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Weather Database Tutorial

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How to access the database...

Step 1: Go to <http://www.westernwx.com/weatherdb/> and login using your username and password.

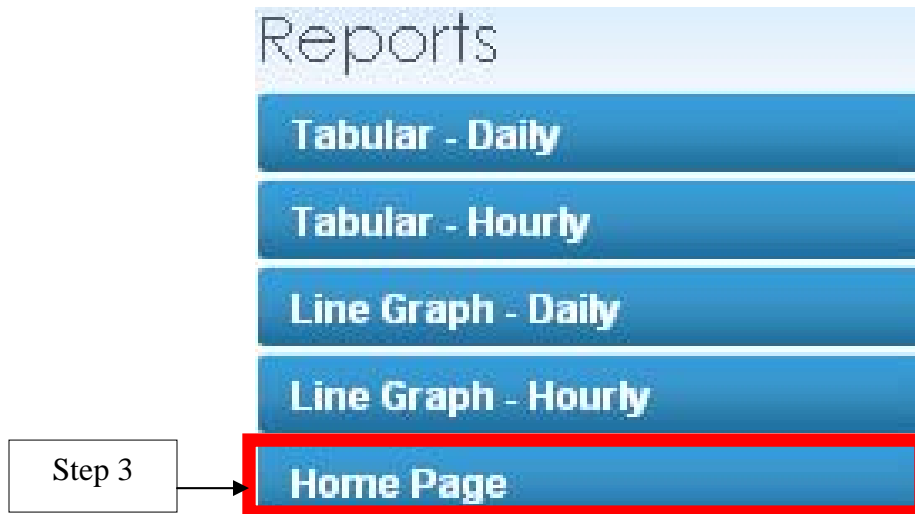
- This will take you to your Western Weather Group webpage.

Step 2: Click the link on your webpage titled NEW Weather Database

-you are now logged into the weather database which allows you to:

1. View the latest observations (hourly and daily)
2. View daily data (yesterday, the past week, the current month, and a custom date range)
3. View hourly data (yesterday, the past week, the current month, and a custom date range)
4. View line graphs of hourly and daily data.

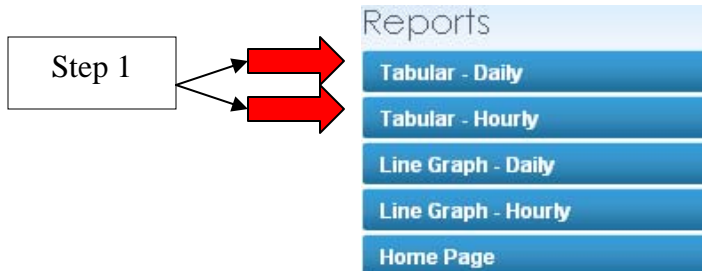
Step3: To return to your client webpage click on Home Page located on the toolbar to the left



How to use the database...

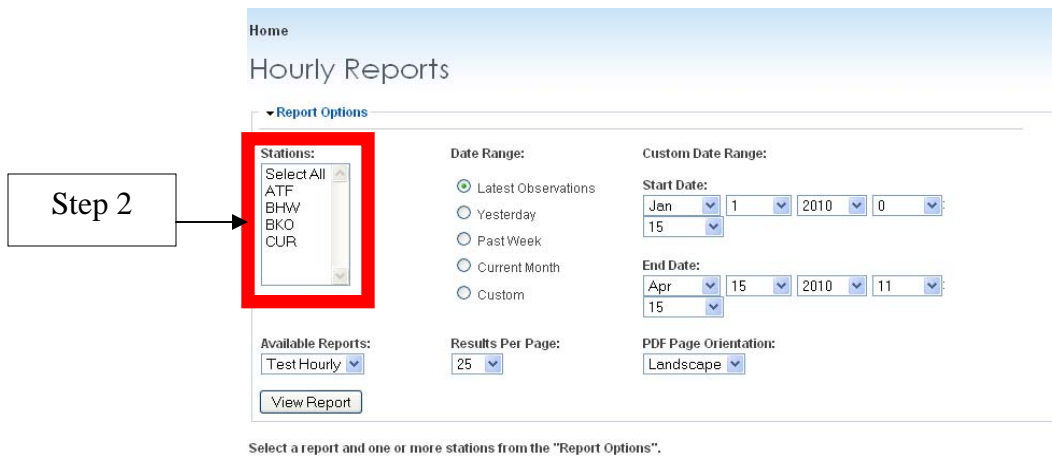
A. View the Latest Observations

Step 1: Choose either Daily or Hourly data from the toolbar on the left.

