

Asana® XL

insecticide



"...... 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.



insecticide

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

Active Ingredient	By Weig
Esfenvalerate	
(S)-cyano (3-phenoxyphenyl) methyl	
(S)-4-chloro-alpha-(1-methylethyl)	
benzeneacetate	8.4%
Inert Ingredients*	91.6%
TOTAL	100 %

* CONTAINS XYLENE RANGE AROMATIC SOLVENT

EPA Reg. No. 352-515 EPA EST No. 5905-AR-1

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.)

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. If vomiting has not occurred, emesis should be induced with supervision by a physician or professional staff. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

If in eyes: Flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

If on skin: Wash with soap and water immediately. 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. Get medical help if irritation persists.

If inhaled: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

For medical emergencies involving this product, call toll free 1-800-441-3637.

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.

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.

PRECAUTIONARY STATEMENTS

(continued on next page)

PRECAUTIONARY STATEMENTS

(continued)

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands 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 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 DIRECTIONS

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: If treatment with ASANA XL Insecticide is not effective after recommended use, a resistant (tolerant) population of insects may be present. Poor insect control may result. Promptly consult your local State Agricultural Extension Service for advice on the use of alternative insecticides.

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 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.

Bladex* 4 L Preview*
Classic* Velpar*
Extrazine* 90DF Velpar* L
New Lorox Plus*

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

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

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

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

Crop Rotation: All rotation crops may be planted immediately following last application.

COTTON						
		Dosage 1		Number of acres treated with one gallon of	·	Days to
Crop	Insect	Lb ai	Fl oz	ASANA AL	Further Use Instructions	Harvest
COTTON	Cottex Bollworm Tobacca Budworm Boll Weevil Beet Armyworm* Cabbage Looper Saltmarsh Caterpillar Conca Leafworm Cutworms Lyges Bugs Plam Bugs Thrips (on seedling conon) Leafhopers Fleahopers Grasscoppers Whitefly** Cottex Aphid** Pink Bollworm	0.03 - 0.05	5.8 9.6	22 - 13	May be applied in water or nonvolatile vegetable oils. When using oil, apply a total spray volume of 1 or more quarts/acre. When diluted with water, apply no less than one gallon per acre by air (min. of 3 gal/a in Arizona and 5 gal/a in California) or 4 gal/a by ground. Repeat as necessary throughout season to maintain control. For the control of Boll Weevil, a 3 - 5 day interval between sprays may be required. Apply no more than 0.5 lbs ai/a to a crop in a growing season. Do not graze livestock on treated fields or feed treated trash. 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. See "Spray Recommendations and Precautions for Cotton, Grain Sorghum, Head Lettuce and Sugar Beets" below.	21
	NOTE: For light infestations of the above risects	0,02	3.9	33	* Aids in control. ** Aids in suppression.	
ĺ	Conce Leaf Perforator	0,03	5.8	22	· · ·	

COTTON - - TANK MIX APPLICATIONS

READ AND FOLLOW ALL FRECAUTIONS AND RESTRICTIONS ON THE PRODUCT LABELING.

Tank Mix Combination	Insect	Dosage	Further Use Instructions	Days to Harvest
LANNATE LV Insecticide I Water Soluble Liquid	Cotton Bollworm and Tobacco Budworm eggs	ASANA® XL (from cotton table) with 2/5 pt/acre LANNATE LV		21
LANNATE Insecticide Water Soluble Powder with adjuvent	Cotton Bollworm and Tobacco Budworm eggs	ASANA® XL (from cotton table) with 1/8 lb/acre LANNATE	Add adjuvant (X - 77, Bio - 88, Unite, Triton B - 1956 or equivalent*) to spray tank, then ASANA* XL, then LANNATE; agitate until thoroughly mixed. *Compatibility of alternate should be determined before use.	

SPRAY RECOMMENDATIONS AND PRECAUTIONS FOR COTTON, GRAIN SORGHUM, HEAD LETTUCE AND SUGAR BEETS

- Do not make more than a trial of 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season. Synthetic pyrethroid products include AMBUSH² insecticide, AMMO² insecticide, ASANA[®] XL insecticide, BAYTHROID³ emulsifiable pyrethroid insecticide, CAPTURE⁴ insecticide, MUSTANG⁴ insecticide, POUNCE⁴ insecticide and SCOUT XTRA⁵ insecticide.
- All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

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.

