352-515 ACCEPTED

4/2002

APR 4 2002

#### RESTRICTED USE PESTICIDE

Uzder the Federal Insecticide. Fungicide. and Bodganicitie. as unended, for Phrendingle to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered registered underly the Certified Applicator's certification. LPA Reg. No. 357-515 PRECAUTIONARY STATEMENTS

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

## insecticide

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

By Weight

#### **Active Ingredient** Esfenvalerate

(S)-cyano (3-phenoxyphenyl) methyl

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

benzeneacetate	8.4%
Inert Ingredients*	91.6%
TOTAL	100 %

#### TOTAL

\* 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.
- Have a person sip a glass of water if able to swallow.
- 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**

- 22

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-tomouth 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.

#### **PRECAUTIONARY STATEMENTS** FIRST AID (cont'd)

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.

#### 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 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.

#### **GENERAL INFORMATION**

DuPont<sup>™</sup> 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.

#### RESISTANCE

م. المراجعة

> 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.

#### 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.

#### TANK MIXING

Do not tank mix ASANA® XL with fungicides containing fentin hydroxide (triphenyltin hydroxide) such as "Super Tin" as crop injury may result.

ASANA® XL may be tank mixed with the DuPont herbicide products listed below when insect populations require control concurrent with the need for weed control. Follow all herbicide and ASANA® XL label directions regarding proper usage. A "jar test" for physical compatibility should be conducted before field mixtures are made and applications initiated. For best results, use of spray equipment having continuous agitation is recommended.

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 jar test for physical compatibility should be conducted before field mixtures of a particular combination are made.

> DuPont<sup>™</sup> BLADEX®4L herbicide DuPont<sup>™</sup> CLASSIC® herbicide DuPont<sup>™</sup> VELPAR® herbicide DuPont<sup>™</sup> VELPAR® L herbicide

#### 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>™</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 IMMEDI-ATELY 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.

-----

## SPECIFIC USES—COTTON

.

		Applicat	tion Rate	Acres treated per	Last Application
Crop	Insect	lb ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL	(days to harvest)
Cotton	Cotton Bollworm Tobacco Budworm Boll Weevil Beet Armyworm* Cabbage Looper Saltmarsh Caterpillar Cotton Leafworm Cutworms Lygus Bugs Plant Bugs Thrips (on seedling cotton) Leafhoppers Fleahoppers Fleahoppers Grasshoppers Whitefly** Cotton Aphid** Pink Bollworm	0.03 - 0.05	5.8 - 9.6	22 - 13	21
	NOTE: For light infestations of the above insects	0.02	3.9	33	
	Cotton Leaf Perforator	0.03	5.8	22	
	<ul> <li>To control Boll Weevil infestations, a 3 to 5 day interval between applications may be necessary.</li> <li>May be applied in water or nonvolatile vegetable oils.</li> <li>When applying ASANA® XL in an oil carrier, apply a total spray volume of at least 1 qt per acre. When applying ASANA® XL in a water carrier, apply a total spray volume of at least 1 qt per acre. When applying ASANA® XL in a water carrier, apply at least 1 gal per acre by air (at least 3 gal per acre in Arizona and 5 gal per acre in California) or 4 gal per acre by ground.</li> <li>Do not apply more than 0.5 lb ai per acre per season.</li> <li>Do not graze livestock on treated fields or feed treated trash.</li> <li>ASANA® XL can provide contact ovicidal effect on Heliothis spp. eggs when applied according to label directions for control of tobacco budworm; application should be timed to correspond with peak egg deposition to achieve maximum ovicidal effect. Use on this pest stage (egg) is not registered in California.</li> <li>Do not make more than a total of 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season. Synthetic pyrethroid products include "Ambush" insecticide, "Capture" insecticide/miticide,</li> </ul>				
	"Danitol 2.4 EC" Spray insecticide/n "Karate" insecticide, "Mustang" inse "Scout Xtra" insecticide.	niticide, "Decis" in	secticide, "Fury" in	isecticide,	

Hilling and the second se

.

. ......

## **SPECIFIC USES - FIELD CROPS**

÷.

