

DuPont™ Asana® XL and Lannate® LV

insecticides

Faster knockdown and lasting control of soybean aphids

The soybean aphid (*Aphis glycines*) was first discovered in North America in 2000. Since then, medium- to high-level infestations have been reported throughout the upper midwestern United States.

The good news is, with a little forethought, diligent scouting and timely insecticide applications, growers can keep this pest under control.

Look out for soybean aphids

Scout for the subtle signs of aphids' presence:

- **Physical presence on the plants:** Look for soybean aphids in the early vegetative growth stages near the top of the plants, where the new growth and nitrogen are concentrated. As the plants flower, aphids follow the nitrogen down the plant.
- **Sap-like secretion:** As aphids infest a crop and consume sap, they secrete a sticky honeydew substance on the plants.
- **Black, sooty mold:** As aphid populations grow and flourish, the honeydew they secrete encourages the growth of a dark, sooty mold. At this point, soybean plants also often become distorted with yellowing leaves, and substantial yield loss may be experienced.
- **Beneficial insects:** Check for beneficial insects, particularly Asian ladybeetles, a natural predator of aphids. Their presence, or the lack thereof, can help growers determine whether an insecticide application eventually will be

warranted. Research suggests that ladybeetles can keep populations in check if no more than 50 aphids per plant are present. Skin casts from shedding and even ants busily tending their colonies are also signs that aphids are present.

- **Favorable weather conditions:** Pest specialists say good weather conditions, typically between 78° and 84° F are favorable to aphid growth.

Time to act

Soybean aphid economic treatment thresholds continue to be studied. There is growing evidence that treatment of low levels of population can result in significant yield benefit. Typically, aphid populations do the worst damage during the flowering to early pod stages, between the R1 and R3 growth stages. Consult your local Extension service specialist.

- **Low populations:** Where aphids are present but less than 250 aphids per plant you should check your crop every two to three days, as populations can double in that brief time frame. Consider an application of DuPont™ Asana® XL to control a rising population and provide residual activity through critical crop stages.
- **250 aphids per plant:** This is the range that crop specialists agree is the economic threshold. Time to treat with Asana® XL insecticide. Addition of DuPont™ Lannate® LV in a tank mix can



be considered if populations are rapidly increasing or if spraying will be delayed.

- **Severe and rising populations:** Populations that are severe and rising can be treated effectively with Lannate® LV insecticide for fast knockdown of aphids and rapid crop protection. If longer residual control is desired, consider a tank mix of Asana® XL to add additional residual soybean aphid control.

Benefits of Asana® XL

Asana® XL* has proven to be a great value for soybean aphid control. Apply when populations reach threshold levels to help maximize yield:

- Consistent, long-lasting residual control.
- Remains stable even under adverse pest and weather conditions.
- Short 21-day PHI.
- Superior resistance to rain washoff.

Benefits of Lannate® LV

Lannate® LV offers another excellent tool for soybean aphid management:

- Fast contact knockdown, vapor activity and translaminar movement.
- More flexibility in application timing and coverage.
- Tank mix with Asana® XL or other pyrethroids to enhance control of heavy soybean aphid populations.
- Alternate mode of action for IRM.

Take control with DuPont™ Asana® XL and Lannate® LV

Don't risk letting soybean aphids suck the profits out of your soybean fields. Take control with Asana® XL and Lannate® LV insecticides from DuPont.

Asana® XL* has demonstrated reliable control of soybean aphids which has helped growers preserve soybean yields. However, like all other pyrethroid insecticides, Asana® XL aphid knockdown is not as fast as with some other insecticides. Under extreme conditions, where the soybean aphid population has exploded or spraying was delayed, add Lannate® LV insecticide to get the fastest knockdown available to drop aphid numbers below threshold.

The longer soybean aphids are left unchecked, the faster populations will rise out of control. Fortunately, Lannate® LV — applied alone or with Asana® XL — delivers reliable control to help keep this pest in check.

