air Temperature Observed	Degc	Ysi Extended Range	TOBS	INSTANTANEOUS	1	unknown
TMAX.D-1	Air Temperature Maximum	Degc	Ysi Extended Range	TMAX	1 DAY	1	unknown
TMIN.D-1	Air Temperature Minimum	Degc	Ysi Extended Range	TMIN	1 DAY	1	unknown
TAVG.D-1	Air Temperature Average	Degc	Ysi Extended Range	TAVG	1 DAY	1	unknown
SNWD.I-1	Snow Depth	In	Unknown - Linear Equation	SNWD	INSTANTANEOUS	1	unknown
SNWD.I-2	Snow Depth	In	Unknown - Linear Equation	SNWD	INSTANTANEOUS	2	unknown
BATT.I-1	Battery	Volt	Unknown - Linear Equation	BATT	INSTANTANEOUS	1	unknown
BATT.I-2	Battery	Volt	Unknown - Linear Equation	BATT	INSTANTANEOUS	2	unknown
BATT.I-3	Battery	Volt	Unknown - Linear Equation	BATT	INSTANTANEOUS	3	unknown
BATT.I-4	Battery	Volt	Unknown - Linear Equation	BATT	INSTANTANEOUS	4	unknown

Try the remaining selections in the **Reports** dropdown list to see what's available. You may also want to use the Time Period dropdown to modify the frequency and time period selections for the report.

Lesson 2: Export Data

This lesson uses components in the **View Report** tab to take the data from the **Standard Sensors-Daily** report and save it to a .csv (comma-separated value) file for further analysis.

1. Go to the **Reports** dropdown list and select **Standard Sensors-Daily**. The predefined report displays.



2. In the **View Report** tab, select **CSV** from the **Output Format** dropdown menu..

Create/Modify Report	View Report	Report Details
----------------------	-------------	----------------

Output Format ▾	Layout ▾	Units ▾	Time Period ▾	Fit Table To Screen <input type="checkbox"/>
-----------------	----------	---------	---------------	--

Hogg Pass (526)
Oregon SNOTEL Site - 4790 ft
Reporting Frequency: Daily; Date Range: 2016-09-26 to 2016-10-25

(As of: Tue Oct 25 12:43:17 PDT 2016)
 Provisional data, subject to revision

Date ▾	Snow Water Equivalent (in) ▾	Snow Depth (in) ▾	Precipitation Accumulation (in) ▾	Air Temperature Maximum (degF) ▾	Air Temperature Minimum (degF) ▾	Air Temperature Average (degF) ▾
2016-09-26	0.0	0	65.5	78	53	64
2016-09-27	0.0	0	65.5	69	49	58
2016-09-28	0.0	0	65.5	69	45	56
2016-09-29	0.0	0	65.5	62	45	52
2016-09-30	0.0	0	65.5	56	39	47
2016-10-01	0.0	0	0.0	43	37	39
2016-10-02	0.0	0	0.1	43	35	38
2016-10-03	0.0	0	0.2	44	34	39
2016-10-04	0.0	0	0.3	41	35	39
2016-10-05	0.0	0	1.5	42	35	40
2016-10-06	0.0	0	2.8	46	39	42
2016-10-07	0.3	0	2.9	49	44	47
2016-10-08	0.2	0	3.7	59	45	52
2016-10-09	0.2	0	3.7	58	45	50
2016-10-10	0.3	0	3.9	48	39	46
2016-10-11	0.2	0	4.3	47	36	39

3. A web page will open with the data from the report displayed.


```

#----- WARNING -----
#
# The data you have obtained from this automated Natural Resource Conservation Service
# database are subject to revision regardless of indicated Quality Assurance level.
# Data are released on condition that neither the NRCS nor the United States Government
# may be held liable for any damages resulting from its use.
#
# Help and Tutorials: http://www.wcc.nrcs.usda.gov/report\_generator/report\_generator\_landing.htm
#
# Support Contact: nrcsprod@midatl.service-now.com
#-----
#
# Reporting Frequency: Daily
# Date Range: 2016-09-26 to 2016-10-25
# Report Instantaneous Data As: Start of Day
#
# Data for the following site(s) are contained in this file:
#
# SNOTEL 526: Hogg Pass, OR
#
# Data items provided in this file:
#
# Element Name      Value Type  Function Type  Function Duration  Base Data  Measurement Units  Sensor Depth  Element Code  Description
# Snow water equivalent  Value      None          Instantaneous - Start of Day  N/A        Inches             N/A          MTEQ         Air temperature maximum
# Snow depth          Value      None          Instantaneous - Start of Day  N/A        Inches             N/A          SNWD         Air temperature minimum
# Precipitation accumulation  Value      None          Instantaneous - Start of Day  N/A        Inches             N/A          PREC         Air temperature average
# Air temperature maximum  Value      None          Daily              N/A        Degrees fahrenheit N/A          THAX
# Air temperature minimum  Value      None          Daily              N/A        Degrees fahrenheit N/A          THIN
# Air temperature average  Value      None          Daily              N/A        Degrees fahrenheit N/A          TAVG
#
# Quality Control flags included:
#
# Flag  Name      Description
# V      Valid      Validated Data
# N      No Profile  No profile for automated validation
# E      Edit      Edit, minor adjustment for sensor noise
# B      Back Estimate  Regression-based estimate for homogenizing collocated Snow Course and Snow Pillow data sets
# K      Estimate      Estimate
# X      External Estimate  External estimate
# S      Suspect      Suspect data
#
# Quality Assurance flags included:
#
# Flag  Name      Description
# U      Unknown      Unknown
# R      Raw          No Human Review
# P      Provisional  Preliminary Human Review
# A      Approved      Processing and Final Review Completed
#-----
#
# Hogg Pass (526)
# Oregon SNOTEL Site - 4790 ft
# Reporting Frequency: Daily; Date Range: 2016-09-26 to 2016-10-25; Report Instantaneous Data as: Start of Day
#
# As of: Oct 25, 2016 12:44:41 PM PDT
#
# Date,Snow Water Equivalent (in),Snow Depth (in),Precipitation Accumulation (in),Air Temperature Maximum (degF),Air Temperature Minimum (degF),Air Temperature Average (degF)
2016-09-26,0.0,0.0,0.0,65.5,78.53,64
2016-09-27,0.0,0.0,0.0,65.5,69.49,58
2016-09-28,0.0,0.0,0.0,65.5,69.45,56
2016-09-29,0.0,0.0,0.0,65.5,62.45,52
2016-09-30,0.0,0.0,0.0,65.5,56.39,47
2016-10-01,0.0,0.0,0.0,43.37,39
2016-10-02,0.0,0.0,0.1,43.35,38
2016-10-03,0.0,0.0,0.2,44.34,39
2016-10-04,0.0,0.0,0.3,41.35,39
2016-10-05,0.0,0.0,1.5,42.35,40
2016-10-06,0.0,0.0,2.5,46.39,42
2016-10-07,0.3,0.2,5.49,44,47
2016-10-08,0.2,0.3,7.59,45,52
2016-10-09,0.2,0.3,7.58,45,50
2016-10-10,0.3,0.3,9.48,39,46
2016-10-11,0.2,0.4,3.47,36,39
2016-10-12,0.2,1.4,3.58,31,46
2016-10-13,0.2,0.4,4.50,37,46
2016-10-14,0.4,1.6,6.42,35,40
2016-10-15,0.4,0.8,0.45,38,41
2016-10-16,0.4,0.9,0.41,36,38
2016-10-17,0.3,0.9,0.3,41,33,36
2016-10-18,1.0,4.10,7,,

```

4. Right click on this web page and select **Save as...**
5. Save the file with a .csv extension.

Lesson 3: Change from Standard to Chart Layout

This lesson uses the **Layout** dropdown menu in the **View Report** tab to change the display of the Standard Sensors-Daily report from tabular to line chart view.