		Applica	tion Rate	Acres treated per	Last Applicati			
Сгор	Insect	lb ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL	(days to harvest)			
Corn (field)†	Cutworm	0.03 - 0.05	5.8 - 9.6	22-13	21			
	Grasshopper							
	Corn Earworm							
	Stalk Borer Flea Beetle							
	Corn Rootworm (adult control)							
	Chinch Bug							
	Southwestern Corn Borer							
	Armyworm (True Armyworm) Corn Leaf Aphid							
	Oat Bird-Cherry Aphid				1			
	Cutworm, Grasshopper - Applicat				1			
	during, or after planting as required							
	Physical compatibility with herbicid prior to tank mixing ASANA® XL v	es and/or fertilizers	Should be determined Follow all herbicid	ned				
	fertilizer recommendations and direct							
	Corn Earworm - First application s	hould be at or befo	re silking. Subsequ	ent applications				
	should be made at 3 - 5 day intervals		npleted. Repeat app	olications may be				
	applied if economically damaging pe	•						
	Stalk Borer, Flea Beetle - Applicati							
	Adult Corn Rootworm - Apply at t			ion may occur.	-			
	Should reinfestation occur, apply as	-		· · · ·				
	ASANA® XL may be tank-mixed w on field corn (and seed corn) where							
	desired in conjunction with insects c							
	Refer to the ASANA® XL and Para individual products for controlling th							
	Chinch Bug - Over the top sprays, a							
	are not adequate for chinch bug cont							
	base of the plant through the use of c necessary to control migrating chinc							
		Southwestern Corn Borer - Two or more applications may be required.						
	For moderate to heavy infestations, higher rates (0.036-0.05 lb ai per acre) are recommended.							
		Corn Leaf Aphid, Oat Bird-Cherry Aphid - For optimum results, direct the spray at the						
	aphid population so as to achieve ma contacted by the spray, such as in wh							
	European Corn Borer	0.04 - 0.05	7.8 - 9.6	16 - 13				
	First brood: Spray while eggs are in			1	1			
	Application by ground equipment is	suggested. Good c	overage of both upp	er and lower leaf				
	<ul> <li>surfaces is essential. This can be acc side of the corn plant. Multiple appli</li> </ul>							
	where moderate to heavy populations							
	to heavy populations. Proper coverage	ge by ground equip	ment usually requir	res 20 - 30 gallons	1			
	of carrier. Once larvae enter the who	rl, foliar sprays wil	l not provide adequ	nate control.				
	Second brood: Make applications w in the blackhead stage or starting to h	hen sufficient egg i	nasses are found. S	pray when eggs are				
	is present, additional sprays may be							
	heavy populations. Good coverage a	bove, below, and in	the ear zone is ess	ential. This usually				
	requires 2 - 3 gallons of carrier by ai		ient is used, drop n	ozzles on each side				
	of the plant will provide best coverage	-	and on the structure	applied				
	<ul> <li>ASANA® XL may be tank-mixed w.</li> <li>on field corn (and seed corn) where s</li> </ul>							
	desired in conjunction with insects of	ontrolled by ASAN	A® XL when used	alone.				
	Refer to the ASANA® XL and Parat	hion (methyl or eth	yl) labels for appro					
	individual products for controlling th			1				
	Western Bean Cutworm	0.015 - 0.03	2.9 - 5.8	44 - 22				
	Apply before larvae enter the ear. †Do not apply more than 0.25 lb ai		() IS					
	100 not apply more than 0.25 lb a	per acre per seas		-				

		Applicat	ion Rate	Acres treated per gal of DuPont <sup>™</sup>	Last Application (days to		
Crop	Insect	lb ai/acre	fl oz/acre	ASANA® XL	harvest)		
Corn (seed)	For specific insect control recommendations refer to Field Corn (above). Follow directions carefully.						
	Multiple applications and/or shortene insect control. Do not apply more that	an 0.25 lb a.i. per ac	re per season.	sed to insure proper			
Corn (pop)	For specific insect control recomment Follow directions carefully.				1		
	Multiple applications and/or shortene insect control. Do not apply more that	an 0.5 lb a.i. per acro	sprays must be us e per season.	sed to insure proper			
Peanuts	Corn Earworm	0.015 - 0.03	2.9 - 5.8	44 - 22	21		
	Red-necked Peanut Worm Potato Leafhopper						
	Velvetbean Caterpillar						
	Beet Armyworm* Granulate Cutworm	0.03 - 0.05	5.8 - 9.6	22 - 13			
	Grasshoppers						
	Cutworms						
	Lesser Cornstalk Borer* Fall Armyworm**	0.05	9.6	13			
	Do not feed or graze livestock on tre	ated vines.	<u> </u>	J			
	Do not apply more than 0.15 lb a.i. p						
	*Aids in control.						
	**Aids in control. For heavy infestat recommended. Please refer to the LA			nsecticide is			
Sorghum (Grain)	Sorghum Midge	0.015 - 0.03	2.9 - 5.8	44 - 22	21		
West of Mississippi River and East of	Corn Earworm (headworm) Cutworms	0.03 - 0.05	5.8 - 9.6	22 - 13			
Rocky Mountains and in the state	Chinch Bugs	Do not apply more than 0.15 lb a.i. per acre per season.					
of MS	When applying in nonvolatile vegeta Chinch Bug Control: For optimum i	ble oils use a total sp	bray volume of 1 of be directed at bas	or more qts per acre. e of plants.			
Soybean	Mexican Bean Beetle	0.015 - 0.03	2.9 - 5.8	44 - 22	21		
	Green Cloverworm Velvetbean Caterpillar						
	Potato Leafhopper						
1	Saltmarsh Caterpillar Woolybear Caterpillar						
	Cabbage Looper	0.03 - 0.05	5.8 - 9.6	22 - 13			
	Corn Earworm		1				
	Southern Green Stinkbug Bean Leaf Beetle		]				
	Cutworms						
-	Three-cornered Alfalfa Hopper Beet Armyworm*				5		
	Grasshoppers						
		Japanese Beetle (adult)					
	When applying in nonvolatile vegetable oils, use a total spray volume of at least 1 qt. Do not feed or graze livestock on treated fields.						
	Do not apply more than 0.2 lb ai per						
Sugar Beets	*Aids in control. Grasshoppers	0.03 - 0.05	5.8 - 9.6	22 - 13	21		
ougai Decis	Beet Armyworm*	0.00 - 0.00		22 - 13	21		
	Leafhoppers Cutworms (seedling spray)						
	Saltmarsh Caterpillar						
	Cabbage Looper						
	Beet Webworm Flea Beetle (except CA)						
	Do not apply more than 0.15 lb ai/ac	re per season.					
	Apply with ground or air equipment (minimum of 2 gal of water per acre)		er to provide unif	orm coverage			
	*Aids in control.						
Sugarcane	Sugarcane Borer	0.03 - 0.05	5.8 - 9.6	22 - 13	21		
-	Do not apply more than 0.2 lb ai/acre		•				

2. .