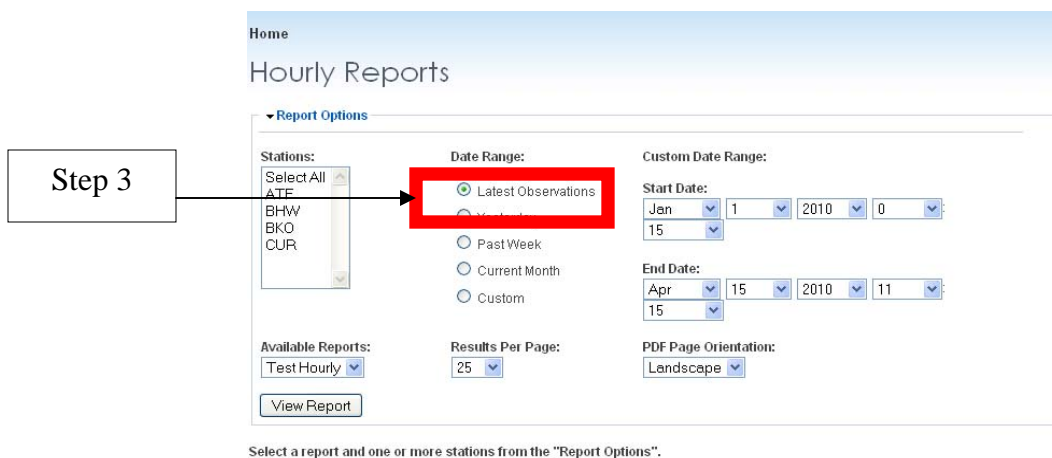


Step 2: Select station(s) desired or click Select All within the Stations box

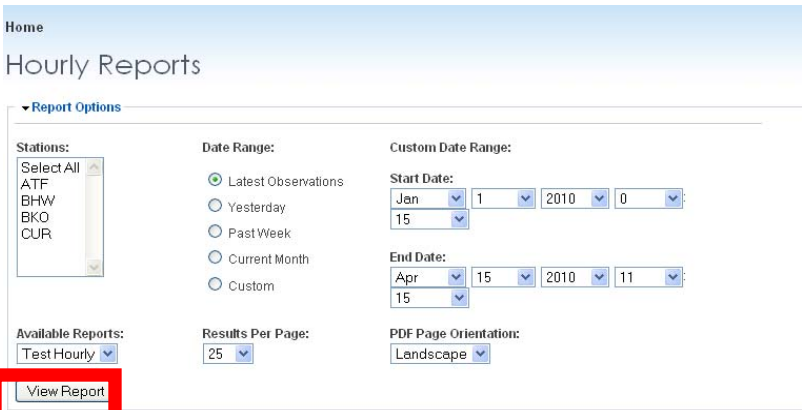
Note: A station or Select All must be selected



Step 3: Select Latest Observations if not already selected under Date Range



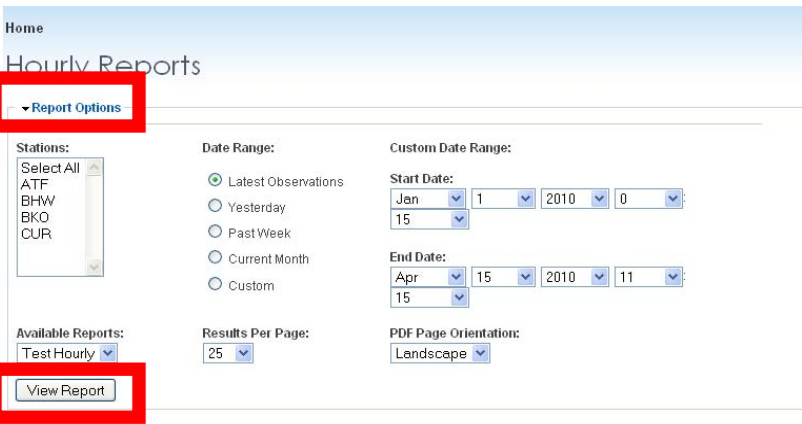
Step 4: Select the report desired under the Available Reports
Note: These are set by Western Weather Group



The screenshot shows the 'Hourly Reports' interface. Under the 'Report Options' section, the 'Available Reports' dropdown is set to 'Test Hourly'. The 'View Report' button is highlighted with a red box. A box labeled 'Step 4' has an arrow pointing to this button. Below the form, a note reads: 'Select a report and one or more stations from the "Report Options".'