1. If not already there, go to the **Reports** dropdown list and select **Standard Sensors-Daily**. The predefined report displays in the View Report tab.
2. In the **View Report** tab, select **Chart** from the **Layout** dropdown list.

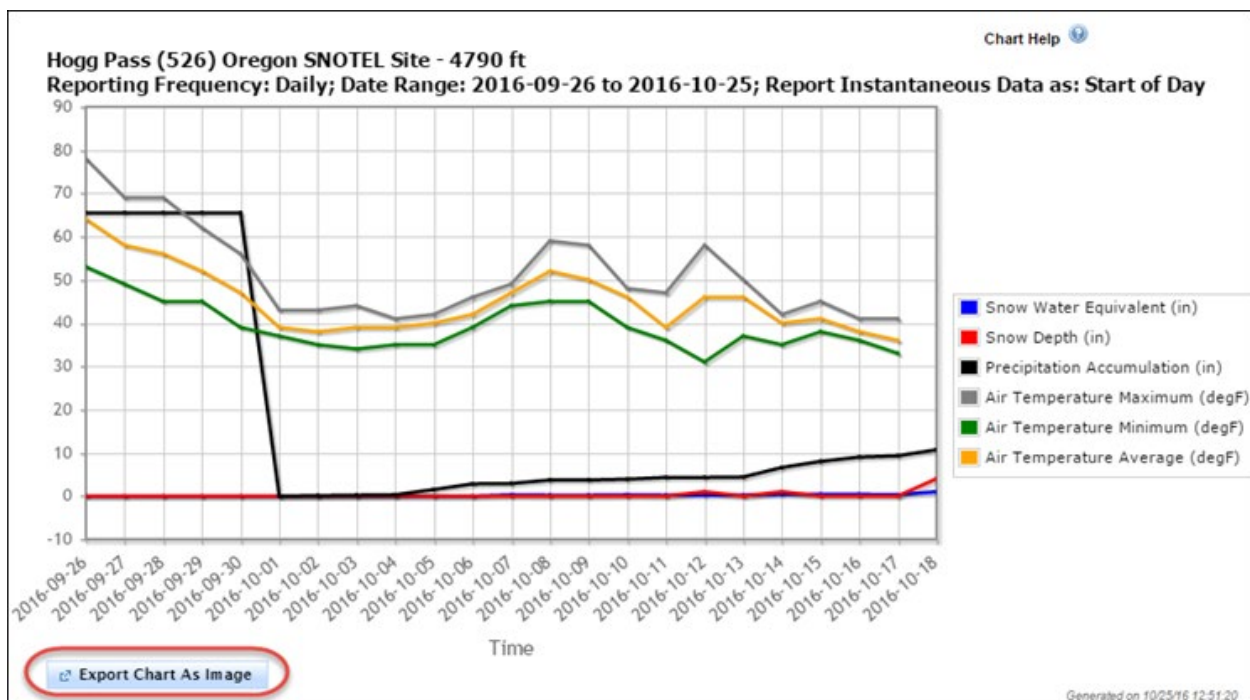
[Create/Modify Report](#)
[View Report](#)
[Report Details](#)

Output Format ▾
 Layout ▾
 Units ▾
 Time Period ▾
 Fit Table To Screen ☐

Hogg Pass (526) Oregon SNOTEL Site - 4790 ft
Reporting Frequency: Daily; Date Range: 2016-09-26 to 2016-10-25; Report Instantaneous Data as: Start of Day
 (As of: Tue Oct 25 12:51:20 PST 2016)
 **Provisional data

Time Series
 Stacked Time Series
 Water Year - Group by Month
 Calendar Year - Group by Month
Chart

- The report will change to chart format.



- To save the chart, select **Export Chart as Image**.
- Right click on the image, select **Save Image As...** and save the file to a graphics format, such as .png or .jpg.
- To return to tabular format, select **Standard** from the **Layout** dropdown list.

Managing Stations

Add a Station

This tutorial describes how to add stations to a report in Report Generator.

1. Open Report Generator.
2. Select the **Create/Modify Report** tab.
3. Choose the network. In the **Select network:** field choose a network from the dropdown list. This tutorial uses the SNOTEL network as an example.
4. Choose the station. Stations may be selected using either the **Station Name** or the **Station ID**. This field auto-suggests entries as you type. In the **Enter station(s):** field, enter the following station ID: 526.
5. Select the **Add** button.
6. Station 526, Hogg Pass, will be added to the Selected Stations list.

The screenshot shows the 'Create/Modify Report' tab selected. Under the 'Select Stations' section, the 'Select network:' dropdown is set to 'SNOTEL'. The 'Enter station(s):' field contains '526'. The 'Add' button is circled in red. To the right, the 'Selected Stations (1)' table is shown with one entry: Station Id 526, Name Hogg Pass, State OR, Network SNTL. The 'Remove' link in the Actions column is also circled in red.

Station Id	Name	State	Network	Actions
526	Hogg Pass	OR	SNTL	Remove

This completes the **Add a Station** tutorial. Now it's time to learn how to remove stations from a report.

Remove a Station

This tutorial describes how to remove stations from a report in Report Generator. First, we will add a station to the Selected Stations list. Then, we will remove that station from the list.

1. Open Report Generator.
2. Select the **Create/Modify Report** tab.
3. Choose the network. In the **Select network:** field choose a network from the dropdown list. This tutorial uses the SNOTEL network as an example.
4. Choose the station. Stations may be selected using either the **Station Name** or the **Station ID**. This field auto-suggests entries as you type. In the **Enter station(s):** field, enter the following station ID: 526.
5. Station 526, Hogg Pass, will be added to the Selected Stations list.
6. To remove the Hogg Pass station, simply click the [Remove](#) link at the right of the station name.

The screenshot shows the same interface as the previous one, but the 'Remove' link in the Actions column of the 'Selected Stations' table is circled in red.

Station Id	Name	State	Network	Actions
526	Hogg Pass	OR	SNTL	Remove

Tip: If you have many stations defined and wish to remove all of them from the Selected Stations list, select the [Remove All](#) link.

Tip: Use the **Sort By:** dropdown selection box to sort the list of stations by various criteria, such as Station ID or HUC.

This completes the **Remove a Station** tutorial. If you understand adding and removing stations, move on to the **Perform an Advanced Search** tutorial.

Perform an Advanced Station Search

This tutorial describes how to search for stations in Report Generator. This is an alternative to selecting stations one-by-one in the **Select Stations** list. The tutorial assumes that several stations have already been added to the **Selected Stations** list.

1. Open Report Generator.
2. Select the **Create/Modify Report** tab.
3. Select the [Advanced Search](#) link.

The screenshot shows the 'Select Stations' section of the Report Generator interface. It includes a 'Select network:' dropdown menu currently set to 'SNOTEL', and an 'Enter station(s):' text input field. Below the text field is a link labeled 'Advanced Search', which is highlighted with a red circle. To the right of these fields is an 'Add' button. Further right is a table titled 'Selected Stations (0)' with columns: Station Id, Name, State, Network, and Actions. The table currently contains the text 'No stations selected'. Below the table, there is a 'Remove All' link and a 'Sort By: Name' dropdown menu.

4. The **Advanced Search** page opens.
5. In the **Station Selection Criteria** area, select search criteria from one or more of the entry fields.
6. Select the Search button to show the stations that match the search criteria.
7. Optionally, add individual stations that don't meet the specified criteria. This works like the **Add Stations** field in the **Create/Modify Report** tab.
8. Specify the sort order for the stations in the **Sort By:** dropdown list.

Advanced Search

Station Selection Criteria

Station Id:

Station Name:

State:

County:

Network:

HUC:

Min/Max Elev: to

☒ Active Sites Only ☐ Is Forecast Point?