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 sgray 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 cooplet 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 scream 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 serial 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 actial 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.

Crop		Dosage per acre		Number of acres treated with one gallon of	Further Use Instructions	Days to	
CORN	Cutworms	0.03 - 0.05	5.8 - 9.6	22 - 13	Apply as necessary to maintain control. Applications for	21	
FIELD CORN	} i	0.03 - 0.05	3.8 - 3.0	22 - 13	cutworm control may be applied before, during, or after planting as required to protect emerging or emerged com seedlings. Physical compatibility with herbicides and/or fertilizers should be determined prior to tank mixing ASANA* XI, with these products, Follow all herbicide/ferzilizer recommendations and directions regarding proper usage.	21	
	Western Bean Cutworm	0.015 - 0.03	2.9 - 5.8	44 - 22	Apply as necessary to maintain control. Application must be made before larvae enter the ear.	İ	
	Com Earworm	0.03 - 0.05	5.8 - 9.6	22 - 13	First application should be at or before silking. Subsequent applications should be made at 3 - 5 day intervals until silking is completed. Repeat applications may be applied if economically damaging populations exist.		
	Stalk Borer Floa Beetles	0.03 - 0.05	5.8 - 9.6	22 - 13	Application must be made early in migration from grassy areas to corn, before borers enter the plant. More than one application may be necessary.		
	Com Rootworm (adult control)	0.03 - 0.05	5.8 - 9.6	22 - 13	Spray at first sign of silk feeding. Reinfestation may occur. Should reinfestation occur, repeat as necessary to maintain control.		
	Chinch Bugs	0.03 - 0.05	5.8 - 9.6	22 - 13	Over the top sprays, as used for control of ear and stalk infesting corn pests, are not adequate for chinch bug control. It is very important that the spray be directed at the base of the plant through the use of drop nozzles or some other mechanism. Repeat as necessary to control migrating chiach bugs.		
	European Com Borer	0.04 - 0.05	7.8 • 9.6	16 - 13	First brood: spray while eggs are in the blackhead stage or before the larvae enter the whorl. Application by ground equipment is suggested. Good coverage of both upper zrd lower leaf surfaces is essential. This can be accomplished with drop nozzles over the row and on each side of the corn plant. Multiple applications may be required when egg laying is prolonged or where moderate to heavy populations are present. A higher rate is recommended for moderate to heavy populations. Proper coverage by ground equipment usually requires 20 - 30 galloes of carrier. Once larvae enter the whorl, foliar sprays will not provide adequate control.		
, ,				Transferred to the control of the co	Second brood: make applications when sufficient egg masses are found. Spray when eggs are in the blackhead stage or starting to hatch. When egg laying is prolonged or a third generation is present, additional sprays may be required. A higher rate is recommended for moderate to heavy populations. Good coverage above, below, and in the ear zone is essential. This usually requires 2 - 3 gallons of carrier by air. If ground equipment is used, drop nozzles on each side of the plant will provide best coverage.		
	Southwestern Com Borer	0.03 - 0.05	5.8 - 9.6	22 - 13	Apply as necessary to maintain control. Two or more applications may be required. Higher rates (0.036 - 0.05 lb, a.i.) are recommended for moderate to heavy populations.		
	Armyworm (True Armyworm)	0.03 - 0.05	5.8 - 9.6	22 - 13	Apply as necessary to maintain control.		

