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09/23/2008

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

SEP 2 3 2008

Patricia G. Devine DuPont Crop Protection Stine-Haskell Research Center P.O. Box 30 Newark, DE 19714-0030

Subject:

Updated Spray Drift Language for Pyrethroid

Agricultural Use Product as per EPA letter dated February 21, 2008

Dear Ms. Devine:

The Agency is in receipt of your Applications for Pesticide Notification dated July 22, 2008 for the product Dupont Asana XL Insecticide (EPA Reg. No. 352-515).

Registration Division (RD) has conducted a review of this request for it applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The labels submitted with the applications has been stamped "Notification" and will be placed in our records.

Note under Buffer Zones "streams" should read "permanent streams" and "ponds" should read "natural ponds".

-If-you-have-any-questions, please-call-me-at-(703) 305-6100.

Sincerely,

fur George T. LaRocca

Product Manager 13

Insecticide Branch

Registration Division (7505P)

Enclosure



Form Approved, OMB No. 2070-0080. Approval expires 05-31-98 Please read instructions on reverse before completing form. **OPP Identifier Number** Registration **United States Environmental Protection Agency** Amendment Washington, DC 20480 Other Application for Pesticide - Section I 2. EPA Product Manager 1. Company/Product Number 3. Proposed Classification DuPont 352-515 George LaRocca **★** Restricted None 4. Company/Product (Name) DuPont/Asana® XL insecticide 13 5. Name and Address of Applicant (Include ZIP Code) 6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or the transfer of the product is similar or the transfer of the product is similar or the p E. I. du Pont de Nemours & Company Crop Protection, P.O. Box 30 Newark DE 19714-0030 Attention P. Devine EPA Reg. No. Check if this is a new address Product Name Section - II Final printed labels in response to Amendment - Explain below. Agency letter dated "Me Too" Application. Resubmission in response to Agency letter deted_ Other - Explain below. Notification - Explain below. Explanation: Use additional page(s) if necessary. (For section I and Section II.) Submission of Updated Spray Drift Language via Notification/Self-Certification Per EPA's letter dated February 21, 2008. Fee for Service: No Fees are proposed for this action, as none are required because it is a Notification/Self Certification per I certify that the only changes made on the label are those necessary to comply with EPA's letter of February 21, 2008. Section - III 1. Material This Product Will Be Packaged In: 2. Type of Container Water Soluble Packaging Child-Resistant Packaging Unit Packaging Metal Yes' Yes Yes Plastic Ňn No Glass Paper If "Yes" Unit Packaging wgt. No. per No. per If "Yes" Certification must Package wgt Other (Specify) container be submitted 3. Location of Net Contents Information 4. Size(s) Retail Container 5. Location of Label Directions On Label On Labeling accompanying product Label Container Lithograph Other 6. Manner in Which Label is Affixed to Product Paper glued Stenciled Section - IV 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Name Title Telephone No. (Include Area Code) **US Registration Manager** 302-366-5274 Patricia G. Devine 6. Date Application Certification Reculvud I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or (Stamped) both under applicable law. **US Registration Manager** luguet 27, 2008 Patricia G. Devine



DuPont Crop Protection Stine-Haskell Research Center P.O. Box 30 Newark, DE 19714-0030

SENT VIA FEDERAL EXPRESS

August 27, 2008

Mr. George LaRocca (PM-13)
Office of Pesticide Products (7505P)
Document Processing Desk (NOTIF)
U. S. Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Fee for Service: No Fees are proposed for this action, as none are required because it is a Notification/Self Certification per EPA Requirements

Subject: Submission of Updated Spray Drift Language via

icia G. Devine

Notification/Self-Certification Per EPA's letter dated February 21, 2008

for DuPont™ Asana® XL insecticide (EPA Reg. No. 352-515)

Dear Mr. LaRocca:

Enclosed please find EPA Form 8570-1 and three (3) copies of amended labeling for DuPontTM Asana® XL insecticide (D-1377 081208). I certify that the only changes made on the label are those necessary to comply with EPA's letter of February 21, 2008, relative to spray drift language.

Please feel free to call me at (302) 366-5274 if you have any questions.

Sincerely,

Patricia G. Devine

U.S. Registration Manager

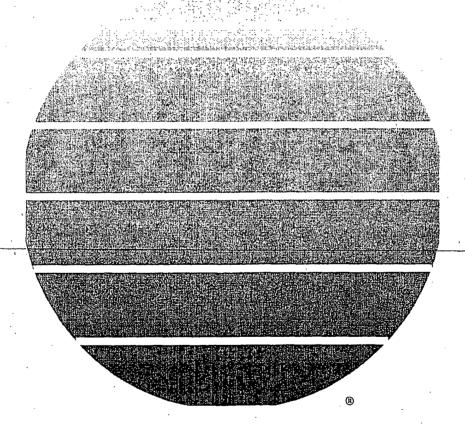
Enclosures

SEP 2 3 2008



DuPontTM 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.



DuPont™ Asana® XL insecticide

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

Active Ingredient

By Weight

Esfenvalerate

(S)-cyano (3-phenoxyphenyl) methyl

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

benzeneacetate

Inert Ingredients*

8.4% 91.6%

TOTAL

100 %

* CONTAINS XYLENE RANGE AROMATIC SOLVENT

EPA Reg. No. 352-515

KEEP OUT OF REACH OF CHILDREN WARNING

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

FIRST AID

IF SWALLOWED

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

IF INHALED

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

IF IN EYES

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

IF ON SKIN OR CLOTHING

Take off contaminated clothing.

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

NOTE TO PHYSICIAN

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

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

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

INSECTICIDE

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

PERSONAL PROTECTIVE EQUIPMENT

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

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

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

Protective eyewear.

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

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

ENGINEERING CONTROL STATEMENTS

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

ENVIRONMENTAL HAZARDS

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

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

> WILDLIFE PROTECTION IS EVERYONE'S RESPONSIBILITY

DIRECTIONS FOR USE

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

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

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls.

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

Protective eyewear.

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

GENERAL INFORMATION

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

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

RESISTANCE

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

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

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

INTEGRATED PEST MANAGEMENT

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

SPRAY PREPARATION

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

TANK MIXING AND COMPATIBILITY

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

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

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

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

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

CHEMIGATION

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

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

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

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

CROP ROTATION

ALL ROTATION CROPS MAY BE PLANTED IMMEDIATELY FOLLOWING LAST APPLICATION.

BUFFER ZONES

Vegetative Buffer Strip

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

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

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

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

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

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

Buffer Zone for ULV Aerial Application

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

Buffer Zone for Non- ULV Aerial Application

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

SPRAY DRIFT REQUIREMENTS

Wind Direction and Speed

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

Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversion

Do not make aerial or ground applications into temperature inversions.

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

Droplet Size

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

Additional Requirements for Ground Applications

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

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

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

Additional Requirements for Aerial Applications

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

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

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

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

SPRAY TANK CLEANOUT

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

SPECIFIC USES—FIELD CROPS

| | | Applicati | on Rate | Acres treated per | Last Applicati |
|-----------------------|--|--------------------------|-----------------------------------|-----------------------------|-------------------|
| | Tunnet | th aileans | fl oz/acre | gal of DuPont™ ASANA® XL | (days to harvest) |
| Crop Corn (field)† | Insect Western Bean Cutworm | 0.015 - 0.03 | 2.9 - 5.8 | 44 - 22 | 21 |
| or it (ttera) i | Armyworm (True Armyworm) | 0.013 - 0.05 | 5.8 - 9.6 | 22-13 | 2' |
| , | Black Cutworm (except CA) | 0,03 - 0.05 | 2.0 - 5.0 | 1 | |
| | Chinch Bug | | | | |
| | Corn Earworm | , | | | |
| | Corn Leaf Aphid | | | | • |
| | Corn Rootworm (adult control) Cutworm | | | <u>]</u> . | , , |
| | Flea Beetle | | | | |
| | Grasshopper | | | | |
| | Japanese beetle (adult) (except CA) | | | | |
| | Oat Bird-Cherry Aphid | , | | 1 | , |
| | Southwestern Corn Borer Stalk Borer | | | | |
| | | 0.04 - 0.05 | 7.8 - 9.6 | 16 - 13 | ╣. |
| | European Corn Borer Black Cutworm - ASANA® XL may be | | | 10-10 | - |
| | (0.0165 - 0.05 lb ai/acre) for the control of | of black cutworm whe | ozzacie Papplied at planting (| o f | |
| • | com (except CA). | | tt z er kannen B | | 1 |
| • | Chinch Bug - Over the top sprays, as use | ed for control of ear an | d stalk infesting com | pests, | |
| | are not adequate for chinch bug control. I | | | | 1 |
| | base of the plant through the use of drop | nozzles or some other | mechanism. | | 1 |
| | Corn Earworm - First application should | | | s may be | |
| | applied if economically damaging popula | | | | } |
| | should be made at 3 - 5 day intervals unti | | | | J |
| | Corn Leaf Aphid, Oat Bird-Cherry Ap aphid population so as to achieve maximi | hid - For optimum res | cults, direct the spray | at the | |
| | contacted by the spray, such as in whorls | and leaf axils, may no | o be adequately contr | olled. | |
| | Corn Rootworm (Adult) - Apply at the | | | | |
| | ASANA® XL may be tank-mixed with n | _ | - | | |
| | on field corn where supplemental control | | | | |
| | desired in conjunction with insects control | | | | 1 |
| | Refer to the ASANA® XL and methyl pa | • | · · | • | |
| | individual products for controlling the res | | • | | j . |
| | Cutworm - Applications for cutworm co | | | | • |
| | during, or after planting as required to pro | otect emerging or eme | rged com seedlings. | | |
| | European Corn Borer - | | | • | , |
| | First brood: Spray white eggs are in the | blackhead stage or be | fore | | |
| | the larvae enter the whorl. Application by of both upper and lower leaf surfaces is e | | | | |
| | nozzles over the row and on each side of | the complant. Multip | le applications may b | e-required | |
| • | when egg laying is prolonged or where m | | | | , |
| | rate is recommended for moderate to heav | y populations. Proper | coverage by ground | | |
| • | equipment usually requires 20-30 gailons | of carrier. Once larva | e enter the whorl, fol- | ar sprays | |
| | will not provide adequate control. | | | | 1 |
| | Second brond: Make applications when s | | | | |
| | in the blackhead stage or starting to hatch, is present, additional sprays may be requi | | | | . ` |
| | heavy populations. Good coverage above | | | | 1 |
| | requires 2 - 3 gallons of carrier by air. If | | | | |
| | of the plant will provide best coverage. | | | | |
| ` | ASANA® XL may be tank-mixed with m | ethyl parathion and ap | plied · | | 1 |
| | on field com where supplemental control | | | | } . |
| • | desired in conjunction with insects contro | | | • | 1 |
| | Refer to the ASANA® XL and methyl pa | | opriate rates of the | | 1 |
| 1 | individual products for controlling the res Grasshopper - For control of first and se | | er numnhal stages a r | ate range | |
| | of 3.9 to 5.8 fluid ounces of product per a | | | | 1 |
| | of spray applications to the first and secon | nd instar nymphal stag | es and thorough cove | rage is | I |
| , | critical to achieve optimum control. For g | rasshopper nymph sta | ges larger than secon | d instar, | 1 . |
| • | use ASANA® XL at use rates of 5.8 to 9. | | | | <u> </u> |
| | ai/A). | | | 0.05.11 | |
| | Southwestern Corn Borer - For moderate | te to heavy infestation | s, higher rates (0.036 | -0.05 lb | |
| | ai per acre) are recommended. | | r ut. r | | 1 |
| | Stalk Borer, Flea Beetle - Application m | iust be made early in r | nigration from grassy | areas to | 1 |
| • | com, before borers enter the plant. | | | • | |
| • | Western Bean Cutworm - Apply before | Inmine a-1 11 | | | |