		Applicati	on Rate	Acres treated per gal of DuPont™ ASANA® XL	Last Application
Сгор	Insect	lb ai/acre	fl oz/acre		(days to harvest)
Sunflower	Sunflower Beetle (except CA)	0.0075 - 0.03	1.45 - 5.8	88 - 22	28
	Grasshoppers Cutworms Heliothis (complex) Sunflower Moth Sunflower Seed Weevil Banded Sunflower Moth Beet Armyworm* Sunflower Maggot Leafhoppers Sunflower Stem Weevil Do not apply more than 0.2 lb. ai/ac *Aids in control.	0.03 - 0.05	5.8 - 9.6	22 - 13	

### SPECIFIC USES - FRUITS AND NUTS

**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  $DuPont^{TM}$  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. WHEN APPLYING ASANA® XL BY AIR, CONSULT YOUR COOPERATIVE EXTENSION SERVICE FOR APPLICATION GUIDELINES.

		Application Rate					Last					
			Concentrate Spray Dilute Spray			Application						
-		lb ai	floz	floz	of DuPont <sup>TM</sup>	(days to						
Сгор	Insect	/acre	/асте	/100 gal	ASANA® XL	harvest)						
APPLES	Oblique Banded Leafroller	0.025 - 0.075	4.8 - 14.5	2.0 - 5.8	26 - 9	21						
	Codling Moth											
	Variegated Leafroller											
	White Apple Leafhopper											
	Tentiform Leaf Miner				i i							
	San Jose Scale		ł									
	(fruit infestations only)											
	Apple Aphid											
	Tufted Apple Bud Moth											
	Plum Curculio		1									
	Oriental Fruit Moth Apple Maggot											
	Red - Banded Leafroller		]									
	Lesser Appleworm											
	Green Fruitworm	1										
	Rosy Apple Aphid		1									
	Plant Bugs		ţ		-							
	(Tarnished Plant Bug, Stink		}									
	Bugs)		}	-								
	Periodical Cicada			I								
	Apple Ermine Moth			3.0								
	(ID, OR & WA only)											
	Tufted Apple Bud Moth	0.04 - 0.075	8.0 - 14.5		16 - 9							
	(overwintering)											
	(MD, NC, NJ, PA, VA, WV only)											
	Do not feed or graze livestock on tre											
		Do not apply more than 0.525 lbs. a.i. per acre per season. For dilute spray apply 200 - 600 gals per acre, but do not apply more than 14.5 fl. oz. of ASANA® XL per acre per treatment.										
	Plant Bug, Rosy Apple Aping Com	Plant Bug, Rosy Apple Aphid ControlTime of application is critical in achieving control. Use										
	Apple Ermine Moth. Apply with 2 t	prebloom and post bloom spray timings recommended by State Extension Services. Apple Ermine Moth-Apply with 2 to 4 gallons of superior spray oil in 100 gallons of water in a										
	spray-to-wet application to insure th	<u>Apple Ermine Moin-Apply with 2 to 4 gatons of superior spray on in 100 gatons of water in a</u> spray-to-wet application to insure thorough coverage of all stems and branches where Apple Ermine										
		Spray-to-wet application to insure thorough coverage of an stems and orallenes where Apple Ertifice										
		When using on apple nursery stock, do not treat bundled plants since it is difficult to achieve a full										
	coverage application which could re	coverage application which could result in less than complete control.										
	Make first application in the fall afte											
	Make a second application 7 to 14 d											
	Note: Overwintering larvae do not d											
	Tufted Apple Bud Moth (overwinter											
		of the tufted apple bud moth with directed ground application to the apple orchard floor. Make one application of ASANA® XL at either pink stage of apple or at petal fall stage of apple.										
	Use the lower rate on small larvae (1											
	rate on larger larvae (petal fall stage											
	Apply specified dosage per acre to the	he orchard floor i	n no less than	1 30 gals of wate	r per acre by							
	ground to obtain uniform coverage.	Apply treatment i	n a band from	n trunk to drip li	ne to allow							
	coverage of areas where overwinteri	ng tufted apple b	ud moth are f	ound. PRECAU	TIONARY							
		on of ASANA	A® XL to the gro	oundcover at the								
	STATEMENTBENEFICIAL INSI	STATEMENTBENEFICIAL INSECTS: Application of ASANA® XL to the groundcover at the pink stage of apple development may be toxic to overwintering <i>Stethorus punctum</i> . S. punctum is a										
	STATEMENTBENEFICIAL INSI pink stage of apple development ma	y be toxic to over	wintering Ste	rthorus punctum.	pink stage of apple development may be toxic to overwintering <i>Stethorus punctum</i> . S. punctum is a coccinellid insect and the major predator of spider mites in the MD, NC, NJ, PA, VA and WV fruit							
	pink stage of apple development ma coccinellid insect and the major pred	y be toxic to over lator of spider mi	wintering Ste tes in the MD	), NC, NJ, PA, V	'A and WV fruit							
	pink stage of apple development ma coccinellid insect and the major prec growing areas. This predator overwi	y be toxic to over lator of spider mi nters in the same	wintering Ste tes in the MD areas of the c	), NC, NJ, PA, V prehard grounded	'A and WV fruit over as the tufted							
	pink stage of apple development ma coccinellid insect and the major prec growing areas. This predator overwi apple bud moth and moves into appl	y be toxic to over lator of spider mi nters in the same e trees from mid-	wintering Ste tes in the MD areas of the c April through	), NC, NJ, PA, V orchard grounded h mid-May when	A and WV fruit over as the tufted maximum daily							
	pink stage of apple development ma coccinellid insect and the major prec growing areas. This predator overwi	y be toxic to over lator of spider mi nters in the same e trees from mid- ce from the groun	wintering Ste tes in the MD areas of the c April through dcover is 20-	), NC, NJ, PA, V orchard grounded h mid-May when	A and WV fruit over as the tufted maximum daily							