				Number of		
	!			acres treated		
		Dosage	per acre	with one gallon of		Days to
Crop	Insect	Lb ai	Fì oz	ASANA® XL	Further Use Instructions	Harvest
	Adult Corn Rootworm European Corn Borer		11 Oz	<u></u>	ASANA® XL Insecticide may be tank - mixed with Parathion (methyl and/or ethyl) and applied on field com (and seed com) where supplemental control of Adult Com Rootworm and/or European Com Borer is desired in conjunction with insects controlled by ASANA® XL when used alone. For supplemental control of second brood European Corn Borer, make applications when sufficient egg masses are found. Spray when eggs are in the blackhead stage or starting to hatch. When egg laying is prolonged or a third generation is present, additional sprays may be required. A higher rate is recommended for moderate to heavy populations. Good coverage above, below, and in the ear zone is essential. This usually requires 2 - 3 gallons of carrier by air. If ground equipment is used, drop nozzles on each side of the plant will provide best coverage. For supplemental control of Adult Corn Rootworm, spray at first sign of silk feeding. Reinfestation may occur. Should reinfestation occur, repeat as necessary to maintain control. Refer to the ASANA® XL and Parathion (methyl or ethyl) labels for appropriate rates of the individual	2l
	Corn Leaf Aphid Oat Bird - Cherry Aphid	0.03 - 0.05	5.8 - 9.6	22 - 13	products for controlling the respective insects 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.	
	Do	not exceed 0.2	5 lb a.i. per a	cre per season.	-	
SEED CORN	For specific insect control Follow directions carefu		ns refer to Field C	om (above).	Multiple applications and/or shortened intervals between sprays must be used to insure proper insect control. Do not exceed 0.25 lb a.i. per acre per season.	21
POP CORN	For specific insect control Follow directions carefu		ns refer to Field C	om (above).	Multiple applications and/or shortened intervals between sprays must be used to insure proper insect control. Do not exceed 0.5 lb a.i. per acre per season.	1
PEANUTS	Corn Earworm Red - necked Peanut Worm Potato Leafhopper Velvetbean Caterpillar Beet Armyworm *	0.015 - 0.03	2.9 - 5.8	44 - 22	Repeat as necessary to maintain control. Do not feed or graze livestock on treated vines. Do not exceed 0.15 lb a.i. per acre per season. * Aids in control.	21
	Granulate Cutworm Grasshoppers Cutworms	0.03 - 0.05	5.8 - 9.6	22 - 13	**Aids in control. For heavy infestations use of LANNATE Inserticide is recommended. Please refer to the LANNATE label for use instructions.	
	Lesser Cornstalk Borer* Fall Armyworm**	0.05	9.6	13		
SOYBEAN	Mexican Bean Beetle Green Cloverworm Velvetbean Caterpillar Potato Leafhopper Saltmarsh Caterpillar Woolybear Caterpillar	0.015 - 0.03	2.9 - 5.8	44 - 22	Repeat as necessary to maintain control. Do not feed or graze livestock on treated plants. Do not exceed 0.2 lb a.i. per acre per season. When applying in nonvolatile vegetable oils use a total spray volume of 1 or more quarts.	21
	Cabbage Looper Corn Earworm Southern Green Stinkbug Bean Leaf Beetle Cutworms Three-cornered Alfalfa Hopper Beet Armyworm * Grasshoppers Japanese Beetle (adult)	0.03 - 0.05	5.8 - 9.6	22 - 13	* Aids in control.	

		Dosage per acre		Number of acres treated with one gallon of	3	Days to
Crop	Insect	Lb ai	Fi oz	ASANA® XL	Further Use Instructions	Harvest
SORGHUM (Grain)	Sorghum Midge	0.015 - 0.03	2.9 - 5.8	44 - 22	Repeat as necessary to maintain control. Do not exceed 0.15 lb a.i. per acre per season.	21
West of Mississippi River and East of	Com Earworm (headworm)	0.03 - 0.05	5.8 - 9.6	22 - 13	When applying in nonvolatile vegatable oils use a total spray volume of 1 or more quarts per acre.	
Rocky Mountains	Cutworms Chirich Bugs				Chinch Bug Control: For optimum results, spray should be directed at base of plants.	
					See "Spray Recommendations and Precautions for Cotton, Grain Sorghum, Head Lettuce and Sugar Beets" on page 4 of this label.	
SUGAR BEETS	Grasshoppers Beet Armyworm*	0.03 - 0.05	5.8 - 9.6	22 - 13	Apply as needed, but do not exceed 0.15 lb ai/acre per season.	21
	Leafhoppers Cutworms (seedling spray)				Apply with ground or air equipment using sufficient water to provide uniform coverage (minimum of 2 gal of water per acre).	
	Saltmarsh Caterpillar Cabbage Looper Beet Webworm				See "Spray Recommendations and Precautions for Cotton, Grain Sorghum, Head Lettuce and Sugar Beets" on page 4 of this label.	
					* Aids in control.	
SUGARCANE	Sugarcane Borer	0.03 - 0.05	5.8 - 9.6	22 - 13	Repeat as necessary to maintain control. Do not exceed 0.2 lb ai/acre per season	21
SUNFLOWER	Sunflower Beetle	0.015 - 0.03	2.9 - 5.8	44 - 22	Repeat as necessary to maintain control. Do not exceed	28
	Grasshoppers Cutworms Heliothis (complex) Sunflower Moth Sunflower Seed Weevil Banded Sunflower Moth Beet Armyworm* Sunflower Maggot Leafhoppers Sunflower Stem Weevil	0.03 - 0.05	5.8 - 9.6	22 - 13	0.2 lb. ai/acre per season * Aids in control.	