SPECIFIC USES—FIELD CROPS (cont'd)

| | • | Applicati | on Rate | Acres treated per | Last Application |
|--------------|---|--|---|--------------------------|----------------------|
| Стор | Insect | lb ai/acre | fi oz/acre | gal of DuPont™ ASANA® XL | (days to harvest) |
| Corn (field) | Cutworm | 0.0023 lbs | 0.45 fl oz | 1.0.1. (1.0.1.2 | 21 |
| At Plant | | a.i. per 1000 | per 1000 | | |
| | Apply as an in-furrow, T-band, or band t | feet of row | feet of row | table below to | } |
| | determine the pounds active ingredient a | nd fluid ounces of ASA | NA® XL applied at | 0.0023 lbs. a.i. | , |
| • | per 1000 feet or row for various row space In furrow Applications: Apply into the se | cings. | • | | |
| • | openers and in front of the press wheel. | | , i | | |
| | Banded Applications: Apply at planting the furrow openers and the press wheels | as a 4-7 inch T-band sp | rayed across the ope | n seed furrow between | |
| | Apply a minimum spray volume of 3 gal | | ii beiiiid die piess wi | icei. | Ì |
| : | Do not exceed 0.05 lbs. a.i. per acre per s Do not apply more than 0.25 pounds acti | cason as an at-plant ap | plication. per season including | at-plant plus foliar | |
| | applications of ASANA® XL. | ve ingredient per aere | per season merading | ar plant plas fonal | |
| | Row Spacing (inches) 40" | 38" | 36" | 30" | |
| | Linear Ft/A 13,068 ASANA® XL Lbs.ai/A 0.03 | . 13,756 0.032 | 14,520 0.033 | 17,424 0.04 | |
| · · | ASANA® XL Fl oz/A 5.8 | 6.2 | 6.4 | 7.8 | |
| Corn (pop) | For specific insect control recommendati Follow directions carefully. | ons refer to Field Com | (above). | | 1, |
| | Multiple applications and/or shortened in | tervals between sprays | must be used to insur | e proper | · |
| <u>_</u> | insect control. Do not apply more than 0. | 5 lb a.i. per acre per se | ason. | | |
| Corn (seed) | For specific insect control recommendati Follow directions carefully: | ons refer to Field Com | (above). | | 1 |
| | Multiple applications and/or shortened in | tervals between sprays | must be used to insu | e proper | |
| | insect control. Do not apply more than 0. | | | | |
| Cotton | Cotton Leaf Perforator | 0.03 | 5.8 | 22 | 21 |
| | Beet Armyworm* Black cutworm (except CA) | 0.03 - 0.05 | . 5.8 - 9.6 | 22 - 13 | |
| | Boll Weevil | • | | | |
| | Cabbage Looper Cotton Aphid* | | • | | |
| | Cotton Bollworm | | | | |
| | Cotton Leafworm Cutworms | | | | , |
| | Fleahoppers | | | , | |
| | Grasshoppers Green Stink Bug (except CA) | | • | | |
| | Leafhoppers | | | | |
| | Lygus Bugs Pink Bollworm | • | | | I |
| | Plant Bugs | • • • | | | |
| | Saltmarsh Caterpillar Southern Green Stink Bug | | | | |
| | (except CA) | | | | |
| · | Thrips (on seedling cotton) Tobacco Budworm | | | | |
| | Whitefly* | | | | |
| | NOTE: For light infestations of the | 0.02 | 3.9 | 33 | |
| | *Aids in control. | | | · | |
| | May be applied in water or nonvolatile ve | egetable oils. | • | • | |
| | When applying ASANA® XL in an oil car | | | | |
| | When applying ASANA® XL in a water 3 gal per acre in Arizona and 5 gal per ac | camer, apply at least ! re in California) or 4 g | al per acre by air (| at least I | · |
| | Do not apply more than 0.5 lb ai per acre | | , , , | | • • |
| • | Do not graze livestock on treated fields o | | | - | • |
| | Black Cutworm - ASANA® XL may be acre) for the control of black cutworm wi | applied at 3.2 - 9.6 fl | oz/acre (0.0165 - 0.0 of cotton (except CA | 5 lb ai/ | , |
| | Boll Weevil - To control Boll Weevil infi | estations, a 3 to 5 day i | nterval between appl | ications | |
| | may be necessary. | • | | | |
| | Heliothis spp ASANA® XL can provide when applied according to label directions | | | | |
| • | be timed to correspond with peak egg der | position to achieve may | imum ovicidal effec | l, | • |
| | Use on this pest stage (egg) is not register | red in California. | | | |
| | Do not make more than a total of 10 synt | Land a management of the Principle of th | ntions (. f | | 1 |

SPECIFIC USES—FIELD CROPS (cont'd)

| | | Applicati | on Rate | Acres treated per | Last Application |
|-----------------|--|---|---|-----------------------------|----------------------|
| Crop | Insect | lb ai/acre | fl oz/acre | gal of DuPont™ ASANA® XL | (days to harvest) |
| Peanuts | Corn Earworm | 0.015 - 0.03 | 2.9 - 5.8 | 44 - 22 | 21 |
| • | Potato Leafhopper Red-necked Peanut Worm | | | : | |
| | Velvetbean Caterpillar | · | | | |
| | Beet Armyworm* | 0.03 - 0.05 | 5.8 - 9.6 | 22 - 13 |] . |
| 1 | Cutworms Granulate Cutworm | | | | |
| | Grasshoppers | | | | ļ |
| | Fall Armyworm* | 0.05 | 9.6 | 13 | i |
| • | Lesser Cornstalk Borer** *Aids in control. For heavy infestations to | ice of DuPont TM I AN | NATE® insecticide i | <u> </u> | 1 |
| | recommended. Please refer to the LANN | ATE® label for use in | structions. | | |
| | **Aids in control. Do not feed or graze livestock on treated | vines . | • | | |
| | Do not apply more than 0.15 lb a.i. per ac | | | | |
| Sorghum (Grain) | Sorghum Midge | 0.015 - 0.03 | 2.9 - 5.8 | 44 - 22 | 21 |
| (except CA) | Black Cutworm Chinch Bugs | 0.03 - 0.05 | 5.8 - 9.6 | 22 - 13 | |
| | Corn Earworm (headworm) | | | · | ļ |
| | Cutworms | <u> </u> | <u>[</u> | <u> </u> | [|
| * | Do not apply more than 0.15 lb a.i. per ac When applying in nonvolatile vegetable of | re per season. | hime of Lor more at | ner acre | 1 |
| | Black Cutworm - ASANA® XL may be | applied at 3.2 - 9.6 fl (| oz/acre (0.0165 - 0.05 | i lb ai/acre) | |
| | for the control of black cutworm when ap Chinch Bug Control - For optimum resu | plied at planting of sor | ghum. | | |
| Soybean | Green Cloverworm | 0.015 - 0.03 | 2.9 - 5.8 | 44 - 22 | 21 |
| | Mexican Bean Beetle | |] | 1 | |
| | Potato Leafhopper Saltmarsh Caterpillar | | ļ | | |
| | Velvetbean Caterpillar | , | | | |
| | Woollybear Caterpillar | 0.02 0.05 | 5.8 - 9.6 | 22 - 13 | |
| • | Bean Leaf Beetle Beet Armyworm* | 0.03 - 0.05 | 3.8 - 9.0 | 22 - 13 | İ |
| | Cabbage Looper | | | | |
| | Corn Earworm Cutworms | | , | | |
| | Grasshoppers | | | | |
| • | Green Stink Bug (except CA) Japanese Beetle (adult) | | | | ŀ |
| | Southern Green Stink Bug | | İ | | • |
| | Soybean Aphid (except CA). Three-cornered Alfalfa Hopper | | | | |
| | Grasshopper - For control of first and se | cond instar grasshopp | er nymphal stages a r | ate range | · |
| | of 3.9 to 5.8 fluid ounces of product per a | cre (0.02 - 0.03 lb ai// | A) can be used. Corre | ct timing | |
| | of spray applications to the first and second critical to achieve optimum control. For s | nd instar nymphal stag grasshonner nymph sta | es and thorough coveres larger than secon | erage is id instar. | |
| | use ASANA® XL at use rates of 5.8 to 9 | 6 fluid ounces of prod | uct per acre (0.03 - 0 | .05 lb | |
| | ai/A). Soybean Aphid - ASANA® XL provide | e control of soubean at | nhid however under | certain conditions | , |
| | such as rapid applied population growth of | extremely high nobul | ations, a tank mixture | e may be considered | |
| • | ASANA® XL can be tank mixed with out "Lorsban") or methomyl (e.g. DuPont™ | her insecticides such a LANNATERN to achie | s chlorpyrifos (e.g. eve rapid knockdown | of souhean aphid | |
| | Because LANNATE® is a fast acting cor | ntact insecticide, best r | esults follow direct s | praying of the target | į |
| | insect. When preparing a tank mixture, re mixture regarding restrictions, requireme | ad and follow the labe | I instructions for all | products in the | |
| | uniform coverage. For aerial application | use a minimum of 2 ga | illons per acre, and for | or ground application | <u> </u> |
| • | use a minimum of 10 gallons per acre. | | | • | |
| | *Aids in control. When applying in nonvolatile vegetable of | oils, use a total spray v | olume of at least 1 gt | | |
| | Do not feed or graze livestock on treated | fields. | · | • | , |
| San Parks | Do not apply more than 0.2 lb ai per acre | | 60.06 | 22 12 | |
| Sugar Beets | Beet Armyworm* Beet Webworm | 0.03 - 0.05 | 5.8 - 9.6 | 22 - 13 | . 21 |
| | Cabbage Looper | | * | | • |
| | Cutworms Flea Beetle (except CA) | • | | | |
| • | Grasshoppers | | | | |
| | Leafhoppers | | · | | |
| * | Saltmarsh Caterpillar Sugar beet Root Maggot (adult) | | 1 | | |
| | (except CA) | | L <u></u> | L | |
| | Grasshopper - For control of first and se | cond instar grasshoppe | er nymphal stages a r | ate range of 3.9 to 5.8 | |
| | Duid ounger of product and come (PA) | יש או וואט נאועה עו כע | a. Confect timing of s | pray approcauous to | |
| | fluid ounces of product per acre (0.02 - 0. the first and second instar nymphal stages | and thorough coverage | | | |
| | the first and second instar nymphal stages For grasshopper nymph stages larger than | and thorough coverage second instar, use AS | | | |
| | the first and second instar nymphal stages For grasshopper nymph stages larger than ounces of product per acre (0.03 - 0.05 lb | and thorough coverage second instar, use AS | | | |
| | the first and second instar nymphal stages For grasshopper nymph stages larger than | and thorough coverage second instar, use AS ai/A). r season. | ANA® XL at use rai | tes of 5.8 to 9.6 fluid | |