Step 5: Click View Report

Step 6: Click Report Options at the top of the report to change the settings.
NOTE: You cannot go back in your browser to clear the report. The report can only be cleared by creating a new report or logging out and then logging back in.

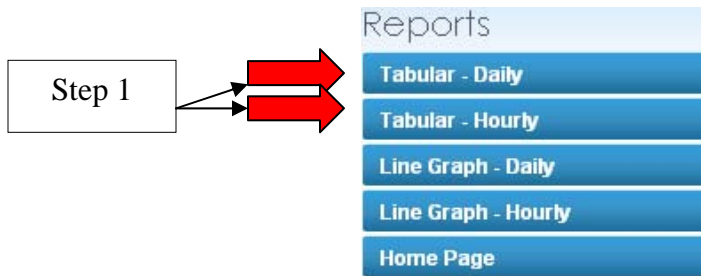


The screenshot shows the 'Hourly Reports' interface. The 'Report Options' dropdown is highlighted with a red box, and a box labeled 'Step 6' has an arrow pointing to it. The 'View Report' button is also highlighted with a red box, and a box labeled 'Step 5' has an arrow pointing to it. Below the form, a note reads: 'Select a report and one or more stations from the "Report Options".'

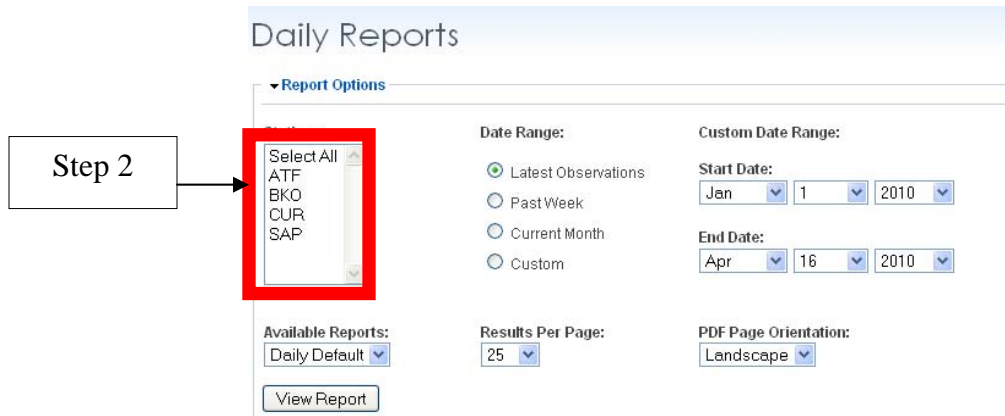
B. View Daily or Hourly Data

Step 1: Choose Daily/Hourly data from the toolbar on the left.

- Daily: Displays data on a daily interval (Max/Min Temperature, Avg. Temperature, Daily Precipitation, etc.)
- Hourly: Displays data on an hourly interval (Temperature, Dew Point, Relative Humidity, Wind Speed, Hourly Precipitation, etc.)



Step 2: Select station(s) desired or click Select All within the Stations box



- Step 3: Choose a preset date range or a custom date range
- Latest Observations: Displays just yesterday's observation
 - Past Week: Displays the last seven days worth of observations
 - Current Month: Displays all observations for the current month
 - Custom: Displays all of the observations between the custom date range which is defined on the right hand side by the start date and the end date.

Daily Reports

▼ Report Options

Stations:
Select All
ATF
BKO
CUR
SAP

Date Range:
 Latest Observations
 Past Week
 Current Month
 Custom

Custom Date Range:
Start Date: Jan 1 2010
End Date: Apr 16 2010

Available Reports: Daily Default
Results Per Page: 25
PDF Page Orientation: Landscape

View Report

- Step 4: Select the report desired under the Available Reports
- NOTE:** These are set by Western Weather Group

Daily Reports

▼ Report Options

Stations:
Select All
ATF
BKO
CUR
SAP

Date Range:
 Latest Observations
 Past Week
 Current Month
 Custom

Custom Date Range:
Start Date: Jan 1 2010
End Date: Apr 16 2010

Available Reports: Daily Default
Results Per Page: 25
PDF Page Orientation: Landscape

View Report

Step 5: Click View Report

Step 6: Click Report Options at the top of the report to change the settings.

