

Past & Forecast Charts/Tables

This section of OK-FIRE is accessible via the left menu link entitled, “Past & Forecast Charts/Tables”. It allows the user to create charts or tables for specific variables at any Mesonet site. One can do this for PAST periods as well as FORECAST periods. Note the NAM forecast currently being used as well as the expected update time is shown within the black title bar.

CHARTS

The default settings upon entering this page are the CHART mode (“Display Mode”) and FORECAST mode (“Time Mode”). The standard meteogram (fire weather forecast) is the default in the “Variable(s)” field and the duration is the full 84-hour period of the NAM forecast. This is one of the most frequently used charts in OK-FIRE.



Past & Forecast Charts/Tables

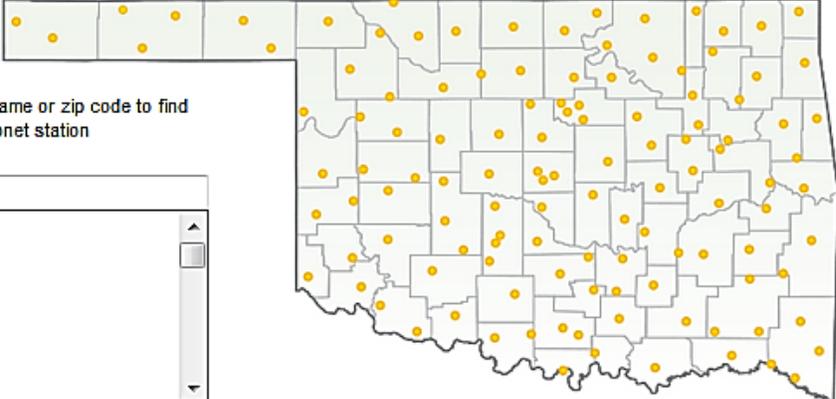
Forecast based on 7 am CDT 06/28/17 NAM; NEXT forecast update expected 5 pm CDT 06/28/17

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Select Mesonet Station

Type in city name or zip code to find nearest Mesonet station

- [Acme](#)
- [Ada](#)
- [Altus](#)
- [Alva](#)
- [Antlers](#)
- [Apache](#)



Display Mode:

Charts Tables

Time Mode:

Past Forecast

Selected Station:

Stillwater

Variable(s) Duration Interval

Default Fuel Model: T - Tallgrass with brush

Current Fuel Model: T - Tallgrass with brush

[Fuel Model Descriptions](#)

To choose the other time mode (“Past”), click on that selection under “Time Mode”. To see what variables are available for past time periods, click on the “Variable(s)” pull-down menu. Note that in the “Forecast” time mode, variables not available for display appear in lighter font and cannot be selected.

Select Mesonet Station

Type in city nearest Mesonet Station

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Display Mode: Charts Tables

Time Mode: Past Forecast

Variable(s) Standard Meteogram

- Standard Meteogram
- Dispersion and Wind Conditions
- Burning Index (BI)
- Spread Component (SC)
- Energy Release Component (ERC)
- Ignition Component (IC)
- BI and IC
- BI and SC
- BI and ERC
- 1 & 10-Hr Dead Fuel Moisture
- 100 & 1000-Hr Dead Fuel Moisture**
- KBDI
- Soil Moisture
- Live Herb Moisture
- Live Woody Moisture
- Visual Greenness
- Relative Greenness

Selected Station: Stillwater

Duration Past 24 Hrs Interval 1 Hr

Select the variable of choice and then click on the “Duration” pull-down menu to select a time period over which to create the chart. You can also select the interval of data displayed by clicking on the “Interval” pull-down menu.

Display Mode: Charts Tables

Time Mode: Past Forecast

Selected Station: Stillwater

Variable(s) 100 & 1000-Hr Dead Fuel Moisture

Duration Past 1 Week

Interval Daily

Default Fuel Model: T - Tallgrass with brush
Current Fuel Model: F - Intermediate brush
[Fuel Model Descriptions](#)

Get Data

- Past 1 Week
- Past 2 Weeks
- Past 4 Weeks
- Past 8 Weeks
- Past 16 Weeks**
- Past 34 Weeks
- Past 52 Weeks

When you have your parameters selected, click on “Get Data” to get the chart of your choice.

