

RESTRICTED USE PESTICIDE

DUE TO TOXICITY TO FISH AND AQUATIC ORGANISMS.

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.



DuPont™ Asana® XL

insecticide

This product contains 0.66 lbs. Active Ingredient per gallon. 0.66 Emulsible Concentrate

Active Ingredient

By Weight

Esfenvalerate

(S)-cyano (3-phenoxyphenyl) methyl

(S)-4-chloro-alpha-(1-methylethyl)

benzeneacetate

8.4%

Inert Ingredients*

91.6%

TOTAL

100 %

* CONTAINS XYLENE RANGE AROMATIC SOLVENT

EPA Reg. No. 352-515

Nonrefillable Container

Net:

OR

Refillable Container

Net:

KEEP OUT OF REACH OF CHILDREN WARNING

EPA Est. No.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID

IF SWALLOWED Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or a doctor. Do not give anything by mouth to an unconscious person.

IF INHALED

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

IF IN EYES

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center for treatment advice.

IF ON SKIN OR CLOTHING

Take off contaminated clothing.

Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN

If on skin, after drying apply vitamin E cream or oil if available. If not available, apply vegetable oil liberally over painful areas. The oil or cream may be used repeatedly until relief is achieved.

Contains xylene range aromatic solvent - vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-3637 for emergency medical treatment information.

GROUP

INSECTICIDE

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING! May be fatal if swallowed. Harmful if inhaled. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. For medical emergencies involving this product, call toll free 1-800-441-3637.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Chemical-resistant gloves, such as Barrier Laminate or Neoprene Rubber or Nitrile Rubber or Viton.

Shoes plus socks.

Protective eyewear.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS USERS SHOULD: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENGINEERING CONTROL STATEMENTS

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or when disposing of equipment wash-

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops if bees are visiting the treatment area.

> WILDLIFE PROTECTION IS EVERYONE'S RESPONSIBILITY

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with the labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls.

Chemical-resistant gloves, such as Barrier Laminate or Neoprene Rubber or Nitrile Rubber or Viton.

Shoes plus socks.

Protective eyewear.

DuPontTM ASANA® XL insecticide should be used only in accordance with recommendations in this label or in separate DuPont recommendations available through local dealers. DuPont will not be responsible for losses or damages resulting from (i) the reformulation of ASANA® XL into any other product, and (ii) the use of ASANA® XL in any manner that is not specifically recommended by DuPont on the label. User assumes all risk from such non-recommended use.

GENERAL INFORMATION

ASANA® XL insecticide 0.66 emulsible concentrate contains 0.66 pounds of active ingredient per gallon. For the applications given below, mix the required amount of ASANA® XL in sufficient diluent to provide uniform coverage (Refer to Use Tables). ASANA® XL may be applied by ground or aerial application equipment. For aerial application use the following directions unless otherwise specified in this label: use a minimum of 2 gallons per acre (gpa) of water, except in tree and orchard crops use a minimum of 10 gpa.

Apply at the recommended rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

RESISTANCE

For resistance management, ASANA® XL is a group 3 insecticide. Repeated exclusive use of ASANA® XL, or other group 3 insecticides may lead to the buildup of resistant strains of insects in some crops.

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

INTEGRATED PEST MANAGEMENT

DuPont recommends the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying ASANA® XL.

TANK MIXING AND COMPATIBILITY

Unless directed otherwise in a specific crop section of this label, do not tank mix ASANA® XL with fungicides containing fentin hydroxide (triphenyltin hydroxide) such as "Super Tin" as crop injury may result.

This product can be mixed with pesticide products labeled for use on crops on this label in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. Since formulations may be changed and new ones introduced, it is recommended that users premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.). Avoid mixtures of several materials and very concentrated spray mixtures. For best results, use of spray equipment having continuous agitation is recommended.

ASANA® XL may be tank mixed with DuPont herbicide products when insect populations require control concurrent with the need for weed control. Follow all herbicide and ASANA® XL label directions regarding proper usage.

ASANA® XL may be used in combination with 2,4-D herbicides providing that the following mixing directions are followed: 1) Do not apply the combination in a volume of water

less than 2 gallons per acre total spray. 2) Always mix the DuPontTM ASANA® XL thoroughly in the total volume of spray water first, followed by the addition of the 2,4-D herbicide. Because of the availability of a great variety of 2,4-D herbicide products, a test for physical compatibility should be conducted before field mixtures of a particular combination are made.

CHEMIGATION

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) row, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. ASANA® XL may be premixed in a supply tank with water, oil, fertilizer, or other appropriate tank mixed agricultural chemicals. A pretest of physical compatibility for untried tank mixes is advised. Agitation may be necessary. Application should be in sufficient water and of sufficient duration to apply the recommended rate evenly to the entire treated area. No run-off can be permitted during chemigation. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. Do not apply when wind speed favors drift beyond the area intended for treatment.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Do not connect an irrigation system (including greenhouse systems) used for ASANA® XL application to a public water system.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut-off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

CROP ROTATION

ALL ROTATION CROPS MAY BE PLANTED IMMEDIATELY FOLLOWING LAST APPLICATION.

BUFFER ZONES

Vegetative Buffer Strip

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds).

Only apply products containing esfenvalerate onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers:

Conservation Buffers to Reduce Pesticide Losses, Natural Resources Conservation Services. USDA, NRCS. Fort Worth, Texas 21pp. http://www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for ULV Aerial Application

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non- ULV Aerial Application

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

SPRAY DRIFT REQUIREMENTS

Wind Direction and Speed

Only apply this product if the wind direction favors ontarget deposition.

Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversion

Do not make aerial or ground applications into temperature inversions.

Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Droplet Size

Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Additional Requirements for Ground Applications

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the applications area by adjusting the path of the aircraft upwind.

SPRAY TANK CLEANOUT

Immediately following application of ASANA® XL, thoroughly clean all mixing and spray equipment. Flush the tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Take all necessary precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

