352-515 1/5/2005

Page 17.17

**OUPOND** 

## DuPont<sup>TM</sup> Asana® XL

insecticide

ACCEPTED JAN 5 2005

JAN 5 2005 Under the Federal Insecticide. Fungicide, and Rodenticide Act.

as amended, for the pesticide Registered under EPA Reg. No. 362-515



"...... A Growing Partnership With Nature"

#### 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<sup>™</sup> Asana® XL insecticide

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

Active Ingredient

Esfenvalerate
(S)-cyano (3-phenoxyphenyl) methyl
(S)-4-chloro-alpha-(1-methylethyl)
benzeneacetate

Inert Ingredients\*

91.6%

\* CONTAINS XYLENE RANGE AROMATIC SOLVENT

EPA Reg. No. 352-515

## KEEP OUT OF REACH OF CHILDREN WARNING AVISO

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.

## 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 washwaters.

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.

DuPont<sup>TM</sup> 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

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

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 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. DuPont<sup>TM</sup> 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.

## SPRAY RECOMMENDATIONS AND PRECAUTIONS

 All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers. OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES, OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.

- Do not apply by ground within 25 feet, or by air within 150 feet of lakes; reservoirs; rivers; permanent streams, marshes, or natural ponds; estuaries and commercial fish farm ponds. Increase the buffer zone to 450 feet when ultralow volume (ULV) application is made.
- For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of wing span or rotor diameter.
- Use the largest droplet size consistent with good pest control.
   Formation of very small droplets may be minimized by appropriate nozzle selection, by orientating nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Spray should be released at the lowest height consistent with pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.
- Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph.
- Risk of exposure to aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.
- Do not cultivate within 10 feet of the aquatic area so as to allow growth of a vegetative filter strip.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.
- Do not make aerial or ground applications during 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.

#### 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

	·	Application Rate		Acres treated per	Last Application
Crop	Insect	lb ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL	(days to harvest)
Corn (field)†	Western Bean Cutworm	0.015 - 0.03	2.9 - 5.8	44 - 22	21
Com (nea);	Armyworm (True Armyworm) Black Cutworm (except CA) Chinch Bug	0.03 - 0.05	5.8 - 9.6	22-13	
	Corn Earworm Corn Leaf Aphid Corn Rootworm (adult control) Cutworm				
	Flea Beetle Grasshopper Oat Bird-Cherry Aphid Southwestern Corn Borer Stalk Borer				-
	European Corn Borer	l 0.04 - 0.05 l	7.8 - 9.6	16 - 13	
	Black Cutworm - ASANA® XL m (0.0165 - 0.05 lb ai/acre) for the con- corn (except CA). Chinch Bug - Over the top sprays, are not adequate for chinch bug con-	strol of black cutworn as used for control of trol. It is very imports	n when applied a ear and stalk info ant that the spray	esting corn pests, be directed at the	
	base of the plant through the use of Corn Earworm - First application : applied if economically damaging p should be made at 3 - 5 day interval	drop nozzles or some should be at or before opulations exist. Sub- s until silking is comp	other mechanism silking. Repeat sequent applicati pleted.	n. applications may be ons	
	Corn Leaf Aphid, Oat Bird-Chern aphid population so as to achieve m contacted by the spray, such as in w Corn Rootworm (Adult) - Apply a				
	ASANA® XL may be tank-mixed won field corn where supplemental codesired in conjunction with insects of	vith methyl parathion ontrol of Adult Corn I controlled by ASANA	and applied Rootworm is B XL when use		
	Refer to the ASANA® XL and meti individual products for controlling to Cutworm - Applications for cutwor	he respective insects. In control may be ap	olied before,		
	during, or after planting as required European Corn Borer - First brood: Spray while eggs are it the larvae enter the whorl. Application of both upper and lower leaf surface nozzles over the row and on each six when egg laying is prolonged or where it is recommended for moderate to equipment usually requires 20-30 gawill not provide adequate control.	on the blackhead stage on by ground equipm is is essential. This can de of the corn plant. ere moderate to heav o heavy populations allons of carrier. Once	or before ent is suggested. is be accomplish Multiple applicati populations are roper coverage larvae enter the	Good coverage ed with drop ons may be required present. A higher by ground whorl, foliar sprays	
	Second brood: Make applications win the blackhead stage or starting to is present, additional sprays may be heavy populations. Good coverage requires 2 3 gallons of carrier by a of the plant will provide best coverage. ASANA® XL5 may be tank mixed when the same and	natch: When egg layii required: Aihigher, a bove, below landlini i: If ground equipme ge	ngis,prolonged o leis recommend hejear zone is es nuisiused, drop r	r a third generation ed for moderate to sential. This usually	
	on field comwhere supplemental co desired in conjunction with insects of Refer to the ASANA® XE and met individual products for controlling of Southwestern Corn Bores: For me	ntrolio@european@o ontrollediby:ASANA iyliparathion!labelsi@ heirespectivelinsects.	mBorer is  Note when used appropriate rate	es of the	
	ai per acre) are recommended.  Stalk Borer, Flea Beetle - Applicat com, before borers enter the plant.  Western Bean (Cutworm - Applysh			rom grassy areas to	
	†Do not apply more than 0.25 lb a				

