



# Arkansas Soybean Rust Working Group Update

---



September 14, 2009

Soybean Rust Update

Scott Monfort - Cliff Coker

## SOYBEAN RUST SPRAY ADVISORY FOR THE STATE OF ARKANSAS

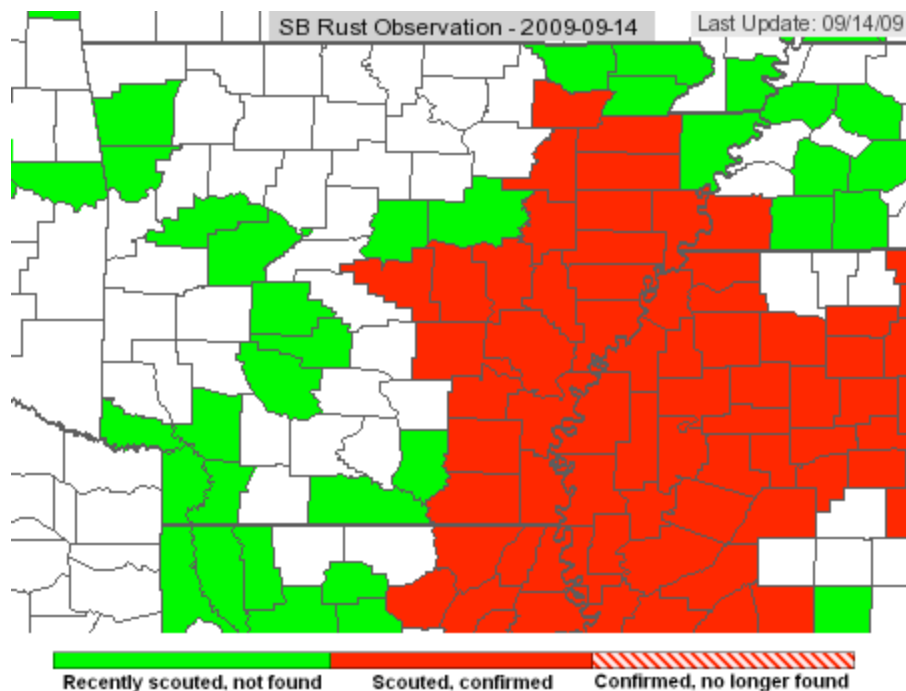
Craighead, Jackson, and Lawrence Counties are the latest counties confirmed with soybean rust. This makes a total of 21 counties confirmed with soybean rust (Arkansas, Ashley, Chicot, **Craighead**, Crittenden, Cross, Desha, Drew, **Jackson**, Jefferson, **Lawrence**, Lee, Lincoln, Lonoke, Monroe, Phillips, Poinsett, Prairie, Pulaski, St. Francis, and Woodruff).

**The disease is continuing to develop and spread throughout much of the Arkansas Delta and is not showing any signs of slowing down. The prolonged cool, cloudy, and wet conditions have allowed soybean rust to become very active and aggressive. This disease is more than likely in all soybean counties throughout the Delta and possibly the Arkansas River Valley. We are confident the disease will show up in many more soybean fields over the next week.** For this reason, along with continued chances of rain and cloudy conditions in the state, we have made a few changes to our SOYBEAN RUST SPRAY ADVISORY. We are strongly encouraging producers in **ALL Soybean Growing Counties** in the state to consider treating soybeans in the R1 to Mid-R5 with good yield potential for soybean rust. This year, soybean rust has proven to be more aggressive than in any other year since it first arrived into the US and Arkansas.

We would like to make a few added suggestions regarding our recommendations below. For the soybeans fields sprayed at R2 to early R4 two to three weeks ago, please remember to scout the fields again (**if below Mid-R5**) to determine if a second treatment is needed. We have observed several fields that needed to have the 2<sup>nd</sup> application due to disease pressure. Please remember an application of a triazole or a mixture containing a triazole is needed once the disease is present in the field. Finally, you will need 3 to 4 hours of drying time for fungicides to be most effective, so try to wait until after the rainy conditions dissipate.

We would also recommend you use 10 gallons of water by plane and 15 gallons by ground in your application, if possible. This will ensure that you have adequate coverage of the fungicide throughout the canopy. Please be sure to determine the growth stage and yield potential of your fields before applying a fungicide.

Please see the Recommendations below:



So what do we recommend?

**At this time, all soybean growing areas in the state are at an elevated risk and growers should take the necessary steps to protect their late soybean crop.** Please keep these criteria in mind when making a decision on applying a fungicide for soybean rust.

1. Are you within a couple of counties from the confirmed locations?
  - a. Yes --- you are a higher risk
  - b. No --- you have a little more time to make a decision
2. **Have you scouted your soybeans?**
3. What growth stage are your soybeans?
  - a. R1 to Mid R5 are more at risk
  - b. Late R5 to R8 --- more than likely yield will not be impacted
4. Yield potential of your soybean crop?

