

Apples

DuPont™ Asana® XL

insecticide

Superior, economical protection for apples

Powerful broad-spectrum control in apples

Get off to a good start in producing high-quality fruit, by quickly controlling early-season pest problems. Maintain high-performance pest control by using DuPont™ Asana® XL in season for tough internal feeders. The advanced chemistry of Asana® XL gives apple growers unmatched early-season and in-season protection advantages at a low, competitive cost.

Asana® XL provides superior control of more than 18 different apple-damaging insects. It delivers superior contact control on such pests as the rosy apple aphid, tentiform leaf miner, tarnished plant bug, Oriental fruit moth, codling moth and leafrollers.

Formulated for longer residual and maximum pest control

After initial knockdown, Asana® XL controls insects when they feed or move about on treated plant surfaces. After application and once dried, Asana® XL gives extra days of crop protection by resisting washoff and sunlight breakdown.

Pests exposed to Asana® XL stop feeding almost immediately, preventing damage to your apple crop. Asana® XL is nonphytotoxic and does not interfere with fruiting.

So, give your apples the opportunity to grow to their fullest potential, unmarked from early insects, thus commanding premium prices.

Low-cost, high-performance

Anything that can reduce the cost of growing apples is a savings for growers. The combination of long residual, broad-spectrum control, and high activity at low dosages of Asana® XL can help save you money.

Early-season control and in-season control use rates

To receive the most residual activity from Asana® XL and to prevent costly insect damage, apply Asana® XL in the prebloom sprays from ¼ inch green through pink bud at 8 ounces minimum to 14.5 ounces per acre.

In season use Asana® XL at 8 to 14.5 ounces per acre to control second- and later-generation internal apple feeder worms such as codling moth and Oriental fruit moth. These damaging pests must be controlled within 8 to 24 hours of egg hatch. Consult local Extension services to determine the optimum application timing for Asana® XL in your area. Always read and follow all label directions and precautions for use.



A resistance-management tool

The repeated and exclusive use of any one insecticide may lead to reduced performance and the resulting loss of control. Asana® XL should be part of a "Rotation and Alternation" strategy of insecticides in growers' apple orchards. Use of Asana® XL in a pest control program that includes DuPont™ Altacor® insect control,* Avaunt® and Lannate® insecticides, and other nonpyrethroid chemistry products is essential to preserving the usefulness of important crop protection products. Asana® XL is an excellent tool to help you manage resistance.

Choice of container sizes

Asana® XL contains 0.66 pound ai per gallon and is available in 1-gallon jugs and 14-gallon or 110-gallon returnable drums. See label for complete details.

For more information

Contact your local DuPont crop protection retailer or DuPont representative to learn more about Asana® XL. And visit us on the Web at asanaxl.dupont.com.

* Altacor® is not registered for use or offered for sale in New York.

Recommended rates of DuPont™ Asana® XL on apples

Insect	Application rate			Number of acres treated/gal	Days to harvest
	Concentration spray		Dilute spray		
	Lb ai/A	Fl oz/A	Fl oz/100 gal		
Apple aphid, apple maggot, codling moth, green fruitworm, lesser appleworm, mullein plant bug (except CA), obliquebanded leafroller, Oriental fruit moth, periodical cicada, plant bugs (tarnished plant bug, stink bugs), plum curculio, redbanded leafroller, rosy apple aphid, San Jose scale (fruit infestations only), tentiform leaf miner, tufted apple bud moth, variegated leafroller, white apple leafhopper	0.025-0.075	4.8-14.5	2.0-5.8	26-9	21
Apple ermine moth (ID, OR & WA only)			3.0		
Tufted apple bud moth (overwintering) (MD, NC, NJ, PA, VA & WV only)	0.04-0.075	8.0-14.5		16-9	

Do not feed or graze livestock on treated orchard floors.

Do not apply more than 0.525 pounds ai per acre per season. For dilute spray apply 200 to 600 gallons per acre, but do not apply more than 14.5 fluid ounces of Asana® XL per acre per treatment.

Apple ermine moth — Apply with 2 to 4 gallons of superior spray oil in 100 gallons of water in a spray-to-wet application to ensure thorough coverage of all stems and branches where apple ermine moth hibernacula are found.

When using on apple nursery stock, do not treat bundled plants since it is difficult to achieve a full coverage application which could result in less than complete control. Make first application in the fall after 90 percent of leaf fall has occurred — usually after Oct. 15. Make a second application 7 to 14 days later.

Note: Overwintering larvae do not die until approximately 30 days after application.

Plant bug, rosy apple aphid control — Time of application is critical in achieving control. Use prebloom and postbloom spray timings recommended by state Extension services.

Tufted apple bud moth (overwintering) — For use on apple for the control of overwintering larvae of the tufted apple bud moth with directed ground application to the apple orchard floor. Make one application of Asana® XL at either pink stage of apple or at petal-fall stage of apple.

Use the lower rate on small larvae (pink stage of apple) and/or on lower populations. Use the higher rate on larger larvae (petal-fall stage of apple) and/or on moderate to high populations.

Apply specified dosage per acre to the orchard floor in no less than 30 gallons of water per acre by ground to obtain uniform coverage.

Apply treatment in a band from trunk to drip line to allow coverage of areas where overwintering tufted apple bud moth are found.

Beneficial insects: Application of Asana® XL to the groundcover at the pink stage of apple development may be toxic to overwintering *Stethorus punctum*. *S. punctum* is a coccinellid insect and the major predator of spider mites in the MD, NC, NJ, PA, VA and WV fruit-growing areas. This predator overwinters in the same areas of the orchard groundcover as the tufted apple bud moth and moves into apple trees from mid-April through mid-May when maximum daily temperatures exceed 68 F. Emergence from the groundcover is 20 percent to 70 percent complete by the pink stage and 90 percent to 100 percent complete by petal fall on the apple cultivar Yorking.

Asana® XL and Lannate® 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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