Search By Element

Filter:

Elements:

0 elements selected

Step 1. Select search criteria in one or more of these fields.

Step 4. Select the **Search** button to show the stations that match the search criteria.

Add additional stations

Select network:

Enter station(s):

Step 2 (Optional). Add individual stations that don't meet criteria specified.

Selected Stations (3)

Station Id	Name	State	County	Network	Elevation	HUC	Actions
526	Hogg Pass	OR	Linn	SNTL	4,790	170900040201	Remove
600	Lost Lake	ID	Shoshone	SNTL	6,110	170603080101	Remove
619	Mckenzie	OR	Lane	SNTL	4,770	170900040207	Remove

Sort By:

Step 3. Specify the sort order for the stations.

Adding Additional Stations

Sometimes you'll need to add stations to your selection that do not match your selection criteria. For example, let's say you wanted all of the SNOTEL stations in Oregon, but also wanted to include one station from Washington. In this case, you would set the "State" field to "OR" and select the Network **SNOTEL**, select the **Search** button, and then add the additional station using the "Enter station(s)" input field in the **Add additional stations** section. This section works the same as the way you enter stations on the main **Create/Modify Report** page. You simply pick a network in the **Select Network** menu, and then enter the first few characters of the station id or station name to add and then click the station that you want to add. Stations that are added individually can be removed individually by clicking on the Remove link in the Actions column in the table of selected stations.

Note: Stations in the table that are a result of the station selection criteria will not have anything in the Actions column.

Close Button

Pressing the **Close** button will close the window and return you to the **Create/Modify Report** tab in Report Generator. When you return to the Create/Modify Report tab, any changes that you had made in the **Advanced Station Selection** screen will be reflected in the **Selected Stations** table.

Define Search Criteria and Filtering

There are many ways to search for the stations using the Advanced Search feature in Report Generator. In the top left quadrant of the Advanced Search page is a Station Selection Criteria section. Each of the text fields accepts a comma-separated list of wildcard patterns (only the asterisk '*' and '?' wildcard characters are understood).

The following table describes the different search criteria fields:

Search Field	Description
Station ID	The station id of the stations. This can include wildcards and can be a comma separated list of station ids. If wildcards are used, the '*' can be used to match any number of characters and the '?' can be used to match a single character.
Station Name	The name of the station. This can include wildcards and can be a comma separated list of station names or station names with wildcards.
State	<p>The two-character state FIPS alphabetic code (such as 'OR' for Oregon or 'WA' for Washington). This can be a single state code or a comma separated list of state codes.</p> <p>There is also an undocumented feature that allows you to search for stations under the jurisdiction of a particular Data Collection Office (DCO) by entering the 2-character state code of the DCO followed by the letters 'DCO'. For example, if you want to search for stations in the Oregon DCO, type 'ORDCO' in the 'State' search field. You can enter more than one DCO in the same way that you enter more than one state. You can also enter a state and a DCO, but what results is the intersection of the DCO and the states entered (if you enter ORDCO and OR, you'll get only the stations that are in OR and in ORDCO)</p>
Network	The network code of the station(s). Zero, one, or more networks can be selected. To select a single network, just click on the item. To deselect a network or to add another network to the selection hold down the CTRL key and click on the network to select or deselect.
HUC	The hydrologic unit code. You can enter one or more 2, 4, 6, or 8 digit HUCs separated by commas.
Min/Max Elev	The minimum and maximum elevation of the stations. None, one, or both of these filter fields can be specified.
Active Sites Only	If this box is checked, only stations that are still active will be returned. If this is unchecked, any station that matches the search criteria will be returned, even if the station is no longer in service.
Elements	Used to select the elements that a station should have data for. If multiple elements are selected, a station will be returned if it has at least one of the elements selected

When the filter is executed, there is an "OR" operator placed between the comma separated items in a given field and an "AND" operator placed between the various filter fields.

Following are some examples which illustrate how to use the filtering capabilities:

Example 1 - Find station 10360900

Station : 103060900

State :

Network :

HUC :

Min/Max Elev :

Example 2 - Find all stations in California or Nevada

Station :

State : CA, NV

Network :

HUC :

Min/Max Elev :

Example 3 - Find all streamflow or reservoir stations in California or Nevada where the station name begins with "LAKE"

Station : LAKE*

State : CA, NV

Network : USGS (STREAM), BOR (RESV)

HUC :

Min/Max Elev :

Example 4 - Find all SNOTEL stations whose elevation is between 1000 and 7000 feet and are in HUC 18

Station :

State :

Network : SNOTEL/SCAN

HUC : 18

Min/Max Elev : 1000 to 7000

Example 5 - Find all stations in Oregon that have incremental precipitation

Station :
State : OR
Network :
HUC :
Min/Max Elev :
Elements : precipitation increment

Managing Columns

Add a Data Element Column

This tutorial describes how to add data element columns to a report in Report Generator. The example adds two columns for "air temperature maximum" using Value Types of this year's and the previous year's values.

1. Open Report Generator.
2. Select the **Create/Modify Report** tab.
3. Choose the network. In the **Select network:** field choose a network from the dropdown list. This tutorial uses the SNOTEL network as an example.
4. Choose the station. Stations may be selected using either the **Station Name** or the **Station ID**. This field auto-suggests entries as you type. In the **Enter station(s):** field, enter the following station ID: 526. The Hogg Pass station displays in the Selected Stations list.
5. In the Select Columns pane, select the **Data** tab.
6. Under Element, select "air temperature maximum."
7. Under Depth, select "None."
8. For Value Type, select "Value."
9. For Function, select "None."
10. Select the **Add** button to add the element to the Manage Selected Columns list.
11. Ensure the element "air temperature maximum" with a value type of "Value" appears at the bottom of the **Manage Selected Columns** list.

Select Columns

Data **Metadata**

Element
Filter: Sort Standard ▾

Depth
None

Value Type
Value

Function
None

Add

Manage Selected Columns

	Data Type	Element	Depth	Function	Value Type
<input type="checkbox"/>		air temperature maximum			Value

[Remove Selected Columns](#) [Remove All](#)

[Move Up](#)
[Move Down](#)

1. Under Element, ensure "air temperature maximum" is selected.
2. Under Depth, keep "None"
3. For Value Type, select "Previous Year's Value."
4. For Function, select "None."
5. Select the **Add** button to add the element to the Manage Selected Columns list.
6. Value Type, select "Previous Year's Value."
7. Ensure the element "air temperature maximum" with a value type of "Previous Year's Value" appears at the bottom of the **Manage Selected Columns** list.

Select Columns

Data **Metadata**

Element
Filter: Sort Standard ▾

Depth
None

Value Type
Previous Year's Value

Function
None

Add

Manage Selected Columns

	Data Type	Element	Depth	Function	Value Type
<input type="checkbox"/>		air temperature maximum			Value
<input type="checkbox"/>		air temperature maximum			Previous Year's Value

[Remove Selected Columns](#) [Remove All](#)

