



Mesonet Agweather Pecan Scab Advisor Description

The Mesonet Agweather Pecan Scab Advisor is a Web-based weather tool that has been developed to aid growers in proper timing of fungicide application for pecan scab, a foliar and fruit disease of pecans. Using the Oklahoma Mesonet, the state's automated weather station network, the model calculates daily "pecan scab hours" for each Mesonet site.

Scab Hour:

A scab hour is defined as one hour with relative humidity greater than or equal to 90% and air temperature of 70°F or higher.

Advisor Rules:

Using weather data from the Oklahoma Mesonet, the advisory calculates the number of "scab hours" that have accumulated during the last 14 days (where no current fungicide protection is assumed). If the number of infection hours equals or exceeds the threshold set for a pecan variety, a spray is recommended.

Scab Hour Thresholds based on variety planted:

Highly Susceptible 10 Scab Hours	Moderately Susceptible 20 Scab Hours	Low Susceptibility (resistant) 30 Scab Hours
Burkett	Caddo	* Native Trees *
Squirrel's Delight	Colby	Barton
Western	Creek	Choctaw
Wichita	Giles	Graking
	Kiowa	Kanza
	Maramec	Lakota
	Mohawk	Mount
	Oconee	Nacono
	Shawnee	Osage
	Pawnee	Peruque
		Stuart

Pecan Scab Advisor Season:

The Pecan Scab Advisor runs from March 1 to August 31.

Pecan Scab Advisor Updates:

The Pecan Scab Advisor is updated hourly. Each hour Mesonet data replaces forecast data. The forecast data are updated four times a day. All times and dates use Central Standard Time (CST).

Data Displays:

Statewide Maps

Last 14 days Scab Hours Map

Oklahoma map showing pecan scab hours for the last 14 days. Updated hourly.

Season-long Scab Hours Map

Oklahoma map showing pecan scab hours from March 1st. Updated hourly.

Local Mesonet Site

Scab Spray Advisor

Interactive advisory that shows a graph of accumulated pecan scab hours 14 days after the last fungicide application for a single Mesonet site. Application of a fungicide is recommended when the threshold has been met for the pecan variety the user has selected. The 15-year average and last season's scab hours are included in the graph for



reference. Fields are included for entering **Planting Date** and **Date of Last Spray**. Updated hourly.

Last 14 days and Forecast Scab Hours Graph

Graph that shows the scab hours accumulated over the last 14 days and forecast for the next 84-hours for a single Mesonet site. Updated hourly.

Season-long Scab Hours Table

Table that shows the daily scab hours accumulated since March 1st for a single Mesonet site. The table includes: last effective spray date, air temperature, relative humidity maximums and minimums and rainfall. Updated daily.

Forecast Scab Hours Table

Table that shows the hour-by-hour forecast of pecan scab hours over the next 84-hours for a single Mesonet site. The table includes hourly air temperature, relative humidity, wind speed, wind direction, and 1-hour Rainfall. Updated four times a day.

Past Years

Past Years Pecan Scab Comparison Graph

Graph showing season-long accumulation of pecan scab hours from March 1st through August 31st for the current season, last year's season, the season 2 years ago, and the 15-year average for a single Mesonet site. Updated daily.

Three-year Pecan Scab Comparison Table

Table with season-long accumulation of pecan scab hours from March 1st through August 31st for the current season, last year's season, season 2 years ago, and the 15-year average for a single Mesonet site. Updated daily.

Past Years Daily Scab Comparison Graph

Graph showing season-long daily pecan scab hours from March 1st through August 31st for the current season, last year's season, the season 2 years ago, and the 15-year average for a single Mesonet site. Updated daily.

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