Note: You cannot click go back to clear the report. The report can only be cleared by creating a new report or logging out and then logging back in.

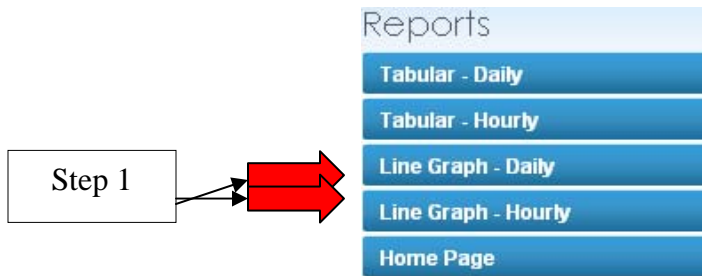
The screenshot shows the 'Daily Reports' interface. At the top, there is a header 'Daily Reports' and a dropdown menu labeled 'Report Options' which is highlighted with a red box and an arrow pointing from a box labeled 'Step 6'. Below this, the interface is divided into several sections: 'Stations:' with a list box containing 'Select All', 'ATF', 'BKO', 'CUR', and 'SAP'; 'Date Range:' with radio buttons for 'Latest Observations' (selected), 'Past Week', 'Current Month', and 'Custom'; 'Custom Date Range:' with 'Start Date' (Jan 1, 2010) and 'End Date' (Apr 16, 2010) fields; 'Available Reports:' with a dropdown menu set to 'Daily Default'; 'Results Per Page:' with a dropdown menu set to '25'; and 'PDF Page Orientation:' with a dropdown menu set to 'Landscape'. At the bottom, there is a 'View Report' button highlighted with a red box and an arrow pointing from a box labeled 'Step 5'.

C. View Daily/Hourly Line Graph

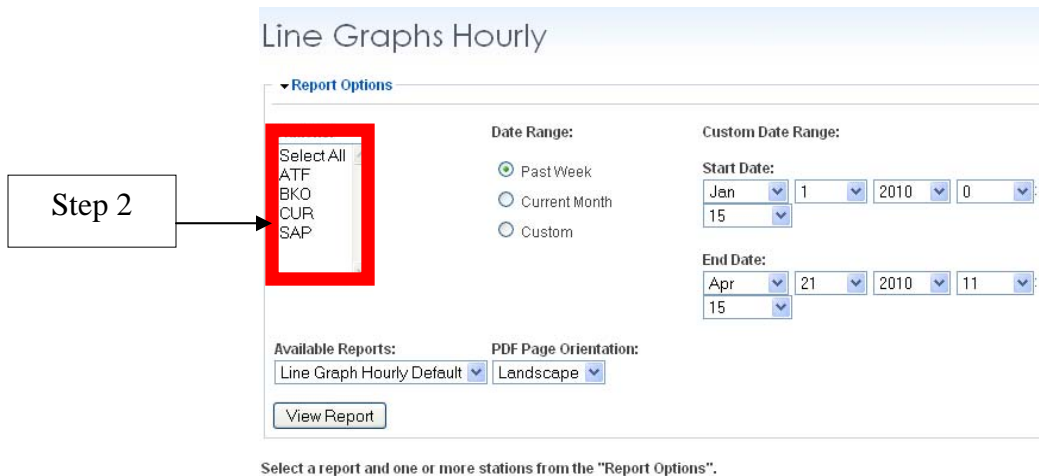
Step 1: Choose Line Graph – Daily or Hourly from the toolbar on the left.

-Line Graph-Daily: Displays data on a daily interval (Max/Min Temperature, Avg. Temperature, Daily Precipitation, etc.)

-Line Graph-Hourly: Displays data on a hourly interval (Temperature, Dew Point, Relative Humidity, Wind Speed, Hourly Precipitation, etc.)



Step 2: Select station(s) desired or click Select All within the Stations box



- Step 3: Choose a preset date/hour range or a custom date/hour range
- Past Week: Displays the last seven days worth of observations
 - Current Month: Displays all observations for the current month
 - Custom: Displays all of the observations between the custom date range which is defined on the right hand side by the start date and the end date.

