Peanut Leaf Spot Advisor

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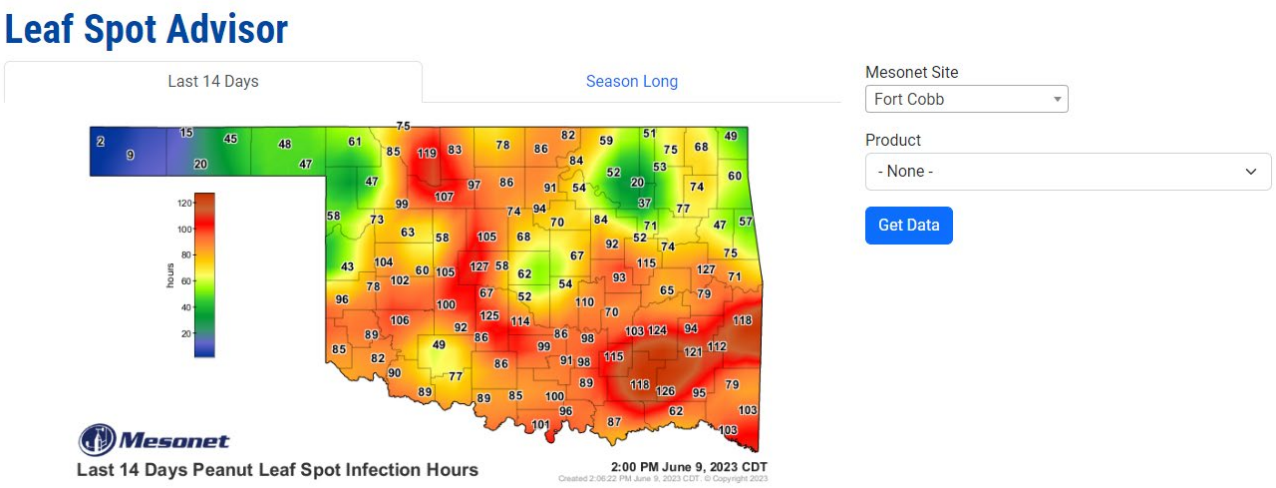
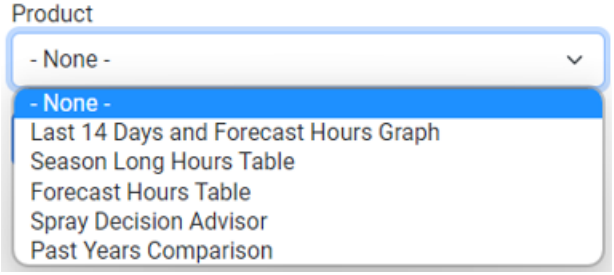
The Mesonet Peanut Leaf Spot Advisor is an online weather-based management tool that identifies times when the risk of peanut leaf spot infection is high. It is seasonal and operates between May 1 and October 31. The advisory is based on the accumulation of ”leaf spot hours” which are defined as one hour with relative humidity greater than or equal to 90% and temperatures between 60.5°F and 86°F. The advisory calculates the number of “leaf spot hours” that have occurred for the growing season, the past 14 days, and forecasts estimates for the next 3 ½ days utilizing the North American Model (NAM) forecast. Spraying is recommended when 36 “leaf spot hours” have accumulated from either 30 days after planting or 10 days from the last fungicide application.

Producers should revert to a 14-day spray schedule if any of the following conditions occur:

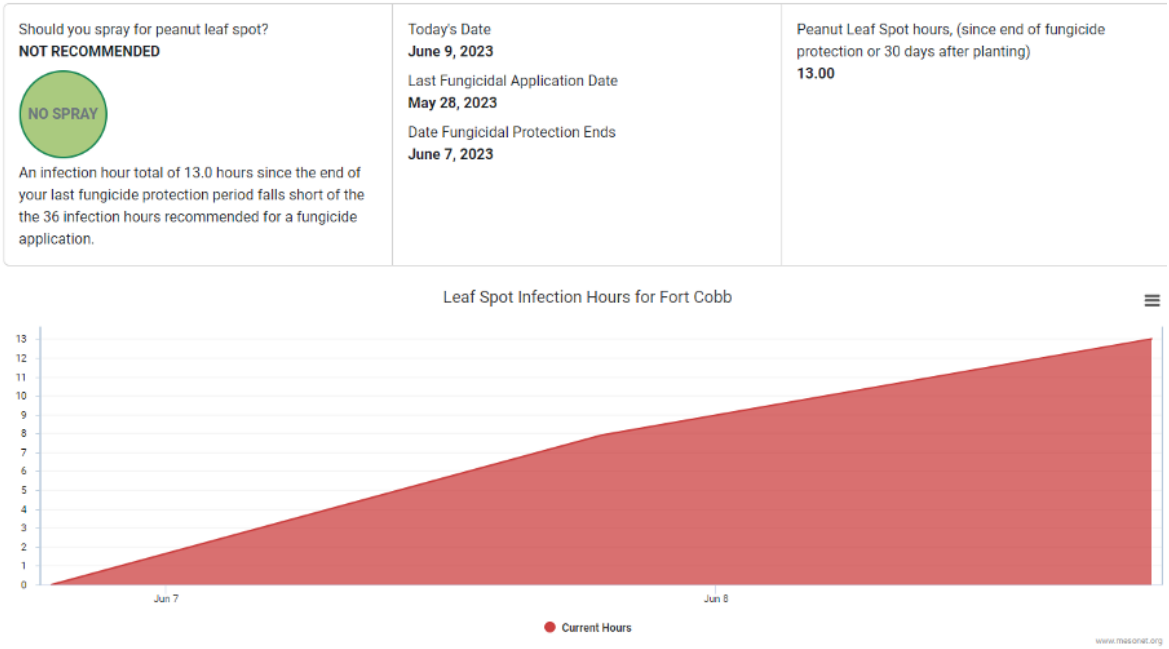
1. A field cannot be sprayed within 3 days of the Leaf Spot Advisory’s recommended date.
2. If more than 25% of the leaves have leaf spot present.
3. If late leaf spot or web blotch are identified within the field.



