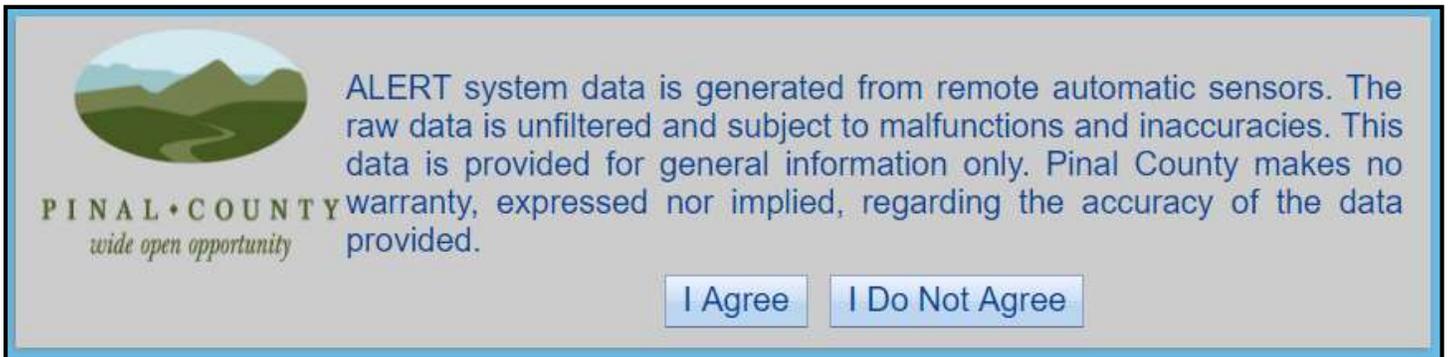


The Pinal County Flood Control District has developed this ALERT Data Access Viewer in order to provide the public with information about the weather station system and its current data.

When you click on the name or the screenshot of the Viewer, the initial screen is a short Disclaimer. Please take the time to read the Disclaimer before clicking "I Agree".

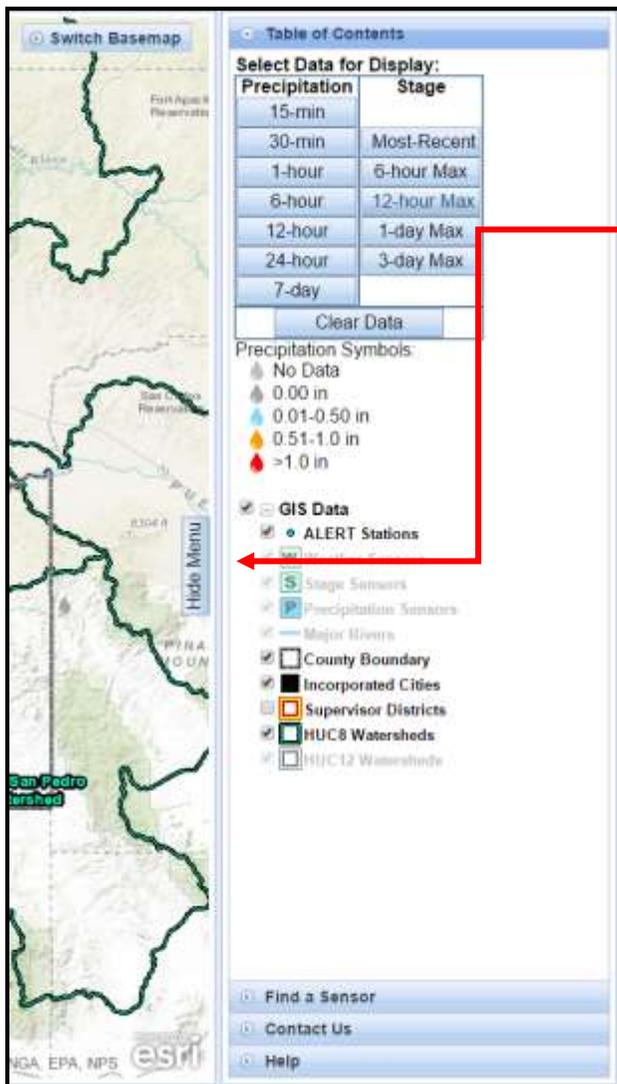


The disclaimer screen features the Pinal County logo on the left, which includes a stylized landscape with mountains and a river, and the text "PINAL COUNTY wide open opportunity". To the right of the logo, a paragraph of text states: "ALERT system data is generated from remote automatic sensors. The raw data is unfiltered and subject to malfunctions and inaccuracies. This data is provided for general information only. Pinal County makes no warranty, expressed nor implied, regarding the accuracy of the data provided." Below this text are two buttons: "I Agree" and "I Do Not Agree".