		Application Rate Concentrate Spray Dilute Spray			Acres	Last Application	
C	Incast	lb ai	floz	fl oz	treated per gal of DuPont™ ASANA® XL	Application (days to harvest)	
Crop BLUEBERRY 'except CA)	Insect Aphids (NJ only) Blueberry Spanworm Cherry Fruitworm* Cranberry Fruitworm Cranberry Weevil* Grasshoppers Leafhoppers Red Striped Fireworm*	/acre 0.025 - 0.05	<b>/acre</b> 4.8 - 9.6	/100 gal	26 - 13	14	
	Blueberry Maggot	0.05	9.6		13		
	Black Vine Weevil (adult control) Strawberry Root Weevil (adult control) (OR, WA only)	0.05	9.6		13		
	Do not apply this product through an Note: ASANA® XL can act as a bee a pre-bloom or post-bloom spray only *Aids in control. Black vine weevil & strawberry ro- notching beginning in late May to ea adults on or just below the soil surfac 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	repellent, do no y. ot weevil (adult rly June as the fi- ce around the ba n. Do not apply y to provide full y to provide full cations made afte cevils emerge ov	t apply within control) (O irst sign of we se of plants by air; apply i coverage of er dark when	<b>R. WA only):</b> Lo eevil feeding. Als Apply ASANA® by ground using foliage and soil a temperatures are	ok for leaf to check for XL within two to a minimum of 50 rea around base warm and		
ANEBERRIES (blackberries, raspberries,	Oblique Banded Leafroller Orange Tortrix Aphids	0.025 - 0.05	4.8 - 9.6		26 - 13	7	
boysenberries,	Adult Root Weevils*	0.05	9.6		13		
dewberries, loganberries, youngberries, and varieties of these) (OR & WA only)	dewberries, loganberries, youngberries, and varieties of these)       *Aids in control.         Do not apply by air.       Do not apply more than 0.15 lb ai per acre per season.         Do not apply this product through any type of irrigation system.       Do not apply this product through any type of irrigation system.         Oblique Banded Leafroller Orange Tortrix and Aphids:       Apply as a full coverage spray in a minimum of 50 gallons of water with ground equipment only. Apply no earlier than 12 days before						
PEAR	Pear Psylla Codling Moth Green Fruitworm Plum Curculio Leafrollers Pear Slug Periodical Cicada Do not apply more than 0.375 lbs. a.i	0.025 - 0.075	4.8 - 14.5 ason.	2.0 - 5.8	26 - 9	28	
	Do not apply more than 0.225 lb. a.i. livestock on treated orchard floors. F more than 14.5 fl. oz. of ASANA® X	per acre betwee or dilute spray a L per acre per t	<b>n bloom</b> and pply 200 - 60	harvest. Do not fo 0 gals per acre, b	eed or graze ut do not 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 (v acre per season. Do not graze orchard not apply more than 19.2 fl. oz. of A	l floor. Fo <b>r di</b> lut	e spray apply	- 150 - 250 gals p	0.2 lb a.i. per er acre, but do		