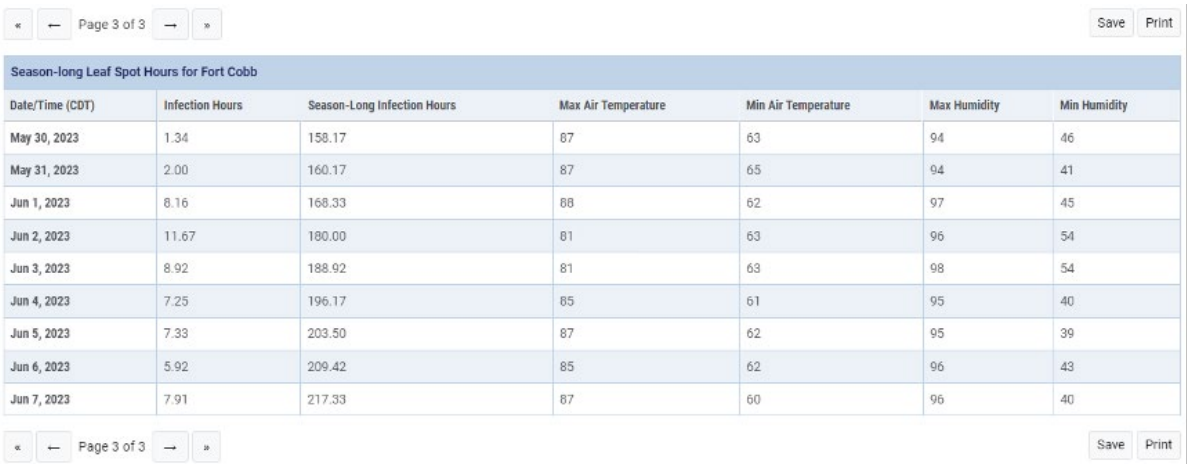
At the top of the Leaf Spot Advisor map are options to look at the last 14 days and the entire season. The pull-down menu box allows for selecting a Mesonet site and “Product.” The product options indclude the last 14 days and a forecast graph, a season long table of leaf spot hours, a forecast hours table, the Spray Decision Advisor, and a graph of the previous 3 years of leaf spot hours.



When the Spray Decision Advisor is selected additional information is needed. First, you will need to input the planting date, and then the last spray date, if applicable. The tool will look at the accumulated leaf spot hours from either 30 days from planting or 10 days from the last fungicide spray date. If 36 or more hours have accumulated, then the red “Spray” icon will show up. If there are less than 36 hours accumulated, then a green “No Spray” icon will be shown.



The option to view data in a table form for each site is available. It shows the daily leaf spot hours and a running total of the accumulated leaf spot hours. Also included is the weather data needed to determine a leaf spot hour. The save or print button creates a PDF file for recordkeeping purposes.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Season-long Leaf Spot Hours for Fort Cobb

Date/Time (CDT)	Infection Hours	Season-Long Infection Hours	Max Air Temperature	Min Air Temperature	Max Humidity	Min Humidity
May 30, 2023	1.34	158.17	87	63	94	46
May 31, 2023	2.00	160.17	87	65	94	41
Jun 1, 2023	8.16	168.33	88	62	97	45
Jun 2, 2023	11.67	180.00	81	63	96	54
Jun 3, 2023	8.92	188.92	81	63	98	54
Jun 4, 2023	7.25	196.17	85	61	95	40
Jun 5, 2023	7.33	203.50	87	62	95	39
Jun 6, 2023	5.92	209.42	85	62	96	43
Jun 7, 2023	7.91	217.33	87	60	96	40

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For more information contact the Oklahoma Mesonet at **405-325-3231** or email us at operator@mesonet.org.

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