The screenshot shows the 'Line Graphs Hourly' report configuration interface. Under the 'Report Options' section, there are three radio buttons for 'Date Range': 'Past Week' (selected), 'Current Month', and 'Custom'. To the right, the 'Custom Date Range' section is highlighted with a red box, showing a 'Start Date' of Jan 15, 2010 and an 'End Date' of Apr 21, 2010. A callout box labeled 'Step 3' points to the 'Date Range' radio buttons.

Select a report and one or more stations from the "Report Options".

- Step 4: Select the report desired under the Available Reports
- Note:** These are set by Western Weather Group

The screenshot shows the 'Line Graphs Hourly' report configuration interface. The 'Available Reports' dropdown menu is highlighted with a red box and set to 'Line Graph Hourly Default'. A callout box labeled 'Step 4' points to this dropdown menu. The 'Date Range' section shows 'Past Week' selected, and the 'Custom Date Range' section shows the same dates as in the previous screenshot.

Select a report and one or more stations from the "Report Options".

Step 5: Click View Report

The screenshot shows the 'Line Graphs Hourly' configuration page. Under the 'Report Options' section, there are three columns: 'Stations' with a dropdown menu showing 'Select All', 'ATF', 'BKO', 'CUR', and 'SAP'; 'Date Range' with radio buttons for 'Past Week', 'Current Month', and 'Custom'; and 'Custom Date Range' with 'Start Date' (Jan 1, 2010 0) and 'End Date' (Apr 21, 2010 11) fields. Below these are 'Available Reports' (Line Graph Hourly Default) and 'PDF Page Orientation' (Landscape). A red box highlights the 'View Report' button, which is pointed to by a callout box labeled 'Step 5'. Below the interface, text reads: 'Select a report and one or more stations from the "Report Options".'

Step 6: Select the Graph Value that is desired and then click Refresh

Step 7: Click Report Options at the top of the report to change the settings.

Note: You cannot click go back to clear the report. The report can only be cleared by creating a new report or logging out and then logging back in.

The screenshot shows the 'Line Graphs Hourly' report interface. At the top, there is a 'Home' link and the title 'Line Graphs Hourly'. Below the title is a 'Report Options' dropdown menu, which is highlighted with a red box and pointed to by a callout box labeled 'Step 7'. Below the dropdown is a 'Temperature (F)' dropdown menu and a 'Refresh' button, both highlighted with a red box and pointed to by a callout box labeled 'Step 6'. The main content is a line graph titled 'Temperature (F)' showing temperature data for four stations: ATF, BKO, CUR, and SAP. The graph shows a daily temperature cycle with peaks around 75-80°F and troughs around 45-50°F. The x-axis shows dates from 04-14-10 to 04-21-10. A legend on the right identifies the lines for each station: ATF (black), BKO (blue), CUR (yellow), and SAP (green). Above the graph, there is a 'Generate PDF' link.

Additional Features

A. View/Print the data in a PDF format

Step 1: Choose the PDF Page Orientation when creating report

Daily Reports

▼ Report Options

Stations: Select All, ATF, BKO, CUR, SAP

Date Range:

 Latest Observations

 Past Week

 Current Month

 Custom

Custom Date Range:

Start Date: Jan 1 2010

End Date: Apr 16 2010

Available Reports: Daily Default

Results Per Page: 25

PDF Page Orientation: Landscape

View Report

Step 1

Step 2: Click on PDF at the top of the report

Hourly Reports

► Report Options

Default Hourly Report
Generated For: Wilbur-Ellis, Hughson, CA
Hourly Default
Stations: ATF, BKO, CUR, SAP
Generate: PDF Ex | CSV

Step 2

Date ▲	Station	Time	Temperature (F)	Dew Point (F)	RH (%)	Avg Wind Dir	Avg Wind Spd (mph)	Precip (in.)	Total Precip Today (in.)	Min Temp (F)	Max Temp (F)
4/21/2010	ATF	0400	46.9	43.8	89	SW	0.0	0.00	0.01	46.3	47.4
4/21/2010	SAP	0400	45.9	44.4	95	SW	0.0	0.00	0.03	45.6	47.2
4/21/2010	CUR	0400	46.6	45.0	94	S	0.0	0.00	0.00	45.6	47.8
4/21/2010	BKO	0400	46.8	45.1	94	E	0.0	0.00	0.00	45.1	48.0
Total/Avg	---	---	46.6	44.6	93	---	0	0	0.01	45.7	47.6
Maximum	---	---	46.9	45.1	95	---	0	0	0.03	46.3	48