SPECIFIC USES—FIELD CROPS

		Applicati	on Rate	Acres treated per	Last Applicatio		
Crop	Insect	Ib ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL	(days to harvest)		
Corn (field)†	Western Bean Cutworm Armyworm (True Armyworm) Black Cutworm (except CA) Chinch Bug Corn Earworm Corn Leaf Aphid Corn Rootworm (adult control) Cutworm Flea Beetle Grasshopper Japanese beetle (adult) (except CA)	0.015 - 0.03 0.03 - 0.05	2.9 - 5.8 5.8 - 9.6	44 - 22 22-13	21		
	Oat Bird-Cherry Aphid Southwestern Corn Borer Stalk Borer						
	European Corn Borer Black Cutworm - ASANA® XL may be (0.0165 - 0.05 lb ai/acre) for the control of corn (except CA). Chinch Bug - Over the top sprays, as use are not adequate for chinch bug control. It base of the plant through the use of drop of Corn Earworm - First application should	f black cutworm when d for control of ear an t is very important tha nozzles or some other	a applied at planting d stalk infesting con t the spray be direct mechanism.	n pests, ed at the			
	applied if economically damaging populations exist. Subsequent applications should be made at 3 - 5 day intervals until silking is completed. Corn Leaf Aphid, Oat Bird-Cherry Aphid - For optimum results, direct the spray at the aphid population so as to achieve maximum coverage of the exposed insects. Aphids not contacted by the spray, such as in whorls and leaf axils, may not be adequately controlled. Corn Rootworm (Adult) - Apply at the first sign of silk feeding. ASANA® XL may be tank-mixed with methyl parathion and applied on field corn where supplemental control of Adult Corn Rootworm is desired in conjunction with insects controlled by ASANA® XL when used alone. Refer to the ASANA® XL and methyl parathion labels for appropriate rates of the						
	individual products for controlling the respective insects. Cutworm - Applications for cutworm control may be applied before, during, or after planting as required to protect emerging or emerged corn seedlings. European Corn Borer - First brood: Spray while eggs are in the blackhead stage or before the larvae enter the whorl. Application by ground equipment is suggested. Good coverage of both upper and lower leaf surfaces is essential. This can be accomplished with drop nozzles over the row and on each side of the corn plant. Multiple applications may be required when egg laying is prolonged or where moderate to heavy populations are present. A higher rate is recommended for moderate to heavy populations. Proper coverage by ground equipment usually requires 20-30 gallons of carrier. Once larvae enter the whorl, foliar sprays will not provide adequate control.						
	Second brood: Make applications when sufficient egg masses are found. Spray when eggs are in the blackhead stage or starting to hatch. When egg laying is prolonged or a third generation is present, additional sprays may be required. A higher rate is recommended for moderate to heavy populations. Good coverage above, below, and in the ear zone is essential. This usually requires 2 - 3 gallons of carrier by air. If ground equipment is used, drop nozzles on each side of the plant will provide best coverage. ASANA® XL may be tank-mixed with methyl parathion and applied on field corn where supplemental control of European Corn Borer is						
	desired in conjunction with insects controlled by ASANA® XL when used alone. Refer to the ASANA® XL and methyl parathion labels for appropriate rates of the individual products for controlling the respective insects. Grasshopper - For control of first and second instar grasshopper nymphal stages a rate range of 3.9 to 5.8 fluid ounces of product per acre (0.02 - 0.03 lb ai/A) can be used. Correct timing of spray applications to the first and second instar nymphal stages and thorough coverage is critical to achieve optimum control. For grasshopper nymph stages larger than second instar, use ASANA® XL at use rates of 5.8 to 9.6 fluid ounces of product per acre (0.03 - 0.05 lb ai/A).						
	Southwestern Corn Borer - For moderate ai per acre) are recommended. Stalk Borer, Flea Beetle - Application me corn, before borers enter the plant. Western Bean Cutworm - Apply before to the plant of the plant o	ust be made early in m					

SPECIFIC USES—FIELD CROPS (cont'd)

	-	Application	Rate	Acres treated per	Last Application		
Insect	lh ai	acre	fl oz/acre		(days to harvest)		
		CONTRACTOR OF THE PARTY OF THE	0.45 fl oz	1401411140 140	21		
			per 1000				
Apply as an in-furrow, T-band, or band treatment using a minimum 4" band. Use the table below to determine the pounds active ingredient and fluid ounces of ASANA® XL applied at 0.0023 lbs. a.i. per 1000 feet or row for various row spacings. In furrow Applications: Apply into the seed furrow through spray nozzles, behind the planter furrow openers and in front of the press wheel. Banded Applications: Apply at planting as a 4-7 inch T-band sprayed across the open seed furrow between the furrow openers and the press wheels or as a band application behind the press wheel. Apply a minimum spray volume of 3 gallons per acre. Do not exceed 0.05 lbs. a.i. per acre per season as an at-plant application.							
applications of ASANA® XL.							
	2,233		1000	47070			
ASANA® XL Lbs.ai/A	0.03	0.032	0.033	0.04			
ASANA® XL Fl oz/A	5.8	6.2	6.4	7.8			
	nmendations refer to	Field Corn (a	above).		1		
	Follow directions carefully.						
				ne proper			
For specific insect control recon	nmendations refer to	Field Corn (a	above).		1		
			.1. 1. 1.				
				ire proper			
		And the Control of th	5.8	22	21		
	0.03 -	0.05	5.8 - 9.6	22 - 13			
Cabbage Looper Cotton Aphid* Cotton Bollworm Cotton Leafworm Cutworms Fleahoppers Grasshoppers Green Stink Bug (except CA) Leafhoppers Lygus Bugs Pink Bollworm Plant Bugs Saltmarsh Caterpillar Southern Green Stink Bug (except CA) Thrips (on seedling cotton) Tobacco Budworm Whitefly*							
	the 0.	02	3.9	33			
*Aids in control. May be applied in water or non- When applying ASANA® XL in When applying ASANA® XL in 3 gal per acre in Arizona and 5 g Do not apply more than 0.5 lb a Do not graze livestock on treate Black Cutworm - ASANA® X acre) for the control of black cu Boll Weevil - To control Boll W may be necessary. Heliothis spp ASANA® XL when applied according to label be timed to correspond with per Use on this pest stage (egg) is n	an oil carrier, apply a n a water carrier, appgal per acre in Califo i per acre per season d fields or feed treate L may be applied at tworm when applied evil infestations, a can provide contact or directions for control k egg deposition to a ot registered in Calif	a total spray v oly at least 1 g rnia) or 4 gal ed trash. 3.2 - 9.6 fl oz at planting o 3 to 5 day in vicidal effect of l of tobacco b achieve maxinornia.	gal per acre by air per acre by groun z/acre (0.0165 - 0. f cotton (except C terval between ap- on Heliothis spp. e budworm; applicat mum ovicidal effe	(at least id. 05 lb ai/ A). plications ggs ion should ct.			
	determine the pounds active ing per 1000 feet or row for various In furrow Applications: Apply in openers and in front of the press Banded Applications: Apply at the furrow openers and the press Apply a minimum spray volume Do not exceed 0.05 lbs. a.i. per a Do not apply more than 0.25 por applications of ASANA® XL. Row Spacing (inches) Linear Ft/A ASANA® XL Lbs.ai/A ASANA® XL Lbs.ai/A ASANA® XL Fl oz/A For specific insect control reconfollow directions carefully. Multiple applications and/or sho insect control. Do not apply more follow directions carefully. Multiple applications and/or sho insect control. Do not apply more for specific insect control reconfollow directions carefully. Multiple applications and/or sho insect control. Do not apply more confollow directions carefully. Multiple applications and/or sho insect control. Do not apply more control. Each applers Grasshoppers Green Stink Bug (except CA) Leafhoppers Green Stink Bug (except CA) Leafhoppers Lygus Bugs Pink Bollworm Plant Bugs Saltmarsh Caterpillar Southern Green Stink Bug (except CA) Thrips (on seedling cotton) Tobacco Budworm Whitefly* NOTE: For light infestations of above insects *Aids in control. May be applied in water or nonwonder than 0.5 lb a Do not apply more than	Insect Cutworm O.000 a.i. per feet o Apply as an in-furrow, T-band, or band treatment usi determine the pounds active ingredient and fluid oun per 1000 feet or row for various row spacings. In furrow Applications: Apply into the seed furrow to openers and in front of the press wheels. Banded Applications: Apply at planting as a 4-7 inch the furrow openers and the press wheels or as a band Apply a minimum spray volume of 3 gallons per acroponot exceed 0.05 lbs. ai. per acre per season as an Do not apply more than 0.25 pounds active ingredier applications of ASANA® XL. Row Spacing (inches) Linear Ft/A ASANA® XL Lbs.ai/A ASANA® XL Lbs.ai/A For specific insect control recommendations refer to Follow directions carefully. Multiple applications and/or shortened intervals between insect control. Do not apply more than 0.5 lb a.i. per For specific insect control recommendations refer to Follow directions carefully. Multiple applications and/or shortened intervals between insect control. Do not apply more than 0.5 lb a.i. per For specific insect control recommendations refer to Follow directions carefully. Multiple applications and/or shortened intervals between insect control. Do not apply more than 0.25 lb a.i. per For specific insect control recommendations refer to Follow directions carefully. Cotton Leaf Perforator O.03 Beet Armyworm* Black cutworm (except CA) Boll Weevil Cabbage Looper Cotton Leafworm Cutworms Fleahoppers Grasshoppers Green Stink Bug (except CA) Leafhoppers Lygus Bugs Pink Bollworm Plant Bugs Saltmarsh Caterpillar Southern Green Stink Bug (except CA) Thrips (on seedling cotton) Tobacco Budworm Whitefly* NOTE: For light infestations of the above insects *Aids in control. May be applied in water or nonvolatile vegetable oil: When applying ASANA® XL in an oil carrier, apply and a proper season po not appay more than 0.5 lb ai per acre per season Do not appay more than 0.5 lb ai per acre per season Do not appay more than 0.5 lb ai per acre per season Do not appay	Insect Cutworm O.0023 lbs a.i. per 1000 feet of row Apply as an in-furrow, T-band, or band treatment using a minimu determine the pounds active ingredient and fluid ounces of ASAN per 1000 feet or row for various row spacings. In furrow Applications: Apply into the seed furrow through spray openers and in front of the press wheel. Banded Applications: Apply a planting as a 4-7 inch T-band spra the furrow openers and the press wheels or as a band application in Apply a minimum spray volume of 3 gallons per acre. Do not exceed 0.05 lbs. a.i. per acre per season as an at-plant appl Do not apply more than 0.25 pounds active ingredient per acre pe applications of ASANA® XL. Row Spacing (inches) Linear FUA 13,068 13,756 ASANA® XL Lbs.ai/A 0.03 0.032 ASANA® XL Lbs.ai/A 5.8 6.2 For specific insect control recommendations refer to Field Com (a Follow directions carefully. Multiple applications and/or shortened intervals between sprays m insect control. Do not apply more than 0.5 lb a.i. per acre per seas For specific insect control recommendations refer to Field Com (a Follow directions carefully. Multiple applications and/or shortened intervals between sprays m insect control. Do not apply more than 0.5 lb a.i. per acre per sea For specific insect control recommendations refer to Field Com (a Follow directions carefully. Multiple applications and/or shortened intervals between sprays m insect control. Do not apply more than 0.5 lb a.i. per acre per sea For specific insect control recommendations refer to Field Com (a Follow directions carefully. Multiple applications and/or shortened intervals between sprays m insect control. Do not apply more than 0.5 lb a.i. per acre per sea For specific insect control recommendations refer to Field Com (a Follow directions carefully. Multiple applications and/or shortened intervals between sprays m insect control. Beet Armyworm* Back cutworm (except CA) Ball Weevil Cabbage Looper Cotton Aphid* Cotton Bollworm Cotton Leafworm Cutworms Fleahoppers Lygus Bugs Pink Bollworm	Apply as an in-furrow, T-band, or band treatment using a minimum 4" band. Use the determine the pounds active ingredient and fluid ounces of ASANA® XL applied a per 1000 feet or row for various row spacings. In furrow Applications: Apply into the seed furrow through spray nozzles, behind to openers and in front of the press wheel. Banded Applications: Apply at planting as a 4-7 inch T-band sprayed across the ope the furrow openers and the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels or as a band application behind the press wheels of minimum application. Do not apply more than 0.25 pounds active ingredient pre acre per season including applications carefully. Multiple applications and/or shortened intervals between sprays must be used to instinate control. Do not apply more than 0.5 b a.i. per acre per season. For specific insect control recommendations refer to Field Com (above). Follow directions carefully. Multiple applications and/or shortened intervals between sprays must be used to instinate a pressure and the press of the pressure and the pressur	Insect Dark Dark		