## SPECIFIC USES—FIELD CROPS (cont'd)

	-	Applicat	ion Rate	Acres treated per					
Crop	Insect	lb ai/acre	fl oz/acre	gal of DuPont <sup>TM</sup> ASANA® XL	(days to harvest)				
Corn (pop)	For specific insect control recomme				1				
	Follow directions carefully.  Multiple applications and/or shorten	ed intervals between	sprays must be us	sed to insure proper					
Corn (seed)		insect control. Do not apply more than 0.5 lb a.i. per acre per season.  For specific insect control recommendations refer to Field Corn (above).							
,	Follow directions carefully.								
	Multiple applications and/or shorten insect control. Do not apply more th	ed intervals between an 0.25 lb a.i. per ac	sprays must be us re per season.	sed to insure proper					
Cotton	Cotton Leaf Perforator	0.03	5.8	22	21				
	Beet Armyworm* Black cutworm (except CA) Boll Weevil Cabbage Looper Cotton Aphid* Cotton Bollworm Cotton Leafworm Cutworms Fleahoppers	0.03 - 0.05	5.8 - 9.6	22 - 13	-				
	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	0.02	3.9	33					
Pegnuts	*Aids in control. May be applied in water or nonvolat When applying ASANA® XL in an of When applying ASANA® XL in an of When applying ASANA® XL in a wall 3 gal per acre in Arizona and 5 gal p Do not apply more than 0.5 lb ai per Do not graze livestock on treated fie Black Cutworm - ASANA® XL macre) for the control of black cutwor Boll Weevil - To control Boll Weev may be necessary. Heliothis spp ASANA® XL can p when applied according to label direct be timed to correspond with peak eg Use on this pest stage (egg) is not re Do not make more than a total of 10 combination of products) to a cotton products include "Ambush" insectic "Baythroid" emulsifiable pyrethroid "Danitol 2.4 EC" Spray insecticide/r "Karate" insecticide, "Mustang" insecticide. "Scout X-tra" insecticide.  Corn Farworm	oil carrier, apply a total vater carrier, apply a per acre in California acre per season.  Ids or feed treated	t least 1 gal per acre ash. 9.6 fl oz/acre (0. lanting of cotton 5 day interval be ial effect on Heliotobacco budworm eve maximum ovi a. applications (of g season. Synthet cide, ASANA®) e" insecticide/mit ecticide, "Fury" i secticide and	cre by air (at least by ground.  0165 - 0.05 lb ai/ (except CA). tween applications this spp. eggs this spp. eg	21				
Peanuts	Corn Earworm Potato Leafhopper	0.015 - 0.03	2.9 - 5.8	44 - 22	21				
	Red-necked Peanut Worm Velvetbean Caterpillar								
	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 infestatic recommended. Please refer to the LA **Aids in control.  Do not feed or graze livestock on tre Do not apply more than 0.15 lb a.i. p	ANNATE® label for ated vines.	LANNATE® in use instructions.	secticide is					