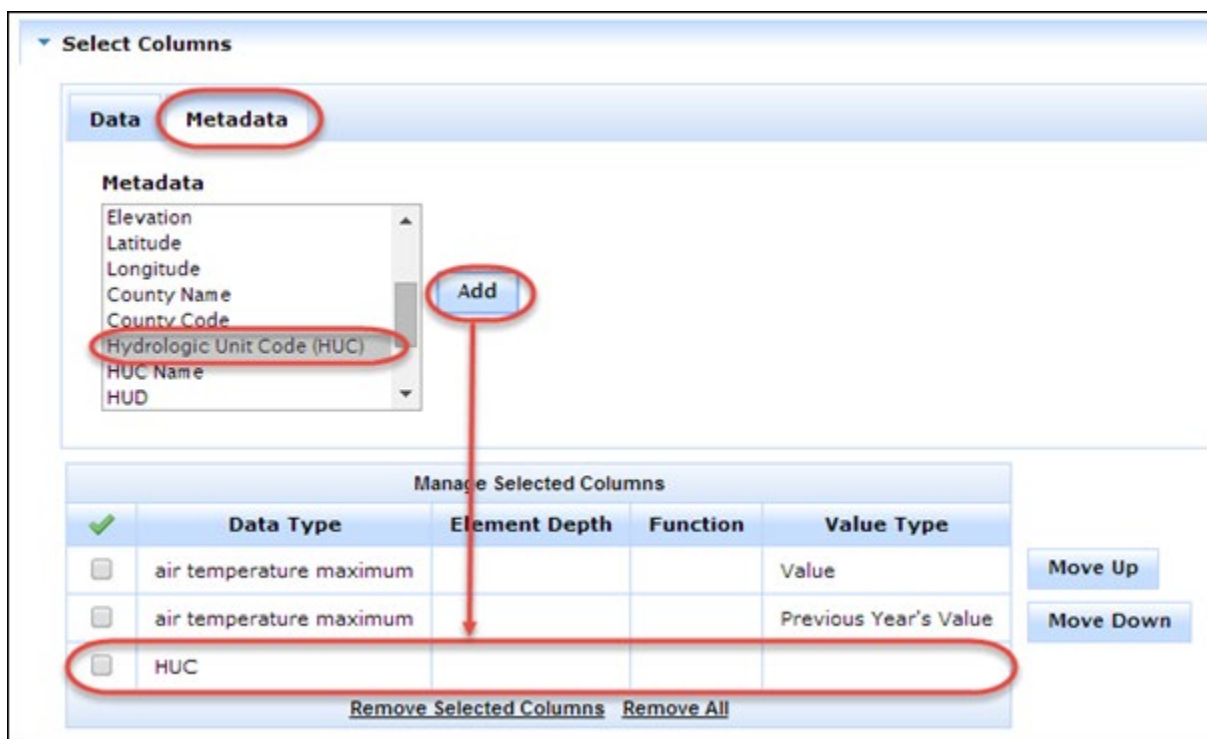
[Move Up](#)
[Move Down](#)

Add a Metadata Column

This tutorial shows how to add a metadata column to a report in Report Generator. The example adds a column for the **Hydrologic Unit Code (HUC)** metadata type to the report.

Note: If you are continuing this tutorial from the **Add a Data Element Column** tutorial, go to Step 4.

1. Start Report Generator,
2. Choose the **Create/Modify Report** tab.
3. Add a station. In the Select Stations **Enter Station(s)** field, enter 526. The Hogg Pass station is added to the Selected Stations list.
4. In the **Select Columns** pane, select the **Metadata** tab.
5. Under Metadata, select **Hydrologic Unit Code (HUC)**.
6. Select the **Add** button.
7. Ensure the metadata type **HUC** appears at the bottom of the **Manage Selected Columns** list.



Change Column Order

This tutorial shows how to change the order that columns appear in a report in Report Generator. It also shows how to change the sort order of a column in a report. The example moves the metadata element HUC2 (2-digit HUC) to the top of the order. The final report will therefore display the HUC as the first item in the report, followed by air temperature minimum and air temperature maximum.

Note: If you're continuing this tutorial from the Add a Metadata Column tutorial, go to **Lesson 2: Change order of data types**.

Lesson 1: Add data types

1. Start Report Generator.
2. Select the **Create/Modify Report** tab
3. Add a station. In the Select Stations **Enter station(s)** field, enter 526. The Hogg Pass station is added to the Selected Stations list.
4. Add an element. In the Select Columns pane, select the **Data** tab.
5. Under Element, select "air temperature minimum."
6. Under Depth, select "None."
7. For Value Type, select "Value."
8. For Function, select "None."
9. Select the **Add** button to add the element to the Manage Selected Columns list.
10. Add a second element for the previous year. Under Element, ensure "air temperature maximum" is selected.
11. Under Depth, keep "None"
12. For Value Type, select "Previous Year's Value."
13. For Function, select "None."
14. Select the **Add** button to add the element to the Manage Selected Columns list.
15. Add another element. Under Element, select "snow water equivalent."
16. Select the **Add** button.

The display should look similar to the following.

Manage Selected Columns					
✓	Data Type	Element Depth	Function	Value Type	
<input type="checkbox"/>	air temperature minimum			Value	Move Up
<input type="checkbox"/>	air temperature maximum			Value	Move Down
<input type="checkbox"/>	snow water equivalent			Value	
Remove Selected Columns Remove All					

Lesson 2: Change order of data types

1. Enable the checkbox next to the snow water equivalent Data Type.

Manage Selected Columns					
✓	Data Type	Element Depth	Function	Value Type	
<input type="checkbox"/>	air temperature minimum			Value	Move Up
<input type="checkbox"/>	air temperature maximum			Value	Move Down
<input checked="" type="checkbox"/>	snow water equivalent			Value	
Remove Selected Columns Remove All					

2. Select the **Move Up** button. The snow water equivalent Data Type will move up one level in order.
3. Select the **Move Up** button again. The snow water equivalent Data Type will move to the top of the list, and will therefore appear as the first column on the final report.

Manage Selected Columns					
✓	Data Type	Element Depth	Function	Value Type	
<input checked="" type="checkbox"/>	snow water equivalent			Value	Move Up
<input type="checkbox"/>	air temperature minimum			Value	Move Down
<input type="checkbox"/>	air temperature maximum			Value	
Remove Selected Columns Remove All					

Lesson 3: Change sort order of columns in report

1. In the **Select Time Period, Layout, and Units** pane, select the following:
 - Interval/Duration = Daily
 - Report Instantaneous Data As = Start of Period
 - Time Period = Last 7 Days, All Months, All Days
 - Layout = Time Series
 - Units = English
 - Output Format = HTML
2. Select the **View Report** button. A report similar to the following will open

Hogg Pass (526)

Oregon SNOTEL Site - 4790 ft

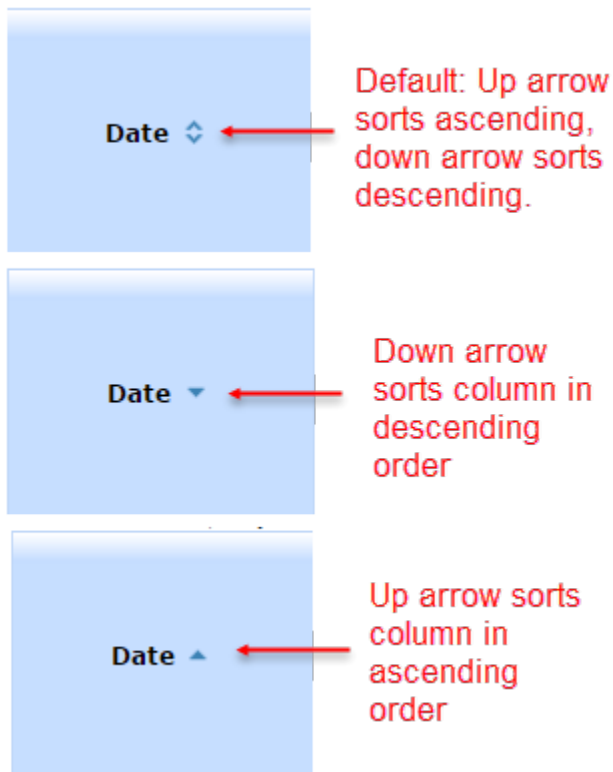
Reporting Frequency: Daily; Date Range: 2016-12-08 to 2016-12-14

(As of: Wed Dec 14 11:04:16 GMT-08:00 2016)

****Provisional data, subject to revision****

Date ↕	Hogg Pass (526) Snow Water Equivalent (in) Start of Day Values ↕	Hogg Pass (526) Air Temperature Minimum (degF) ↕	Hogg Pass (526) Air Temperature Maximum (degF) ↕
2016-12-08	6.2	13	37
2016-12-09	7.4	32	36
2016-12-10	8.3	29	32
2016-12-11	9.4	28	30
2016-12-12	10.6	14	31
2016-12-13	11.0	18	23
2016-12-14	11.1		

Note that each column in the report has Up/Down arrows next to the column heading. The Up/Down arrows allow you to sort the columns as follows:



Take some time to explore how each sort option works for each column in the report.