B. View the data in Microsoft Excel or save the data as a CSV file
Step 1: Click on Excel or CSV at the top of the report

Hourly Reports

Report Options

Default Hourly Report
 Generated For: Wilbur-Ellis, Hughson, CA
 Hourly Default
 Stations: ATF, BKO, CUR, SAP
 Generate: PDF Excel CSV

Date	Station	Time	Temperature (F)	Dew Point (F)	RH (%)	Avg Wind Dir	Avg Wind Spd (mph)	Precip (in.)	Total Precip Today (in.)	Min Temp (F)	Max Temp (F)
4/21/2010	ATF	0400	46.9	43.8	89	SW	0.0	0.00	0.01	46.3	47.4
4/21/2010	SAP	0400	45.9	44.4	95	SW	0.0	0.00	0.03	45.6	47.2
4/21/2010	CUR	0400	46.6	45.0	94	S	0.0	0.00	0.00	45.6	47.8
4/21/2010	BKO	0400	46.8	45.1	94	E	0.0	0.00	0.00	45.1	48.0
Total/Avg	---	---	46.6	44.6	93	---	0	0	0.01	45.7	47.6
Maximum	---	---	46.9	45.1	95	---	0	0	0.03	46.3	48

Step 2: Choose whether to “Save the File” or “Open the File”

C. Sort the data by clicking on the parameter header

Hourly Reports

Report Options

Default Hourly Report
 Generated For: Wilbur-Ellis, Hughson, CA
 Hourly Default
 Stations: ATF, BKO, CUR, SAP
 Generate: PDF Excel CSV

Date	Station	Time	Temperature (F)	Dew Point (F)	RH (%)	Avg Wind Dir	Avg Wind Spd (mph)	Precip (in.)	Total Precip Today (in.)	Min Temp (F)	Max Temp (F)
4/21/2010	ATF	0400	46.9	43.8	89	SW	0.0	0.00	0.01	46.3	47.4
4/21/2010	SAP	0400	45.9	44.4	95	SW	0.0	0.00	0.03	45.6	47.2
4/21/2010	CUR	0400	46.6	45.0	94	S	0.0	0.00	0.00	45.6	47.8
4/21/2010	BKO	0400	46.8	45.1	94	E	0.0	0.00	0.00	45.1	48.0
Total/Avg	---	---	46.6	44.6	93	---	0	0	0.01	45.7	47.6
Maximum	---	---	46.9	45.1	95	---	0	0	0.03	46.3	48

D. Ability to add your company logo to the top of the database page or to the PDF reports

Frequently Asked Questions (F.A.Q.)

Q. I have created a report but how do I modify it or change the options?

A. Click on Report Options at the top of the report

Hourly Reports

► Report Options

Default Hourly Report
Generated For: Wilbur-Ellis, Hughson, CA
Hourly Default
Stations: ATF, BKO, CUR, SAP
Generate: PDF Excel CSV

Date ▲	Station	Time	Temperature (F)	Dew Point (F)	RH (%)	Avg Wind Dir	Avg Wind Spd (mph)	Precip (in.)	Total Precip Today (in.)	Min Temp (F)	Max Temp (F)
4/21/2010	ATF	0400	46.9	43.8	89	SW	0.0	0.00	0.01	46.3	47.4
4/21/2010	SAP	0400	45.9	44.4	95	SW	0.0	0.00	0.03	45.6	47.2
4/21/2010	CUR	0400	46.6	45.0	94	S	0.0	0.00	0.00	45.6	47.8
4/21/2010	BKO	0400	46.8	45.1	94	E	0.0	0.00	0.00	45.1	48.0
Total/Avg	---	---	46.6	44.6	93	---	0	0	0.01	45.7	47.6
Maximum	---	---	46.9	45.1	95	---	0	0	0.03	46.3	48

Q. I want to view more/different data in my report/line graph.

A. Contact Western Weather Group

Phone #: (530) 342-1700

Q. How can I add my company logo to the top of the database page or report?

A. Send a JPEG image of your company logo to info@westernwx.com