lb ai fl oz fl oz	reated per gal of DuPont™ ASANA® XL 26 - 9	Application (days to harvest) 14						
CropInsect/acre/acre/100 gal/4STONEPeach Twig Borer0.025 - 0.0754.8 - 14.52.0 - 5.8FRUITSOriental Fruit Moth0.025 - 0.0754.8 - 14.52.0 - 5.8includingPeach Tree Borer0.025 - 0.0754.8 - 14.52.0 - 5.8apricots,Plum Curculio1.000000000000000000000000000000000000	ASANA® XL 26 - 9	harvest)						
STONE       Peach Twig Borer       0.025 - 0.075       4.8 - 14.5       2.0 - 5.8         STONE       Oriental Fruit Moth       0.025 - 0.075       4.8 - 14.5       2.0 - 5.8         Strong       Oriental Fruit Moth       0.025 - 0.075       4.8 - 14.5       2.0 - 5.8         (including apricots, cherry       Plum Curculio       1.6 - 5.8       1.6 - 5.8       1.6 - 5.8         cherries, nectarines, periodical Cicada       Cherry Fruit Fly       1.6 - 5.8       1.6 - 5.8       1.6 - 5.8         plums, prune plums, prune plums)       Periodical Cicada       1.6 - 5.8       1.6 - 5.8       1.6 - 5.8         plums, prune plums)       Black Cherry Fruit Fly       1.6 - 5.8       1.6 - 5.8       1.6 - 5.8         Black Cherry Aphid       Leafrollers       Leafhoppers       1.6 - 5.8       1.6 - 5.8         Green Fruitworm       Plant Bugs       1.7 - 5.8       1.1 - 5.8       1.1 - 5.8         Peach Twig Borer (Dormant)       0.04 - 0.075       8 - 14.5       3.1 - 5.8       1.1 - 5.8         (CA only)       Tufted Apple Bud Moth       0.04 - 0.075       8.0 - 14.5       1.1 - 5.8         (Peach only)       (MD, NC, NJ, PA, VA and WV       1.1 - 5.8       1.1 - 5.8       1.1 - 5.8	26 - 9							
FRUITS       Oriental Fruit Moth         (including       Peach Tree Borer         apricots,       Plum Curculio         cherries,       Lesser Peach Tree Borer         nectarines,       Periodical Cicada         peaches,       Cherry Fruit Fly         plums, prune       Western Cherry Fruit Fly         plums)       American Plum Borer         Black Cherry Aphid       Leafnollers         Leafhoppers       Green Fruitworm         Plant Bugs       (Tarnished Plant Bug, Stink         Bugs)       Peach Twig Borer (Dormant)       0.04 - 0.075       8 - 14.5         Oriertal Apple Bud Moth       0.04 - 0.075       8.0 - 14.5         (MD, NC, NJ, PA, VA and WV       0.04 - 0.075       8.0 - 14.5								
apricots, cherries, nectarines, peaches, plums, prune plums) Plums (Cherry Fruit Fly American Plum Borer Black Cherry Aphid Leafrollers Leafhoppers Green Fruitworm Plant Bugs (Tarnished Plant Bug, Stink Bugs) Peach Twig Borer (Dormant) (CA only) Tufted Apple Bud Moth (overwintering) (Peach only) (MD, NC, NJ, PA, VA and WV								
cherries, nectarines, peaches, plums, prune plums) Herrican Plum Borer Black Cherry Fruit Fly American Plum Borer Black Cherry Aphid Leafnoppers Green Fruitworm Plant Bugs (Tarnished Plant Bug, Stink Bugs) Peach Twig Borer (Dormant) (CA only) Tufted Apple Bud Moth (overwintering) (Peach only) (MD, NC, NJ, PA, VA and WV								
nectarines, peaches, plums, prune plums) Periodical Cicada Cherry Fruit Fly American Plum Borer Black Cherry Aphid Leafrollers Leafnoppers Green Fruitworm Plant Bugs (Tarnished Plant Bug, Stink Bugs) Peach Twig Borer (Dormant) (CA only) Tufted Apple Bud Moth (overwintering) (Peach only) (MD, NC, NJ, PA, VA and WV								
peaches, plums, prune plums)Cherry Fruit Fly Western Cherry Fruit Fly American Phum Borer Black Cherry Aphid Leafrollers Leafhoppers Green Fruitworm Plant Bugs (Tarnished Plant Bug, Stink Bugs)Image: Cherry Aphid Plant Bugs BugsPeach Twig Borer (Dormant) (CA only)0.04 - 0.0758 - 14.5Tufted Apple Bud Moth (overwintering) (Peach only) (MD, NC, NJ, PA, VA and WV0.04 - 0.0758.0 - 14.5								
plums, prune plums)       Western Cherry Fruit Fly American Plum Borer Black Cherry Aphid Leafrollers Leafhoppers Green Fruitworm Plant Bugs (Tarnished Plant Bug, Stink Bugs)       Image: Comparison of the state of the								
plums)       American Plum Borer         Black Cherry Aphid       Leafrollers         Leafrollers       Leafhoppers         Green Fruitworm       Plant Bugs         (Tarnished Plant Bug, Stink       Bugs)         Peach Twig Borer (Dormant)       0.04 - 0.075       8 - 14.5         (CA only)       Tufted Apple Bud Moth       0.04 - 0.075       8.0 - 14.5         (overwintering)       (Peach only)       0.04 - 0.075       8.0 - 14.5								
Black Cherry Aphid Leafrollers       Black Cherry Aphid Leafrollers         Leafhoppers       Green Fruitworm         Plant Bugs       (Tarnished Plant Bug, Stink         Bugs)       Peach Twig Borer (Dormant)         (CA only)       0.04 - 0.075       8 - 14.5         Tufted Apple Bud Moth (overwintering)       0.04 - 0.075       8.0 - 14.5         (MD, NC, NJ, PA, VA and WV       0.04 - 0.075       8.0 - 14.5								
Leafrollers       Leafhoppers         Green Fruitworm       Plant Bugs         Plant Bugs       (Tarnished Plant Bug, Stink         Bugs)       0.04 - 0.075         Peach Twig Borer (Dormant)       0.04 - 0.075         (CA only)       0.04 - 0.075         Tufted Apple Bud Moth       0.04 - 0.075         (overwintering)       0.04 - 0.075         (Peach only)       0.04 - 0.075         (MD, NC, NJ, PA, VA and WV       0.04 - 0.075		-						
Green Fruitworm Plant Bugs (Tarnished Plant Bug, Stink Bugs)0.04 - 0.0758 - 14.5Peach Twig Borer (Dormant) (CA only)0.04 - 0.0758 - 14.5Tufted Apple Bud Moth (overwintering) (Peach only) (MD, NC, NJ, PA, VA and WV0.04 - 0.0758.0 - 14.5								
Plant Bugs (Tarnished Plant Bug, Stink Bugs)0.04 - 0.0758 - 14.5Peach Twig Borer (Dormant) (CA only)0.04 - 0.0758 - 14.5Tufted Apple Bud Moth (overwintering) (Peach only) (MD, NC, NJ, PA, VA and WV0.04 - 0.0758.0 - 14.5	·							
(Tarnished Plant Bug, Stink Bugs)0.04 - 0.0758 - 14.5Peach Twig Borer (Dormant) (CA only)0.04 - 0.0758 - 14.5Tufted Apple Bud Moth (overwintering) (Peach only) (MD, NC, NJ, PA, VA and WV0.04 - 0.0758.0 - 14.5		-						
Bugs)         0.04 - 0.075         8 - 14.5         3.1 - 5.8           (CA only)         0.04 - 0.075         8 - 14.5         3.1 - 5.8           Tufted Apple Bud Moth (overwintering) (Peach only)         0.04 - 0.075         8.0 - 14.5           (MD, NC, NJ, PA, VA and WV         0.04 - 0.075         8.0 - 14.5		-						
Peach Twig Borer (Dormant) (CA only)         0.04 - 0.075         8 - 14.5         3.1 - 5.8           Tufted Apple Bud Moth (overwintering) (Peach only) (MD, NC, NJ, PA, VA and WV         0.04 - 0.075         8.0 - 14.5         14.5								
(CA only)Tufted Apple Bud Moth (overwintering) (Peach only) (MD, NC, NJ, PA, VA and WV0.04 - 0.075 0.04 - 0.0758.0 - 14.5 8.0 - 14.5	16 - 9							
Tufted Apple Bud Moth (overwintering) (Peach only) (MD, NC, NJ, PA, VA and WV0.04 - 0.0758.0 - 14.5	10-2							
(overwintering) (Peach only) (MD, NC, NJ, PA, VA and WV	16 - 9							
(Peach only) (MD, NC, NJ, PA, VA and WV	/							
i i i i								
Do not apply more than 0.375 lbs a.i. per acre per season with no more than 0.3 lbs. a	a.i.							
per acre per season between bloom and harvest. For dilute spray apply								
reatment. Do not graze livestock on treated orchard floors.	200 - 400 gals per acre, but do not apply more than 14.5 fl. oz of ASANA® XL per acre per							
	Peach Tree Borer, American Plum Borer, Lesser Peach Tree Borer Control - Apply as directed trunk							
and scaffold limb spray. Thorough coverage of trunk and scaffold limbs is required.	and the traine							
Peach Twig Borer, Plum Curculio, Oriental Fruit Moth, Cherry Fruit Fly, Western Ch	Peach Twig Borer, Plum Curculio, Oriental Fruit Moth, Cherry Fruit Fly, Western Cherry Fruit Fly,							
Leafrollers. Black Cherry Aphid. Periodical Cicada Control Apply by ground spray	yer to achieve							
thorough coverage of all aerial portions of the tree.	1							
<u>Plant Bug Control</u> - Time of application is critical in achieving control. Use prebloom spray timings recommended by State Extension Services.	and postbloom							
Peach Twig Borer (Dormant)Make application with an EPA registered dormant oil;	· for specific							
recommendations on use of oil consult manufacturer's label. For best performance, g								
application equipment is recommended.	0							
Tufted Apple Bud Moth (overwintering) For use on peach for the control of overwin								
of the tufted apple bud moth with directed ground application to the peach orchard flo								
application of ASANA® XL at either popcorn stage of peach or at shucksplit stage of								
	Use the lower rate on small larvae (popcorn stage of peach) and/or on lower populations. Use the higher rate on larger larvae (shucksplit stage of peach) and/or on moderate to high populations.							
Apply specified dosage per acre to the orchard floor in no less than 30 gals of water p								
	ground to obtain uniform coverage. Apply treatment in a band from trunk to drip line to allow							
coverage of areas where overwintering tufted apple bud moth are found. PRECAUTI-	coverage of areas where overwintering tufted apple bud moth are found. PRECAUTIONARY							
	STATEMENT-BENEFICIAL INSECTS: Application of ASANA® XL to the groundcover at the							
popcorn stage of peach development may be toxic to overwintering <i>Stethorus punctua</i> is a coccinellid insect and the major predator of spider mites in the MD, NC, NJ, PA,								
fruit growing areas. This predator overwinters in the same areas of the orchard ground		1						
tufted apple bud moth and moves into peach trees from mid-April through mid-May		1						
daily temperatures exceed 68"F. Emergence from the groundcover is 90-100% compl								
shucksplit. Shucksplit is the preferred liming to minimize predator toxicity.								
Navel Orangeworm         0.05 - 0.1         9.6 - 19.2         7.3 - 12.8	13.2 - 6.6	21						
Peach Twig Borer								
Peach Twig Borer (Dormant)								
(CA only)								
Do not apply more than 0.2 lb. a.i. per acre per season.								
Do not graze livestock on treated orchard floors.	, .,							
Peach Twig Borer (Dormant)Make application with an EPA registered dormant oil;								
recommendations on use of oil consult manufacturer's label. For best performance, g application equipment is recommended.	ground							
	122 4 4							
Filbert Worm         0.05 - 0.1         9.6 - 19.2         7.3 - 12.8           Oblique Banded Leafroller	13.2 - 6.6	21						
Make first application after emergence of filbert worm moths in early summer. Do not								
	A1							