Remove Columns

This tutorial shows how to remove columns from a report in Report Generator. The first example removes a single data type from the report. The second example then removes all data types from the report.

1. Start Report Generator.
2. Select the **Create/Modify Report** tab.
3. Choose the station. In the **Enter station(s)** field, enter the following station ID: 526.
4. Station 526, Hogg Pass, will be added to the Selected Stations list. When a station is added, the **View Station Information** link appears in the upper left corner of the application.

[View Station Information](#)

Create/Modify Report **View Report** **Report Details**

▼ **Select Stations**

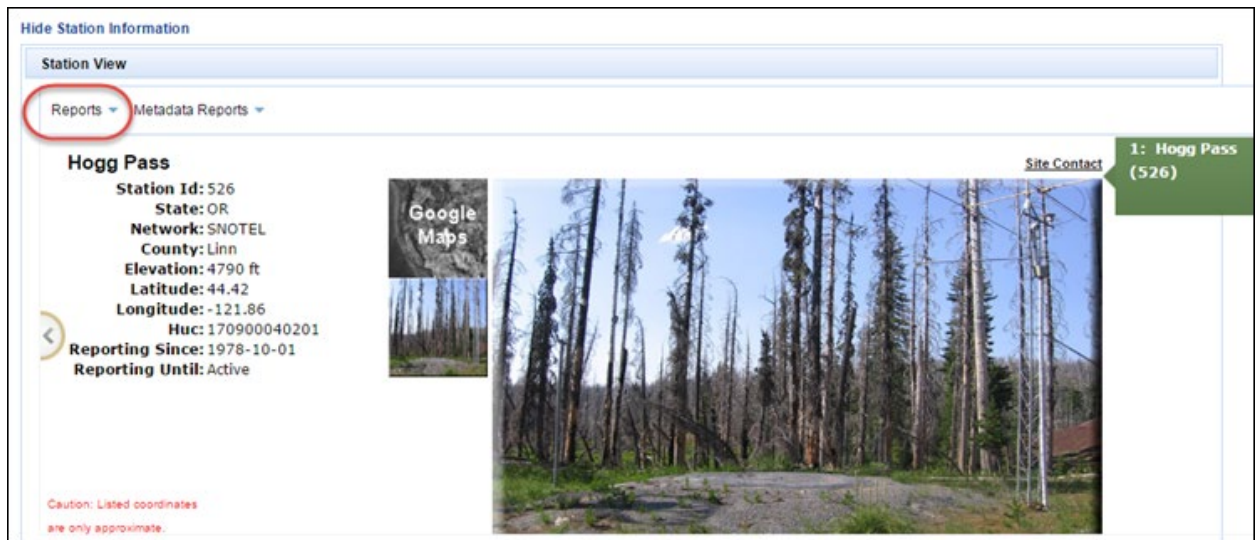
Select network:

Enter station(s): [Advanced Search](#)

Selected Stations (1)				
Station Id	Name	State	Network	Actions
526	Hogg Pass	OR	SNTL	Remove

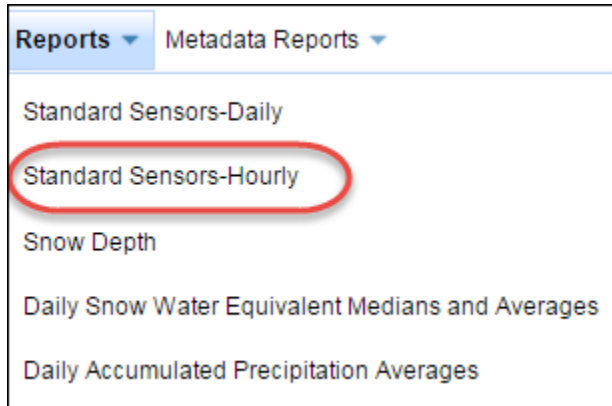
[Remove All](#) Sort By:

5. Select the **View Station Information** link. The Station View panel will open, displaying the station name, station metadata (such as Network, County, Elevation, Latitude, and Longitude), a site photo and a link to the site in Google Maps.



6. From the Station View pane, hover over the the **Reports** dropdown list and select **Standard Sensors-Hourly**.

Note: The **Reports** and **Metadata Reports** dropdown lists contain pre-defined reports for commonly-used data elements.



7. Under **Manage Selected Columns**, enable the checkbox next to the **snow water equivalent** data type.
8. Select the **Remove Selected Columns** link. The data type will be deleted from the list.
9. Next, select the **Remove All** link. All the data types will be removed from the list.

Manage Selected Columns				
✓	Data Type	Element Depth	Function	Value Type
<input checked="" type="checkbox"/>	snow water equivalent			Value
<input type="checkbox"/>	snow depth			Value
<input type="checkbox"/>	precipitation accumulation			Value
<input type="checkbox"/>	air temperature maximum			Value
<input type="checkbox"/>	air temperature minimum			Value
<input type="checkbox"/>	air temperature average			Value
Remove Selected Columns		Remove All		

[Move Up](#)
[Move Down](#)

Manage Selected Columns				
✓	Data Type	Element Depth	Function	Value Type
<input type="checkbox"/>	snow depth			Value
<input type="checkbox"/>	precipitation accumulation			Value
<input type="checkbox"/>	air temperature maximum			Value
<input type="checkbox"/>	air temperature minimum			Value
<input type="checkbox"/>	air temperature average			Value
Remove Selected Columns		Remove All		

[Move Up](#)
[Move Down](#)

Managing Report Types

Select Frequency and Time Period

This tutorial shows how to use the **Frequency** and **Time Period** selections in Report Generator. Frequency and Time Period are interactive; options change depending on the frequency or time period selected.

The **Frequency** selection determines how often data is supplied to a report in Report Generator. The **Time Period** selection determines the duration of the report and the number of days to include in the report.

The example uses a **Standard** data report (Standard Sensors - Daily) to change the frequency and time period of data displayed in the **View Report** tab.


1. Start Report Generator.
2. Select the **Create/Modify Report** tab.
3. Choose the station. In the **Enter station(s)** field, enter the following station ID: 526.
4. Station 526, Hogg Pass, will be added to the Selected Stations list. When a station is added, the **View Station Information** link appears in the upper left corner of the application.

View Station Information

Create/Modify Report **View Report** **Report Details**

▼ **Select Stations**

Select network: SNOTEL

Enter station(s): **Add** 

[Advanced Search](#)

Selected Stations (1)				
Station Id	Name	State	Network	Actions
526	Hogg Pass	OR	SNTL	Remove

[Remove All](#) Sort By:

5. Select the **View Station Information** link. The Station View panel will open, displaying the station name, station metadata (such as Network, County, Elevation, Latitude, and Longitude), a site photo and a link to the site in Google Maps.
6. From the Station View pane, hover over the **Reports** dropdown list and select **Standard Sensors-Daily**. A tabular report will open, displaying the snow water equivalent, snow depth, precipitation, and temperature min/max/averages for the Hogg Pass site for the last 30 days.