## SPECIFIC USES—FIELD CROPS (cont'd)

		Applicat	ion Rate	Acres treated per	Last Application
Сгор	Insect	lb ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL	(days to harvest)
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	
	Do not apply more than 0.15 lb a.i. p When applying in nonvolatile vegeta Black Cutworm - ASANA® XL ma for the control of black cutworm whe Chinch Bug Control - For optimum	able oils use a total sa ay be applied at 3.2 - en applied at planting	9.6 fl oz/acre (0.0 g of sorghum.	0165 - 0.05 Îb 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 *Aids in control.	0.03 - 0.05	5.8 - 9.6	22 - 13	
	When applying in nonvolatile vegets Do not feed or graze livestock on to Do not apply more than 0.2 lb ai per	eated fields.	spray volume of a	least 1 qt.	
Sugar Beets	Beet Armyworm* Beet Webworm Cabbage Looper Cutworms (seedling spray) Flea Beetle (except CA) Grasshoppers Leafhoppers Saltmarsh Caterpillar	0.03 - 0.05	5.8 - 9.6	22 - 13	21
	*Aids in control.  Do not apply more than 0.15 lb ai/ac Apply with ground or air equipment (minimum of 2 gal of water per acre	using sufficient wat	er to provide unifo	опп coverage	_
Sugarcane	Sugarcane Borer	0.03 - 0.05	5.8 - 9.6	22 - 13	21
	Do not apply more than 0.2 lb ai/acr			· · · · · · · · · · · · · · · · · · ·	
Sunflower	Sunflower Beetle (except CA)  Banded Sunflower Moth Beet Armyworm* Cutworms Grasshoppers Heliothis (complex) Leafhoppers Sunflower Maggot Sunflower Moth Sunflower Seed Weevil Sunflower Stem Weevil *Aids in control.	0.0075 - 0.03 0.03 - 0.05	1.45 - 5.8 5.8 - 9.6	88 - 22 22 - 13	28
	Do not apply more than 0.2 lb. ai/acr	e per season.			

#### **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 DuPont<sup>TM</sup> 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

	1		pplication R		Acres	Last			
		Concentra		Dilute Spray	treated per gal	Application			
Crop	Insect	lb ai /acre	fi oz /acre	fl oz /100 gal	of DuPont <sup>TM</sup> ASANA® XL	(days to harvest)			
Apples	Apple Aphid	0.025 - 0.075	4.8 - 14.5	2.0 - 5.8	26 - 9	21			
	Apple Maggot	1				<u> </u>			
	Codling Moth	1	Į		E .	}			
	Green Fruitworm					1			
	Lesser Appleworm Mullein Plant Bug (except CA)		1			1			
	Oblique Banded Leafroller		ł						
	Oriental Fruit Moth	ſ	1	ĺ	,	ĺ			
	Periodical Cicada								
	Plant Bugs								
	(Tarnished Plant Bug, Stink Bugs)								
	Plum Curculio								
	Red - Banded Leafroller				j	1			
	Rosy Apple Aphid				1				
	San Jose Scale				]	i			
	(fruit infestations only) Tentiform Leaf Miner	}	J	<b>]</b> _	J	Ì			
	Tufted Apple Bud Moth				i	{			
	Variegated Leafroller					•			
	White Apple Leafhopper					]			
•	Apple Ermine Moth (ID, OR & WA only)			3.0					
	Tufted Apple Bud Moth	0.04 - 0.075	8.0 - 14.5	I	16 - 9	Ì			
	(overwintering)	.]		}					
	(MD, NC, NJ, PA, VA, WV only)		<u> </u>	İ		ł			
	Do not feed or graze livestock on tre Do not apply more than 0.525 lbs. a	ated orchard flox	ors. ason. For dilu	ita enrav annlu 20	10 - 600 gale	!			
	per acre, but do not apply more than								
	Apple Ermine Moth-Apply with 2	to 4 gallons of s	uperior spray	oil in 100 gallon	s of water in a				
	spray-to-wet application to insure th	orough coverage	of all stems a	and branches who	re Apple Ermine				
	Moth hibernacula are found.	do	llad alaata siu	as it is difficult t	a achieur a full				
	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	Make first application in the fall after 90% of leaf fall has occurred—usually after October 15.							
	Make a second application 7 to 14 d	ays later.		-					
	Note: Overwintering larvae do not d	Note: Overwintering larvae do not die until approximately 30 days after application.							
	nrebloom and nost bloom spray timi	Plant Bug, Rosy Apple Aphid ControlTime of application is critical in achieving control. Use prebloom and post bloom spray timings recommended by State Extension Services.							
•	Tufted Apple Bud Moth (overwing	Tufted Apple Bud Moth (overwintering).—For use on apple for the control of overwintering larvae							
	of the tufted apple bud moth with di	rected ground app	plication to th	e apple orchard i	loor. Make one				
	application of ASANA® XL at either	er pink stage of a	pple or at pet	al fall stage of ap	ple.				
	Use the lower rate on small larvae (prate on larger larvae (petal fall stage	onk stage of appl	e) and/or on i	lower population	s. Use the higher				
	Apply specified dosage per acre to t								
	ground to obtain uniform coverage.								
	coverage of areas where overwinter	ng tufted apple b	ud moth are f	ound.					
	Beneficial Insects: Application of A	ASANA® XL to	the groundco	ver at the	C				
	pink stage of apple development ma coccinellid insect and the major pred	y de toxic to over	wintering Sie	inorus punctum. NO NI PA V	a. punctum is a				
	growing areas. This predator overwi	nters in the same	areas of the	orchard grounded	ver as the fufted				
	apple bud moth and moves into appl	e trees from mid-	April through	h mid-May when	maximum daily				
	temperatures exceed 68°F. Emergene	ce from the groun	dcover is 20-	70% complete by	y the pink stage				
	and 90-100% complete by petal fall	on the apple culti	ivar Yorking.		-				