SPECIFIC USES—FIELD CROPS (cont'd)

		Applicati	on Rate	Acres treated per	Last Application
Crop	Insect	lb ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL	(days to harvest)
Peanuts	Corn Earworm Potato Leafhopper Red-necked Peanut Worm Velvetbean Caterpillar	0.015 - 0.03	2.9 - 5.8	44 - 22	21
	Beet Armyworm* Cutworms Granulate Cutworm Grasshoppers	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Fall Armyworm* Lesser Cornstalk Borer**	0.05	9.6	13	
	*Aids in control. For heavy infestations recommended. Please refer to the LANN **Aids in control. Do not feed or graze livestock on treated Do not apply more than 0.15 lb a.i. per a	ATE® label for use in vines.	NATE® insecticide structions.	is	
Sorghum (Grain)	Sorghum Midge	0.015 - 0.03	2.9 - 5.8	44 - 22	21
(except CA)	Black Cutworm Chinch Bugs Corn Earworm (headworm) Cutworms	0.03 - 0.05	5.8 - 9.6	22 - 13	21
	Do not apply more than 0.15 lb a.i. per ac When applying in nonvolatile vegetable of Black Cutworm - ASANA® XL may be for the control of black cutworm when ap Chinch Bug Control - For optimum resu	oils use a total spray vo applied at 3.2 - 9.6 fl oplied at planting of sor	oz/acre (0.0165 - 0.0 ghum.	5 lb ai/acre)	
Soybean	Green Cloverworm Mexican Bean Beetle Potato Leafhopper Saltmarsh Caterpillar Velvetbean Caterpillar Woollybear Caterpillar	0.015 - 0.03	2.9 - 5.8	44 - 22	21
	Bean Leaf Beetle Beet Armyworm* Cabbage Looper Corn Earworm Cutworms Grasshoppers Green Stink Bug (except CA) Japanese Beetle (adult) Southern Green Stink Bug Soybean Aphid (except CA) Three-cornered Alfalfa Hopper	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Grasshopper - For control of first and see of 3.9 to 5.8 fluid ounces of product per a of spray applications to the first and seconditical to achieve optimum control. For suse ASANA® XL at use rates of 5.8 to 9 ai/A). Soybean Aphid - ASANA® XL provide such as rapid aphid population growth, on ASANA® XL can be tank mixed with ot "Lorsban") or methomyl (e.g. DuPont TM). Because LANNATE® is a fast acting cor insect. When preparing a tank mixture, remixture regarding restrictions, requireme uniform coverage. For aerial application use a minimum of 10 gallons per acre. *Aids in control. When applying in nonvolatile vegetable of Do not feed or graze livestock on treated Do not apply more than 0.2 lb ai per acre.	icre (0.02 - 0.03 lb ai/A icre (0.02 - 0.03 lb ai/A icre (0.02 - 0.03 lb ai/A icre (0.02	can be used. Correse and thorough cover ages larger than second uct per acre (0.03 - 0) which, however under attions, a tank mixture of chlorpyrifos (e.g. we rapid knockdown esults follow direct sollows in the control of the contro	ect timing erage is ad instar, 0.05 lb certain conditions e may be considered of soybean aphid. epraying of the target products in the to obtain thorough, or ground application	
Sugar Beets	Beet Armyworm* Beet Webworm Cabbage Looper Cutworms Flea Beetle (except CA) Grasshoppers Leafhoppers Saltmarsh Caterpillar Sugar beet Root Maggot (adult) (except CA) Grasshopper - For control of first and se	0.03 - 0.05	5.8 - 9.6	22 - 13	21
*	fluid ounces of product per acre (0.02 - 0, the first and second instar nymphal stages For grasshopper nymph stages larger that ounces of product per acre (0.03 - 0.05 lb *Aids in control. Do not apply more than 0.15 lb ai/acre pe Apply with ground or air equipment using gal of water per acre).	and thorough coverage second instar, use AS ai/A). r season.	e is critical to achiev ANA® XL at use ra	ve optimum control. tes of 5.8 to 9.6 fluid	

