



The Arthur Companies Inc

Amber Waves

Issue 8-2010

July 13th, 2010

Soybean Aphids

Soybean aphids have been observed in the area for a couple weeks. Populations have been low, however steadily increasing. These early season numbers indicate that soybean aphids have yet again overwintered on buckthorn in the Red River Valley. The environment this year is more favorable for soybean aphids to cause yield loss.

Economic Thershold – Soybean aphids should be controlled when aphid populations reach the action threshold of 250 aphids per plant and the population is increasing. Making the control decision at 250 will give you 2-4 days to spray before the Economic Injury Level will be reached (600 aphids per plant). It is important to monitor and ensure that populations are increasing.

What to spray – We have several products to choose from. The pyrethroids provide excellent control and typically have a repellency which suppresses aphid recolonization, however they can flare spider mite numbers. Lorsban Advanced is known for quick knock down, however it has no repellency.

Considerations

Use 10 to 15 gallons of water. Flat fan nozzles are best for coverage. Trophy Gold at 1 qt per 100 gal can lengthen life and reduce evaporation on hot days

Spider mites aren't expected to be a problem due to recent wet weather. However this can change if the weather turns dry.

For Sale

Semi Tractor

Ford 9000 1996, Cummins N14, DOT inspected, good tires. 252,000 miles. \$10,000 Located in Arthur.

Call Torey, 967-8312



Grain Dryer

MC 1075, 3 burners, fair condition. Located in Page. \$17,000 OBO

Call Justin, 668-2203

Product	Rate	\$/acre	PHI	REI	MOA	Warranty	Comments
LambadStar (generic Warrior)	2.56 oz	\$3.04	30 days	24 hrs	P	21 days	Very good option respray with LambdaStar
Asana XL	6.4 oz	\$3.53	21 days	12 hrs	P	21 days	respray with asana or Lorsban Adv
Hero	5.12 oz	\$6.86	21 days	12 hrs	P's	45 days	These Pyrethroids don't flare spider mites
Cobalt	13*-26 oz	\$4.58- \$9.16	30 days	24 hrs	P + OP	21 days	13 oz rate is light on pyrethroid, may need respray sooner than other treatments
LambdaStar + Lorsban Advanced	2.56 oz + ½ pt	\$5.28	30 days	24 hrs	P + OP	30 days	Best of both worlds!
Lorsban Advanced	1 pt	\$4.47	28 days	24 hrs	OP		Low odor formulation quick knock down

* denotes warranty rate, P – Pyrethroid, OP - Organophosphate



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Ayr	Alan, Luke,	668-2973	1-800-881-8522
Buffalo	Heather, Steve	663-5111	
Page	Justin	668-2203	1-800-726-8964

Fungicide in Soybeans

Soybeans are sometimes difficult to determine growth stage on. Below are some pictures that are helpful for some management decisions. One of those decisions are, should I use a fungicide or not?

The disease control is harder to quantify than in wheat. Both manufacturers' data and our plot data indicate 3-4 bu response on average. We have noticed offensive varieties respond better than defensive varieties.

Headline and Stratego are the two options. The advantage to Headline is that it promotes overall plant health of the soybean. It does this in 3 ways:

1. Headline makes the plant more efficient by helping it better utilize carbon and nitrogen, less respiration.
2. Headline helps the plant improve stress

Growing Degree Days

What a difference a year can make. Corn today, 07/08, is about 3.5-4 leaves ahead of last year. When can you remember corn tasseling the first week of July? We are also about 1.5 leaf ahead of a normal year (Normal is an average of extremes. We never seem to experience a normal year). Before too long we will need some rain to carry this crop through the reproductive stages.

NDAWN Galesburg	Corn GDD (F°) April 23, 2010 planting	Corn Normal GDD (F°) May 1 planting	Corn GDD (F°) 2009 Planting May 15
July 8th, 2010	980	890	719

tolerances.

3. Controls diseases that were thought not to be yield robbing.

Stratego offers similar advantages. Data from Bayer suggest similar yield response. We have not had Stratego in any of our plots yet.

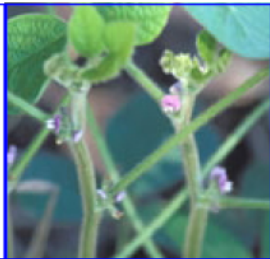
Rate: Headline 6 oz/ac Cost:: from \$11.25/ac
Stratego 7-10 oz Cost:: from \$7/ac

Timing: R1-R3. Fungicides can be tankmixed with Roundup.

R1

Beginning bloom -

One open flower at any node on the main stem.



R2

Full bloom -

Open flower at one of the two uppermost nodes on the main stem with a fully developed flower.



R3

Beginning pod -

Pod 3/16" long at one of the four uppermost nodes on the main stem with a fully developed leaf.

Soybean Aphid Threshold - 250 aphids/plant when population actively increasing.



R4

Full pod -

Pod 3/4" long at one of the four uppermost nodes on the main stem with a fully developed leaf

Soybean Aphid Threshold - 250 aphids/plant when population actively increasing.