SPECIFIC USES—FIELD CROPS (cont'd)

| , | | | App | lication | Rate | J | Acres treated per | Last Applic | ation |
|-------------------------|---|---|---|---|------------------------------------|--|--|-------------|-------|
| Crop | Insect | | lb ai/acre | | Пo | z/acre | gal of DuPont™ ASANA® XL | (days to | |
| Sugar Beets At Plant | Cutworm | : | 0.0023 lbs. a.i. per 1000 feet of row |) | per feet | fl. oz. r 1000 of row | | 21 | • |
| | Apply as an in-furrow, T-bandetermine the pounds active is 1000 feet of row for various r In-Furrow Applications: Apply openers and in front of the pre Banded Applications: Apply the furrow openers and the pre Apply a minimum spray voludo not exceed 0.05 lbs. a.i. pto not apply more than 0.25 applications of ASANA® XL | ngredient and ow spacings. ly into the se ess wheel. at planting as ess wheels of the of 3 gallo er acre per se pounds activi | d fluid ounces of ed furrow through a 4-7 inch T-bar as a band applions per acre. ason as an at-pli | f ASAN gh spray and spra ication b ant appl | A® XL nozzle yed acre behind to | applied at (s, behind the oss the open he press whe | D.0023 lbs. a.i. per e planter furrow seed furrow between eel. | | |
| | Row Spacing (inches) Linear Ft/A ASANA® XL Lbs.ai/A ASANA® XL Fl oz/A | 40" 13,068 0.03 5.8 | 38" 13,756 0.032 6.2 | 36 14,5 0.0 6. | 520 33 | 30" 17,424 0.04 7.8 | 22" 23,760 0.05 9.6 | | |
| Sugarcane | Sugarcane Borer | | 0.03 - 0.05 | | 5.8 | 3 - 9.6 | 22 - 13 | 21 | |
| | Do not apply more than 0.2 lb | ailacre per s | eason. | | | | | | ., |
| Sunflower | Sunflower Beetle (except CA | k) | 0.0075 - 0.03 | 3 | 1.43 | 5 - 5.8 | 88 - 22 | 28 | |
| | Banded Sunflower Moth Beet Armyworm* Cutworms Grasshoppers Heliothis (complex) Leafhoppers | | 0.03 - 0.05 | | 5.8 | 9.6 | 22 - 13 | | |
| | Sunflower Maggot Sunflower Moth Sunflower Seed Weevil Sunflower Stem Weevil | | · · · · · · · · · · · · · · · · · · · | | | | |) | |
| | Grasshopper - For control of 5.8 fluid ounces of product pe to the first and second instar n For grasshopper nymph stages ounces of product per acre (0. *Aids in control. Do not apply more than 0.2 lb | r acre (0.02 - ymphal stag : larger than : 03 - 0.05 lb a | 0.03 lb ai/A) cress and thorough second instar, usi/A). | an be us coveras | ed. Con | rect timing o | of spray applications | | |