## SPECIFIC USES—FRUITS (cont'd)

	Application Rate Acres					Last
		Concentrate Ib ai	te Spray Il oz	Dilute Spray fl oz	treated per gal of DuPont™	Application (days to
Сгор	Insect	/acre	/acre	/100 gal	ASANA® XL	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 Use of ground application is recomm per acre. Do not apply this product through an Note: ASANA® XL can act as a bee a pre-bloom or post-bloom spray only Black vine weevil & strawberry ro notching beginning in late May to ear adults on or just below the soil surfact three weeks of first sign of infestation gallons of water per acre. Direct spra of plants. Best results are from applic weevils are actively feeding. Root we applications when signs of new feedi	y type of irrigati repellent, do no y. ot weevil (adult rly June as the fi ee around the bas n. Do not apply to y to provide full ations made after eevils emerge ov	on system. t apply within control) (OF rst sign of we te of plants. A oy air; apply b coverage of the rt dark when	n 7 days of polling, WA only): Locevil feeding. Als Apply ASANA® by ground using a foliage and soil a temperatures are	of 50 gals water ation. Apply as ok for leaf o check for XL within two to a minimum of 50 rea around base warm and	
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 Do not apply this product through an NOTE: ASANA® XL can act as a be as a pre-bloom or post-bloom spray of bees, apply ASANA® XL in the ever Adult Root Weevils (OR & WA on as the first sign of weevil feeding. All base of plants. Apply ASANA® XL a minimum of 50 gallons of water per foliage and the soil area around the be dark when temperatures are warm an period of several weeks; make subsect Oblique Banded Leafroller Orange minimum of 50 gallons of water with harvest and no later than 7 days befor	y type of irrigative repellent, do nonly. Remove being after sunset by: Look for least occupant of the plant. It was a constant of the plant. It week to the plant. It was a constant of the plant of the	on system. ot apply with es prior to ap f notching be lts on or just ee weeks of i ay to provide Best results a ively feeding is when signs phids: Apply ent only. App	plication. For ma ginning in late M below the soil su infestation. Apply the thorough covera are from applicati the Root weevils et of new feeding at as a full coverage	ximum safety to lay to early June rface around the y by ground using tige of all plant ons made after merge over a tippear. e spray in a 12 days before	
Kiwifruit	Boxelder Bug (suppression only)  Spray in sufficient water for thorough (total of 0.35 lb ai/acre/season) with a	0.05 a coverage. A ma a minimum of 7	9.6 eximum of 7 days between	applications is all treatments.	13 lowed per season	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. Do not apply more than 0.225 lb. a.i. livestock on treated orchard floors. For more than 14.5 fl. oz. of ASANA® X	per acre between or dilute spray ap	n bloom and i oply 200 - 600			
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 (vacre per season. Do not graze orchard not apply more than 19.2 fl. oz. of AS	floor. For dilute	spray apply	150 - 250 gals pe		