10/16

# 11/16

		Application Rate Concentrate Spray Dilute Spray			Acres	Last Application
Сгор	Insect	Ib ai /acre	fl oz /acre	fl oz /100 gal	treated per gal of DuPont™ ASANA® XL	(days to harvest)
Pecans	Pecan Weevil Hickory Shuckworm Pecan Nut Casebearer Pecan Aphids Pecan Spittlebug Pecan Stem Phylloxera Pecan Leaf Phylloxera	0.025 - 0.075	4.8 - 14.5	2.0 - 5.8	26 - 9	21
	- 600 gals per it. ontrol of leaf dication.					
Walnuts Walnut Aphid Walnut Husk Fly Codling Moth	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 acre per season. For dilute sprays, apply 200 - 400 gals per acre. Do not feed or graze livestock on treated crop floors. NOTE: Use of baits in Walnut Husk fly sprays is recommended where endorsed by local Agricultural Extension Service. CONCENTRATE SPRAY: Apply specified dosage per acre in no less than 30 gals. of water per acre by ground or 5 gals, of water per acre by air.					

## SPECIFIC USES-VEGETABLE CROPS

<u></u> .		Applicat	ion Rate	Acres treated per	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	1
	Do not apply more often than each 1 between bud formation and harvest of of 10 gallons per acre by air and 50- water to obtain coverage without exc	of an individual fruit 200 gallons per acr cessive runoff).	. Apply in a mini e by ground (use	mum sufficient	
Beans, Dry Peas, Dry	Mexican Bean Beetle Saltmarsh Caterpillar	0.015 - 0.03	2.9 - 5.8	44 - 22	21
	Corn Earworm Potato Leafhopper Pea Aphid Grasshoppers Leafhoppers Cowpea Curculio Cutworms Cabbage Looper Western Bean Cutworm Velvetbean Caterpillar Beet Armyworm* Cucumber Beetle Corn Rootworm (Adults) Painted Lady Butterfly (larvae) Green Cloverworm	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Pea Weevil (ID, OR & WA only) Pea Leaf Weevil (ID, OR & WA only)	0.025 - 0.05	4.8 - 9.6	26 - 13	]
	Leafhoppers (except CA)	0.015 - 0.05	2.9 - 9.6	44 - 13	]
	Do not apply more than 0.2 lb a.i. pe Do not feed or graze livestock on tre *Aids in control. Pea Weevil & Pea Leaf Weevil (ID, control of pea weevil. For optimum i Once adult pea weevil populations re be reduced. Leafhoppers (except CA) - ASANA@ Fungicide. Follow all ASANA® XL a ''jar test'' for physical compatibility sf applications initiated. Order of addition best results, use of spray equipment h	ated vines. <u>OR &amp; WA</u> ) - Time of results, apply at blood ach a level of 2 or mo XL may be tank mi and BENLATE® lab bould be conducted bo on of tank mix compo	m prior to detecti ore adults per 25 s xed with DuPont <sup>1</sup> bel directions rega- before field mixtur onents may affect	ng adult pea weevils. weeps, control may MBENLATE® rding proper usage. A es are made and compatibility. For	