		Dosage j	per acre	Dosage per 100 gallons	Number of acres treated with one		
		Concentra	ite Spray	Dilute Spray	gallon of		Days to
Crop	Insect	Lb ai	FI oz	Fl oz	ASANA® XL	Further Use Instructions	Harvest
APPLES	Oblique Banded Leafroller Codling Moth Variegated Leafroller White Apple Leafhopper Tentiform Leaf Miner San Jose Scale (fruit infestations only) Apple Aphid Tufted Apple Budmoth Plum Curculio Oriental Fruit Moth Apple Maggot Red - Banded Leafroller Lesser Appleworm Green Fruitworm Rosy Apple Aphid Plant Bugs (Tarnished Plant Bug, Stink Bugs) Periodical Cicada	0.025 - 0.075	4.8 - 14.5	2.0 - 5.8	26 - 9	Repeat as necessary to maintain control. Do not feed or graze livestock on treated orchard floors. Do not exceed 0.525 lbs. a.i. per acre per season. For dilute spray apply 200-600 gals per acre, but do not exceed 14.5 fl. oz. of ASANA® XL per acre per treatment. Plant Bug. Rosy Apple Aphid Control - Time of application is critical in achieving control. Use prebloom and post bloom spray timings recommended by State Extension Services.	21
STONE FRUITS (including peaches, apricots, nectarines, plums, prune plums, cherries)	Peach Twig Borer Oriental Fruit Moth Peach Tree Borer Plum Curculio Lesser Peach Tree Borer Periodical Cicada Cherry Fruit Fly Western Cherry Fruit Fly American Plum Borer Black Cherry Aphid Leafrollers Leafhoppers Green Fruit worm Plant Bugs (Tarnished Plant Bug. Stink Bugs)	0.025 - 0.075	4.8 - 14.5	2.0 - 5.8	26 - 9	Repeat as necessary to maintain control. Do not exceed 0.375 lbs a.i. per acre per season with no more than 0.3 lbs. a.i. per acre per season between bloom and harvest. For dilute spray apply 200 - 400 gals per acre, but do not exceed 14.5 ft. oz of ASANA® XL per acre per treatment. Do not graze livestock on treated orchard floors. 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 limb spray. Thorough coverage of trunk and scaffold limb sis required. Peach Twip Borer, Plum Curculio. Oriental Fruit Moth, Cherry Fruit Fly, Western Cherry Fruit Fly, Leafrollers. Black Cherry Aphid. Periodical Cicada Control Apply by ground sprayer to achieve thorough coverage of all aerial portions of the tree. Plant Bug Control - Time of application is critical in achieving control. Use prebloom and postbloom	14
PEAR	Pear Psylla Codling Moth	0.025 - 0.075	4.8 - 14.5	2.0 - 5.8	26 - 9	spray timings recommended by State Extension Services. Repeat as necessary to maintain control. Do not exceed 0.375 lbs. a.i.	28
	Green Fruitworm Plum Curculio Leafrollers Pear Slug Periodical Cicada					per acre per season, nor more than 0.225 lb. ai.per acre between bloom and harvest. Do not feed or graze livestock on treated orchard floors. For dilute spray apply 200 - 600 gals per acre, but do not exceed 14.5 fl ozs of ASANA® XL per acre per treatment.	
PEAR (DORMANT)	Pear Psylla	0.03 - 0.1	9.6 - 19.2	7.3 - 12.8	13.2 - 6.6	Apply during dormant to prebloom (white bud) stage only. Do not apply more than 0.2 lb a.i. per acre per season. Do not graze orchard floor. For dilute spray apply 150 - 250 gals per acre, but do not exceed 19.2 fl. oz of ASANA®XL per acre per treatment.	