## SPECIFIC USES—FRUITS (cont'd)

	_	Application Rate				Last Application
	Insect	Concentrat		Dilute Spray		
Crop		lb ai /acre	fi oz /acre	fl oz /100 gal	of DuPont™ ASANA® XL	(days to harvest)
Stone Fruits (including apricots, cherries, nectarines, peaches, plums, prune plums)	American Plum Borer Black Cherry Aphid 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
•	Western Cherry Fruit Fly Peach Twig Borer (Dormant)	0.04 - 0.075	8.0 - 14.5	3.1 - 5.8	16-9	<u>.</u>
	(CA only)		8.0 - 14.5	3,1 - 3.0	16-9	
	Tufted Apple Bud Moth (overwintering) (Peach only) (MD, NC, NJ, PA, VA and WV only)  Do not apply more than 0.375 lbs a.i.	0.04 - 0.075				
	per acre per season between bloom a 200 - 400 gals per acre, but do not ap treatment. Do not graze livestock on Peach Tree Borer, American Plum trunk and scaffold limb spray. Thoro Peach Twig Borer (Dormant)Mal recommendations on use of oil consu application equipment is recommend Peach Twig Borer, Plum Curculio, Fruit Fly, Leafrollers, Black Cherr sprayer to achieve thorough coverage Plant Bug Control - Time of application spray timings recommend Tufted Apple Bud Moth (overwint of the tufted apple bud moth with dir application of ASANA® XL at either Use the lower rate on small larvae (phigher rate on larger larvae (shuckspl Apply specified dosage per acre to the ground to obtain uniform coverage. A coverage of areas where overwintering Beneficial Insects: Application of A popcorn stage of peach development is a coccinellid insect and the major pruit growing areas. This predator owtufted apple bud moth and moves indaily temperatures exceed 68°F. Eme shucksplit. Shucksplit is the preferred	nd harvest. For diply more than 14 treated orchard f Borer, Lesser I ugh coverage of the application will manufacturer ed.  Oriental Fruit y Aphid, Periode of all aerial portion is critical in ided by State Extering)—For use of ected ground approporn stage of poporn sta	lilute spray ap 4.5 fl. oz of A loors. Peach Tree B trunk and sca th an EPA reg s label. For b  Moth, Cherr lical Cicada ( tachieving cor ension Service on peach for the elication to the of peach or at the peach or at the peach and/or on m the peach and/or on m the groundcov overwintering the groundcov overwintering the groundcov over intes in the the grame areas of m mid-April t groundcover i	orer Control - Affold limbs is recipistered dormant est performance by Fruit Fly, We Control - Apply ee.  Introl. Use prebloces.  The control of over peach orchard shucksplit stage on lower popula oderate to high particular to drip linguistic at the control of the orer at the steel of the orchard growthe orchard growthe orchard growthrough mid-Majis 90-100% comi	Apply as directed quired. oil; for specific, ground stern Cherry by ground om and rwintering larvae floor. Make one of peach. tions. Use the populations. or per acre by the to allow turn. S. punctum A, VA and WV andcover as the punction of the per acre by the to allow	

11717

#### 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 DuPont<sup>TM</sup> 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.

		A	pplication Ra	ite	Acres	Last
		Concentra	te Spray	Dilute Spray	treated per gal	Application
_		lb ai	floz	fl oz	of DuPont™	(days to
Crop	Insect	/acre	/асте	/100 gal	ASANA® XL	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. por Do not graze livestock on treated orce Peach Twig Borer (Dormant)—Mal recommendations on use of oil consumplication equipment is recommended.	hard floors. ke application w lit manufacturer	rith an EPA re	gistered dormant pest performance	oil; for specific , ground	
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 treatment earlier than three weeks after For dilute spray, apply 200 - 400 gals ASANA® XL per acre per treatment	er the first. Do not be per acre, but de	ot apply more to o not apply mo	than 0.2 lb. a.i. po ore than 19.2 fl. o	er acre per season. oz of	
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 tree. Do not apply more than 0.3 lbs. a.i. pace, but do not apply more than 14 Phylloxera - Correct timing of spray and stem phylloxera. Consult local spray	per acre per seas of fl. oz. of ASAI applications is	on. For dilute NA® XL per a critical in achi	acre per treatment leving optimum	it. control of leaf	
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. por For dilute sprays, apply 200 - 400 ga NOTE: Use of baits in Walnut Husk frextension Service.	ls per acre. Do r	not feed or gra			