Station View

Reports ▼ **Metadata Reports** ▼

Standard Sensors-Daily

Standard Sensors-Hourly

Snow Depth

Daily Snow Water Equivalent Medians and Averages

Daily Accumulated Precipitation Averages

Create/Modify ReportView ReportReport Details

Output FormatLayoutUnitsTime PeriodFit Table To Screen

Hogg Pass (526)
Oregon SNOTEL Site - 4790 ft
Reporting Frequency: Daily; Date Range: 2016-10-23 to 2016-11-21
(As of: Mon Nov 21 08:12:39 (GMT-08:00) 2016)
Provisional data, subject to revision

Date	Snow Water Equivalent (in) Start of Day Values	Snow Depth (in) Start of Day Values	Precipitation Accumulation (in) Start of Day Values	Air Temperature Maximum (degF)	Air Temperature Minimum (degF)	Air Temperature Average (degF)
2016-10-23	0.0	0	13.0	47	35	42
2016-10-24	0.0	0	13.0	53	38	43
2016-10-25	0.1	0	13.3	49	37	43
2016-10-26	0.2	1	13.5	51	40	46
2016-10-27	0.1	1	14.0	45	37	39
2016-10-28	0.0	1	14.3	47	34	41
2016-10-29	0.0	1	14.3	45	38	40
2016-10-30	0.0	0	14.5	43	38	40
2016-10-31	0.1	0	14.8	43	35	38
2016-11-01	0.0	0	15.3	43	36	39
2016-11-02	0.0	0	15.5	58	39	49
2016-11-03	0.0	0	15.5	55	36	46
2016-11-04	0.0	0	15.5	59	36	49
2016-11-05	0.0	0	15.5	55	38	47
2016-11-06	0.1	0	16.0	48	36	41
2016-11-07	0.0	0	16.1	53	38	46
2016-11-08	0.0	0	16.2	64	38	51
2016-11-09	0.0	1	16.1	58	43	49
2016-11-10	0.0	0	16.2	56	39	47
2016-11-11	0.0		16.1	62	42	55
2016-11-12	0.0	0	16.3	50	39	44
2016-11-13	0.0	0	16.3	51	40	45
2016-11-14	0.0	1	16.5	48	41	44
2016-11-15	0.1	0	18.3	47	31	37
2016-11-16	0.1	2	18.8	34	30	31
2016-11-17	0.1	1	18.9	38	29	32
2016-11-18	0.1	1	18.9	35	29	31
2016-11-19	0.1	1	18.9	46	32	40
2016-11-20	0.0	0	19.1	42	34	37
2016-11-21	0.1	1	19.7			

- To change the frequency and time period for which data are reported, select the **Time Period** dropdown list on the report.
- In the Time Period tab, change the Frequency to **Monthly**, the Report Instantaneous Data as: to **Start of Period**, and the Time Period to **Last 12 Months** and **All Months**.

- Select **Apply**. The data in the View Reports tab change to reflect a reporting frequency of monthly and a time period of the last 12 months.

Frequency

- Daily
- Monthly**
- Semi-Monthly
- Hourly
- Water Year
- Calendar Year

Time Period

- Current Month
- Last Month
- Last 12 Months**
- Current Water Year
- Current Calendar Year
- Period of Record

Report Instantaneous Data as: Custom Begin Date Custom End Date

Start of Period End of Period

Apply

Create/Modify Report View Report Report Details

Output Format Layout Units Time Period Fit Table To Screen

Hogg Pass (526)
Oregon SNOTEL Site - 4788 ft
Reporting Frequency: Monthly; Date Range: Nov 2015 to Nov 2016

(As of: Mon Nov 21 08:11:12 PST Nov 2016)
Provisional data, subject to revision

Date	Snow Water Equivalent (in) Start of Month Values	Snow Depth (in) Start of Month Values	Precipitation Accumulation (in) Start of Month Values	Air Temperature Maximum (degF)	Air Temperature Minimum (degF)	Air Temperature Average (degF)
Nov 2015	0.0	0	3.9	50	15	33
Dec 2015	1.0	4	11.1	48	8	31
Jan 2016	11.1	43	29.9	52	7	32
Feb 2016	16.5	51	38.4	53	15	37
Mar 2016	14.4	35	44.4	61	25	35
Apr 2016	16.1	39	54.3	71	28	43
May 2016	0.0	0	58.0	72	31	47
Jun 2016	0.0	0	60.1	83	31	52
Jul 2016	0.0	0	62.5	84	38	56
Aug 2016	0.0	0	63.7	83	37	60
Sep 2016	0.0	0	63.8	78	33	51
Oct 2016	0.0	0	0.0	59	31	42
Nov 2016	0.0	0	15.3			

Select Units of Measurement

This tutorial shows how to change the **Units** selections in Report Generator. Available units of measurement are English and Metric.

The example uses a **Standard** data report (Snow Depth) to change the unit of measurement for data displayed in the **View Report** tab.

1. Start Report Generator.
2. Select the **Create/Modify Report** tab.
3. Choose the station. In the **Enter station(s)** field, enter the following station ID: 526.
4. Station 526, Hogg Pass, will be added to the Selected Stations list. When a station is added, the **View Station Information** link appears in the upper left corner of the application.

[View Station Information](#)

Create/Modify Report **View Report** **Report Details**

Select Stations

Select network:

Enter station(s): **Add**

[Advanced Search](#)

Station Id	Name	State	Network	Actions
526	Hogg Pass	OR	SNTL	Remove

[Remove All](#) Sort By:

5. Select the **View Station Information** link. The Station View panel will open, displaying the station name, station metadata (such as Network, County, Elevation, Latitude, and Longitude), a site photo and a link to the site in Google Maps.
6. From the Station View pane, hover over the **Reports** dropdown list and select **Snow Depth**. A tabular report will open, displaying the snow water equivalent, change in snow water equivalent, snow depth, and change in snow depth for the Hogg Pass site for the last 30 days in inches.

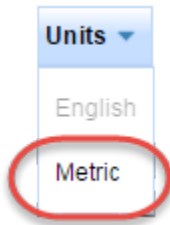
Station View

Reports **Metadata Reports**

- Standard Sensors-Daily
- Standard Sensors-Hourly
- Snow Depth**
- Daily Snow Water Equivalent Medians and Averages
- Daily Accumulated Precipitation Averages

Create/Modify Report		View Report	Report Details	
Output Format ▾	Layout ▾	Units ▾	Time Period ▾	Fit Table To Screen <input type="checkbox"/>
Hogg Pass (526) Oregon SNOTEL Site - 4790 ft Reporting Frequency: Daily; Date Range: 2016-10-23 to 2016-11-21 <small>(As of: Mon Nov 21 08:25:22 GMT-08:00 2016)</small> <small>**Provisional data, subject to revision**</small>				
Date ▾	Snow Water Equivalent (in) Start of Day Values ▾	Change In Snow Water Equivalent (in) ▾	Snow Depth (in) Start of Day Values ▾	Change In Snow Depth (in) ▾
2016-10-23	0.0		0	
2016-10-24	0.0	0.0	0	0
2016-10-25	0.1	0.1	0	0
2016-10-26	0.2	0.1	1	1
2016-10-27	0.1	-0.1	1	0
2016-10-28	0.0	-0.1	1	0
2016-10-29	0.0	0.0	1	0
2016-10-30	0.0	0.0	0	-1
2016-10-31	0.1	0.1	0	0
2016-11-01	0.0	-0.1	0	0
2016-11-02	0.0	0.0	0	0
2016-11-03	0.0	0.0	0	0
2016-11-04	0.0	0.0	0	0
2016-11-05	0.0	0.0	0	0
2016-11-06	0.1	0.1	0	0
2016-11-07	0.0	-0.1	0	0
2016-11-08	0.0	0.0	0	0
2016-11-09	0.0	0.0	1	1

7. In the **View Report** tab, select **Metric** from the **Units** drop-down list. The units on the report will change from English to Metric.



