New Weather Analysis Tools

OK Water Research Symposium
October 23, 2013
Guthrie
Current Conditions at 1:35 pm CDT

61 °F

Dewpoint: 46 °F
Humidity: 57%
24-hr Rainfall: 0.02 in.
Wind: WSW at 5 mph
Wind Gusts: 9 mph
Pressure: 30.02 in.
Solar Radiation: 748 W/m2
Sunrise: 7:37 am
Sunset: 6:53 pm

Forecast at a Glance

<table>
<thead>
<tr>
<th>Today</th>
<th>Tonight</th>
<th>Tomorrow</th>
<th>Tomorrow Night</th>
<th>Saturday</th>
<th>Saturday Night</th>
<th>Sunday</th>
<th>Sunday Night</th>
<th>Monday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mostly Sunny</td>
<td>Mostly Clear</td>
<td>Chance Rain Showers</td>
<td>Low 49°F</td>
<td>Mostly Sunny</td>
<td>Low 43°F</td>
<td>Mostly Sunny</td>
<td>Low 69°F</td>
<td>Partly Cloudy</td>
</tr>
<tr>
<td>High 67°F</td>
<td>Low 42°F</td>
<td>High 36°F</td>
<td>Wind W at 5-12 mph</td>
<td>High 66°F</td>
<td>Low 48°F</td>
<td>Low 7-8 mph</td>
<td>Wind SW to NW at 3-6 mph</td>
<td></td>
</tr>
<tr>
<td>Wind SE at 3 mph</td>
<td>Wind SE at 5-7 mph</td>
<td>Wind E to NE at 12-13 mph</td>
<td>Wind N to W at 3-9 mph</td>
<td>Wind W to SW at 10-13 mph</td>
<td>Wind WSW to S at 7-12 mph</td>
<td>Wind S at 7-8 mph</td>
<td>Wind SW to NW at 3-6 mph</td>
<td></td>
</tr>
</tbody>
</table>

Forecast data provided by the National Weather Service. See the complete forecast or an Hourly Forecast: graph, table
Developers:
Nathan Bain, Software Manager
Ada Shih, Graphic Designer
Average Plant Available Water in Top 16 inches

Mesonet

September 2003-2012
Created 1:49:44 PM October 17, 2013 CDT. © Copyright 2013
Choose a year and month/season: 2013  September
Select a product: Average Plant Available Water in Top 16 inches
Departure from 2003-2012 Average?  
Display Map

Average Plant Available Water in Top 16 inches

Mesonet

September 2013

Created 1:49:29 PM October 17, 2013 CDT. © Copyright 2013
Choose a year and month/season: Average (2003 – 2012) ▼ September ▼

Select a product: Average Plant Available Water in Top 16 inches ▼

Departure from 2003-2012 Average? □

Display Map

Average Plant Available Water in Top 16 inches
Choose a year and month/season: 2013  September

Select a product: Average Plant Available Water in Top 16 inches

Departure from 2003-2012 Average?

Display Map

Average Plant Available Water in Top 16 inches

Mesonet

September 2013

Created 1:49:29 PM October 17, 2013 CDT. © Copyright 2013
Choose a year and month/season: Average (2003 - 2012)  September

Select a product: Average Plant Available Water in Top 16 inches

Departure from 2003-2012 Average? 

Display Map

Average Plant Available Water in Top 16 inches
Choose a year and month/season: 2013 September

Select a product: Average Plant Available Water in Top 16 inches

Departure from 2003-2012 Average?

Display Map

Mesonet

Average Plant Available Water in Top 16 inches

Departure from Average, September 2013
Mesonet Long-Term Averages - Graphs

Select a Site: Guthrie
Select a Product: Average Air Temperature
Select a Year: Average (2003 – 2012)
Departure from 2003-2012 Avg

Formatting options:
- Smoothed
- Fill Line
- Bold Line

Long-Term Averages
Average Relative Humidity
Average Maximum Dew Point Temperature
Average Minimum Dew Point Temperature
Average Dew Point Temperature
Average Maximum Wind Speed
Average Minimum Wind Speed
Average Wind Speed
Average Maximum Wind Speed Gust
Average Maximum 6.5-foot Wind Speed
Average Minimum 6.5-foot Wind Speed
Average 6.5-foot Wind Speed
Average Maximum Station Pressure
Average Minimum Station Pressure
Average Station Pressure
Average Maximum Mean Sea Level Pressure
Average Minimum Mean Sea Level Pressure
Average Mean Sea Level Pressure
Avg. Maximum 2-inch Soil Temperature Below Sod
Avg. Minimum 2-inch Soil Temperature Below Sod
Avg. 2-inch Soil Temperature Below Bare Soil
Avg. Min. 2-inch Soil Temperature Below Bare Soil
Average 2-inch Soil Temperature Below Bare Soil
Avg. Maximum 4-inch Soil Temperature Below Sod
Avg. Minimum 4-inch Soil Temperature Below Sod
Avg. 4-inch Soil Temperature Below Bare Soil
Avg. Min. 4-inch Soil Temperature Below Bare Soil
Average 4-inch Soil Temperature Below Bare Soil
Avg. Maximum 12-inch Soil Temperature Below Sod
Avg. Minimum 12-inch Soil Temperature Below Sod
Average 12-inch Soil Temperature Below Sod
Average 2-inch Fractional Water Index
Average 10-inch Fractional Water Index
Average 24-inch Fractional Water Index
Total Rainfall
Total Rainfall with Estimates
Total Evaporation
Total Potential Evapotranspiration, Long Crop
Total Potential Evapotranspiration, Short Crop
Average Maximum Solar Radiation
Daily Average of Total Solar Radiation
Daily Average of Estimated Net Radiation
Percent Sunshine
Avg. Max. Plant Available Water in Top 4 inches
Avg. Min. Plant Available Water in Top 4 inches
Average Plant Available Water in Top 4 inches
Avg. Max. Plant Available Water in Top 16 inches
Avg. Min. Plant Available Water in Top 16 inches
Average Plant Available Water in Top 16 inches
Avg. Max. Plant Available Water in Top 32 inches
Avg. Min. Plant Available Water in Top 32 inches
Average Plant Available Water in Top 32 inches
Select a Site: Guthrie
Select a Product: Cumulative Total Rainfall with Estimates
Select a Year: 2011

Long-Term Averages

Guthrie Cumulative Total Rainfall with Estimates, average (cumulative in.)
Guthrie Cumulative Total Rainfall with Estimates, 2011 (cumulative in.)
Long-Term Averages

- **Guthrie Average Plant Available Water in Top 16 inches, 2013 (in.)**
- **Guthrie Daily Average of Estimated Net Radiation, 2013 (MJ/m²)**
- **Guthrie Cumulative Total Rainfall with Estimates, 2013 (cumulative in.)**
- **Guthrie Total Potential Evapotranspiration, Short Crop, 2013 (in.)**
- **Guthrie Average Wind Speed, 2013 (mph)**
- **Guthrie Average Air Temperature, 2013 (F)**
September 9

- Guthrie Average Plant Available Water in Top 16 inches, 2013 (in.): 0.39
- Guthrie Daily Average of Estimated Net Radiation, 2013 (MJ/m^2): 12.2
- Guthrie Cumulative Total Rainfall with Estimates, 2013 (cumulative in.): 33.72
- Guthrie Total Potential Evapotranspiration, Short Crop, 2013 (in.): 0.26
- Guthrie Average Wind Speed, 2013 (mph): 9.0
- Guthrie Average Air Temperature, 2013 (°F): 81.5
Mesonet.org

Thank you