### SPECIFIC USES—VEGETABLE CROPS

		Applicati	on Rate		Last Application
Сгор	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	i
	Do not apply more often than each l between bud formation and harvest of 10 gallons per acre by air and 50 water to obtain coverage without ex	4 days. Apply no mo of an individual fruit - 200 gallons per acro	ore than 0.15 lb. a Apply in a mini	ni/acre mum	
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	ı
	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 0.2 lb a.i. por Do not feed or graze livestock on tre Pea Weevil & Pea Leaf Weevil (ID control of pea weevil. For optimum Once adult pea weevil populations rebe reduced.	eated vines.  O, OR & WA) - Time results, apply at bloo	m prior to detecti	ing adult pea weevils.	
Beans, Snap Also known as: (blue lake, bush,	Leafhoppers (except CA) Mexican Bean Beetle Saltmarsh Caterpillar	0.015 - 0.03	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)	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.	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Aids in control.  Do not apply more than 0.2 lb ai per Do not allow livestock to graze treat livestock forage, fodder, or hay.	acre per season. ed bean fields. Do no	ot harvest treated	bean vines for	
Broccoli, (including	Imported Cabbageworm	0.015 - 0.03	2.9 - 5.8	44 - 22	3
chinese broccoli) Cabbage, Cauliflower, Chinese Cabbage (tight headed varieties only)	Alfalfa Looper Beet Armyworm* Cabbage Looper Cutworm Flea Beetle Grasshoppers *Aids in control.	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Do not apply more than 0.4 lbs. a.i. p	per acre per season.			

## SPECIFIC USES—VEGETABLE CROPS (cont'd)

		Applica	tion Rate	Acres treated per	Last Application
Crop	Insect	lb ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL	(days to harvest)
Carrots	Aster Leafhopper Cutworms Leafhoppers	0.03 - 0.05	5.8 - 9.6	22 - 13	7
	Carrot Weevil	0.05	9.6	13	]
	Do not apply more than 0.5 lb ai/acr For aerial application apply in a mir Thorough spray coverage of crown recommended. Carrot Weevil - Begin treatment w	nimum of 5 gals wat area is essential. Us	e of ground applic	ation is	
Collards	Alfalfa Looper Beet Armyworm* Cabbage Looper Cutworm Flea Beetle Grasshopper Imported Cabbageworm  *Aids in control. Do not feed livestock on treated plate of 5 gals water per acre.	0.03 - 0.05  nt parts. Do not applaerial application a	5.8 - 9.6  by more than pply in a minimun	22 - 13	7
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 acre per season.		<del></del>	1
Eggplant	Colorado Potato Beetle Corn Earworm European Corn Borer Flea Beetles Loopers	0.03 - 0.05	5.8 - 9.6	22 - 13	7
	Apply when insects are observed or to 10 day intervals to achieve control	when insect damage  I. Do not apply mor	is observed. Report than 0.35 lbs. a.i	eat applications at 7 . per acre per season.	
Kohlrabi (TX only)	Cabbage Looper	0.03 - 0.05	5.8 - 9.6	22 - 13	3
	Do not apply more than 0.4 lbs. a.i. p	er acre per season.			
Lentils	See "Beans, Dry"				
Lettuce, Head AZ, CA, CO, FL, NM & TX ONLY	Alfalfa Looper Beet Armyworm* Cabbage Looper Heliothis spp. *Aids in control.	0.025 - 0.05	4.8 - 9.6	26 - 13	7
Mustand C	Do not apply more than 0.35 lbs. a.i.	,		12	7
Mustard Greens	Cabbage Looper Imported Cabbageworm  Do not apply more than 0.2 lbs/a.i. p	0.05	9.6	13	7
	season.	er acre ber		•	
Peas, Dry	See "Beans, Dry"				