SPECIFIC USES—FIELD CROPS (cont'd)

			Appl	ication R	ate	Acres treated per	Last Application
Crop	Insect		lb ai/acre		fl oz/acre	gal of DuPont™ ASANA® XL	(days to harvest)
Sugar Beets At Plant	Cutworm		0.0023 lbs. a.i. per 1000 feet of row		0.45 fl. oz. per 1000 feet of row		21
	Apply as an in-furrow, T-band, or band treatment using a minimum 4" band. Use the table below to determine the pounds active ingredient and fluid ounces of ASANA® XL applied at 0.0023 lbs. a.i. per 1000 feet of row for various row spacings. In-Furrow Applications: Apply into the seed furrow through spray nozzles, behind the planter furrow openers and in front of the press wheel. Banded Applications: Apply at planting as a 4-7 inch T-band sprayed across the open seed furrow between the furrow openers and the press wheels or as a band application behind the press wheel. Apply a minimum spray volume of 3 gallons per acre. Do not exceed 0.05 lbs. a.i. per acre per season as an at-plant application. Do not apply more than 0.25 pounds active ingredient per acre per season including at-plant plus foliar applications of ASANA® XL.						
	Row Spacing (inches) Linear Ft/A ASANA® XL Lbs.ai/A ASANA® XL Fl oz/A	40" 13,068 0.03 5.8	38" 13,756 0.032 6.2	36" 14,520 0.033 6.4		24 23,760 0.05	
Sugarcane	Sugarcane Borer		0.03 - 0.05		5.8 - 9.6	22 - 13	21
	Do not apply more than 0.2	lb ai/acre per s	eason.				
Sunflower	Sunflower Beetle (except C	(CA) 0.0075 - 0.03 1.45		1.45 - 5.8	88 - 22	28	
	Banded Sunflower Moth Beet Armyworm* Cutworms Grasshoppers Heliothis (complex) Leafhoppers Sunflower Maggot Sunflower Moth Sunflower Seed Weevil Sunflower Stem Weevil		0.03 - 0.05	1	5.8 - 9.6	22 - 13	
	Grasshopper - For control of 5.8 fluid ounces of product process to the first and second instar For grasshopper nymph stag ounces of product per acre (*Aids in control. Do not apply more than 0.2	per acre (0.02 - nymphal stag ges larger than 0.03 - 0.05 lb a	 0.03 lb ai/A) control es and thorough second instar, uai/A). 	an be used coverage	 Correct time is critical to a 	ing of spray applications achieve optimum control.	

SPECIFIC USES—FRUITS

DILUTE SPRAY: Apply specified dosage per 100 gallons of water in a uniform spray applied to the point of drip with conventional ground equipment. Do not exceed maximum number of gallons per acre indicated.

NOTE: In order to apply the correct amount of DuPontTM ASANA® XL insecticide to your orchard you must know the number of gallons of water needed to spray one acre of your trees to the point of drip. If you do not already know this gallonage, you should conduct a test to determine it. If you do not know how to conduct such a test with your equipment, you should ask for assistance from your equipment dealer or State Extension specialist.

CONCENTRATE SPRAY: APPLY SPECIFIED DOSAGE PER ACRE IN NO LESS THAN 30 GALS. OF WATER PER ACRE BY GROUND.

FOR AERIAL APPLICATION IN TREE AND ORCHARD CROPS, USE A MINIMUM OF 10 GALLONS OF WATER PER ACRE. WHEN APPLYING ASANA® XL BY AIR, CONSULT YOUR COOPERATIVE EXTENSION SERVICE FOR FURTHER APPLICATION GUIDELINES.

			pplication Ra		Acres	Last		
	1	Concentral Ib ai	te Spray fl oz	Dilute Spray fl oz	treated per gal of DuPont™	Application		
Crop	Insect	/acre	/acre	/100 gal	ASANA® XL	(days to harvest)		
Apples	Apple Aphid Apple Maggot Codling Moth Green Fruitworm Lesser Appleworm Mullein Plant Bug (except CA) Oblique Banded Leafroller Oriental Fruit Moth Periodical Cicada Plant Bugs (Tarnished Plant Bug, Stink Bugs) Plum Curculio Red - Banded Leafroller Rosy Apple Aphid San Jose Scale (fruit infestations only) Tentiform Leaf Miner	0.025 - 0.075	4.8 - 14.5	2.0 - 5.8	26 - 9	21		
Tufted Apple Bud Moti Variegated Leafroller White Apple Leafhoppe Apple Ermine Moth (ID, OR & WA only) Tufted Apple Bud Moti (overwintering) (MD, NC, NJ, PA, VA. Do not feed or graze live Do not apply more than oper acre, but do not apply Apple Ermine Moth-Aspray-to-wet application Moth hibernacula are fou When using on apple nur coverage application whi Make first application in Make a second application Note: Overwintering larv Plant Bug, Rosy Apple aprebloom and post bloom Tufted Apple Bud Moti of the tufted apple bud mapplication of ASANA® Use the lower rate on smarte on larger larvae (peta Apply specified dosage p ground to obtain uniform coverage of areas where of Beneficial Insects: Appl pink stage of apple develococcinellid insect and the growing areas. This preda apple bud moth and move	Variegated Leafroller White Apple Leafhopper Apple Ermine Moth (ID, OR & WA only)			3.0				
		(overwintering) (MD, NC, NJ, PA, VA, WV only)						
	Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth-Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do not coverage application which could result in Make first application in the fall after 909 Make a second application 7 to 14 days lated Note: Overwintering larvae do not die unt Plant Bug, Rosy Apple Aphid Control-prebloom and post bloom spray timings returted Apple Bud Moth (overwintering of the tufted apple bud moth with directed application of ASANA® XL at either pinl Use the lower rate on small larvae (pink strate on larger larvae (petal fall stage of ap Apply specified dosage per acre to the ore ground to obtain uniform coverage. Apply coverage of areas where overwintering tut Beneficial Insects: Application of ASAN pink stage of apple development may be to coccinellid insect and the major predator of growing areas. This predator overwinters apple bud moth and moves into apple tree temperatures exceed 68°F. Emergence from and 90-100% complete by petal fall on the	acre per season. F fl. oz. of ASANA(gallons of superior th coverage of all s at treat bundled pla at less than complet for of leaf fall has or ter. il approximately 3 Time of applicatio commended by St D-For use on appli ground applicatio of stage of apple or tage of apple or tage of apple or tage of apple or tage of apple bud ple) and/or on mod hard floor in no less treatment in a bar fred apple bud mot lA® XL to the gro oxic to overwinter of spider mites in the in the same areas of s from mid-April th m the groundcover	D XL per acre p spray oil in 10 terms and branc it is die control. courred—usuall 0 days after appendix critical in a date Extension of the control to the apple of at petal fall stagor on lower poplerate to high pass than 30 gals in different trunk to hare found. Undcover at the ding Stethorus pure MD, NC, NJ of the orchard ghrough mid-Mais 20-70% controls.	per treatment. O gallons of water where Apple Englished water Apple Englished water and the water Apple Englished water Apple Englished water October 15. Dilication. Achieving control. It is control. It is control. It is control. It is control of overwintering or chard floor. Make ge of apple. Dulations. Use the opulations. Use the opulations. Use the opulations. It is of water per acre by or drip line to allow the control of water per acre by or drip line to allow the control of water per acre by or drip line to allow the control of water per acre by or water	in a Ermine a full Use larvae cone higher y			

