

# DuPont™ Asana® XL

insecticide

*Controls major sunflower insect pests*

DuPont™ Asana® XL insecticide utilizes advanced pyrethroid chemistry with its unique cottonseed oil (CSO). This CSO formulation provides superior stability even under intense sunlight, delivering extended control of major sunflower pests, potentially resulting in fewer applications.

## Benefits of Asana® XL

- Controls sunflower insects on contact and by ingestion of sprayed foliage. Asana® XL interferes with the pests' ability to transmit nerve impulses.
- Insects stop feeding almost immediately, eliminating further crop damage, and soon die.
- CSO formulation resists photodegradation better than other pyrethroids.
- Asana® XL resists washoff once the spray deposit has dried.
- Short re-entry interval. Fields can be entered 12 hours after application.

## Use recommendations

### Here's how it works:

Asana® XL should be applied when pests reach economic threshold levels. See table on the next page for rates by pest.

- Make application in 4 gallons to 10 gallons of water per broadcast acre by ground, or 2 gallons to 5 gallons of water by air.
- Apply as necessary to maintain control.
- Do not apply more than 38 ounces per acre of Asana® XL per season.
- May be applied up to 28 days before harvest.

### Tank mixing

Asana® XL can be tank mixed with many herbicides, fungicides, insecticides and liquid fertilizers.

### Application to blooming crops

Asana® XL can be applied to blooming crops as long as bees are not foraging. The best time for treatment is either early morning or evening. By following these application guidelines, growers will see effective insect control with little or no interruption of bee activity to pollination-dependent crops.

See label for complete details.











## Choice of container sizes

Asana® XL contains 0.66-pound active ingredient per gallon and is available in 1-gallon jugs and 14-gallon or 110-gallon returnable containers.

## For more information

Please contact your DuPont crop protection retailer or call your local DuPont representative. And visit us on the Web at [asanaxl.dupont.com](http://asanaxl.dupont.com).

**DuPont™ Asana® XL for sunflower insect control**

<b>Insect</b>	<b>Asana® XL use rate (fl oz/A)</b>	<b>Number Acres/gal</b>	<b>Occurrence, injury and economic thresholds (ET)</b>
<b>Cutworms</b> 	5.8-9.6	22-13	ET = 1 per sq ft or 25%-30% stand reduction. Cutworms appear in early spring when plants are in seedling stage, chewing them at ground level. Monitor your CRP edges, road ditches.
<b>Grasshoppers</b> 	3.9*-5.8 5.8-9.6	32-22 22-13	Nymphs per sq yd — light = 15-23; threatening = 30-45; severe = 60-90; very severe = 120+. Adults per sq yd — light = 3-7; threatening = 8-14; severe = 15-28; very severe = 28+.
<b>Sunflower stem weevil</b> 	5.8-9.6	22-13	ET = 1 adult per 3 plants in late June to early July. Use a 7 in band application, apply 2-3 gal water per acre minimum.
<b>Sunflower maggot</b> 	5.8-9.6	22-13	Adults appear in early to late June; larvae occur in stalks or heads from late June on. No ET established.
<b>Sunflower beetle**</b> 	1.45-5.8	88-22	ET = 1-2 per seedling (adults). ET = 10-15 per seedling (larvae). Adults appear in early June, larvae shortly thereafter. Both adults and larvae chew large holes in leaves.
<b>Sunflower seed weevil</b> 	5.8-9.6	22-13	ET = 6-10 adults per head (oil) and ET = 1 adult/head (confectionary). Adults begin to appear in late June to early July. Larvae feed in seeds from mid- to late-summer. Contact control only! Best control achieved at 1%-5% bloom application. Treat at R 5.1 to R 5.4 stage of sunflower development.
<b>Sunflower moth</b> 	5.8-9.6	22-13	ET = 1-2 adults per 5 plants at onset of bloom. Adults appear in early to mid-July. Larvae tunnel in seeds from late July to late August.
<b>Banded sunflower moth</b> 	5.8-9.6	22-13	ET = 1 adult per 2 plants. Adults appear about mid-July to mid-August. Larvae present in heads from mid-July to mid-September.

\* This Asana® XL recommendation is made as permitted under FIFRA Section 2(ee) for use on sunflowers for control of first and second instar grasshopper nymphs in Colorado, Idaho, Iowa, Kansas, Minnesota, Missouri, Montana, Nebraska, North Dakota, Oklahoma, Oregon, South Dakota, Washington and Wyoming. This recommendation has not been submitted to or approved by the EPA. The 2(ee) expiration date is 12/31/05.

\*\* Except California

*Asana® XL is a restricted-use pesticide.*

***This reference guide is not intended as a substitute for the product label for the products referenced herein. Product labels for the above products 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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