Maximize soybean aphid control with DuPont™ Asana® XL and Lannate® LV in soybeans

Application recommendations

Spray on time: Economic threshold of 250 aphids/plant and at the right crop growth stage.

- Asana® XL at 6.4 fl oz/A works well under normal pressure. For heavy soybean aphid pressure or when harsh environmental conditions (rain, high temps) are expected Asana® XL at 9.6 fl oz/A may be needed.

- Use Lannate® LV at 1 pt/A alone **OR** use Lannate® LV at ½ to 1 pt/A in a tank mix with Asana® XL.
- NOTE: As aphid populations rise, increase the rate of Lannate® LV.
- Adequate spray coverage is critical: Use 5 gpa by air and 20 gpa by ground.

Preserve your yields

According to university studies on aphids in high-infestation areas, untreated fields typically yield 6 to 8 bushels per acre less on average, than fields that are sprayed with an insecticide. Researchers also found that **applications of Asana® XL and Lannate® LV helped to prevent yield losses by more than 11 bushels per acre** on average as compared to the untreated check.

Consult the local authorities

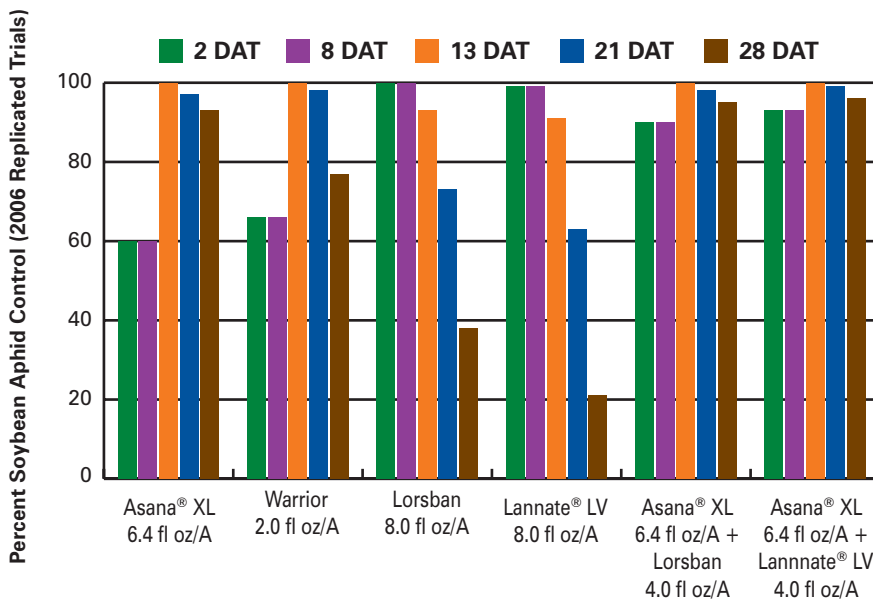
Don't take chances. Consult your local Extension service for the economic thresholds where you farm, and scout your fields vigilantly, especially when the plants enter full bloom. Also, stay in touch with county and university Extension specialists to determine what aphid populations exist in local fields and even in adjoining states, as aphids can move rapidly to a new area.

For more information

Don't let soybean aphids suck the life out of your crop. Protect your yields with Asana® XL and Lannate® LV insecticides.

Contact your local DuPont crop protection retailer or DuPont representative for more information. And visit us on the Web at cropprotection.dupont.com.

2006 DuPont Soybean Aphid Trials — North Dakota



* Asana® XL is not labeled for soybean aphids in California.

Asana® XL, Lannate® LV and Warrior are restricted-use pesticides.

This reference guide is not intended as a substitute for the product label for the product(s) referenced herein. Product labels for the above product(s) contain important precautions, directions for use and product warranty and liability limitations that must be read before using the product. Applicators must be in possession of the product label(s) at the time of application. Always read and follow all label directions and precautions for use when using any pesticide alone or in tank mix combinations.

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