SPECIFIC USES—FRUITS

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

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

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

| | | | pplication Ra | | Acres | Last |
|--------|--|--|--|--|---|-------------|
| | | Concentra | | Dilute Spray | treated per gal | Application |
| _ | | lb ai | fi oz | ff oz | of DuPont™ | (days to |
| Crop | Insect | /acre | /acre | /100 gal | ASANA® XL | harvest) |
| Apples | Apple Aphid | 0.025 - 0.075 | 4.8 - 14.5 | 2.0 - 5.8 | 26 - 9 | 21 |
| | Apple Maggot | } | ì | | | |
| | Codling Moth | | ĺ | | | |
| | Green Fruitworm | ! | ł | ì | } . | |
| | Lesser Appleworm | ł | 1 | 1 | | 1 . |
| • | Mullein Plant Bug (except CA) | } | 1 | · ' | |] i |
| | Oblique Banded Leafroller | | | | , | } |
| | Oriental Fruit Moth Periodical Cicada | , | | İ | * | |
| | Plant Bugs | ! | l | ľ | | |
| | (Tarnished Plant Bug, Stink | , | | | | |
| | Bugs) | | | \ | | , |
| | Plum Curculio | ì | l | <i>i</i> . | ł · | { . |
| | Red - Banded Leafroller | | 1 | | · · | 1 |
| | Rosy Apple Aphid | | | l . | | 1 |
| | San Jose Scale | | 1 | l ' | | |
| | (fruit infestations only) | · | I | l ' | 1 | |
| | Tentiform Leaf Miner | | l . | |] | 1 |
| | Tufted Apple Bud Moth | | | | | 1 |
| • | Variegated Leafroller | | . . | ł | i | |
| | White Apple Leafhopper | | | , | | |
| | Apple Ermine Moth | | | 3.0 | | 1 |
| | (ID, OR & WA only) | İ | |] | | |
| | | 0.04 - 0.075 | 8.0 - 14.5 | | 16-9 | i |
| | Tufted Apple Bud Moth | 0.04 - 0.073 | . 9.0 - 14.3 | | 10-9 | 1 |
| | | | | | | |
| | (Overwintering) | |) | | • |) . |
| | (MD, NC, NJ, PA, VA, WV only) | |) | | | · . |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated | orchard floors. | 4:1-1- | 200 600 50 |) a |) . |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per | acre per season. F | or dilute spray | apply 200 - 600 ga | ls |) . |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 | fl. oz. of ASANAC | D XL per acre p | per treatment. | |) . |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine MothApply with 2 to 4 | acre per season. F fl. oz. of ASANAC gallons of superior | B XL per acre p spray oil in 10 | per treatment. O gallons of water | in a |) . |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine MothApply with 2 to 4 spray-to-wet application to insure thorough | acre per season. F fl. oz. of ASANAC gallons of superior | B XL per acre p spray oil in 10 | per treatment. O gallons of water | in a |) |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth-Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. | acre per season. F fl. oz. of ASANAC gallons of superior th coverage of all s | B XL per acre per spray oil in 10 stems and brance | per treatment. O gallons of water ches where Apple E | in a crmine |) |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth—Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do no | acre per season. F fl. oz. of ASANAO gallons of superior th coverage of all s of treat bundled pla | B XL per acre page of the spray oil in 10 stems and brance it is d | per treatment. O gallons of water ches where Apple E | in a crmine |) |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine MothApply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do no coverage application which could result in | acre per season. F fl. oz. of ASANAC gallons of superior th coverage of all s of treat bundled plant less than complet | B XL per acre party oil in 10 stems and brance it is descention. | per treatment. O gallons of water ches where Apple E ifficult to achieve a | in a Ermine a full |) |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated. Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5. Apple Ermine Moth—Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do no coverage application which could result in Make first application in the fall after 90% Make a second application 7 to 14 days Is | acre per season. F fl. oz. of ASANAC gallons of superior gh coverage of all s ot treat bundled pla n less than complet & of leaf fall has of letr. | XL per acre property oil in 10 tems and brance it is decontrol, courred—usually | per treatment. O gallons of water ches where Apple E ifficult to achieve a ly after October 15 | in a Ermine a full |) |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated. Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5. Apple Ermine Moth—Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do no coverage application which could result in Make first application in the fall after 90% Make a second application 7 to 14 days Is | acre per season. F fl. oz. of ASANAC gallons of superior gh coverage of all s ot treat bundled pla n less than complet & of leaf fall has of letr. | XL per acre property oil in 10 tems and brance it is decontrol, courred—usually | per treatment. O gallons of water ches where Apple E ifficult to achieve a ly after October 15 | in a Ermine a full | |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine MothApply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do no coverage application which could result in Make first application in the fall after 90%. | acre per season. F fl. oz. of ASANAG gallons of superior gh coverage of all s ot treat bundled pla n less than complet % of leaf fall has of the control of the control til approximately 3 | SXL per acre property oil in 10 stems and brance it is due control. curred—usuall 0 days after appropriate the control of the | oer treatment. O gallons of water ches where Apple E ifficult to achieve a ly after October 15 plication. | in a Crmine a full | , |
| ; | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth-Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do no coverage application which could result in Make first application in the fall after 906 Make a second application 7 to 14 days la Note: Overwintering larvae do not die uni | acre per season. F fl. oz. of ASANAG gallons of superior th coverage of all s of treat bundled pla n less than complet & of leaf fall has of atter. til approximately 3 -Time of application | XL per acre particles spray oil in 10 items and brance nts since it is due control. ccurred—usuall days after appen is critical in | oer treatment. O gallons of water thes where Apple E ifficult to achieve a ly after October 15 plication. achieving control. | in a Crmine a full | |
| | (MD, NC, NJ, FA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth—Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do no coverage application which could result in Make first application in the fall after 90% Make a second application 7 to 14 days Is Note: Overwintering larvae do not die um Plant Bug, Rosy Apple Aphid Control- prebloom and post bloom spray timings re Tufted Apple Bud Moth (overwintering) | acre per season. F fl. oz. of ASANAC gallons of superior gh coverage of all s ot treat bundled pla n less than complet % of leaf fall has of ater. til approximately 3 -Time of application ecommended by St 2)For use on appl | B XL per acre; spray oil in 10 stems and branch the since it is due control. courred—usuall 0 days after appoints critical in the control that is critical in the control of the control o | per treatment. O gallons of water ches where Apple E ifficult to achieve a ly after October 15 plication. achieving control. Services. | in a Crmine a full Use larvae |) |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated. Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth-Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do not coverage application which could result in Make first application in the fall after 909. Make a second application 7 to 14 days la Note: Overwintering larvae do not die uni Plant Bug, Rosy Apple Aphid Control-prebloom and post bloom spray timings r | acre per season. F fl. oz. of ASANAC gallons of superior gh coverage of all s ot treat bundled pla n less than complet % of leaf fall has of ater. til approximately 3 -Time of application ecommended by St 2)For use on appl | B XL per acre; spray oil in 10 stems and branch the since it is due control. courred—usuall 0 days after appoints critical in the control that is critical in the control of the control o | per treatment. O gallons of water ches where Apple E ifficult to achieve a ly after October 15 plication. achieving control. Services. | in a Crmine a full Use larvae | , |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine MothApply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do no coverage application which could result in Make first application in the fall after 90% Make a second application 7 to 14 days la Note: Overwintering larvae do not die um Plant Bug, Rosy Apple Aphid Control-prebloom and post bloom spray timings rufted Apple Bud Moth (overwintering of the uffed apple bud moth with directed application of ASANA® XL at either pin | acre per season. F fl. oz. of ASANAG gallons of superior gh coverage of all s of treat bundled plan less than complet & of leaf fall has of titer. Uil approximately 3 -Time of application ecommended by St 3)For use on appl d ground application k stage of apple of | SXL per acre; spray oil in 10 teems and branc it is do to control. courred—usuall 0 days after appendix Extension to the apple of at petal fall sta | oer treatment. O gallons of water thes where Apple E ifficult to achieve a ly after October 15 plication. achieving control. Services. of overwintering orchard floor. Make ge of apple. | in a critine a full Use larvae e one | , |
| • | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth—Apply with 2 to 4 spray-to-wet application to insure thorous Moth hibernacula are found. When using on apple nursery stock, do no coverage application which could result in Make first application in the fall after 905 Make a second application 7 to 14 days ls Note: Overwintering larvae do not die un Plant Bug, Rosy Apple Aphid Control- prebloom and post bloom spray timings. Tufted Apple Bud Moth (overwintering of the tufted apple bud moth with directer application of ASANA® XL at either pin Use the lower rate on small larvae (pink s | acre per season. F fl. oz. of ASANAC gallons of superior gh coverage of all s of treat bundled plan less than complet 6 of leaf fall has on tter. til approximately 3. "Time of application commended by St 2)For use on appl ground application & stage of apple on tage of apple) and | B XL per acre; spray oil in 10 items and branc ints since it is due control. curred—usuall 0 days after apping a for the control in the apple c at petal fall stator on lower poil | per treatment. O gallons of water ches where Apple E ifficult to achieve a ly after October 15 plication. achieving control. Services. Of overwintering orchard floor. Make ge of apple. pulations. Use the | in a critine a full Use larvae e one | , |
| | (MD, NC, NJ, FA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth—Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do no coverage application which could result in Make first application in the fall after 90% Make a second application 7 to 14 days ls. Note: Overwintering larvae do not die um Plant Bug, Rosy Apple Aphid Control— prebloom and post bloom spray timings in Tufted Apple Bud Moth (overwintering of the tufted apple bud moth with directed application of ASANA® XL at either pin Use the lower rate on small larvae (pink s rate on larger larvae (petal fall stage of ap | acre per season. F fl. oz. of ASANAG gallons of superior gh coverage of all s ot treat bundled plantless than complet & of leaf fall has on the commended by St commended by S | B XL per acre; spray oil in 10 stems and brance it is due control. ccurred—usuall 0 days after appear is critical in a tate Extension; e for the control at petal fall is or on lower polerate to high p | per treatment. O gallons of water ches where Apple E ifficult to achieve a ly after October 15 plication. achieving control. Services. ol of overwintering orchard floor. Make ge of apple. pulations. Use the opulations. | in a crmine a full Use larvae e one higher | , |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth-Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do no coverage application which could result in Make first application in the fall after 90% Make a second application 7 to 14 days la Note: Overwintering larvae do not die uni Plant Bug, Rosy Apple Aphid Control-preblööm and post bloom spray timings in Tufted Apple Bud Moth (overwintering of the tufted apple bud moth with directed application of ASANA® XL at either pin Use the lower rate on small larvae (pink strate on larger larvae (petal fall stage of ap Apply specified dosage per acre to the ore | acre per season. F fl. oz. of ASANAG gallons of superior gh coverage of all s of treat bundled plan less than complet & of leaf fall has of alter. uit approximately 3. Time of application ecommended by St 2)For use on appl i ground application k stage of apple or tage of apple on tage of apple on tage ple) and/or on moethard floor in no le | syray oil in 10 spray oil in 10 spray oil in 10 teems and brand nts since it is die control. curred—usuall 0 days after appure is critical in a sate Extension of the control to the apple of at petal fall sta or on lower poles than 30 gals than 30 gals | oer treatment. O gallons of water thes where Apple E ifficult to achieve a ly after October 15 plication. achieving control. Services. of overwintering orchard floor. Make ge of apple. pulations. Use the opulations. of water per acre b | in a crimine a full Use larvae e one higher | , |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated. Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth-Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do not coverage application which could result in Make first application in the fall after 909 Make a second application 7 to 14 days la Note: Overwintering larvae do not die um Plant Bug, Rosy Apple Aphid Control-preblösom and post bloom spray timingsr. Tufted Apple Bud Moth (overwintering of the tufted apple bud moth with directed application of ASANA® XL at either pin Use the lower rate on small larvae (pink s rate on larger larvae (petal fall stage of ap Apply specified dosage per acre to the ore ground to obtain uniform coverage. Apply | acre per season. F fl. oz. of ASANAG gallons of superior gh coverage of all so of treat bundled plan less than complete 6 of leaf fall has of titer. Lill approximately 3 Time of application ecommended by St 2)For use on appl of ground application k stage of apple on tage of apple) and/ ple) and/or on mote chard floor in no le y treatment in a bar | SXL per acre; spray oil in 10 teems and branc ints since it is due control. courred—usuall 0 days after appendix Extension is critical in a tate Extension is efor the control to the apple of at petal fall state or on lower polerate to high ps than 30 gals and from trunk to the spray of the state of the spray of the state of the spray of the state of the spray of the state of the spray of the state of the spray of the state of the spray of the state of the spray of the state of the spray of the | oer treatment. O gallons of water thes where Apple E ifficult to achieve a ly after October 15 plication. achieving control. Services. of overwintering orchard floor. Make ge of apple. pulations. Use the opulations. of water per acre b | in a crimine a full Use larvae e one higher | |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth—Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do not coverage application which could result in Make first application in the fall after 90.9 Make a second application 7 to 14 days Is Note: Overwintering larvae do not die um Plant Bug, Rosy Apple Aphid Control— prebloom and post bloom spray timings re Tufted Apple Bud Moth (overwintering of the tufted apple bud moth with directed application of ASANA® XL at either pin Use the lower rate on small larvae (pink s rate on larger larvae (petal fall stage of ap Apply specified dosage per acre to the or ground to obtain uniform coverage. Apply coverage of areas where overwintering u | acre per season. F fl. oz. of ASANAG gallons of superior gh coverage of all s ot treat bundled pla n less than complet & of leaf fall has or iter. iii approximately 3. Time of applicatic ecommended-by-St 2)For use on appl ground applicatio k stage of apple or tage of apple or tage of apple) and/ ple) and/or on mochard floor in no ley treatment in a bar fted apple bud mot | B XL per acre; spray oil in 10 items and brand nuts since it is due control. curred—usuall 0 days after apposite for the control at petal fall state or on lower polerate to high ps than 30 gals and from trunk ut hare found. | oer treatment. O gallons of water ches where Apple E ifficult to achieve a ly after October 15 plication. achieving control. Services. ol of overwintering orchard floor. Make ge of apple. pulations. Use the opulations. of water per acre b o drip line to allow | in a crimine a full Use larvae e one higher | |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated. Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth—Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do not coverage application which could result it Make first application in the fall after 90% Make a second application 7 to 14 days la Note: Overwintering larvae do not die unit Plant Bug, Rosy Apple Aphid Control-prebloom and post bloom spray timings in Tufted Apple Bud Moth (overwintering of the tufted apple bud moth with directed application of ASANA® XL at either pin Use the lower rate on small larvae (pink s rate on larger larvae (petal fall stage of a Apply specified dosage per acre to the ore ground to obtain uniform coverage. Apply coverage of areas where overwintering to Beneficial Insects: Application of ASAN. | acre per season. F fl. oz. of ASANAG gallons of superior gh coverage of all s ot treat bundled pla n less than complet & of leaf fall has of the superior of application to the superior of application ecommended by St g)For use on appl ground application k stage of apple or tage of apple or tage of apple on and/ phe) and/or on mon thard floor in no let y treatment in a bat fled apple bud mot tA@XL to the gro | BXL per acre; spray oil in 10 teems and branc ints since it is due control. courred—usuall 0 days after appen is critical in a creater in the control to the apple of at petal fall state or on lower poil berate to high pss than 30 gals and from trunk to hare found, undcover at the undcover at the | oer treatment. O gallons of water thes where Apple E ifficult to achieve a ly after October 15 plication. achieving control. Services. ol of overwintering orchard floor. Make ge of apple. pulations. Use the opulations. of water per acre to o drip line to allow | in a crimine in full Use larvae cone higher |) |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated. Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth-Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do not coverage application which could result in Make first application in the fall after 905 Make a second application 7 to 14 days Is Note: Overwintering larvae do not die un Plant Bug, Rosy Apple Aphid Control-prebloom and post bloom spray timingsr. Tufted Apple Bud Moth (overwintering of the tufted apple bud moth with directed application of ASANA® XL at either pin Use the lower rate on small larvae (pink s rate on larger larvae (petal fall stage of ap Apply specified dosage per acre to the ore ground to obtain uniform coverage. Apply coverage of areas where overwintering to Beneficial Insects: Application of ASAN pink stage of apple development may be t | acre per season. F fl. oz. of ASANAG gallons of superior gh coverage of all s ot treat bundled pla n less than complet 6 of leaf fall has of nter. itil approximately 3 Time of application ecommended by Si y-For use on appl d ground application k stage of apple on tage of apple and/ ple) and/or on more chard floor in no le the treatment in a bar fied apple bud mot AM® XL to the gro oxic to overwinter. | SXL per acre; spray oil in 10 teems and branc nts since it is die control. courred—usuall 0 days after appendix Extension to the apple of at petal fall sta or on lower polerate to high ss than 30 gals and from trunk uh are found. undcover at the ing Stethorus p. | oer treatment. O gallons of water thes where Apple E ifficult to achieve a ly after October 15 plication. achieving control. Services. ol of overwintering orchard floor. Make age of apple. pulations. Use the opulations. Use the of water per acre b of water per acre b o drip line to allow """ unctum, S. punctum | in a crimine a full Use larvae e one higher | |
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| | (MD, NC, NJ, FA, VA, WV only) Do not feed or graze livestock on treated. Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth—Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do not coverage application which could result in Make first application in the fall after 90% Make a second application 7 to 14 days la Note: Overwintering larvae do not die um Plant Bug, Rosy Apple Aphid Control-prebloom and post bloom spray timings in Tufted Apple Bud Moth (overwintering of the tufted apple bud moth with directed application of ASANA® XL at either pin Use the lower rate on small larvae (pink state on larger larvae (petal fall stage of ap Apply specified dosage per acre to the orground to obtain uniform coverage. Apply specified dosage per acre to the orground to obtain uniform coverage. Apply specified dosage per acre to the coverage of areas where overwintering to Beneficial Insects: Application of ASAN pink stage of apple development may be to coccinellid insect and the major predator of growing areas. This predator overwinters | acre per season. F. fl. oz. of ASANAG gallons of superior gallons | BXL per acre; spray oil in 10 teems and branc ints since it is due control. curred—usuall 0 days after appen is critical in a care-Extension-Cat petal fall stator on lower polerate to high pss than 30 gals different trunk the are found, undcover at the ting Stethorus p. the MD, NC, N. of the orchard go the control of the orchard go. | oer treatment. O gallons of water thes where Apple E ifficult to achieve a ly after October 15 plication. achieving control. Services. Jol of overwintering orchard floor. Make ge of apple. pulations. Use the opulations. of water per acre b o drip line to allow unctum. S. punctum l, PA, VA and WV roundcover as the t | in a crimine a full Use larvae cone higher by fruit suffed | |
| | (MD, NC, NJ, PA, VA, WV only) Do not feed or graze livestock on treated Do not apply more than 0.525 lbs. a.i. per per acre, but do not apply more than 14.5 Apple Ermine Moth—Apply with 2 to 4 spray-to-wet application to insure thoroug Moth hibernacula are found. When using on apple nursery stock, do no coverage application which could result in Make first application in the fall after 909 Make a second application 7 to 14 days la Note: Overwintering larvae do not die um Plant Bug, Rosy Apple Aphid Control- prebloom and post bloom spray timings in Tufted Apple Bud Moth (overwintering) of the tufted apple bud moth with directed application of ASANA® XL at either pin Use the lower rate on small larvae (pink s rate on larger larvae (petal fall stage of ap Apply specified dosage per acre to the or ground to obtain uniform coverage. Apply coverage of areas where overwintering tu Beneficial Insects: Application of ASAN pink stage of apple development may be t coccinellid insect and the major predator growing areas. This predator overwinters apple bud moth and moves into apple tree | acre per season. F. fl. oz. of ASANAG gallons of superior gh coverage of all stot treat bundled plant less than complet 6 of leaf fall has on the commended by Styler of leaf fall has on the commended by Styler of application of the commended by Styler or use on application of the commended by Styler of application of the commended by Styler of application of the commended by Styler of application of the commended by Styler of application of the commended by Styler of application of the commended by Styler of application of the commended by Styler of application of the commended by Styler of application of the commended by Styler of the commended by Styler of the commended by Styler of the commended by Styler of the commended by Styler of the commended by Styler of the commended by Styler of the commended by Styler of Styler | BXL per acre; spray oil in 10 teems and branc its since it is die control. curred—usuall of days after appendix curred—usuall of days after appendix critical in a croit call in the control of the control to the apple of at petal fall state or on lower popels than 30 gals and from trunk to have found, undcover at the lang Stethorus pine MD, NC, NI, of the orchard ghrough mid-Maren spray of the state of the | oer treatment. O gallons of water thes where Apple E ifficult to achieve a ly after October 15 plication. achieving control. Services. old of overwintering orchard floor. Make ge of apple. pulations. Use the opulations. of water per acre to o drip line to allow the service of | in a crimine in full Use larvae e one higher ry ris a fruit turited daily | , |
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SPECIFIC USES—FRUITS (cont'd)