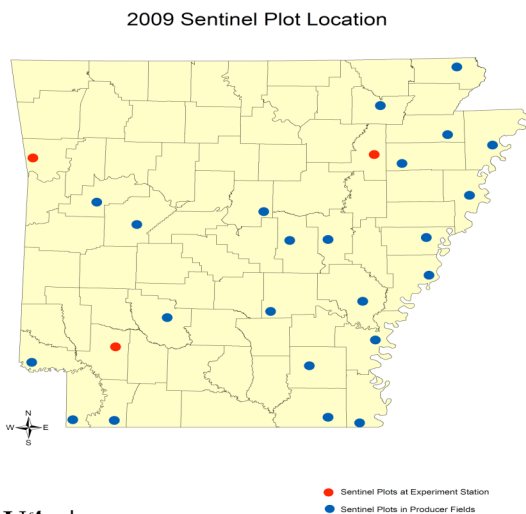
- a. SBR control may not be economical if Yield potential of less than 25 bushels per acre (depends on what you have in your crop to date)
5. What fungicide/fungicide combination do I use if I need to make an application?
- a. Soybean fields that are at Growth Stage R-1 to mid R-4 should be sprayed with a combination of a strobilurin and a triazole fungicide.
  - b. If soybeans are currently between Growth Stage late R-4 to mid R-5, an application of a triazole alone should be applied.
  - c. **See table below for a list of labeled fungicides and their relative effectiveness against soybean rust.**
  - d. Soybean fields that are currently at or beyond Growth Stage R-6 are no longer vulnerable and should not be sprayed.

We will revisit the confirmed locations along with other counties in Arkansas to determine if the disease is continuing to develop and/or beginning to spread. We will continue to scout kudzu patches, soybean sentinel plots, and soybean fields throughout the state and will update everyone as soon as we have new information. **We also need your help over the next few weeks!!!** County agents should be sending in samples to the Lonoke Diagnostic Lab or the Monticello Lab. I would also encourage consultants and growers to send in samples (at least 100 leaves) if you think you have soybean rust.

We will continue to update you on a regular basis on any new developments of Soybean Rust via email or through the Soybean Rust Hotline (1-866-641-1847). If you have any questions or concerns please contact Dr. Scott Monfort (870-659-0648) or Cliff Coker (870-723-5519).

Please note the latest map of the Arkansas Sentinel Plot Monitoring Plots below:

|               |                      |
|---------------|----------------------|
| Scott Monfort | 870-659-0648         |
| Cliff Coker   | 870-723-5519         |
| Amy Carroll   | 501-258-2509         |
| Amanda Greer  | 870-460-5563         |
| Jeremy Ross   | 501-944-0621         |
| Kim Rowe      | 870-777-9702 ext 106 |
| John Rupe     | 479-601-2480         |



**Any Questions...Contact us:**

| <b>Arkansas Soybean Rust Fungicide List (not listed in order of effectiveness)</b>  |             |                  |                |                |
|---|-------------|------------------|----------------|----------------|
| <b>FUNGICIDE</b>  | <b>TYPE</b> | <b>CHEMISTRY</b> | <b>LABELED</b> | <b>RATES</b>   |
| Quadris Xtra  | P/C         | strob + triaz    | YES (Full)     | 4 – 6.8 OZ     |
| Folicur   | P/C         | Triazole         | YES (FULL)     | 3 - 4 OZ       |
| Orius   | P/C         | Triazole         | YES (FULL)     | 3-4 OZ         |
| Alto  | P/C         | Triazole         | YES (Full)     | 4 OZ           |
| Laredo  | P/C         | Triazole         | YES (FULL)     | 4-8 OZ         |
| Topguard  | P/C         | Triazole         | YES (18)       | 7.0 OZ         |
| Domark  | P/C         | Triazole         | YES (Full)     | 4 – 5 OZ       |
| Punch   | P/C         | Triazole         | YES (18)       | 3 – 4 OZ       |
| ProLine   | P/C         | Triazole         | YES (Full)     | 2.5 – 3 OZ     |
| <b>Quilt</b>  | P/C         | strob + triaz    | YES (Full)     | 14 – 20.5 OZ   |
| <b>Tilt</b>   | P/C         | Triazole         | YES (FULL)     | 4 – 8 OZ       |
| <b>Bumper</b>   | P/C         | Triazole         | YES (18)       | 4 – 8 OZ       |
| <b>Preventative Fungicides Only (not listed in order of effectiveness)</b>  |             |                  |                |                |
| Quadris   | P           | Strobilurin      | YES (FULL)     | 6.0 – 15.5 OZ  |
| Headline  | P           | strobilurin      | YES (FULL)     | 6 – 12 OZ      |
| <b>Stratego</b>   | P           | strob + triaz    | YES (FULL)     | 10 OZ          |
| Bravo, Echo,<br>Equus   | P           | chlorothalonil   | YES            | 1.5 – 2.25 PTS |
| <b>Bold</b> fungicides contain a triazole that is NOT as effective on Soybean Rust compared to other triazoles in the list. |             |                  |                |                |

| <b>Table 2. Recommended Fungicide for Soybean Rust and Other Foliar Diseases</b> |           |   |   |         |
|--|-----------|---|---|---------|
|  |           |   | <b>Recommended Triazoles (not listed in order of effectiveness)</b> |         |
| Headline   | 6 oz/ac   | + | Laredo  | 5 oz/ac |
| or   |           |   | Domark  | 5 oz/ac |
| Quadris  | 6 oz/ac   |   | Topguard  | 7 oz/ac |
|  |           |   | Punch   | 3 oz/ac |
|  |           |   | Alto  | 4 oz/ac |
|  |           |   | Folicur   | 4 oz/ac |
|  |           |   | Proline   | 3 oz/ac |
| Stratego   | 10 oz/ac  | + | Folicur   | 2 oz/ac |
|  |           |   | or  |         |
|  |           |   | Proline   | 1 oz/ac |
| Quilt  | 14 oz/ac  | + | Alto  | 2 oz/ac |
| or<br>Quadris Xtra   | 6.8 oz/ac |   |   |         |

## *Arkansas is Our Campus*

Visit our website: [www.aragriculture.org](http://www.aragriculture.org)

The Division of Agriculture offers its programs to all eligible persons regardless of race, color, national origin, religion, gender, age, disability, marital or veteran status, or any other legally protected status, and is an Affirmative Action/Equal Opportunity Employer.