SPECIFIC USES—FRUITS (cont'd)

			pplication Ra		Acres	Last
Crop	Insect	Concentrat lb ai /acre	e Spray fl oz /acre	fl oz /100 gal	treated per gal of DuPont™ ASANA® XL	Application (days to harvest)
Blueberry (except CA)	Aphids (NJ only) Blueberry Spanworm Cherry Fruitworm* Cranberry Fruitworm Cranberry Weevil* Grasshoppers Japanese Beetle Leafhoppers Red Striped Fireworm*	0.025 - 0.05	4.8 - 9.6		26 - 13	14
	Blueberry Maggot Black Vine Weevil (adult control) Strawberry Root Weevil (adult control) (OR, WA only)	0.05	9.6		13	
	*Aids in control. Do not apply more than 0.2 lb ai/acre per Use of ground application is recommended per acre. Do not apply this product through any tyn Note: ASANA® XL can act as a bee repeat pre-bloom or post-bloom spray only. Black vine weevil & strawberry root we notching beginning in late May to early Jadults on or just below the soil surface arthree weeks of first sign of infestation. Degallons of water per acre. Direct spray to of plants. Best results are from application weevils are actively feeding. Root weevil applications when signs of new feeding a	ed; for ground apply be of irrigation sys- ellent, do not apply eevil (adult contr- une as the first sig- ound the base of pion on tapply by air; provide full cover- ns made after dark is emerge over a se	tem. v within 7 days ol) (OR, WA on n of weevil feed lants. Apply AS apply by groun apply by foliage a when temperat	of pollination. App nly): Look for lead ding. Also check for SANA® XL withing dusing a minimum nd soil area around tures are warm and	ply as f or n two to m of 50 d base	
Caneberries (blackberries, boysenberries,	Aphids Oblique Banded Leafroller Orange Tortrix	0.025 - 0.05	4.8 - 9.6		26 - 13	7
dewberries, loganberries,	Adult Root Weevils* (OR & WA only)	0.05	9.6		13	
raspberries, youngberries, and varieties of these) (except CA)	*Aids in control. Do not apply by air. Do not apply more than 0.15 lb ai per acr Do not apply this product through any ty NOTE: ASANA® XL can act as a bee re as a pre-bloom or post-bloom spray only. bees, apply ASANA® XL in the evening Adult Root Weevils (OR & WA only): as the first sign of weevil feeding. Also c base of plants. Apply ASANA® XL with a minimum of 50 gallons of water per acr foliage and the soil area around the base dark when temperatures are warm and we period of several weeks; make subsequer Oblique Banded Leafroller Orange To minimum of 50 gallons of water with gro harvest and no later than 7 days before he	pe of irrigation sys pellent, do not app Remove bees price after sunset. Look for leaf notch heck for adults on in two to three we re. Direct spray to jof the plant. Best re sevils are actively in the applications whe rtrix and Aphids: and equipment on arvest.	ly within 7 days or to application ning beginning or just below the leks of infestatic provide thoroug esults are from feeding. Root with a signs of new 12 Apply as of a signs	in late May to earlie soil surface aroun. Apply by groungh coverage of all applications made reevils emerge overfeeding appear. I coverage spray ir rlier than 12 days	ifety to y June und the nd using plant after er a n a before	
Kiwifruit	Boxelder Bug (suppression only) Spray in sufficient water for thorough co (total of 0.35 lb ai/acre/season) with a mi	verage. A maximum	m of 7 applicati	ions is allowed per	season 13	14
Pear	Codling Moth Green Fruitworm Leafrollers Pear Psylla Pear Slug Periodical Cicada Plum Curculio	0.025 - 0.075	4.8 - 14.5	2.0 - 5.8	26 - 9	28
	Do not apply more than 0.375 lbs. a.i. per Do not apply more than 0.225 lb. a.i. per livestock on treated orchard floors. For d more than 14.5 fl. oz. of ASANA® XL p	acre between bloo ilute spray apply 2	00 - 600 gals pe	Do not feed or gra er acre, but do not	ze apply	
Pear	Pear Psylla	0.05 - 0.1	9.6 - 19.2	7.3 - 12.8	13.2 - 6.6	
(Dormant)	Apply during dormant to prebloom (whit acre per season. Do not graze orchard flo not apply more than 19.2 fl. oz. of ASAN	or. For dilute spray	apply 150 - 25	ore than 0.2 lb a.i. 50 gals per acre, bu	per ut do	

SPECIFIC USES—FRUITS (cont'd)