| | | A | pplication Rat | e · | Acres | Last |
|--|--|--|--|---|--|----------------------|
| | : | Concentrat | e Spray | Dilute Spray | treated per gal | Application |
| C | 1 | lb ai | fl oz /acre | 11 oz /100 gal | of DuPont™ ASANA® XL | (days to harvest) |
| Crop | Insect | /acre | | /100 gai | | |
| Blueberry (except CA) | Aphids (NJ only) Blueberry Spanworm Cherry Fruitworm* Cranberry Weevil* Grasshoppers Japanese Beetle Leafnoppers | 0.025 - 0.05 | 4.8 - 9.6 | | 26 - 13 | 14 |
| | Red Striped Fireworm* Blueberry Maggot Black Vine Weevil (adult control) Strawberry Root Weevil (adult control) (OR, WA only) | 0.05 | 9:6 | | 13 | |
| | *Aids in control. Do not apply more than 0.2 lb ai/acre per Use of ground application is recommende per acre. Do not apply this product through any typ Note: ASANA® XL can act as a bee rept a pre-bloom or post-bloom spray only. Black vine weevil & strawberry root w notching beginning in late May to early I adults on or just below the soil surface an three weeks of first sign of infestation. De gallons of water per acre. Direct spray to of plants. Best results are from application weevils are actively feeding. Root weevil applications when signs of new feeding a | ed; for ground apply be of irrigation systellent, do not apply eevil (adult controune as the first siground the base of ploton on apply by air; provide full coverans made after dark s emerge over a se | ication use a mi tem. within 7 days of the color of weevil feed ants. Apply AS apply by ground gee of foliage ar when temperature. | of pollination. App of pollination. App aly): Look for leaf ing. Also check fo ANA® XL within d using a minimun d soil area around ures are warm and | water bly as or two to n of 50 I base | |
| Caneberries (blackberries, boysenberries, | Aphids Oblique Banded Leafroller Orange Tortrix | 0.025 - 0.05 | 4.8 - 9.6 | | 26 - 13 | 7 |
| dewberries, loganberries, | Adult Root Weevils* (OR & WA only) | 0.05 | 9.6 | | 13 | |
| raspberries, youngberries, and varieties of these) (except CA) | *Aids in control. Do not apply by air. Do not apply more than 0.15 lb ai per acr. Do not apply this product through any ty NOTE: ASANA® XL can act as a bee re; as a pre-bloom or post-bloom spray only. bees, apply ASANA® XL in the evening Adult Root Weevils (OR & WA only): as the first sign of weevil feeding. Also cl base of plants. Apply ASANA® XL with a minimum of 50 gallons of water per acr foliage and the soil area around the base of dark when temperatures are warm and we peniod of several weeks; make subsequen Oblique Banded Leafroller Orange To minimum of 50 gallons of water with gro harvest and no later than 7 days before ha | be of irrigation syst pellent, do not appl pellent, do not appl after sunset. Look for leaf notch beck for adults on the two to three were. Direct spray to post the plant. Best received are actively for the proposition of the proposition of the proposition of the proposition of the proposition of the plant. Best received are actively for the plant are actively for the proposition of the pro | ly within 7 days r to application. aing beginning it or just below the cks of infestation rovide thorough rovide thorough sults are from a reding. Root who signs of new f Apply as a full y. Apply no ear | For maximum sal n late May to early e soil surface aroun. Apply by groun h coverage of all p peplications made eevils emerge over eeding appear in coverage spray in | y June nd the d using slant after r a a eefore | |
| Kiwifruit | Boxelder Bug (suppression only) Spray in sufficient water for thorough cov (total of 0.35 lb ai/acre/season) with a mir | 0.05 verage. A maximum nimum of 7 days be | 9.6 n of 7 application etween treatmen | ons is allowed per | 13 season | 14 |
| Pear | Codling Moth Green Fruitworm Leafrollers Pear Psylla Pear Slug Periodical Cicada Plum Curculio | 0.025 - 0.075 | 4.8 - 14.5 | 2.0 - 5.8 | 26 - 9 | 28 |
| · | Do not apply more than 0.375 lbs. a.i. per Do not apply more than 0.225 lb. a.i. per livestock on treated orchard floors. For di more than 14.5 fl. oz. of ASANA® XL per | acre between bloor lute spray apply 20 | 10 - 600 gals pei | | | |
| 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 (white acre per season. Do not graze orchard floo not apply more than 19.2 fl. oz. of ASAN | or. For dilute spray | apply 150 - 250 | ore than 0.2 lb a.i. O gals per acre, but | per t do | |