In any chart that appears (in the example below, the 84-hr NAM forecast meteogram is selected), you can put your mouse cursor over any part of the chart to see the day/time and values of the variables. These all appear in a pop-up data box:



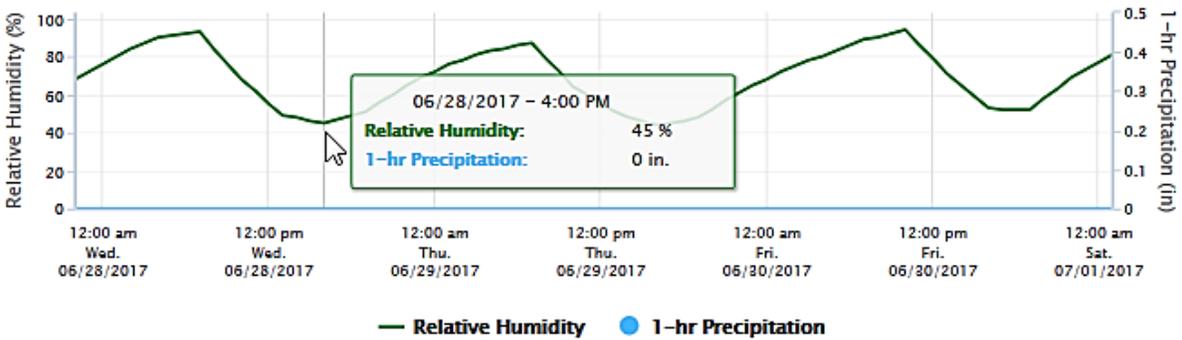
Past & Forecast Charts/Tables

Forecast based on 1 pm CDT 06/27/17 NAM; NEXT forecast update expected 11 pm CDT 06/27/17

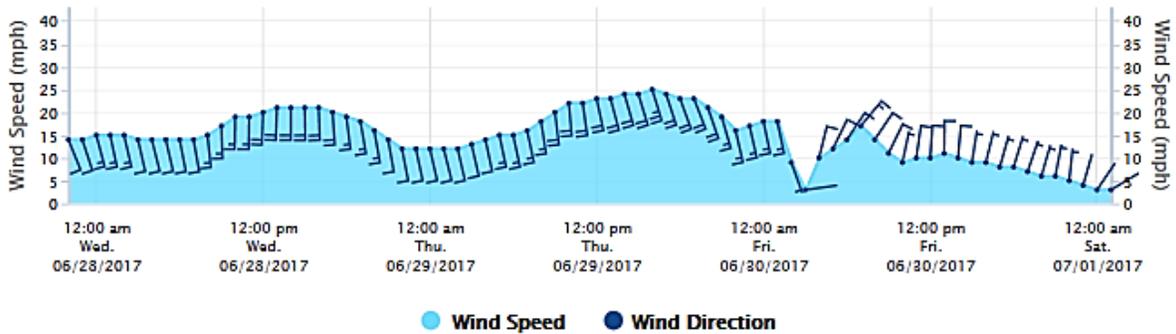
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Forecast Meteogram Chart for Stillwater



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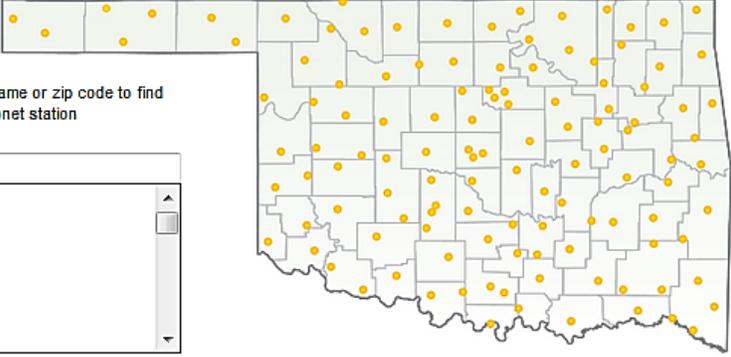


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TABLES

To create a table, select “Tables” under “Display Mode” and then the time period “Past” or “Forecast” under “Time Mode”.

Select Mesonet Station



Type in city name or zip code to find nearest Mesonet station

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Display Mode:
 Charts Tables

Time Mode:
 Past Forecast

Selected Station:
Stillwater

Variable(s) Duration Interval

Default Fuel Model: T - Tallgrass with brush
Current Fuel Model: F - Intermediate brush
[Fuel Model Descriptions](#)

Once you’ve selected the time mode (in the example below, “Past” was chosen), click on the “Variable(s)” pull-down menu to see the variables available for tables in that time mode. Select one of the variable options.