			Application Rate			Last		
		Concentra		Dilute Spray	treated per gal	Application (days to harvest)		
Crop	Insect	lb ai /acre	fl oz /acre	fl oz /100 gal	of DuPont™ ASANA® XL			
Black Cherry Aphid Cherry Fruit Fly Green Fruitworm Leafnoppers Leafnoppers Leafnollers Leafnollers Leafrollers Leaser Peach Tree Borer Oriental Fruit Moth Peach Tree Borer Peach Tree Borer Periodical Cicada Plant Bugs (Tarnished Plant Bug, Stink Bugs) Plum Curculio Western Cherry Fruit Fly Peach Twig Borer (Dormant) (CA only) Tufted Apple Bud Moth (overwintering) (Peach only) (MD, NC, NJ, PA, VA and WV only) Do not apply more than 0.375 lbs a per acre per season between bloom 200 - 400 gals per acre, but do not a treatment. Do not graze livestock o Peach Tree Borer, American Plut trunk and scaffold limb spray. Thor Peach Twig Borer (Dormant)—M recommendations on use of oil consapplication equipment is recommen Peach Twig Borer, Plum Curculis Fruit Fly, Leafrollers, Black Chersprayer to achieve thorough covera. Plant Bug Control - Time of applic postbloom spray timings recommen Tufted Apple Bud Moth (overwint of the tufted apple bud moth with dapplication of ASANA® XL at eith Use the lower rate on small larvae (higher rate on larger larvae (shucks) Apply specified dosage per acre to iground to obtain uniform coverage. coverage of areas where overwinter Beneficial Insects: Application of popcorn stage of peach developmen is a coccinellid insect and the major fruit growing areas. This predator o tufted apple bud moth and moves in	Cherry Fruit Fly Green Fruitworm Leafhoppers Leafrollers Lesser Peach Tree Borer Oriental Fruit Moth Peach Tree Borer Peach Twig Borer Periodical Cicada Plant Bugs (Tarnished Plant Bug, Stink Bugs) Plum Curculio	0.025 - 0.075	4.8 - 14.5	2.0 - 5.8	26 - 9	14		
		0.04 - 0.075	8.0 - 14.5	3.1 - 5.8	16 - 9			
	(overwintering) (Peach only) (MD, NC, NJ, PA, VA and WV	ering) uly) , NJ, PA, VA and WV						
	per acre per season between bloom and ha 200 - 400 gals per acre, but do not apply a treatment. Do not graze livestock on treat Peach Tree Borer, American Plum Bor trunk and scaffold limb spray. Thorough Peach Twig Borer (Dormant)—Make ap recommendations on use of oil consult mapplication equipment is recommended. Peach Twig Borer, Plum Curculio, Ori Fruit Fly, Leafrollers, Black Cherry Apprayer to achieve thorough coverage of a Plant Bug Control - Time of application postbloom spray timings recommended b Tufted Apple Bud Moth (overwintering of the tufted apple bud moth with directed application of ASANA® XL at either pop Use the lower rate on small larvae (popcound to obtain uniform coverage. Apply coverage of areas where overwintering tut Beneficial Insects: Application of ASAN popcorn stage of peach development may is a coccinellid insect and the major predafruit growing areas. This predator overwinterided apple bud moth and moves into peadaily temperatures exceed 68°F. Emergene shucksplit. Shucksplit is the preferred time shucksplit. Shucksplit is the preferred times to the stage of the preferred times the control of the preferred times the pre	more than 14.5 fl. of ed orchard floors. er, Lesser Peach coverage of trunk a plication with an Fanufacturer's label ental Fruit Moth, phid, Periodical Call aerial portions of cis critical in achievy State Extension (2)—For use on peach ground application corn stage of peach) and/or treatment in a bar fied apple bud mot IA® XL to the grobe toxic to overwitter of spider mites are the same as charge from midge from the ground efform the ground cover the same as the trees from midge from the ground cover the same as the trees from the ground cover the same as the trees from the ground cover the same as the trees from the ground cover the same as the trees from the ground cover the same as the trees from the ground cover the same as the trees from the ground the same as the trees from the ground the same as the trees from the ground the same as the same as the trees from the ground the trees from	Tree Borer Cound scaffold lim EPA registered control registered control. For best performance of the tree. For the control for the control registered control. Use Services. For the peach control registered control on to the peach control registered for on moderate the stand 30 gals to the management of the mere found. For the MD, NC cas of the orcharapil through necover is 90-100 cover is 90-100	ntrol - Apply as dibs is required. dormant oil; for spormance, ground Fly, Western Che - Apply by ground e prebloom and ol of overwintering orchard floor. Mak lit stage of peach. r populations. Use to high populations of water per acre b o drip line to allow """ us punctum. S. pun "", NJ, PA, VA and argoundcover as nid-May when mai "" "" "" "" "" "" "" "" "" "" "" "" ""	ctum WV sthe			

SPECIFIC USES—TREE NUT CROPS

DILUTE SPRAY: Apply specified dosage per 100 gallons of water in a uniform spray applied to the point of drip with conventional ground equipment. Do not exceed maximum number of gallons per acre indicated.

NOTE: In order to apply the correct amount of DuPontTM ASANA® XL insecticide to your orchard you must know the number of gallons of water needed to spray one acre of your trees to the point of drip. If you do not already know this gallonage, you should conduct a test to determine it. If you do not know how to conduct such a test with your equipment, you should ask for assistance from your equipment dealer or State Extension specialist.

CONCENTRATE SPRAY: APPLY SPECIFIED DOSAGE PER ACRE IN NO LESS THAN 30 GALS. OF WATER PER ACRE BY GROUND. FOR AERIAL APPLICATION IN TREE AND ORCHARD CROPS, USE A MINIMUM OF 10 GALLONS OF WATER PER ACRE. WHEN APPLYING ASANA® XL BY AIR, CONSULT YOUR COOPERATIVE EXTENSION SERVICE FOR FURTHER APPLICATION GUIDELINES.

			Application Rate Concentrate Spray Dilute Spray			Last
Crop	Insect	lb ai /acre	fl oz /acre	fl oz /100 gal	treated per gal of DuPont™ ASANA® XL	Application (days to harvest)
Almonds	Navel Orangeworm Peach Twig Borer Peach Twig Borer (Dormant) (CA only)	0.05 - 0.1	9.6 - 19.2	7.3 - 12.8	13.2 - 6.6	21
	Do not apply more than 0.2 lb. a.i. per acr Do not graze livestock on treated orchard Peach Twig Borer (Dormant)—Make ap recommendations on use of oil consult ma application equipment is recommended.	floors. plication with an	EPA registered l. For best perf	dormant oil; for sp ormance, ground	pecific	
Filberts	Filbertworm Oblique Banded Leafroller	0.05 - 0.1	9.6 - 19.2	7.3 - 12.8	13.2 - 6.6	21
	Make first application after emergence of treatment earlier than three weeks after the For dilute spray, apply 200 - 400 gals. per ASANA® XL per acre per treatment. Do	first. Do not apply acre, but do not a	y more than 0.2 pply more than	lb. a.i. per acre per 19.2 fl. oz of	second season.	
Pecans	Hickory Shuckworm Pecan Aphids Pecan Nut Casebearer Pecan Leaf Phylloxera Pecan Spittlebug Pecan Stem Phylloxera Pecan Weevil	0.025 - 0.075	4.8 - 14.5	2.0 - 5.8	26 - 9	21
	Do not feed or graze livestock on treated of Do not apply more than 0.3 lbs. a.i. per ac acre, but do not apply more than 14.5 fl. of ASANA® XL may be tank-mixed with further "Super Tin". Refer to the ASANA® XL arates of the individual products for contro Phylloxera - Correct timing of spray appliand stem phylloxera. Consult local spray in the product of the phylloxera of the phylloxera consult local spray appliant.	ere per season. For oz. of ASANA® > angicides containi and fentin hydroxi lling the respectivations is critical	CL per acre per ng fentin hydro de (triphenyltin re pests.	treatment. xide (triphenyltin l hydroxide) labels otimum control of	nydroxide) such as for appropriate	2
Walnuts	Codling Moth Navel Orangeworm Walnut Aphid Walnut Husk Fly	0.05 - 0.1	9.6 - 19.2	4.0	13 - 6	21
	Do not apply more than 0.2 lb. a.i. per acr For dilute sprays, apply 200 - 400 gals per NOTE: Use of baits in Walnut Husk fly sp Extension Service.	r acre. Do not feed				