SPECIFIC USES—FRUITS (cont'd)

| | | | pplication Rat | | Acres | Last |
|--------------|--|----------------------|---------------------|--------------------|-------------------------|-------------------|
| | | Concentra | | Dilute Spray | i treated per gal | Application |
| Crop . | Insect | lb ai /acre | fl oz /acre | fl oz /100 gal | of DuPont™ ASANA® XL | (days to harvest) |
| Stone | American Plum Borer | 0.025 - 0.075 | 4.8 - 14.5 | 2.0 - 5.8 | 26 - 9 | 14 |
| Fruits | Black Cherry Aphid | 0.025 • 0.075 | 7.0 - 14.5 | 2.0 - 5.0 | 20 | 17 . |
| | | | | | | |
| (including | Cherry Fruit Fly | | | İ | | l |
| apricots, | Green Fruitworm | | | | | 1 |
| cherries, | Leafhoppers | , | | | į | } |
| nectarines, | Leafrollers | | | } | | |
| peaches, | Lesser Peach Tree Borer | | | | | |
| plums, | Oriental Fruit Moth | · · | • | | , | i . |
| prune plums) | Peach Tree Borer | · | | | • | |
| | Peach Twig Borer | | | | | |
| | Periodical Cicada | | | | | i . |
| • | Plant Bugs | | | | , | |
| | (Tarnished Plant Bug, Stink | | | | , | |
| | Bugs) | , | | | | , |
| | Plum Curculio | • | | į. | | 1 |
| | Western Cherry Fruit Fly | | | | | |
| • | Peach Twig Borer (Dormant) | 0.04 - 0.075 | 8.0 - 14.5 | 3.1 - 5.8 | 16 - 9 | 1 |
| | | 0.04 - 0.073 | 0.0 - 14.5 | 3.1 - 3.0 | 10-9 | |
| | (CA only) | | | | | -{ |
| | Tufted Apple Bud Moth | 0.04 - 0.075 | 8.0 - 14.5 | | 16 - 9 | |
| | (overwintering) | | | | ļ | ` ` |
| | (Peach only) | | 2 | | | |
| | (MD, NC, NJ, PA, VA and WV | | , | 1 |] | |
| | only) | | | 1 | L | |
| | Do not apply more than 0.375 lbs a.i. per | acre per season w | ith no more than | 0.3 lbs. a.i. | | 1 |
| | per acre per season between bloom and hi | | | | | |
| • | 200 - 400 gals per acre, but do not apply i | more than 14.5 fl | oz of ASANA® | XI per acre per | | |
| | treatment. Do not graze livestock on treat | ed orchard floors | 02 01 712711 110 | The pot dotte pot | | |
| | Peach Tree Borer, American Plum Bor | or I accor Peach | Trop. Rover Co. | ntral - Apply as d | lirected | ' |
| | trunk and scaffold limb spray. Thorough | er, Desser reach | and coeffold lim | he is required | in colou | 1 . |
| | Danah Truic Pages (Dormont) Make an | coverage or trunk | EDA registered | ios is required. | ecific. | |
| | Peach Twig Borer (Dormant)Make ap | plication with an . | ErA registered t | morniam on, for sp | Jechile | 1 |
| | recommendations on use of oil consult ma | anutacturer's labe | , For best perio | minance, ground | | |
| | application equipment is recommended. | ; | Observe Provide | El. Waster Ch. | | |
| | Peach Twig Borer, Plum Curculio, Ori | entai Fruit Moth | Cherry Fruit | riy, western Chi | erry | |
| | Fruit Fly, Leafrollers, Black Cherry Ap | onia, Periodical C | icada Control | - Apply by ground | 3 | |
| | sprayer to achieve thorough coverage of a | ul acrial portions o | n me tree. | 11 | | İ |
| | Plant Bug Control - Time of application | is cuncal in acme. | ing control. Use | prebloom and | | } |
| | postbloom spray timings recommended b | y State Extension | Services. | | • | |
| | Tufted Apple Bud Moth (overwintering | g)For use on pea | ch for the contro | of overwintering | g larvae | 1 |
| | of the tufted apple bud moth with directed | d ground application | on to the peach of | orchard floor. Mai | ce one | • |
| | application of ASANA® XL at either por | | | | | |
| | Use the lower rate on small larvae (popco | rn stage of peach) | and/or on lower | r populations. Use | the | j |
| | higher rate on larger larvae (shucksplit sta | age of peach) and/ | or on moderate t | to high population | ıs. | · * |
| • | Apply specified dosage per acre to the ord | chard floor in no le | ess than 30 gals | of water per acre | by ^r | ŀ |
| | ground to obtain uniform coverage. Apply | y treatment in a ba | nd from trunk to | drip line to allow | V | 1 |
| | coverage of areas where overwintering tu | | | | | |
| | Beneficial Insects: Application of ASAN | | | : | | ١. |
| | popcom stage of peach development may | | | | nctum | • |
| | is a coccinellid insect and the major preda | uor of enider mite | in the MD NO | NI PA VA and | wv | 1 |
| | is a coccinetion insect and the major preda | nor or spicer nate | rear of the orch | ard aroundcover | is the | 1 |
| | fruit growing areas. This predator overwing | mers in the same a | Leas Of the Office | aid Manuibas | w uit | 1 |
| | tufted apple bud moth and moves into pea | ich trees from mid | - April mrough f | iuu-way when mi | AMINUM . | 1 |
| | | ce from the group | acover is 40. I ()(| rzy complete by | | |
| | daily temperatures exceed 68°F. Emergen shucksplit. Shucksplit is the preferred time | | | | * . | į. |

SPECIFIC USES—TREE NUT CROPS

DILUTE SPRAY: Apply specified dosage per 100 gallons of water in a uniform spray appl: Do not exceed maximum number of gallons per acre indicated.

NOTE: In order to apply the correct amount of DuPontTM ASANA® XL insecticide to you needed to spray one acre of your trees to the point of drip. If you do not already know this ganot know how to conduct such a test with your equipment, you should ask for assistance from CONCENTRATE SPRAY: APPLY SPECIFIED DOSAGE PER ACRE IN NO LESS TFOR AERIAL APPLICATION IN TREE AND ORCHARD CROPS, USE A MINIML APPLYING ASANA® XL BY AIR, CONSULT YOUR COOPERATIVE EXTENSION SE

| | ·] | | Application |
|----------|---|--|-------------------------------|
| | | Concentra | |
| _ | | lb ai | fl oz |
| Crop | Insect | /acre | /acre |
| Almonds | Navel Orangeworm | 0.05 - 0.1 | 9.6 - 19.2 |
| | Peach Twig Borer | 1 | 1 |
| | Peach Twig Borer (Dormant) (CA only) | | |
| • | Do not apply more than 0.2 lb. a.i. per ac | re per season. | |
| | Do not graze livestock on treated orchard | | |
| | Peach Twig Borer (Dormant)Make a recommendations on use of oil consult mapplication equipment is recommended. | | |
| Filberts | '' | 1 005 01 | 9.6 - 19.2 |
| Filberts | Filbertworm Oblique Banded Leafroller | 0.05 - 0.1 | 9.0 - 19.2 |
| | Make first application after emergence of treatment earlier than three weeks after th For dilute spray, apply 200 - 400 gals. per ASANA® XL per acre per treatment. Do | first. Do not apply acre, but do not a | y more than (pply more th |
| Pecans | Hickory Shuckworm | 0.025 - 0.075 | 4.8 - 14.5 |
| | Pecan Aphids | | ł |
| | Pecan Nut Casebearer | | l · |
| | Pecan Leaf Phylloxera Pecan Spittlebug | | l |
| • | Pecan Stem Phylloxera | | |
| | Pecan Weevil | <u> </u> | <u> </u> |
| · | Do not feed or graze livestock on treated Do not apply more than 0.3 lbs. a.i. per a acre, but do not apply more than 14.5 ft. ASANA® XL may be tank-mixed with f | cre per season. For oz. of ASANA® > ungicides containi | L per acre p ng fentin hyd |
| | "Super Tin". Refer to the ASANA® XL | and fentin hydroxi | de (tripheny! |
| | rates of the individual products for control | olling the respective | e pests. |
| | Phylloxera - Correct timing of spray app and stem phylloxera. Consult local spray | recommendations | for correct t |
| Walnuts | Codling Moth | 0.05 - 0.1 | 9.6 - 19.2 |
| | Navel Örangeworm | | , |
| | Walnut Aphid | | 1 |
| | Walnut Husk Fly | <u>!</u> | L |
| | Do not apply more than 0.2 lb. a.i. per ac For dilute sprays, apply 200 - 400 gals per | re per season. | d or graze liv |
| | NOTE: Use of baits in Walnut Husk fly s | | |
| | Extension Service. | nays is recommen | aca where en |