-

		Applicat	ion Rate	Acres treated per gal of DuPont™	Last Application
Сгор	Insect	lb ai/acre	f] oz/acre	ASANA® XL	(days to harvest)
Beans, Snap	Mexican Bean Beetle Saltmarsh Caterpillar	0.015 - 0.03	2.9 - 5.8	44 - 22	3
	Potato Leafhopper European Corn Borer Corn Earworm Cucumber Beetle (adults) Flea Beetle Green Cloverworm Cutworm (seedling spray) Grasshoppers Pea Aphid Leafhopper Cabbage Looper	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Western Bean Cutworm Velvet Bean Caterpillar Beet Armyworm* Cucumber Beetle Corn Rootworm (adults) Leafminer (Guam only)				
	Do not apply more than 0.2 lb ai pe Do not allow livestock to graze trea livestock forage, fodder, or hay. *Aids in control.		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)	Cabbage Looper Beet Armyworm* Alfalfa Looper Flea Beetle Grasshoppers Cutworm	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Do not apply more than 0.4 lbs. a.i. *Aids in control.	per acre per season.			
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/ac For aerial application apply in a min <u>*Carrot Weevil</u> - Begin treatment v Thorough spray coverage of crown recommended.	ation is			
Collards	Imported Cabbageworm Cabbage Looper Beet Armyworm* Alfalfa Looper Flea Beetle Grasshopper Cutworm	0.03 - 0.05	5.8 - 9.6	22 - 13	7
	Do not feed livestock on treated pla 0.2 lbs. a.i. per acre per season. For of 5 gals water per acre. *Aids in control.	nt parts. Do not apply aerial application ap	/ more than ply in a minimun	1	
CUCUMBER, MELONS (Cantaloupe, Honeydew Melons, Watermelon, Muskmelon), PUMPKIN, SQUASH (Summer, Winter)	Pickleworm Rindworms Leafhoppers Corn Earworm Cabbage Looper Squash Bug Cutworms (seedling spray) Cucumber Beetle (adults) Grasshoppers Plant Bugs (Lygus Bugs, Stink Bugs) Squash Vine Borer	0.03 - 0.05	5.8 - 9.6	22 - 13	3

......

-----

....

		Applicat	lion Rate	Acres treated per	Last Application
Сгор	Insect	lb ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL	(days to harvest)
Eggplant	Colorado Potato Beetle Flea Beetles Corn Earworm Loopers European Corn Borer	0.03 - 0.05	5.8 - 9.6	22 - 13	7
	Apply when insects are observed or y to 10 day intervals to achieve control	when insect damage . Do not apply more	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.		r	
Lentils	See "Beans, Dry"		ļ		
Lettuce, Head AZ, CA, CO, FL, NM & TX ONLY	Cabbage Looper Alfalfa Looper Heliothis spp. Beet Armyworm*	0.025 - 0.05	4.8 - 9.6	26 - 13	7
	Do not apply more than 0.35 lbs. a.i. *Aids in control.	per acre per season	1.		
Mustard Greens	Cabbage Looper Imported Cabbageworm	0.05	9.6	13	7
	Do not apply more than 0.2 lbs/a.i. p season.	er acre per			
Peas, Dry	See "Beans, Dry"		i		
Peas, Green	Pea Aphid Green Cloverworm	0.015 - 0.03	2.9 - 5.8	44 - 22	3
	Cabbage Looper Celery Looper Alfalfa Looper Cutworms Armyworm Corn Earworm Imported Cabbageworm Alfalfa Caterpillar	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Pea Weevil (ID, OR & WA only) Pea Leaf 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 Do not feed treated pea vines to live: Pea Weevil & Pea Leaf Weevil (ID, achieving control of pea weevil. For pea weevils. Once adult pea weevil p control may be reduced.				
Pepper	European Corn Borer Beet Armyworm* Flea Beetles Corn Earworm Loopers Colorado Potato Beetle Pepper Weevil* Cucumber Beetle (adults) Southern Armyworm	0.03 - 0.05	5.8 - 9.6	22 - 13	7
	Apply when insects are observed or w 10 day intervals to achieve control. *Aids in control.				