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	Dosage per acre Concentrate Spray		Dosage per 100 gallons Dilute Spray	Number of acres treated with one galion of		Days to	
Сгор	Insect	Lb si	Fl oz	Fl oz	ASANA* XL	Forther Use Instructions	Harvest
ALMONDS	Navel Orangeworm Peach Twig Borer	0.05 - 0.1	9.6 - 19.2	7.3 - 12.8	13.2 - 6.6	Repeat as needed to maintain control but do not exceed 0.2 lb. a.i. per acre per season. Do not graze livestock on treated orchard floors.	21
FILBERTS	Filbert Worm ObliqueBanded Leafroller	0.05 - 0.1	9.6 - 19.2	7.3 - 12.8	13.2 - 6.6	Make first application after emergence of filbert worm moths in early summer. Do not apply a second treatment earlier than three weeks after the first. Do not apply more than 0.2 lb. a.i. per acre per season. For dilute spray, apply 200 - 400 gals, per acre, but do not exceed 19.2 fl. oz of ASANA* XL per acre per treatment. Do not graze livestock in treated orchards.	21
PECANS	Pecan Weevil Hickory Shuckworm Pecan Nut Casebearer Pecan Aphids Pecan Spittlebug	0.025 - 0.075	4.8 - 14.5	2.0 - 5.8	26 - 9	Repeat as necessary to maintain control. Do not feed or graze livestock or treated orthard floors. Do not exceed 0.3 lbs. a.i. per acre per season. For dilute spray apply 200 - 600 gals per acre, but do not exceed 14.5 fl. oz. of ASANA® XL per acre per reaument.	21
	Pecan Stem Phylloxera Pecan Leaf Phylloxera				1	Certect timing of spray applications is critical in achieving optimum control of leaf and stem phylloxera. Consult is cal spray recommendations for certect times of application.	
WALNUTS	Walnut Aphid Walnut Husk Fly Codling Moth Navel Orangeworm	0.05 - 0.1	9.6 - 19.2	4.0	13 - 6	Repeat as necessary to maintain control. Do not exceed 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 foors. NOTE: Use of baits in Walnut Husk Sy 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.	21

VEGETABLE CI	ROPS					
		Dosage per acre		Number of acres treated with one gallon of		Days to
Crop	Insect	Lb ai	Fi oz	ASANA* XL	Further Use Instructions	Harvest
ARTICHOKES	Artichoke Plume Moth	0.03 - 0.05	5.8 - 9.6	22 - 13	Repeal as necessary to maintain control, but not more often than each 14 days. Apply no more than 0.075 lb, aifacre between but formation and harvest of an individual fruit. Apply in a minimum of 10 gallons per acre by air and 50 - 200 gallons per acre by ground (use sufficient water to obtain coverage without excessive runoff)	7
BROCCOLI, CABBAGE, CAULIFLOWER, CHINESE CABBAGE	Imported Cabbageworm	0.015 - 0.03	2.9 - 5.8	44 - 22	Repezt as necessary to maintain control. Do not exceed 0.4 lbs. a.i. per acre per season. Repeat as necessary to maintain control. Do not exceed 0.4 lbs. a.i. per acre per season.	3
(tight headed varieties only)	Cabbage Looper Beet Armyworm * Alfalfa Looper Flea Beetle Grasshoppers Cutworm	9.03 - 0.05	5.8 - 9.6	22 - 13	* Aids in control.	