SPECIFIC USES—VEGETABLE CROPS

		Application	Application Rate		Last Application
Crop	Insect	lb ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL	(days to harvest)
Artichoke	Artichoke Plume Moth	0.03 - 0.05	5.8 - 9.6	22 - 13	1
	Do not apply more often than each 14 between bud formation and harvest o of 10 gallons per acre by air and 50 water to obtain coverage without exc	of an individual fruit. Apply 200 gallons per acre by gro	in a minimum		
Beans, Dry (Including adzuki bean,	Leafhoppers (except CA) Mexican Bean Beetle Saltmarsh Caterpillar	0.015 - 0.03	2.9 - 5.8	44 - 22	21
blackeyed pea, broad bean (dry), chickpea, cow pea, crowder pea, field bean, kidney bean, lima bean (dry), mung bean, navy bean, pinto bean, southern pea, tepary bean) Peas, Dry Lentils	Beet Armyworm* Cabbage Looper Corn Earworm Corn Rootworm (Adults) Cowpea Curculio Cucumber Beetle Cutworms Grasshoppers Green Cloverworm Leafhoppers Painted Lady Butterfly (larvae) Pea Aphid Potato Leafhopper Soybean Aphid (except CA) Velvetbean Caterpillar Western Bean Cutworm	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Pea Leaf Weevil (ID, OR & WA only) Pea Weevil (ID, OR & WA only)	0.025 - 0.05	4.8 - 9.6	26 - 13	
3	Do not feed or graze livestock on trea Pea Weevil & Pea Leaf Weevil (ID, control of pea weevil. For optimum re Once adult pea weevil populations rea be reduced. Grasshopper - For control of first an fluid ounces of product per acre (0.02 the first and second instar nymphal st For grasshopper nymph stages larger ounces of product per acre (0.03 - 0.0	OR & WA) - Time of appeaults, apply at bloom prior ich a level of 2 or more aduled second instar grasshoppe? - 0.03 lb ai/A) can be used ages and thorough coverage than second instar, use AS.	r to detecting adult p lts per 25 sweeps, co er nymphal stages a 1. Correct timing of e is critical to achie	pea weevils. ontrol may rate range of 3.9 to 5.8 spray applications to ve optimum control.	
Beans, Snap Also known as: (blue lake, bush,	Leafhoppers (except CA) Mexican Bean Beetle	0.015 - 0.03			
(blue lake, busil,	Saltmarsh Caterpillar		2.9 - 5.8	44 - 22	3
common, edible-podded, filet, flageolet, French, French horti- ultural, frijoles comunes, garden, green, haricot, haricot commun, Italian, judia comum, Kentucky wonder, magic, pole, romano, string, succulent, vainica, wax)		0.03 - 0.05	2.9 - 5.8 5.8 - 9.6	22 - 13	3
common, edible-podded, filet, flageolet, French, French horti- ultural, frijoles comunes, garden, green, haricot, haricot commun, Italian, judia comum, Kentucky wonder, magic, pole, romano, string, succulent,	Saltmarsh Caterpillar Beet Armyworm* Cabbage Looper Corn Earworm Corn Rootworm (adults) Cucumber Beetle Cucumber Beetle (adults) Cutworm (seedling spray) European Corn Borer Flea Beetle Grasshoppers Green Cloverworm Leafhopper Leafminer (Guam only) Pea Aphid Potato Leafhopper Soybean Aphid (except CA) Velvet Bean Caterpillar	0.03 - 0.05	5.8 - 9.6	22 - 13	3
common, edible-podded, filet, flageolet, French, French horti- ultural, frijoles comunes, garden, green, haricot, haricot commun, Italian, judia comum, Kentucky wonder, magic, pole, romano, string, succulent,	Saltmarsh Caterpillar Beet Armyworm* Cabbage Looper Corn Earworm Corn Rootworm (adults) Cucumber Beetle Cucumber Beetle (adults) Cutworm (seedling spray) European Corn Borer Flea Beetle Grasshoppers Green Cloverworm Leafhopper Leafminer (Guam only) Pea Aphid Potato Leafhopper Soybean Aphid (except CA) Velvet Bean Caterpillar Western Bean Cutworm *Aids in control. Do not apply more than 0.2 lb ai per a Do not allow livestock to graze treate.	0.03 - 0.05	5.8 - 9.6	22 - 13	3

SPECIFIC USES—VEGETABLE CROPS (cont'd)

		Application		Acres treated per gal of DuPont™	Last Applicatio (days to
Crop	Insect	lb ai/acre	fl oz/acre	ASANA® XL	harvest)
Carrots	Aster Leafhopper Cutworms Leafhoppers	0.03 - 0.05	5.8 - 9.6	22 - 13	7
	Carrot Weevil	0.05	9.6	13	Ī
	Do not apply more than 0.5 lb ai/acre p For aerial application apply in a minim Thorough spray coverage of crown are recommended. Carrot Weevil - Begin treatment whe	um of 5 gals water per ac a is essential. Use of grou	and application is		
Collards	Alfalfa Looper Beet Armyworm* Cabbage Looper Cutworm Flea Beetle Grasshopper Imported Cabbageworm *Aids in control.	0.03 - 0.05	5.8 - 9.6	22 - 13	7
	Do not feed livestock on treated plant p 0.2 lbs. a.i. per acre per season. For aer of 5 gals water per acre.	parts. Do not apply more rial application apply in a	than a minimum		
Cucumber, Melons, (cantaloupe, honeydew melons, muskmelon, watermelon), Pumpkin, Squash (summer, winter)	Cabbage Looper Corn Earworm Cucumber Beetle (adults) Cutworms (seedling spray) Grasshoppers Leafhoppers Pickleworm Plant Bugs (Lygus Bugs, Stink Bugs) Rindworms Squash Bug Squash Vine Borer	0.03 - 0.05	5.8 - 9.6	22 - 13	3
	Do not apply more than 0.25 lbs. a.i. per	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	50.06	T 22 12	7
Eggplant	Colorado Potato Beetle Corn Earworm European Corn Borer Flea Beetles Loopers	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Apply when insects are observed or wh to 10 day intervals to achieve control. I	en insect damage is obsert Do not apply more than 0	.35 lbs. a.i. per acre	ations at / per season.	
Kohlrabi	Cabbage Looper	0.03 - 0.05	5.8 - 9.6	22 - 13	3
	Do not apply more than 0.4 lbs. a.i. per	acre per season.			Ť
Lentils	See "Beans, Dry"				
Lettuce, Head AZ, CA, CO, FL, NM & TX ONLY	Alfalfa Looper Beet Armyworm* Cabbage Looper Heliothis spp.	0.025 - 0.05	4.8 - 9.6	26 - 13	7
	*Aids in control. Do not apply more than 0.35 lbs. a.i. po	er acre per season.			
Mustard Greens	Cabbage Looper	0.05	9.6	13	7
	Imported Cabbageworm	acre per			
405	Do not apply more than 0.2 lbs a.i. per season.	acre per			
Okra (FL only)	Cabbage Looper Corn Earworm Southern Armyworm	0.03 - 0.05	5.8 - 9.6	22 - 13	1
Peas, Dry	See "Beans, Dry"			La La Sol	
Peas, Green	Green Cloverworm Pea Aphid	0.015 - 0.03	2.9 - 5.8	44 - 22	3
	Alfalfa Caterpillar Alfalfa Looper Armyworm Cabbage Looper Celery Looper Corn Earworm Cutworms Imported Cabbageworm	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Pea Leaf Weevil (ID, OR & WA only) Pea Weevil (ID, OR & WA only)	0.025 - 0.05	4.8 - 9.6	26 - 13	
	Do not apply more than 0.1 lb ai/acre properties to livestor Pea Weevil & Pea Leaf Weevil (ID, 6 achieving control of pea weevil. For opea weevils. Once adult pea weevil pop control may be reduced.	ock. OR & WA only) - Time optimum results, apoly at	bloom prior to dete	cting adult	

SPECIFIC USES—VEGETABLE CROPS (cont'd)