[Create/Modify Report](#)[View Report](#)[Report Details](#)Output Format ▾ Layout ▾ Units ▾ Time Period ▾ Fit Table To Screen ☐**Hogg Pass (526)****Oregon SNOTEL Site - 4790 ft****Reporting Frequency: Daily; Date Range: 2016-10-23 to 2016-11-21**

(As of: Mon Nov 21 08:27:49 GMT-08:00 2016)

Provisional data, subject to revision

Date ▾	Snow Water Equivalent (mm) Start of Day Values ▾	Change In Snow Water Equivalent (mm) ▾	Snow Depth (cm) Start of Day Values ▾	Change In Snow Depth (cm) ▾
2016-10-23	0		0	
2016-10-24	0	0	0	0
2016-10-25	3	3	0	0
2016-10-26	5	2	3	3
2016-10-27	3	-2	3	0
2016-10-28	0	-3	3	0
2016-10-29	0	0	3	0
2016-10-30	0	0	0	-3
2016-10-31	3	3	0	0
2016-11-01	0	-3	0	0
2016-11-02	0	0	0	0
2016-11-03	0	0	0	0
2016-11-04	0	0	0	0
2016-11-05	0	0	0	0
2016-11-06	3	3	0	0
2016-11-07	0	-3	0	0
2016-11-08	0	0	0	0
2016-11-09	0	0	3	3
2016-11-10	0	0	0	-3

Select Layout

This tutorial shows how to choose the layout (format) of the report in Report Generator. Available layout options are:

- **Time Series.** Single station or multi-station report. The report will display for all stations defined with elements listed on a per-station basis. That is, each report will include all elements for that station for the time period defined. For example:

Date	Station 1	Station 1	Station 2	Station 2
	Elem 1	Elem 2	Elem 1	Elem 2
Jan 2011	xxxx	xxxx	xxxx	xxxx
Feb 2011	xxxx	xxxx	xxxx	xxxx

- **Stacked Time Series.** Multi-station report. The report will display all stations with elements listed on a per-station basis. For example:

Date	Station	Elem 1	Elem 2
Jan 2011	Station 1	xxxx	xxxx
Feb 2011	Station 1	xxxx	xxxx
Jan 2011	Station 2	xxxx	xxxx
Feb 2011	Station 2	xxxx	xxxx

- **Water Year - Group by Month.** Single station or multi-station report. The report will display for all elements defined, grouped by month for the current water year (Oct. 1-Sept. 30). For example:

Water Year	Oct		Nov	
	Elem 1	Elem 2	Elem 1	Elem 2
2011	xxxx	xxxx	xxxx	xxxx
2012	xxxx	xxxx	xxxx	xxxx

- **Calendar Year - Group by Month.** Single station or multi-station report. The report will display for all elements defined, grouped by month for the current calendar year (Jan. 1-Dec. 31). For example:

Year	Jan		Feb	
	Elem 1	Elem 2	Elem 1	Elem 2
2011	xxxx	xxxx	xxxx	xxxx
2012	xxxx	xxxx	xxxx	xxxx

- **Chart.** Single station or multi-station chart. Report Generator will display a line chart for all elements and all the stations defined. For example:



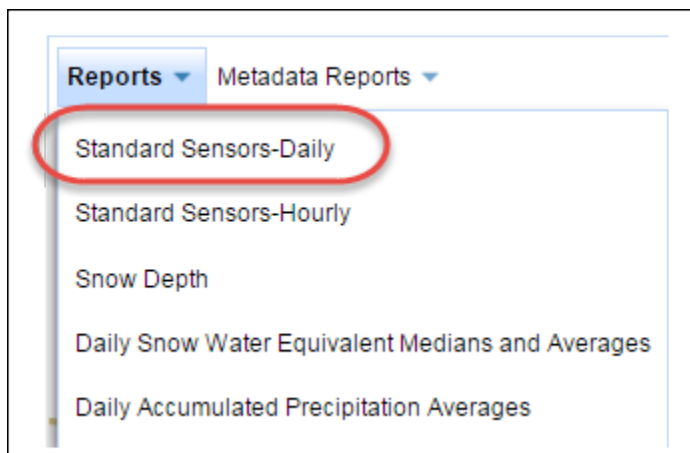
The following tutorial uses a **Standard** data report (Snow Depth) to change the layout for data displayed in the **View Report** tab from Standard to Chart.

The tutorial consists of two, quick lessons:

- Lesson 1: Change layout from Standard to Group Elements by Month
- Lesson 2: Change layout from Standard to Chart

Lesson 1: Change Layout from Standard to Group Elements by Month

1. Start Report Generator.
2. Select the **Create/Modify Report** tab.
3. Choose the station. In the **Enter station(s)** field, enter the following station ID: 526.
4. Station 526, Hogg Pass, will be added to the Selected Stations list. When a station is added, the **View Station Information** link appears in the upper left corner of the application.
5. Select the **View Station Information** link. The Station View panel will open, displaying the station name, station metadata (such as Network, County, Elevation, Latitude, and Longitude), a site photo and a link to the site in Google Maps.
6. From the Station View pane, hover over the **Reports** dropdown list and select **Standard Sensors-Daily**. A tabular report will open, displaying the snow water equivalent, snow depth, precipitation accumulation, and air temperature minimum, maximum and average for the Hogg Pass site for the last 30 days.



1. In the **View Report** tab, select **Water Year - Group by Month** in the **Layout** drop-down list. The report will change from elements being listed on a per-station basis to elements being listed on a per-month basis.

