

Row Crop News

Jefferson County Cooperative Extension Service
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IRRIGATION

Computer Scheduling - Farmers or consultants wanting to maximize irrigation efficiency should use the Irrigation Scheduling computer program (*IRRIG*) offered by the U of A Extension Service. The *IRRIG* program is run on Jefferson County Extension variety demonstrations for eligible crops like corn, grain sorghum, soybeans and cotton.

Use this link to learn more about the *IRRIG* program:

http://www.aragriculture.org/computer_programs/irrigation_scheduling/default.asp

SOYBEANS

Early Planted Beans - Some early-planted soybeans have endured cooler temperatures and have not grown off as well as expected. Some have experienced problems with insects or other feeding damage from slugs. Early planting is out the window now. Growers are into the conventional planting window of May–June, or even July, for some wheat bean situations.

Reports are coming in this week that soybean insects are showing up in the older beans that are blooming. Be on the lookout for worm and beetle activity causing leaf loss. Pre-blooming soybeans are treated when 40 percent of the leaves are defoliated. Blooming beans are treated when pests are present and 25 percent of the leaves have been defoliated.

SOYVA - Use of the U of A Extension Soybean Variety Selection Program (*SOYVA*) can be of great help to producers needing to plant for specific situations such as rootknot nematode, race-specific cyst nematodes or disease approaches like stem canker, sudden death syndrome and frogeye leaf spot.

Hook up to the link for *SOYVA* at: <http://soyva.uaex.edu/default.asp>

Soybean Scouting Schools - Two soybean scouting schools are being planned for central and south Arkansas. The first is in **Lonoke County on June 13**; the second training is set for **July 15 for southern Arkansas**.

Producers, consultants, industry field reps and Extension agents are invited to attend these trainings. More information will be provided as plans are firmed up as to locations and times.

Arkansas Soybean Seed Quality Survey - The Cooperative Extension Service is conducting a seed quality sampling research project in 2008. Growers who allow us (County Extension Agents) to pull a 3-pound seed sample will greatly assist the University in obtaining seed quality information. Individuals will not get the results

of their seed, but the information obtained will aid in determining how well original germination values compare to planting day quality. This project is supported by the Arkansas Soybean Association.

If you would like to participate in this research and education program, please call Don Plunkett or Bradley Phillips at 870-534-1033. County agents have a limited number of sample bags for this project. Some 500–1000 samples are being requested statewide for this research. A detailed survey document will be provided to cooperating producers for completion. Those of you who are ASA members may have already received a letter and a sample bag from the state association asking you to participate with at least one sample. Stand count information is also needed after emergence.

Seed Stocks - Some companies are now reporting seed from other states are freeing-up and being sent back for re-distribution in Arkansas. There is a little optimism that there will be adequate seed supplies for the expected needs in 2008. Having some optimism of adequate seed supplies does not guarantee that you will get the varieties you are wanting.

Planting Considerations - Also, with some freeing-up of seed, there is still a need for good stewardship of the seed you do have. Planting into properly prepared fields, getting quick emergence and then protecting the seedlings from insects, weeds and moisture stress are top priorities for growers.

Pigweed Survey Results - Dr. Ken Smith, Extension weed scientist, recently provided county agents with results of some pigweed resistance monitoring screenings being performed at UA-Monticello (UAM). Jefferson County is one county with negative results—that is, we have some pigweeds that have come through field rates of glyphosate! (Fig.1 - 2007 distribution; Fig.2 - 2006 distribution). If you find “escapes” of pigweeds after a field rate of glyphosate material this year, please call the Extension office and let us survey the field(s).

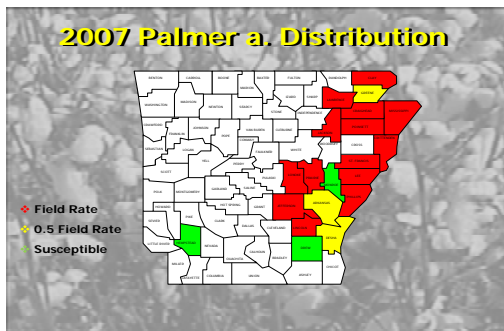


Fig. 1

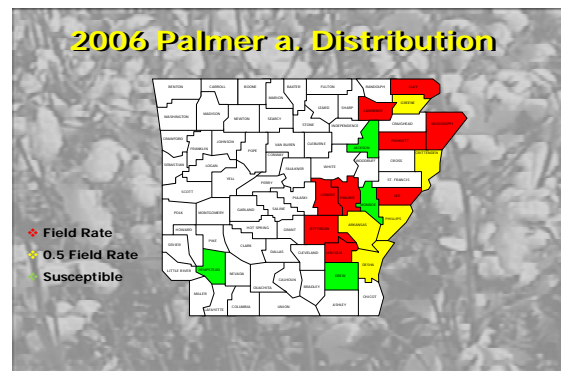
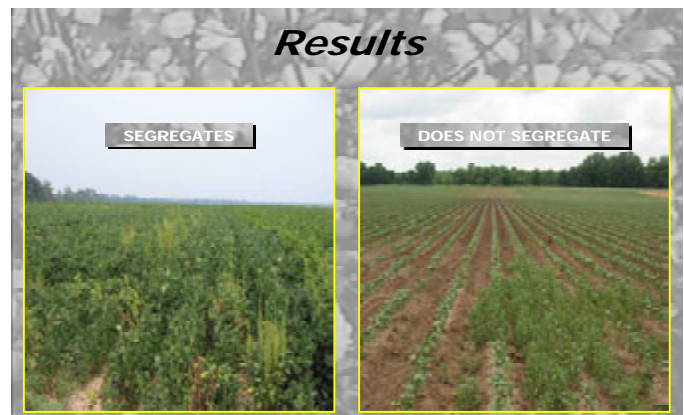


Fig. 2

The images below (Fig.3 & Fig.4) show “segregation of seedlings” on the left and “non-segregating” population on the right. Non-segregating plants are from one seed source. If that plant is resistant to glyphosate, all offspring and its descendants will be resistant. One test site in Arkansas had a 97 percent survival rate, and another had a 94 percent survival rate! So far, in Jefferson County, we have had an 18 percent survival rate down to 7, 6, 3.5 and 2 percent. This means tank-mix partners are often needed to knock down glyphosate-resistant pigweed and the partner must be capable of killing the pigweed in the absence of the glyphosate!

Fig. 3

Fig. 4



Race for 100 Bu/A - The Arkansas Soybean Association is once again offering a \$50,000 prize for soybean producers who net 100 bu/A or more from a measured five- to seven-acre plot. For complete rules, contact the Arkansas Soybean Association at **1-800-247-8691**, or email swsoy@aristotle.net. Rules may be obtained by contacting the county Extension office as well.

Sunflowers for Dove Hunting - If you want good guidelines on how to maximize sunflower production for your dove hunting sites, look on the Web at: http://www.uaex.edu/Other_Areas/publications/PDF/FS A-2150.pdf