SPECIFIC USES—VEGETABLE CROPS

| | | Application Rate | | Acres treated per gal of DuPont TM | Last Application |
|---|--|--|---|--|-------------------|
| Crop | Insect | lb ai/acre | fl oz/acre | ASANA® XL | (days to harvest) |
| Artichoke | Artichoke Plume Moth | 0.03 - 0.05 | 5.8 - 9.6 | 22 - 13 | 1 |
| | Do not apply more often than each 14 d between bud formation and harvest of a of 10 gallons per acre by air and 50 - 20 water to obtain coverage without excess | n individual fruit. Appl 0 gallons per acre by gr | y in a minimum | | |
| Beans, Dry (Including adzuki bean, | Leafhoppers (except CA) Mexican Bean Beetle Saltmarsh Caterpillar | 0.015 - 0.03 | . 2.9 - 5.8 | 44 - 22 | 21 |
| blackeyed pea, broad bean (dry), chickpea, cow pea, crowder pea, field bean, | Beet Armyworm* Cabbage Looper Corn Earworm Corn Rootworm (Adults) Cowpea Curculio | 0.03 - 0.05 | 5.8 - 9.6 | . 22 - 13 | |
| kidney bean, lima bean (dry), mung bean, navy bean, pinto bean, | Cucumber Beetle Cutworms Grasshoppers Green Cloverworm Leafhoppers | | | | , |
| southern pea, tepary bean) eas, Dry entils | Painted Lady Butterfly (larvae) Pea A phid Potato Leafhopper Soybean Aphid (except CA) | | | | |
| • | Velvetbean Caterpillar Western Bean Cutworm Pea Leaf Weevil | 0.025 - 0.05 | 4.8 - 9.6 | 26 - 13 | |
| | (ID, OR & WA only) Pea Weevil (ID, OR & WA only) *Aids in control. | | | | ٠. |
| | Pea Weevil & Pea Leaf Weevil (ID, O control of pea weevil. For optimum resu Once adult pea weevil populations reach be reduced. | its, apply at bloom pric | r to detecting adult p | ea weevils. | li |
| | Grasshopper - For control of first and s fluid ounces of product per acre (0.02 - 0 the first and second instar nymphal stage For grasshopper nymph stages larger that ounces of product per acre (0.03 - 0.05) | 0.03 lb ai/A) can be use es and thorough coverage in second instar, use AS | d. Correct timing of s ge is critical to achiev | pray applications to | |
| lso known as: | Grasshopper - For control of first and s fluid ounces of product per acre (0.02 - the first and second instar nymphal stage For grasshopper nymph stages larger tha ounces of product per acre (0.03 - 0.05 l Leafhoppers (except CA) Mexican Bean Beetle | 0.03 lb ai/A) can be use es and thorough coverage in second instar, use AS | d. Correct timing of s ge is critical to achiev | pray applications to | 3 |
| lso known as: (blue lake, bush, common, edible-podded, filet, flageolet, | Grasshopper - For control of first and s fluid ounces of product per acre (0.02 - 6 the first and second instar nymphal stage For grasshopper nymph stages larger tha ounces of product per acre (0.03 - 0.05 f Leafhoppers (except CA) Mexican Bean Beetle Saltmarsh Caterpillar Beet Armyworm* Cabbage Looper ' Corn Earworm | 0.03 lb ai/A) can be use es and thorough coverage in second instar, use AS b ai/A). | d. Correct timing of s ge is critical to achiev SANA® XL at use rai | pray applications to e optimum control. les of 5.8 to 9.6 fluid | 3 |
| Iso known as: blue lake, bush, common, cible, podded, flet, flageolet, French, French horti- ultural, frijoles comunes, garden, green, naricot, | Grasshopper - For control of first and s fluid ounces of product per acre (0.02 - 6 the first and second instar nymphal stage For grasshopper nymph stages larger tha ounces of product per acre (0.03 - 0.05 f Leafhoppers (except CA) Mexican Bean Beetle Saltmarsh Caterpillar Beet Armyworm* Cabbage Looper ' Coro Earworm Corn Rootworm (adults) Cucumber Beetle Cucumber Beetle Cucumber Beetle Cucumber Beetle Cucumber Beetle For Rootworn (adults) Cutworm (seedling spray) European Corn Borer Flea Beetle | 0.03 lb ai/A) can be uses and thorough coverage in second instar, use AS b ai/A). 0.015 - 0.03 | d. Correct timing of s ge is critical to achiev SANA® XL at use rat 2.9 - 5.8 | pray applications to e optimum control. les of 5.8 to 9.6 fluid | 3 |
| lso known as: (blue lake, bush, common, edible-podded, filet, flageolet, French, French horti- ultural, frijoles comunes, garden, green, haricot, haricot commun, Italian, judia comum, Kentucky wonder, magic, pole, | Grasshopper - For control of first and s fluid ounces of product per acre (0.02 - 6 the first and second instar nymphal stage For grasshopper nymph stages larger tha ounces of product per acre (0.03 - 0.05 f Leafhoppers (except CA) Mexican Bean Beetle Saltmarsh Caterpillar Beet Armyworm* Cabbage Looper ' Corn Earworm Corn Rootworm (adults) Cucumber Beetle Cucumber Beetle (adults) Cutworm (seedling spray) European Corn Borer Flea Beetle Grasshoppers Green Cloverworm Leafhopper Leafminer (Guam only) Pea Aphid Potato Leafhopper | 0.03 lb ai/A) can be uses and thorough coverage in second instar, use AS b ai/A). 0.015 - 0.03 | d. Correct timing of s ge is critical to achiev SANA® XL at use rat 2.9 - 5.8 | pray applications to e optimum control. les of 5.8 to 9.6 fluid | 3 |
| Iso known as: (blue lake, bush, common, edible-podded, filet, flageolet, Erench, French horti- ultural, frijoles comunes, garden, green, haricot commun, Italian, judia comum, Kentucky wonder, magic, pole, rouse, succulent, | Grasshopper - For control of first and s fluid ounces of product per acre (0.02 - 6 the first and second instar nymphal stage For grasshopper nymph stages larger tha ounces of product per acre (0.03 - 0.05 f Leafhoppers (except CA) Mexican Bean Beetle Saltmarsh Caterpillar Beet Armyworm* Cabbage Looper ' Corn Earworm Corn Rootworm (adults) Cucumber Beetle Cucumber Beetle Cucumber Beetle Cucumber Beetle Grasshoppers Green Cloverworm Leafhopper Leafminer (Guam only) Pea Aphid Potato Leafhopper Soybean Aphid (except CA) Velvet Bean Caterpillar Western Bean Cutworm *Aids in control. | 0.03 lb ai/A) can be use so and thorough coverage in second instar, use A5 b ai/A). 0.015 - 0.03 0.03 - 0.05 | d. Correct timing of s ge is critical to achiev SANA® XL at use rat 2.9 - 5.8 | pray applications to e optimum control. les of 5.8 to 9.6 fluid | 3 |
| lso known as: (blue lake, bush, common, edible-podded, filet, flageolet, French, French horti- ultural, frijoles comunes, garden, green, haricot, haricot commun, Italian, judia comum, Kentucky wooder, magic, pole, romano, string, succulent, | Grasshopper - For control of first and s fluid ounces of product per acre (0.02 - 6 the first and second instar nymphal stage For grasshopper nymph stages larger tha ounces of product per acre (0.03 - 0.05 f Leafhoppers (except CA) Mexican Bean Beetle Saltmarsh Caterpillar Beet Armyworm* Cabbage Looper ' Corn Earworm Corn Rootworm (adults) Cucumber Beetle Cucumber Beetle (adults) Cutworm (seedling spray) European Corn Borer Flea Beetle Grasshoppers Green Cloverworm Leafhopper Leafminer (Guam only) Pea Aphid Potato Leafhopper Soybean Aphid (except CA) Velvet Bean Caterpillar Western Bean Cutworm | 0.03 lb ai/A) can be uses and thorough coveraum second instar, use AS b ai/A). 0.015 - 0.03 0.03 - 0.05 | d. Correct timing of sge is critical to achieviANA® XL at use rat 2.9 - 5.8 5.8 - 9.6 | pray applications to e optimum control. less of 5.8 to 9.6 fluid 44 - 22 22 - 13 | 3 |
| Iso known as: blue lake, bush, common, cdible-podded, filet, flageolet, French, French horti- ultural, frijoles comunes, garden, green, naricot, naricot commun, ttalian, judia comum, Kentucky wonder, magic, pole, comano, string, succulent, vainica, wax) | Grasshopper - For control of first and s fluid ounces of product per acre (0.02 - 6 the first and second instar nymphal stags For grasshopper nymph stages larger tha ounces of product per acre (0.03 - 0.05 f Leafhoppers (except CA) Mexican Bean Beetle Saltmarsh Caterpillar Beet Armyworm* Cabbage Looper ' Carn Earworm Corn Rootworm.(adults) Cucumber Beetle Cucumber Beetle (adults) Cutworm (seedling spray) European Corn Borer Flea Beetle Grasshoppers Green Cloverworm Leafhopper Leafminer (Guam only) Pea Aphid Potato Leafhopper Soybean Aphid (except CA) Velvet Bean Caterpillar Western Bean Cutworm *Aids in control. Do not apply more than 0.2 lb ai per acre Do not allow livestock to graze treated b | 0.03 lb ai/A) can be uses and thorough coveraum second instar, use AS b ai/A). 0.015 - 0.03 0.03 - 0.05 | d. Correct timing of sge is critical to achieviANA® XL at use rat 2.9 - 5.8 5.8 - 9.6 | pray applications to e optimum control. less of 5.8 to 9.6 fluid 44 - 22 22 - 13 | 3 |
| ceans, Snap lso known as: (blue lake, bush, common, edible-podded, filet, flageolet, French, French horti- ultural, frijoles comunes, garden, green, haricot, haricot commun, Italian, judia comum, Kentucky wonder, magic, pole, romano, string, succulent, vainica, wax) roccoli, (including chinese broccoli) labbage, auliflower, headed varieties only, | Grasshopper - For control of first and s fluid ounces of product per acre (0.02 - 6 the first and second instar nymphal stags For grasshopper nymph stages larger tha ounces of product per acre (0.03 - 0.05 f Leafhoppers (except CA) Mexican Bean Beetle Saltmarsh Caterpillar Beet Armyworm* Cabbage Looper ' Carn Earworm Corn Rootworm.(adults) Cucumber Beetle Cucumber Beetle (adults) Cutworm (seedling spray) European Corn Borer Flea Beetle Grasshoppers Green Cloverworm Leafhopper Leafminer (Guam only) Pea Aphid Potato Leafhopper Soybean Aphid (except CA) Velvet Bean Caterpillar Western Bean Cutworm *Aids in control. Do not apply more than 0.2 lb ai per acre Do not allow livestock to graze treated b livestock forage, fodder, or hay. | 2.03 lb ai/A) can be uses and thorough coveraum second instar, use AS b ai/A). 0.015 - 0.03 0.03 - 0.05 | d. Correct timing of sge is critical to achievish NA® XL at use rate 2.9 - 5.8 5.8 - 9.6 | pray applications to e optimum control. less of 5.8 to 9.6 fluid 44 - 22 22 - 13 | |