			Number of acres treated		
}	Dosage	per acre	with one		Days to
Insect	Lb zi	Fl oz	ASANA*XL	Further Use Instructions	Harvest
Aster Leafhopper, Cutworms Leafhoppers	0.03 - 0.05	5.8 - 9.6	22 - 13	Apply as needed for control, but do not exceed 0.5 lb ai/acre per season. For aerial application apply in a minimum of 5 gals water per acre.	7
Carrot Weevil*	0.05	9,6	13	Begin treatment when weevils become active. Thorough spray coverage of crown area is essential. Use of ground application is recommended.	
Imported Cabbageworm Cabbage Looper Beet Armyworm * Alfalfa Looper Flea Beetle Grasshopper Cutworm	0.03 - 0.05	5.8 - 9.6	· 22 - 13	Repeat as necessary to maintain control. Do not feed livestock on treated plant parts. Do not exceed 0.2 lbs. a.i. per acre per season. Use ground application equipment only.	7
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	Repeat as necessary to maintain control. Do not exceed 0.25 lbs. a.i. per scre pet season.	3
Mexican Bean Beetle Saltmarsh Caterpillar	0.015 - 0.03	2.9 - 5.3	44 - 22	Repeat as needed to maintain control but do not exceed 0.2 ib ai per acre per season. Do not allow livestock to graze treated bean fields. Do not harvest treated bean vines for livestock forage, fodder, or hay	3
Potato Leafnopper European Corn Borer Corn Earworm Cucumber Beetle (adults) Flea Beetle Green Cloverworm Cutworm (seedling spray) Grasshoppers Pea Aphid Leafnopper Cabbage Looper Western Bean Cutworm Velvet Bean Caterpillar Beet Armyworm* Cucumber Beetle Com Rootworm (adults) Leafminer (Guam only) Mexican Bean Reatle	0.03 - 0.05	5,8 - 9 é		* Aids in control.	
Mexican Bean Beetle Saltmarsh Caterpillar	0.015 - 0.03	2.9 - 5.8	AC - 22	Repeat as necessary to maintain control. Do not exceed, 0.2 to a.i. per acre per season. Do not feed or graze livestock on treated vines.	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	0.03 - 0.05	5.8 - 9.6	25 - 13	* Aids in control.	
	Aster Leafhopper, Cutworms Leafhoppers Carrot Weevil* Imported Cabbageworm Cabbage Looper Beet Armyworm Rindworms Leafhoppers Com Earworm Cabbage Looper Squash Bug Cutworms (seedling spray) Cucumber Beetle (adults) Grasshoppers Plant Bugs (Lygus Bugs, Stink Bugs) Squash Vine Boter Mexican Bean Beetle Saltmarsh Caterpillar Potato Leafhopper European Com Borer Com Earworm Cucumber Beetle (adults) Flea Beetle (adults) Green Cloverworm Cucumber Beetle (adults) Green Cloverworm Cucumber Beetle (adults) Leafhopper Cabbage Looper Western Bean Cutworm Velvet Bean Caterpillar Beet Armyworm* Cucumber Beetle Corn Rootworm (adults) Leafminer (Guain only) Mexican Bean Beetle Saltmarsh Caterpillar Corn Earworm Potato Leafhopper Pea Aphid Cucumber Beetle Corn Rootworm (adults) Leafminer (Guain only) Mexican Bean Beetle Saltmarsh Caterpillar Corn Earworm Potato Leafhopper Pea Aphid Grasshoppers Leafhoppers Cowpea Curculio Cutworms Cabbage Looper Western Bean Cutworm Velvetbean Caterpillar	Aster Leafhopper, Cutworms Leafhoppers Carrot Weevil* Carrot Weevil* Carrot Weevil* Carrot Weevil* O.03 - 0.05 Imported Cabbageworm Cabbage Looper Beet Armyworm * Alfalfa Looper Flea Beetle Grasshopper Cutworm 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 Mexican Bean Beetle Saltmarsh Caterpillar Potato Leafhopper European Corn Borer Corn Earworm Cucumber Reetle (adults) Flea Beetle Green Cloverworm Cutworm (seedling spray) Grasshoppers Pea Aphid Leafhopper Cabbage Looper Western Bean Cutworm Velvet Bean Caterpillar Beet Armyworm* Cucumber Reetle Corn Rootworm (adults) Leafminer (Guam only) Mexican Bean Beetle Saltmarsh Caterpillar Beet Armyworm* Cucumber Reetle Corn Rootworm (adults) Leafminer (Guam only) Mexican Bean Beetle Saltmarsh Caterpillar Beet Armyworm* Cucumber Beetle Corn Rootworm (adults) Leafmopper Cabbage Looper Western Bean Cutworm Velvet Bean Cutrolio Cutworms Cabbage Looper Western Bean Cutworm Velvetbean Caterpillar Beet Armyworm* Cucumber Cowpea Curculio Cutworms Cabbage Looper Western Bean Cutworm Velvetbean Caterpillar Beet Armyworm* Cucumber Compea Cutrolio Cutworms Cabbage Looper Western Bean Cutworm Velvetbean Caterpillar Beet Armyworm* Cucumber Compea Curculio Cutworms Cabbage Looper Western Bean Cutworm Velvetbean Caterpillar Beet Armyworm* Cucumber Compea Cutrolio Cutworms Cabbage Looper Western Bean Cutworm Velvetbean Caterpillar Beat Armyworm* Cucumber Compea Cutrolio Cutworms Cabbage Looper Western Bean Cutworm Velvetbean Caterpillar Beat Armyworm* Cucumber Cucumber Compea Cutrolio Cutworms Cabbage Looper Western Bean Cutworm Velvetbean Caterpillar	Aster Leafhopper, Cutworms Leafhoppers Carrot Weevil* O.05 J.8 - 9.6 Imported Cabbageworm Cabbage Looper Beet Armyworm * Alfalfa Looper Flea Beetle Grasshoppers Cutworm Pickleworm Rindworms Leafhoppers Com Earworm Cabbage Looper Squash Bug Cutworms (seedling spray) Cucumber Beetle (adults) Grasshoppers Plant Bugs (Lygus Bugs, Stink Bugs) Squash Vine Borer Mexican Bean Beetle Saltmarsh Caterpillar Potato Leafhopper Come Earworm Cucumber Beetle (adults) Flea Beetle Green Cloverworm Cucumber Beetle (adults) Flea Beetle Green Cloverworm Cutworm (seedling spray) Grasshoppers Pea Aphid Leafhopper Cabbage Looper Western Bean Cutworm Velvet Bean Cuterpillar Beet Armyworm* Cucumber Beetle Com Rootworm (adults) Leafminer (Guam only) Mexican Bean Beetle Saltmarsh Caterpillar Beet Armyworm* Cucumber Beetle Com Rootworm (adults) Leafminer (Guam only) Mexican Bean Beetle Saltmarsh Caterpillar Beet Armyworm* Cucumber Beetle Com Rootworm Velvet Bean Caterpillar Come Earworm Potato Leafhopper Pea Aphid Grasshoppers Leafhuppers Cowpea Curculio Cutworms Cutworms Cutworms Velvetbean Caterpillar Beet Armyworm* Couppers Cowpea Curculio Cutworms Cutworms Velvetbean Caterpillar Beet Armyworm* Couppers Cowpea Curculio Cutworms Velvetbean Caterpillar Beet Armyworm* Velvetbean Caterpillar Beet Armyworm* Companyorm*	Dosage per acre Dosage per	Insect Dotage Per Series With one gallon of United Careborne Control Date of Careborne