## SPECIFIC USES—VEGETABLE CROPS (cont'd)

		Applicat	ion Rate	Acres treated per	Last Application (days to harvest)
Crop	Insect	lb ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL	
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/ac Do not feed treated pea vines to live Pea Weevil & Pea Leaf Weevil (II achieving control of pea weevil. Fo pea weevils. Once adult pea weevil control may be reduced.	estock. D, OR & WA only) or optimum results, a	pply at bloom price	or to detecting adult	
Pepper	Beet Armyworm* Colorado Potato Beetle Corn Earworm Cucumber Beetle (adults) European Corn Borer Flea Beetles Loopers Pepper Weevil* Southern Armyworm *Aids in control. Apply when insects are observed or				7
Potato	10 day intervals to achieve control.  Leafhoppers (except CA) Potato Psyllid Potato Tuberworm	0.015 - 0.03	2.9 - 5.8	44 - 22	7
	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	9.6	22 - 13	
	(Long Island, NY only)  *Aids in control. Do not apply more than 0.35 lb. a.i.;		<b>5.0</b>		
Radishes	Armyworms Beetles	0.03 - 0.05	5.8 - 9.6	22 - 13	7
	Do not apply more than 0.1 lb. ai/ac	re per season.			

## SPECIFIC USES—VEGETABLE CROPS (cont'd)

	ļ -	Applicat	tion Rate	Acres treated per	Last Application (days to harvest)	
Сгор	Insect	lb ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL		
Sweet Corn†	Western Bean Cutworm	0.015 - 0.03	2.9 - 5.8	44 - 22	1	
	For additional information consult	directions for use unc				
	Armyworm Banded Cucumber Beetle Beet Armyworm* Chinch Bugs Corn Earworm Corn Leaf Aphid Corn Rootworms (adults) Cutworms European Corn Borer Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Beetles (adults) Southwestern Corn Borer Stalk Borer	0.03 - 0.05	5.8 - 9.6	22 - 13		
	Tarnished Plant Bug				1	
	Corn Silkfly (except CA)**  *Aids in control.	0.05	9.6	13	<b>]</b>	
	For additional information consult directions for use under field corn.  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.					
Tomato	† Do not apply more than 0.5 ib a	0.015 - 0.03	2.9 - 5.8	44 - 22	1	
Joinato	Tomato Hornworm	0.015 - 0.05	2.5 5.0		†	
	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		
	Vegetable Leafminer**	0.05	9.6	13		
	*Aids in control.  **ASANA® XL is not recommend Do not apply more than 0.5 lbs. a.i.	ded for use on the Veg per acre per season.	getable Leafminer	in Florida.		
		0.03 - 0.05	5.8 - 9.6	22 - 13	7	

	-	]	Application Rate	
		High Volu	Low Volume Sprays	
Стор	Insect	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) 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 Northern Pine Weevil Pales Weevil	0.03 - 0.05	5.8 - 9.6	
	Dilute formulation in kerosene (rathe to control developing larvae. Use suf stump thoroughly.			
			Application Rate	
	Coneworm Seed Chalcid Seedbug	9.6 fl oz/100 gals v 52 fl oz/100 gals v 0.19 lb. ai/acre app water for aerial ap	water for high volum vater for low volum plication in not less plications.	than 10 gals of
-	Apply first application within 1 week Webbing Coneworm control. For oth within 30 days following female flow but do not apply more than 1.6 lbs. at For Seed Chalcid control, apply where for 2 or more sprays.  Apply approximately 5 - 10 gals of the sprayers. With low volume sprayers to not graze or harvest cover crop. Rapplying to areas adjacent to water.	er Coneworms and ver closure. Repeat a per acre per year. In all cones are pendente 9.6 fl oz/100 gal apply 100 gals of the	Seedbugs, apply fir application at intervant, and repeat at 1 dilution per tree wife 52 fl oz/100 gal d	st application vals of 4 weeks - 2 week intervals th high volume ilution per acre.

Crop	Insect	Application Rate		Acres treated per
		lb ai/acre	fl oz/acre	gal of DuPont <sup>TM</sup> 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.

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.

PRODUCT 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 DISPOSAL: Triple rinse (or equivalent), then offer for recycling or reconditioning if container reuse is permitted. If container reuse is prohibited, puncture metal containers and dispose of in a sanitary landfill, or by other approved State and local procedures. Dispose of plastic containers in a sanitary landfill, or by incineration if allowed by State and local authorities. If burned, stay out of smoke.

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It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off target movement, unconventional farming techniques, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of DuPont. These risks can cause: ineffectiveness of the product; crop injury, or; injury to non-target crops or plants.

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DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

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Sumitomo Chemical Company, Ltd., holds a U.S. Patent for the active ingredient. Sales by E. I. Du Pont de Nemours & Co. (Inc.) of products containing the active ingredient are made under agreements with Sumitomo Chemical Company, Ltd.

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