Display Mode:
 Charts Tables

Time Mode:
 Past Forecast

Selected Station:
Stillwater

Variable(s) Duration Interval

- Fire Weather
- Fire Danger & Weather**
- Greenness, Fuel Moisture, and KBDI
- Dispersion and Wind Conditions

Default Fuel Model: T - Tallgrass with brush
Current Fuel Model: F - Intermediate brush
[Fuel Model Descriptions](#)

After you have selected one of the variable options, click on the “Duration” pull-down menu to see the time period options over which to run the table and select one of them. You can also select the interval of the data in the table by clicking on the “Interval” pull-down menu.

Variable(s) Duration Interval

Default Fuel Model: T - Tallgrass with brush
 Current Fuel Model: F - Intermediate brush
[Fuel Model Descriptions](#)

Once your parameters have been selected, click on “Get Data” to get the table you desire.

Past & Forecast Charts/Tables
Forecast based on 1 pm CDT 06/27/17 NAM; NEXT forecast update expected 11 pm CDT 06/27/17

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Past Fire Danger & Weather Table for Stillwater

(NFDRS Fuel Model T - Tallgrass with brush)

| Date | TAIR (°F) | RELH (%) | WSPD (mph) | RAIN_24H (in) | BI | SC | ERC |
|------------------------------|-----------|----------|------------|---------------|----|----|-----|
| Tue Jun 27, 2017 9:00 pm CDT | 84 | 51 | 8 | 0.00 | 8 | 3 | 3 |
| Tue Jun 27, 2017 8:00 pm CDT | 87 | 46 | 10 | 0.00 | 10 | 4 | 3 |
| Tue Jun 27, 2017 7:00 pm CDT | 89 | 45 | 11 | 0.00 | 11 | 5 | 3 |
| Tue Jun 27, 2017 6:00 pm CDT | 91 | 43 | 13 | 0.00 | 12 | 6 | 3 |
| Tue Jun 27, 2017 5:00 pm CDT | 90 | 45 | 10 | 0.00 | 10 | 4 | 3 |
| Tue Jun 27, 2017 4:00 pm CDT | 90 | 47 | 12 | 0.00 | 10 | 5 | 3 |

In this example, the past “Fire Danger & Weather” table has been selected for Stillwater. Since the fire model output (BI, SC, ERC, and IC) depends on fuel model, note that the fuel model selected for Stillwater is shown above the table. The table starts with the latest hour and proceeds backward in time in 1-hour intervals (the selected “Interval” option).

While there is not time to comment on all the features, we should touch on a few useful ones at this point.

If one clicks on the triangle in the “Date” column, one can alter the time sequence of the table. The default (for PAST mode) is to go backward in time, starting with the latest data. However, clicking that triangle (encircled in orange) will reverse the table starting with the oldest data and continuing in chronological order.

| Date | TAIR (°F) | RELH (%) | WSPD (mph) | RAIN_24H (in) | BI | SC | ERC |
|------------------------------|-----------|----------|------------|---------------|----|----|-----|
| Tue Jun 27, 2017 9:00 pm CDT | 84 | 51 | 8 | 0.00 | 8 | 3 | 3 |
| Tue Jun 27, 2017 8:00 pm CDT | 87 | 46 | 10 | 0.00 | 10 | 4 | 3 |
| Tue Jun 27, 2017 7:00 pm CDT | 89 | 45 | 11 | 0.00 | 11 | 5 | 3 |
| Tue Jun 27, 2017 6:00 pm CDT | 91 | 43 | 13 | 0.00 | 12 | 6 | 3 |
| Tue Jun 27, 2017 5:00 pm CDT | 90 | 45 | 10 | 0.00 | 10 | 4 | 3 |
| Tue Jun 27, 2017 4:00 pm CDT | 90 | 47 | 12 | 0.00 | 10 | 5 | 3 |

Another useful feature is the selection of WHICH variables to show in this table. If you click on the second button (enclosed in the orange circle) just above the table to the upper right, you will find a list of the current variables in the table (all checked). If you UNcheck any particular variable, it will not show up in the table.

for Stillwater

| WSPD (mph) | RAIN_24H (in) | ERC |
|------------|---------------|-----|
| 8 | 0.00 | 3 |
| 10 | 0.00 | 3 |
| 11 | 0.00 | 3 |
| 13 | 0.00 | 3 |
| 10 | 0.00 | 3 |
| 12 | 0.00 | 3 |
| 12 | 0.00 | 3 |
| 10 | 0.00 | 3 |

- 1000-HR (%)
- HERB (%)
- WOODY (%)
- KBDI