Welcome to the ALERT Viewer!

To begin, on the right side of the screen, a "Show Menu" button is displayed

When clicked, an interactive menu will appear as pictured below.



The screenshot shows the main interface of the ALERT Viewer. On the left is a map of the San Pedro Watershed. On the right is a "Table of Contents" panel. The panel has a "Select Data for Display:" section with a table of options for precipitation and stage data. Below this is a "Precipitation Symbols:" section with color-coded icons for different precipitation levels. Further down is a "GIS Data" section with checkboxes for various layers like "ALERT Stations", "Stage Sensors", "Precipitation Sensors", "Major Rivers", "County Boundary", "Incorporated Cities", "Supervisor Districts", "HUC8 Watersheds", and "HUC12 Watersheds". At the bottom of the panel are four buttons: "Find a Sensor", "Contact Us", and "Help". A red arrow points from the "Hide Menu" button on the map to the "Table of Contents" panel.

Select Data for Display:	
Precipitation	Stage
15-min	
30-min	Most-Recent
1-hour	6-hour Max
6-hour	12-hour Max
12-hour	1-day Max
24-hour	3-day Max
7-day	

The menu can be hidden again by clicking Hide Menu as found here

The menu contains four components:

- Table of Contents**
- Find a Sensor**
- Contact Us**
- Help**

This document will now take the user through each Component of the menu as well as provide instructions for other features included in the ALERT Viewer.

The Table of Contents Component

This component allows the user to view data in the Viewer window as needed. Precipitation, stage (water level in a wash with respect to a chosen reference height), and GIS data layers can be turned on/off by the user. It is recommended that the user click boxes and tabs around the Table of Contents to become familiar with how the site works and to better customize the Viewer window to meet whatever needs he/she might have.

Table of Contents

Select Data for Display:

Precipitation	Stage
15-min	
30-min	Most-Recent
1-hour	6-hour Max
6-hour	12-hour Max
12-hour	1-day Max
24-hour	3-day Max
7-day	

Clear Data

Precipitation Symbols:

- No Data
- 0.00 in
- 0.01-0.50 in
- 0.51-1.0 in
- >1.0 in

GIS Data

- ALERT Stations
- Weather Sensors
- Stage Sensors
- Precipitation Sensors
- Major Rivers
- County Boundary
- Incorporated Cities
- Supervisor Districts
- HUC8 Watersheds
- HUC12 Watersheds

Find a Sensor

Contact Us

Help

Display of precipitation and stage data can be manipulated here

The default display upon loading is precipitation within the last 24-hours.

If the user desires to see other precipitation data he/she can click on any of the other tabs seen. The same is applied for stage data.

A symbol key is shown here for both precipitation and stage symbols (whichever is currently displayed)

Layers can be turned on/off here

The layers that open by default are ALERT Stations, Pinal County Boundary, Incorporated City Boundaries within Pinal County, and the USGS HUC8 Watersheds.

Please note that some layers are only visible when zoomed in. Sometimes layers can only be selected or deselected when zoomed out.

To go to another Component, click on one of the tabs here

The Find a Sensor Component

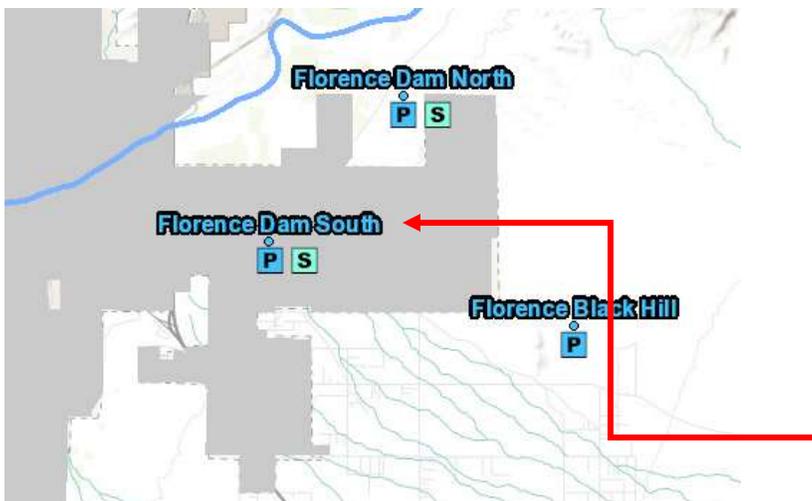
The screenshot shows a web interface with a 'Table of Contents' menu where 'Find a Sensor' is selected. Below the menu is a search section titled 'Search by Sensor Name or ID:' with a text input field containing 'Name/ID', a 'Search' button, and a 'Clear Search' button. Below the search section is a table with columns 'ID', 'Type', and 'Name'. The text 'Click on a row to zoom to the selected sensor:' is positioned above the table.