		Application	on Rate	Acres treated per	Last Application (days to harvest)
Crop	Insect	lb ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL	
Pepper	Beet Armyworm* Colorado Potato Beetle Corn Earworm Cucumber Beetle (adults) European Corn Borer Flea Beetles Loopers Pepper Weevil* Southern Armyworm	0.03 - 0.05	5.8 - 9.6	22 - 13	7
	*Aids in control. Apply when insects are observed or w 10 day intervals to achieve control.	hen insect damage is observ Do not apply more than 0.3	ed. Repeat applicat 5 lbs. a.i. per acre p	tions at 7 to per season.	
Potato	Leafhoppers (except CA) Potato Psyllid	0.015 - 0.03	2.9 - 5.8	44 - 22	7
	Potato Tuberworm	0.015 - 0.05	2.9 - 9.6	44 - 13	
	Beet Armyworm* Buckthorn Aphid Cabbage Looper Colorado Potato Beetle Cucumber Beetle (adult control) Cutworms European Corn Borer Fleabeetles Grasshoppers Potato Aphid Potato Leafhopper Tarnished Plant Bug Western Yellow-Striped Armyworm Colorado Potato Beetle	0.03 - 0.05	5.8 - 9.6 9.6	22 - 13	
	(Long Island, NY only) Grasshopper - For control of first ar 5.8 fluid ounces of product per acre (to the first and second instar nympha For grasshopper nymph stages larger ounces of product per acre (0.03 - 0.0 Potato Tuberworm - For control of larvae and/or moth counts reach local of effective insecticides may be need harvest in order to reduce the risk of to crop senescence or vine kill increa *Aids in control. Do not apply more than 0.35 lb. a.i. pe	ad second instar grasshoppe 0.02 - 0.03 lb ai/A) can be is tages and thorough cover than second instar, use AS 55 lb ai/A). Potato Tuberworm apply A lly established treatment the ed to keep tuberworm larva tuber damage. Failure to ad ses the risk of tuber damage	ar nymphal stages a used. Correct timin, rage is critical to acid ANA® XL at use rays and XSANA® XL insectes hold populations are populations as logequately control tul	rate range of 3.9 to g of spray applications hieve optimum control. ates of 5.8 to 9.6 fluid sticide when tuberworm. Repeat applications w as possible prior to	
Radishes	Armyworms Beetles	0.03 - 0.05	5.8 - 9.6	22 - 13	7

SPECIFIC USES—VEGETABLE CROPS (cont'd)

		Application	on Rate	Acres treated per	Last Application	
Crop	Insect	Ib ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL	(days to harvest)	
Sweet Corn†	Western Bean Cutworm	0.015 - 0.03	2.9 - 5.8	44 - 22	1	
	For additional information consult direction		l corn.			
	Armyworm Banded Cucumber Beetle Beet Armyworm* Chinch Bugs Corn Earworm Corn Leaf Aphid Corn Rootworms (adults) Cutworms European Corn Borer Fall Armyworm (except CA) 1st and 2nd instar Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Beetles (adults) Southwestern Corn Borer Stalk Borer Tarnished Plant Bug	0.03 - 0.05	5.8 - 9.6	22 - 13	+3	
	Corn Silkfly (except CA)**	0.05	9.6	13	1	
	Corn Leaf Aphid & Oat Bird-Cherry Aphid - For optimum results, direct the spray at the aphid population so as to achieve maximum coverage of the exposed insects. Aphids not contacted by the spray, such as in whorls and leaf axils, may not be adequately controlled. Corn Silkfly (except CA) - Direct application to the ear zone to obtain thorough coverage of the corn silk. Fall Armyworm (except CA) - 1st and 2nd instar fall armyworm only. Direct the application to the ear zone to obtain thorough coverage of the corn silk.					
	† Do not apply more than 0.5 lb a.i. per	acre per season.	-			
Tomato	Tobacco Hornworm Tomato Hornworm	0.015 - 0.03	2.9 - 5.8	44 - 22	1	
ti	Beet Armyworm* Cabbage Looper Colorado Potato Beetle Cutworms Flea Beetle Grasshoppers Potato Aphid Southern Armyworm Tomato Fruitworm Tomato Pinworm Western Yellow-Striped Armyworm Whitefly	0.03 - 0.05	5.8 - 9.6	22 - 13		
		0.05	9.6	13	1	
	*Aids in control. **ASANA® XL is not recommended for use on the Vegetable Leafminer in Florida.					
	Do not apply more than 0.5 lbs. a.i. per acre	per season.				

SPECIALTY USES

Crop	Insect		Application Rate			
		High Volume Sprays		Low Volume Sprays		
		lb ai/100 gal	fl oz/100 gal	lb ai/acre		
Christmas tree plantings, Conifer plantations, Conifer seed orchards, Forest tree nurseries	Balsam Twig Aphid Balsam Woolly Adelgid Cranberry Girdler (adult control) European Pine Sawfly Nantucket Pine Tip Moth and other Pine Tip Moths (except CA) Northern Pine Weevil Pales Weevil Pine Chafer Pine Conelet Bug Pine Needle Midge Pineleaf Chermid Red Pine Sawfly Redheaded Pine Sawfly Spittlebugs Spruce budworm	0.03 - 0.05	5.8 - 9.6	0.03 - 0.05		
	Spray in sufficient gallonage to obtain good coverage of entire tree.					
	Coneworm Seed Chalcid Seedbug	9.6 fl oz/100 gals water for high volume sprayers. 52 fl oz/100 gals water for low volume sprayers. 0.19 lb. ai/acre application in not less than 10 gals of water for aerial applications.				
	Apply first application within 1 week of female flower closure or peak pollen flight for Webbing Coneworm control. For other Coneworms and Seedbugs, apply first application within 30 days following female flower closure. Repeat application at intervals of 4 weeks but do not apply more than 1.6 lbs. ai per acre per year. For Seed Chalcid control, apply when all cones are pendant, and repeat at 1 - 2 week intervals for 2 or more sprays. Apply approximately 5 - 10 gals of the 9.6 fl oz/100 gal dilution per tree with high volume					
	sprayers. With low volume sprayers apply 100 gals of the 52 fl oz/100 gal dilution per acre. Do not graze or harvest cover crop. Refer to Spray Recommendations and Precautions when applying to areas adjacent to water.					

Сгор	Insect	Application Rate		Acres treated per	
		lb ai/acre	fl oz/acre	gal of DuPont TM ASANA® XL	
Non-Cropland (excluding public	Grasshoppers Saltmarsh Caterpillar	0.015 - 0.03	2.9 - 5.8	44 - 22	
land such as forests, parks, or recreational)	Army Cutworms Armyworms Chinch Bugs	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Spray non-cropland adjacent to tilled areas to control migrating insects (Grasshoppers, Armyworms) which are a threat to crops. Do not apply more than 0.5 lbs. active ingredient per acre per year. Do not feed treated crop to livestock. Refer to Spray Recommendations and Precautions when applying to areas adjacent to water.				

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in a secure, dry and temperate area. Store in original container. Keep container closed when not in use. Do not store near food or feed. Do not use or store around the home. Avoid contact with water. In case of spill or leak, soak up with sand, earth or synthetic absorbent (do not use alkaline absorbents) and dispose of wastes in compliance with local, State and Federal regulations.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Rigid Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Rigid Plastic and Metal Containers (Capacity Greater Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Rigid Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

All Refillable Containers: Refillable container. Refilling Container: Refill this container with DuPont™ ASANA® XL containing esfenvalerate only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If damage is found, do not use container, contact DuPont at the number below for instructions. Check for leaks after refilling and before transporting. If leaks are found, do not reuse or transport container, contact DuPont at the number below for instructions. Disposing of Container: Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordi-nances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other proce-dures approved by state and local authorities.

Do not transport if container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact DuPont at 1-800-441-3637, day or night. The DuPont Oval Logo, DuPont™, ASANA®, LANNATE® and SUPER TIN® are trademarks or registered trademarks of E. I. duPont de Nemours and Company

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