		Application Rate		Acres treated per	Last Application
Сгор	Insect	lb ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL	(days to harvest)
Potato	Potato Psyllid	0.015 - 0.03	2.9 - 5.8	44 - 22	7
	Potato Tuberworm Fleabeetles Tarnished Plant Bug Cabbage Looper Potato Aphid Potato Lorbananan	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Potato Leafhopper Cucumber Beetle (adult control) Grasshoppers European Corn Borer Beet Armyworm* Western Yellow-Striped Armyworm Buckthorn Aphid Cutworms Colorado Potato Beetle				
	Colorado Potato Beetle (Long Island, NY only) Do not apply more than 0.35 lb. a.i	0.05	9.6	13	
	*Aids in control.		<b>.</b>	<b>.</b>	
Radishes	Armyworms Beetles	0.03 - 0.05	5.8 - 9.6	22 - 13	7
	Do not apply more than 0.1 lb. ai/a			1	<u> </u>
Sweet Corn†	Corn Earworm Southwestern Corn Borer European Corn Borer Beet Armyworm* Flea Beetles Sap Beetles (adults) Banded Cucumber Beetle Tarnished Plant Bug	0.03 - 0.05	5.8 - 9.6	22 - 13	1
	Begin applications either before or at time of silking and continue as necessary to maintain control. For protection against corn borers other than at silking time, treat when necessary to maintain control. For additional information consult directions for use under field corn. *Aids in control.				
	Stalk Borer Cutworms Corn Rootworms (adults) Grasshoppers Chinch Bugs Armyworm	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Western Bean Cutworm	0.015 - 0.03	2.9 - 5.8	44 - 22	1
	For additional information consult	directions for use und			]
	Corn Leaf Aphid Oat Bird-Cherry Aphid	0.03 - 0.05	5.8 - 9.6	22 - 13	
	For optimum results, direct the spr coverage of the exposed insects. A axils, may not be adequately contr	]			
F84 .	† Do not apply more than 0.5 lb			44.22	
Tomato	Tomato Hornworm Tobacco Hornworm	0.015 - 0.03	2.9 - 5.8	44 - 22	1
	Tomato Pinworm Flea Beetle Tomato Fruitworm Colorado Potato Beetle Cutworms	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Cabbage Looper Southern Armyworm Beet Armyworm* Western Yellow-Striped Armyworm Grasshoppers Whitefly Potato Aphid				
	Vegetable Leafminer**	0.05	9.6	13	{
	Do not apply more than 0.5 lbs. a.i. *Aids in control. **ASANA® XL is not recommen	-	getable Leafminer	in Florida.	

						15/16
		Applicat	Application Rate		Last Application	]
Crop	Insect	lb ai/acre	fl oz/acre	gal of DuPont™ ASANA® XL	(days to harvest)	
Turnips (TX only)	Imported cabbageworm Armyworm Fleabeetle	0.03 - 0.05	5.8 - 9.6	22 - 13	7	
	Do not apply more than 0.4 lbs a	Do not apply more than 0.4 lbs a.i. per acre per season.				

## SPECIALTY USES

		Applicat	Acres treated per			
Сгор	Insect	lb ai/acre	fl oz/acre	gal of DuPont™ 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)	Armyworms Army Cutworms 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. Repeat applications as necessary to maintain control. 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.					

		Application Rate					
Crop	Insect	High Volu	Low Volume Sprays (Mistblower) Ib ai/acre				
CHRISTMAS TREE PLANTINGS, CONIFER SEED ORCHARDS, FOREST TREE NURSERIES, CONIFER PLANTATIONS	Nantucket Pine Tip Moth and other Pine Tip Moths (except CA) Spittlebugs Pineleaf Chermid Redheaded Pine Sawfly Balsam Woolly Adelgid Pine Chafer Red Pine Sawfly Pine Conelet Bug European Pine Sawfly Cranberry Girdler (adult control) Pine Needle Midge Balsam Twig Aphid Spruce budworm	0.03 - 0.05	<u>п oz/100 gal</u> 5.8 - 9.6	0.03 - 0.05			
	Spray in sufficient gallonage to obtain good coverage of entire tree.						
	Pales Weevil Northern Pine Weevil	0.03 - 0.05	5.8 - 9.6				
	Dilute formulation in kerosene (rather than in water), and spray tree stumps to control developing larvae. Use sufficient spray volume to cover stump thoroughly.						
	Coneworm Seedbug Seed Chalcid	Application Rate 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, or as needed. 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.						

## 16/16

#### 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.

The DuPont Oval Logo, DuPont<sup>™</sup>, ASANA®, BLADEX®, CLASSIC®, VELPAR®, LANNATE® and BENLATE® are trademarks or registered trademarks of E. I. duPont de Nemours and Company

"Super Tin" is a registered trademark of Griffin L.L.C.

"Ambush", "Karate" are registered trademarks of Zeneca Ag Products "Ammo", "Capture", "Fury", "Mustang", "Pounce" are registered trademarks of FMC Corp.

"Baythroid" is a registered trademark of Bayer Crop Protection "Danitol" is a registered trademark of Valent USA Corp.

"Decis", "Scout Xtra" are registered trademarks of AgrEvo USA Co.

### D-821 100201

#### LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read This Limitation of Warranty and Liability Before Buying or Using This Product. If the Terms Are Not Acceptable, Return the Product at Once, Unopened, and the Purchase Price Will Be Refunded.

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.

DuPont does not agree to be an insurer of these risks. WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.

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.

DUPONT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

IN NO EVENT SHALL DUPONT OR SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUEN-TIAL OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BUYER'S OR USER'S BARGAINED-FOR EXPECTA-TION IS CROP PROTECTION. THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE EXCLUSIVE LIABILITY OF DUPONT OR SELLER, FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY OR CONTRACT, NEGLI-GENCE, TORT OR STRICT LIABILITY), WHETHER FROM FAILURE TO PERFORM OR INJURY TO CROPS OR OTHER PLANTS, AND RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT, OR AT THE ELECTION OF DUPONT OR SELLER. THE REPLACEMENT OF THE PRODUCT.

DuPont or its Ag Retailer must have prompt notice of any claim so that an immediate inspection of buyer's or user's growing crops can be made. Buyer and all users shall promptly notify DuPont or a DuPont Ag Retailer of any claims, whether based on contract, negligence, strict liability, other tort or otherwise or be barred from any remedy.

This Limitation of Warranty and Liability may not be amended by any oral or written agreement.

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.

For product information call: 1-888-6-DUPONT Internet address: www.dupont.com/ag/us © 1998-2001 E. I. du Pont de Nemours and Company, Crop Protection, Wilmington, Delaware 19898. All rights reserved.