Layout

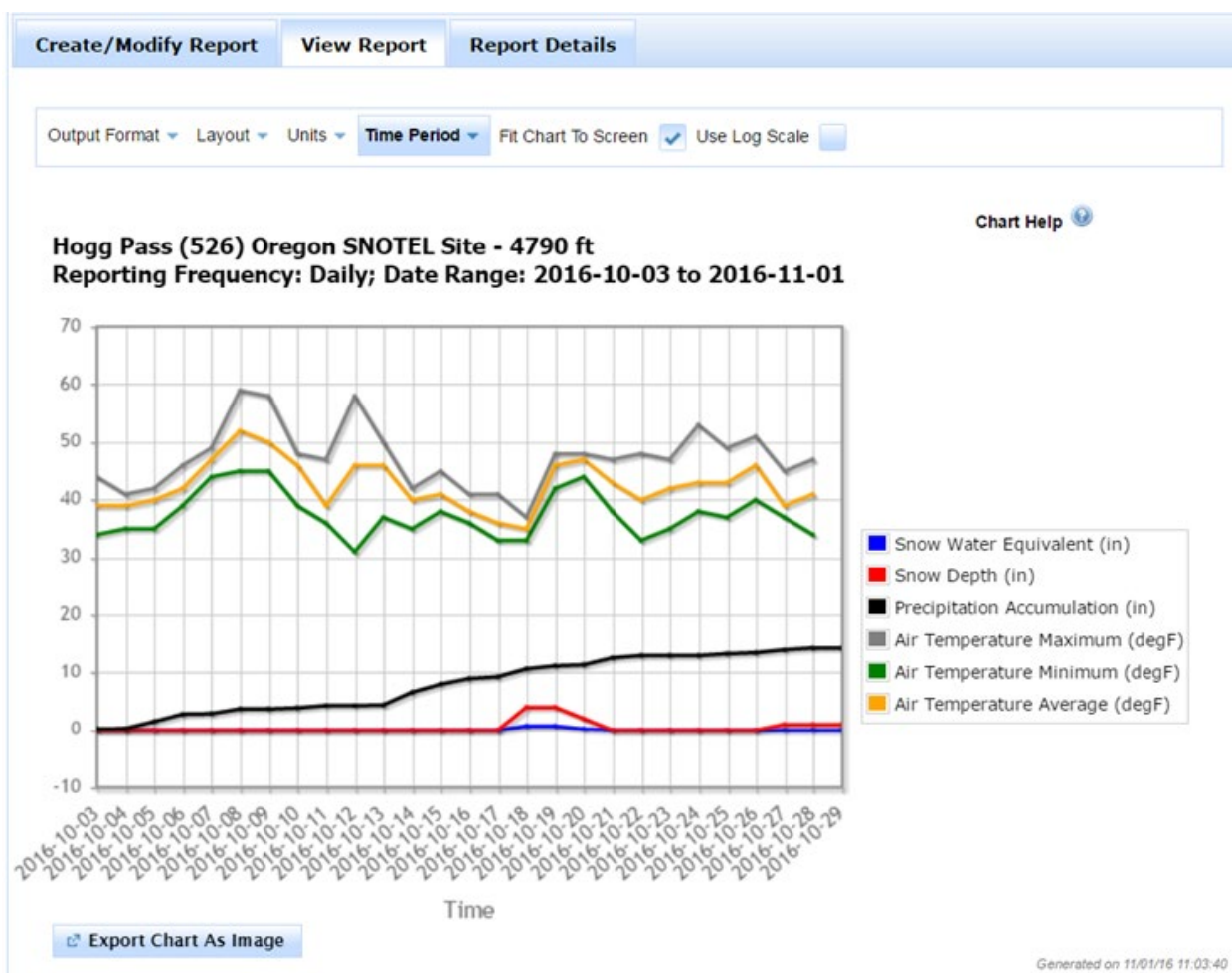
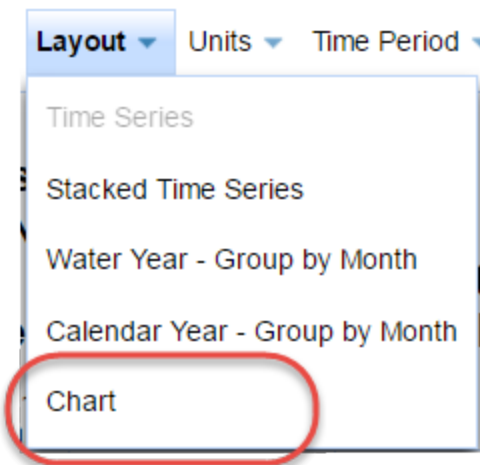
- ☐ Time Series
- ☐ Stacked Time Series
- ☒ Water Year - Group by Month
- ☐ Calendar Year - Group by Month
- ☐ Chart

Create/Modify Report View Report Report Details							
Output Format Layout Units Time Period Fit Table To Screen <input checked="" type="checkbox"/>							
Hogg Pass (526) Oregon SNOTEL Site - 4790 ft Reporting Frequency: Daily; Date Range: 2016-10-03 to 2016-11-01;							
<small>(As of: Tue Nov 01 11:07:01 PDT 2016)</small> <small>**Provisional data, subject to revision**</small>							
Day	Snow Water Equivalent (in)	Snow Depth (in)	Precipitation Accumulation (in)	Air Temperature Maximum (degF)	Air Temperature Minimum (degF)	Air Temperature Average (degF)	Snow Water Equivalent (in)
01	0.0	0	0.0	43	37	39	
02	0.0	0	0.1	43	35	38	
03	0.0	0	0.2	44	34	39	
04	0.0	0	0.3	41	35	39	
05	0.0	0	1.5	42	35	40	
06	0.0	0	2.8	46	39	42	
07	0.0	0	2.9	49	44	47	
08	0.0	0	3.7	59	45	52	
09	0.0	0	3.7	58	45	50	
10	0.0	0	3.9	48	39	46	
11	0.0	0	4.3	47	36	39	
12	0.0	0	4.3	58	31	46	
13	0.0	0	4.4	50	37	46	
14	0.0	0	6.6	42	35	40	
15	0.0	0	8.0	45	38	41	
16	0.0	0	9.0	41	36	38	
17	0.0	0	9.3	41	33	36	
18	0.7	4	10.7	37	33	35	
19	0.7	4	11.2	48	42	46	


Continue to Lesson 2: Change Layout from Standard to Chart.

Lesson 2: Change Layout from Standard to Chart

1. In the View Report tab, select **Chart** from the Layout drop-down list. The report will change from a tabular format to a line chart.



Tip: To save the results of this report:

- From the Output Format drop-down list, select the csv format icon () to save the file to a comma-separated value (.csv) format or to an Excel (.xls) spreadsheet.
- To save the chart to a graphics format such as .jpg or .png, select the **Export Chart as Image** button, then right-click on the image to save it.

Frequently-Asked Questions

Answers to questions from our users.

Report Generator Frequently-Asked Questions

Q Does Report Generator have any predefined report formats I can use?

A Report Generator has several predefined reports available. When you add a station to Report Generator, the View Station Information link to open the Station View pane.

In the Station View pane, the Reports and Metadata Reports () dropdown menus contain several predefined report templates. For example, choose from both hourly and daily standard sensor reports, snow depth, daily snow water equivalent medians and averages, and sensor metadata reports.

Q What are the sources of data Report Generator uses?

A

Report Generator uses data from the National Resources Conservation Service (NRCS) Water and Climate Information System (WCIS) databases. This includes manually-collected snow course data and information from automated Snow Telemetry (SNOTEL) and Soil Climate Analysis Network (SCAN) stations.

Report Generator also uses precipitation, streamflow, and reservoir data from the U.S. Army Corps of Engineers (USACE), the U.S. Bureau of Reclamation (BOR), the National Weather Service (NWS), the Applied Climate Information System (ACIS), the U.S. Geological Survey (USGS) and various water districts and other entities.

Q I created a tabular report in Report Generator. Is it possible to export this data for further analysis?

A Yes. In the View Report tab, select the CSV icon () from the Output Format dropdown list (). A web page will open with the data from the report displayed. Open a text editor (such as Notepad or Excel). Copy and paste lines that do not begin with a pound sign (#) into the text editor. Save the file with a .csv extension.

Q I created a chart in Report Generator. Can I save this chart to another format?

A Charts may be saved to a graphics format or exported to another format (such as .csv. or .xls).

To save the chart in a graphics format, select the Export Chart as Image button (). When the file opens, right-click the chart and select Save image as... Save the file to a graphics format, such as .png or .jpg.

To export the data to .csv or .xls format, in the View Report tab, select the CSV icon () from the Output Format dropdown list (). A web page will open with the data from the report displayed. Open a text editor (such as Notepad or Excel). Copy and paste the data from the web page into the text editor. Save the file with a .csv extension.

Q I'm using Internet Explorer as my browser. Many of the functions of Report Generator aren't working correctly.

A Report Generator 2.0 won't function properly in Internet Explorer if Compatibility View is enabled, or if the USDA.gov domain has been added to Compatibility View. To disable Compatibility View, go to Tools > Compatibility View Settings in Internet Explorer, and disable (uncheck) the Display Intranet Sites in Compatibility View checkbox. If USDA.gov is in the Websites you've added to Compatibility View list, highlight USDA.gov and select the Remove button.

Q I want to create a report for all the sites within a basin, but I don't know the site names or station IDs. Can Report Generator find those sites?

A If you know all or part of the Hydrologic Unit Code (HUC) for the basin, you can use the Advanced Search feature in Report Generator to quickly define a list of sites within the basin. Simply select the data Network, then enter the HUC for the basin (1-12 digits, wildcards are accepted), and select Search.

Q Can Report Generator be used to create multi-station charts?

A Yes. Version 2.0 of Report Generator supports multi-station charting.

Announcements and Release Notes

Contains important information associated with updates and changes to Report Generator. It also contains Release Notes describing recent enhancements and defect fixes.