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		Dosage	per acre	Number of acres treated with one gallon of		Days te
Crop	Insect	Lb ai	Floz.	ASANA® XL	Further Use Instructions	Harvest
EGGPLANT	Colorado Potato Beetle Flea Beetles Com Earworm Loopers European Com Borer	0.03 - 0.05	5.8 - 9.6	22 - 13	Begin application when insects or their damage is observed and repeat at 7 to 10 day intervals to achieve control. Do not exceed 0.35 lbs. a.i. per acre per season.	7
GREEN PEAS	Pea Aphid Green Cloverworm	0.015 - 0.03	2.9 - 5.8	44 - 22	Repeat as necessary to maintain control but do not exceed 0.1 lb ai are per season. Do not feed treated pea vines to livestock.	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		
HEAD LETTUCE AZ, CA, CO, FL, & TX ONLY	Cabbage Looper Alfalfa Looper Heliothis spp. Beet Armyworm*	0.025 - 0.05	4.8 - 9.6	26 - 13	Repeat as necessary to maintain control. Do not exceed 0.35 lbs. a.i. per acre per season. See "Spray Recommendations and Precautions for Cotton, Grain Sorghum, Head Lettuce and Sugar Beets" on page 4 of this label. * Aids in control.	
PEPPERS	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	Begin application, when insects or their damage is observed and repeat at 7 to 10 day intervals to achieve control. Do not exceed 0.35 lbs. a.i. per acre per season. * Aids in control.	To the state of th
POTATO	Potato Psyllid Potato Tuberworm	0.015 - 0.03	2.9 - 5.8	44 - 22	Repeat as necessary to maintain control. Do not exceed 0.35 lbs. a.i. per acre per season.	1 7
	Fleabeetles Tarnished Plant Bug Cabbage Looper Potato Aphid Potato Leafhopper Cucumber Beetle (adult control) Grasshoppers European Corn Borer Beet Armyworm* Western Yellow - Striped Armyworm Buckthorn Aphid Cutworms	0.03 - 0.05	5.8 - 9.6	22 - 13		
	Colorado Potato Beetle	0.03 - 0.05	5.8 - 9.6	22 - 13	1	1
	Colorado Potato Beetle - Long Island, NY	0.05	9.6	13	* Aids in control	1
RADISHES	Armyworms Beeties	0.03 - 0.05	5.8 - 9.6	22 - 13	Repeat as necessary to maintain control. Do not apply more than 0.1 ib al/acre per season.	7

