



Mesonet Agweather Wheat Growth Day Counter Description

The Wheat Growth Day Counter (previously Number of Days GDD>0) is a table that shows the number of days when wheat degree-day heat units were positive from a specified planting date. Degree-day heat units are based on a lower air temperature threshold of 40°F (4.4°C) and an upper air temperature threshold of 86°F (30°C).

The Oklahoma Mesonet uses the "Cutoff Method" to calculate degree-day values, based on the following formula:

Degree-days = (Maximum Daily Air Temp + Minimum Daily Air Temp)/2 - 40°F (4.4°C)

When the maximum daily air temperature is above wheat's upper temperature threshold, the maximum daily air temperature is set to 86°F (30°C). Negative degree-day heat unit values are set to zero.

The Wheat Growth Day Count table shows the count of days with positive degree-day heat units accumulated from a specified planting date for a single Mesonet site. The fourth column shows the count of "Wheat Growth Days" for the Mesonet site selected for any corresponding "Date" in the first column.

For additional information on the OSU Nitrogen Use Efficiency, click the "OSU Nitrogen Use Efficiency" Agweather menu item in the "Wheat Fertilization" section.

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