This component allows the user to search for sensors by ALERT ID or name.

Click the Search by Sensor Name or ID box to type in search criteria. The user can enter full or partial IDs or names - the search is not case sensitive.

For example, if the user knows the name of the sensor as Florence he/she can enter "Flor" or "Florence" in the box then click Search. The results will return a number of sensors as shown in this example.

The user can select a specific sensor, which will automatically zoom the Viewer window into the station of interest.



The screenshot shows the search results table with the search criteria 'Flor' entered in the input field. The table lists various sensors with their IDs, types, and names. The row for ID 735 is highlighted in blue.

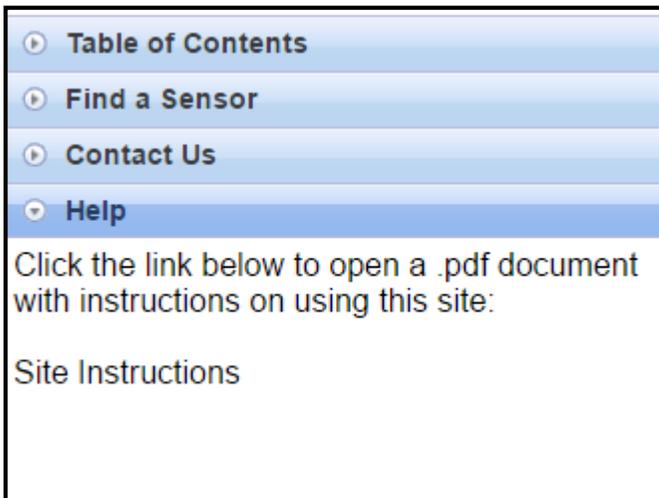
ID	Type	Name
710	Precipitation_Gage	Florence Abbot
715	RTU_0850_Battery	Florence Abbot
720	Precipitation_Gage	Florence Black Hill
725	RTU_0850_Battery	Florence Black Hill
730	Precipitation_Gage	Florence Dam South
733	Stream_Gage_PT	Florence Dam South
735	RTU_0850_Battery	Florence Dam South
740	Precipitation_Gage	Florence Dam North
743	Stream_Gage_PT	Florence Dam North
745	RTU_0850_Battery	Florence Dam North
6730	Precipitation_Gage	Florence Junction

The Contact Us Component



This allows users the option to send an email to Pinal County Flood Control or be redirected to an online comment form.

The Help Component



By clicking the Site Instructions link the user is provided with this instruction manual.

Other Features

Viewer Window Graphics

On the Viewer window are graphics (or icons) for each of the ALERT data stations - Weather (W), Stage (S), and Precipitation (P) near Pinal County. The graphics vary in color depending on the data selected but are consistent in shape with raindrops for precipitation or circles for stage.



The user can click on any of the station graphics to view more data from the station. When a station graphic is selected a Heads-Up display appears in the upper left corner of the Viewer window as shown below. From the Heads-Up display the user can view more information from the station.

The station name links to a site with the station's location, date of installation, sensor type, etc.

The user can select a duration/period for precipitation or stage/discharge data he/she would like to view just below

The arrow only shows when the Most-Recent data is selected. The up arrow indicates a rise in stage while a down arrow indicates a falling stage.

The user can click here to view a breakdown of the statistical significance of recent rainfall (over the past 7 days) as shown here

Last report gives the user the last reading of the sensor and when it was read

Precipitation Depth (inches)	Storm Recurrence Interval										Current Values
	1-yr	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr	200-yr	500-yr	1000-yr	
15 min	0.264	0.514	0.895	0.832	1.019	1.161	1.306	1.454	1.649	1.8	0
30 min	0.531	0.882	0.956	1.12	1.372	1.563	1.756	1.958	2.221	2.424	0
1 hr	0.867	0.856	1.158	1.366	1.698	1.835	2.177	2.423	2.748	3	0
6 hr	0.977	1.234	1.576	1.848	2.224	2.519	2.826	3.158	3.569	3.91	0
12 hr	1.127	1.422	1.795	2.089	2.49	2.799	3.116	3.436	3.87	4.205	46.837
24 hr	1.304	1.656	2.14	2.526	3.061	3.481	3.919	4.373	5.002	5.467	1.182
7 days	1.796	2.291	3.016	3.659	4.439	5.117	5.835	6.589	7.685	8.561	8.822

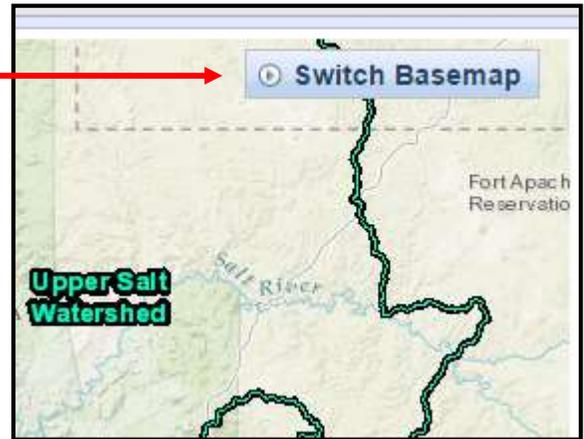
The Sensor List provides the user with a tabular listing of all of the sensors at that station.