		Dosage	per acre	Number of acres treated with one gallon of		Days to
Сгор	Insect	Lb ai	Fl oz	ASANA* XL	Further Use Instructions	Harvest
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	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.	
	Statk Borer Cutworms Corn Rootworms (udults) Grasshoppers Chinch Bugs Armyworm	0.03 - 0.05	5.8 - 9.6	22 - 13	For additional information consult directions for use under field corn.	
	Western Bean Cutworm	0.015 - 0.03	2.9 - 5.8	44 - 22		
•	Corn Leaf Aphid Oat Bird - Cherry Aphid	0.03 - 0.05	5.8 - 9.6	22 - 13	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 whorts and leaf axils, may not be adequately controlled.	
		Do not exceed	l 0.5 lb a.i. per	r acre per seaso	Π.	1
томато	Tornato Hornworm Tobacco Hornworm	0.015 - 0.03	2.9 - 5.8	44 - 22	Repeat as necessary to maintain control. Do not exceed 0.5 lbs. a.i. per acre per season.	l,
	Tomato Pinworm Flea Beetle Tomato Fruitworm Colorudo Potato Beetle Cutworms Cabbage Looper Southern Armyworm Beet Armyworm * Western Yellow - Striped Armyworm Grusshoppers Whitefly Potato Aphid	0,03 - 0,05	5,8 - 9.6	22 - 13	* Aids in control.	
	Vegetable Leafminer**	0.05	9.6	13	** Not recommended in Forida	

SPECIALITY US	SES Insect	Dosage per acre		Number of acres treated with one gallon of	•
		Lb ai	Fl oz	ASANA* XL	XL Further Use Instructions
NON - CROPLAND (excluding public land such as forests, parks, or recreational)	Grasshoppers Saltmarsh Caterpillar	0,015 - 0,03	2.9 - 5.8	44 - 22 .	Spray non - cropland adjacent to tilled areas to control migrating insects (Grasshoppers, Arrayworms) which are a threat to crops. Repeat as necessary to maintain control but do not exceed 0.5 lbs. active ingredient per acre per year. Do not feed treated crop to livestock. Do not spray ditch banks or areas adjacent to water.
	Armyworms Army Cutworms Chinch Bugs	0.03 - 0,05	5.8 - 9.6	22 - 13	

	Insect	Dosage			
		High Volume Sprays		Low Volume Sprays	
Crop		Lb ai/ 100 gal	Fi oz/ 100 gai	(Mistblower) Lb.ai/acre	Further Use Instructions
CHRISTMAS TREE PLANTINGS, CONIFER SEED ORCHARDS, FOREST TREE NURSERIES	Nantucket Pine Tip Moth 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 Pales Weevil	0.03 - 0.05	5.8 - 9.6 5.8 - 9.6	0.03 - 0.05	Apply as needed to maintain control. Spray sufficient gallonage to obtain good coverage of entire tree. Apply as needed to maintain control. Dilute formulation in kerosene, instead of water, and spray tree stumps to control developing larvae, Use sufficient spray volume to thoroughly cover stump.
	Coneworms Seedbugs Seed Chalcid	52 fl 02/100 gals		• •	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 exceed 1.6 lbs. ai per acre per year. For Seed Chalcid control, apply when all cones are pendant, and repeat 1 - 2 week intervals for 2 or more sprays, or as needed. Apply approximately 5 - 10 gals of the 9.6 ft oz/100 gal dilution per tree with high volume sprayers. With low volume sprayers apply 100 gals of the 52 ft oz/100 gal dilution per acre. Do not graze or harvest cover crop. Avoid contact with open water.

STORAGE AND DISPOSAL

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

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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