

How to Use the Sclerotinia Advisory

Sclerotinia advisories account for favorable weather only; they do not account for field history. **Fields with no history of disease do not need to be sprayed** unless a new outbreak is confirmed.

There are two advisories for each location.

Use the advisory for **row index = 2 if rows are within 6" of touching**

Use the advisory for **row index = 3 if rows are touching**

Sprays normally are not needed if rows are more than 6" apart

The Sclerotinia advisory looks at environment over the last five days to calculate the risk of Sclerotinia development.

```
July 19, 2019 PEANUT SCLEROTINIA ADVISORY FOR WILL  
Highway Patrol Comm Station (Williamston, NC)  
For 2019-07-14: MI=1, TI=1, EI=1 (daily index values 5 days ago)  
MI from 5-day rain, MI from 10-day rain (reason for favorable moisture index)  
For 2019-07-15: MI=1, TI=0, EI=0 (daily index values 4 days ago)  
MI from 5-day rain, MI from 10-day rain (reason for favorable moisture index)  
For 2019-07-16: MI=1, TI=1, EI=1 (daily index values for 3 days ago)  
MI from 5-day rain, MI from 10-day rain (reason for favorable moisture index)  
For 2019-07-17: MI=1, TI=0, EI=0 (daily index values for 2 days ago)  
MI from 5-day rain, MI from 10-day rain (reason for favorable moisture index)  
For 2019-07-18: MI=1, TI=1, EI=1 (daily index values for previous day)  
MI from 10-day rain (reason for favorable moisture index)  
Row Index = 2 (rows within 6" of closing)  
setDate = 2019-07-11 07:00:00 (used to calculate advisory)  
Five Day Index = 18  
Last Effective Spray Date = 2019-06-26  
Advisory: do not spray today  
Disease level: LOW  
Growing degree days (base 56) since LESD = 603  
Growing degree days (base 56) since May 1 = 1646.2  
Records count: 191 out of 193  
Most recent db ob to 8am EDT: 2019-07-19 06:00:00
```

There are three daily Sclerotinia index values: MI, TI, and EI.

Moisture index (MI)

MI = 1 moisture is favorable for disease. MI = 0 moisture is not favorable for disease.

Moisture = 1 on a given day if:

- RH was 95% or higher for at least 8 consecutive hours; or
- Location received one-half inch of rain in the past 5 days; or
- Location received 1 inch of rain in the last 10 days.

If your rainfall history is different, the advisory may not apply to you

Temperature index (TI)

TI = 0 if the day's 24-hour average temperature was more than 82°F

Barbara Shew
Department of Entomology and Plant Pathology

TI = 1 if 77 to 82°F
TI = 2 if 72 to 77°F
TI = 3 if 72°F or lower

Environmental index (EI) = Moisture Index * Temperature Index

Row index – Use the advisory for row index = 2 for rows within 6” of touching. Use the advisory for row index = 3 for rows touching.

Five-day index – A spray is advised when the five-day index is greater than 32.

Last effective spray date (LESD) – A spray is assumed to be effective for 21 days. You do not need to spray if you have sprayed since the LESD.

Advisory – if the advisory is “**spray today**” conditions are favorable for Sclerotinia blight and you should spray if a Sclerotinia fungicide has not been applied in the last 21 days. If the advisory is “**do not spray today**” a spray is not required.

Disease level - the five-day index is used to rate the disease hazard as LOW (<32), MODERATE (32-47), HIGH (48-98), or VERY HIGH (≥99).

Growing degree days - for peanuts (base 56) since the LESD and since May 1.

Records count - number of hourly weather observations out of total possible observations. The advisory may not be reliable if there are several missing records.

Most recent hourly observation – should be 7:00:00 (7 a.m.) on today’s date.