Sensor List			
730	Precipitation	Data Table	Data Graph
733	Stream Gage PT	Data Table	Data Graph
735	3206 Battery	Data Table	Data Graph

A list of the last 10 readings from each sensor is available to the user in graph and tabular form

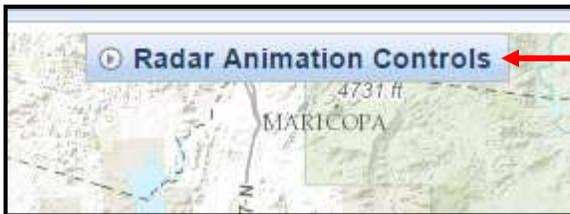
Switch Basemap

In the upper right corner of the Viewer window is a Switch Basemap option as seen here

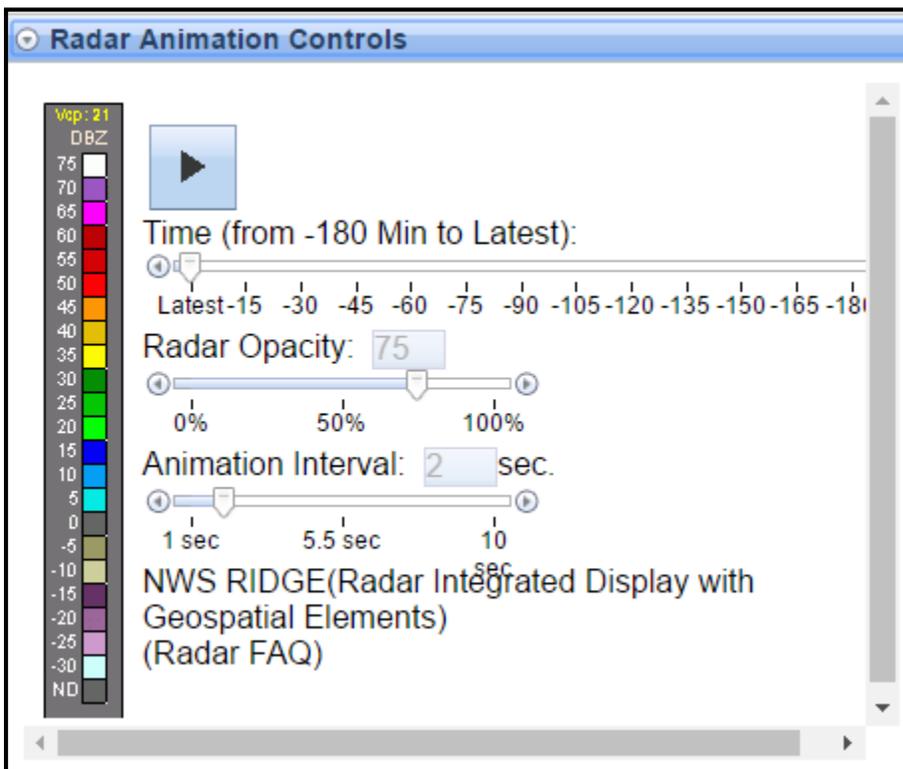


The default basemap is a Topographic map. If the user would like to change the map in the Viewer window he/she is provided with a number of other map options.

Radar Animation Controls



In the top-middle of the Viewer window is a Radar Animation Controls option as seen here (note that radar animation controls are not available on mobile devices)



Wsp: 21
DBZ

75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
-5
-10
-15
-20
-25
-30
ND

▶

Time (from -180 Min to Latest):

Latest -15 -30 -45 -60 -75 -90 -105 -120 -135 -150 -165 -180

Radar Opacity: 75

0% 50% 100%

Animation Interval: 2 sec.

1 sec 5.5 sec 10 sec

NWS RIDGE(Radar Integrated Display with Geospatial Elements)
(Radar FAQ)

The user is allowed to view the Radar in the Viewer window over the past 180 minutes (3 hours) by 15 minute intervals. Radar Opacity (transparency) and Animation Intervals can be changed to meet the user's needs. Note that radar images may not display until all are loaded.