SPECIFIC USES—VEGETABLE CROPS (cont'd)

| | | Application | on Rate | Acres treated per | Last Application |
|-------------------------------|---|------------------------------|---|---|----------------------|
| rop | Insect | lb ai/acre | fl oz/acre | gal of DuPont™ ASANA® XL | (days to harvest) |
| arrots | Aster Leafhopper | 0.03 - 0.05 | 5.8 - 9.6 | - 22 - 13 | 7 |
| | Cutworms | , | | | |
| • | Leafhoppers Carrot Weevil | 0.05 | 9.6 | 13 | † |
| | Do not apply more than 0.5 lb ai/acre | ner season. | <u> </u> | - | 1 |
| | For aerial application apply in a minir Thorough spray coverage of crown an | num of 5 gals water per a | cre. | | |
| | recommended. | | | | |
| | Carrot Weevil - Begin treatment wh | | | | ļ. |
| ollards | Alfalfa Looper Beet Armyworm* | 0.03 - 0.05 | 5.8 - 9.6 | 22 - 13 | 7 |
| | Cabbage Looper | • | · | , | |
| | Cutworm Flea Beetle | 1 | · <i>.</i> | | 1. |
| | Grasshopper | | | | |
| : | Imported Cabbageworm | | L | <u>.</u> | ļ |
| | *Aids in control. Do not feed livestock on treated plant | parts. Do not apply more | than | | |
| | 0.2 lbs. a.i. per acre per season. For ac | | | | l |
| | of 5 gals water per acre. | 0.03 - 0.05 | 5.8 - 9.6 | 22 - 13 | 3 |
| ocumber, elons, | Cabbage Looper Corn Earworm | 0.03 - 0.03 | 3.0 - 9.0 | 22-13 | , |
| antaloupe, | Cucumber Beetle (adults) | | | | |
| oneydew melons, suskmelon, | Cutworms (seedling spray) Grasshoppers | | } | 1 | |
| atermelon), | Leafhoppers | | | | } |
| mpkin, uash | Pickleworm Plant Bugs | | | | 1 |
| ummer, winter) | (Lygus Bugs, Stink Bugs) Rindworms | • | | | |
| | Squash Bug | |] | | 1 |
| | Squash Vine Borer | | | <u> </u> | ļ · |
| | Do not apply more than 0.25 lbs. a.i. pe | 0.03 - 0.05 | 5.8 - 9.6 | 22 - 13 | |
| gplant | Corn Earworm | 0.03-2 0.03 | 3.6 - 9.0 | 22-13 | 7. |
| , , | European Corn Borer | | | · · |] |
| | Flea Beetles Loopers | | | | |
| | Apply when insects are observed or wi | hen insect damage is obse | rved. Repeat applica | uions at 7 | |
| | to 10 day intervals to achieve control. | 0.03 - 0.05 | | 22 - 13 | , 3 |
| ohlrabi | Cabbage Looper Do not apply more than 0.4 lbs. a.i. per | | 5.8 - 9.6 | 22 - 13 | . 3 |
| entils | See "Beans, Dry" | acre per season. | | | |
| ettuce, Head | Alfalfa Looper | 0.025 - 0.05 | 4.8 - 9.6 | 26 - 13 | * 7 |
| ·Z, CÁ, CO, FL, | Beet Armyworm* | | | | |
| M & TX ONLY | Cabbage Looper Heliothis spp. | <u> </u> | | - | |
| • | *Aids in control. | | | <u> </u> | |
| | Do not apply more than 0.35 lbs. a.i. p | | , , , , , , , , , , , , , , , , , , , | | <u> </u> |
| ustard Greens | Cabbage Looper Imported Cabbageworm | 0.05 | • 9.6 | 13 | 7 |
| | Do not apply more than 0.2 lbs, a.i. per | r acre per | L | · | |
| | season. | | | | |
| (ra (FL only) | Cabbage Looper Corn Earworm | 0.03 - 0.05 | 5.8 - 9.6 | 22 - 13 | 1 |
| <u> </u> | Southern Armyworm | | | <u> </u> | |
| as, Dry | See "Beans, Dry" | | | | |
| as, Green | Green Cloverworm | 0.015 - 0.03 | 2.9 - 5.8 | 44 - 22 | 3 . |
| | Pea Aphid | | | | · · |
| | Alfalfa Caterpillar Alfalfa Looper | 0.03 - 0.05 | 5.8 - 9.6 | 22 - 13 | (|
| | Armyworm | | | · · | |
| | Cabhage Looper Celery Looper | 1 | ٠. | | |
| | Corn Earworm | | | | |
| | Cutworms Imported Cabbageworm | | | | |
| | Pea Leaf Weevil | 0.025 - 0.05 | 4.8 - 9.6 | 26 - 13 | |
| | | 2.0 | | | |
| • | (ID, OR & WA only) | | | 1 | i |
| | Pea Weevil (ID, OR & WA only) | | L | اختنا حصيص | 1 |
| | Pea Weevil (ID, OR & WA only) Do not apply more than 0.1 lb ai/acre | | | , <u>, , , , , , , , , , , , , , , , , , </u> | |
| | Pea Weevil (ID, OR & WA only) Do not apply more than 0.1 lb ai/acre Do not feed treated pea vines to liveste Pea Weevil & Pea Leaf Weevil (ID, | ock. OR & WA only) - Time | of application is crit | ical in | |
| | Pea Weevil (ID, OR & WA only) Do not apply more than 0.1 lb ai/acre Do not feed treated pea vines to liveste | ock. OR & WA only) - Time | bloom prior to detec | ting adult | |

SPECIFIC USES—VEGETABLE CROPS (cont'd)

| | | Application | n Rate | Acres treated per | Last Application | |
|---------|--|--|---|--|---------------------------------------|--|
| Crop | Insect | lb ai/acre | fi oz/acre | gal of DuPont™ ASANA® XL | (days.to harvest) | |
| epper | Beet Armyworm* Colorado Potato Beetle Corn Earworm Cucumber Beetle (adults) European Corn Borer Flea Beetles | 0.03 - 0.05 | 5.8 - 9.6 | 22 - 13 | 7 | |
| • | Loopers Pepper Weevil* Southern Armyworm | | | | | |
| - | *Aids in control. Apply when insects are observed or when 10 day intervals to achieve control. Do | not apply more than 0.3 | ed. Repeat application 5 lbs. a.i. per acre pe | ons at 7 to r season. | | |
| otato . | Leafhoppers (except CA) Potato Psyllid | 0.015 - 0.03 | 2.9 - 5.8 | 44 - 22 | 7 | |
| | Potato Tuberworm | 0.015 - 0.05 | 2.9 - 9.6 | 44 - 13 | | |
| | Beet Armyworm* Buckthorn Aphid Cabbage Looper Colorado Potato Beetle Cucumber Beetle | 0.03 - 0.05 | 5.8 - 9.6 | 22 - 13 | | |
| - | (adult control) Cutworms European Corn Borer Fleabeetles Grasshoppers | | | | 1 | |
| | Potato Aphid Potato Leafnopper Tarnished Plant Bug Western Yellow-Striped Armyworm | | | | | |
| w | Colorado Potato Beetie (Long Island, NY only) | 0.05 | 9.6 | 13 | | |
| | Grasshopper - For control of first and s 5.8 fluid ounces of product per acre (0.0 to the first and second instar nymphal st For grasshopper nymph stages larger the ounces of product per acre (0.03 - 0.05) Potato Tuberworm - For control of Po | 02 - 0.03 lb ai/A) can be ages and thorough cover an second instar, use AS lb ai/A). | used. Correct timing age is critical to ach ANA® XL at use rat ASANA® XL insecti | of spray applications leve optimize control es of 5.8 to 9.6 fluid | · · · · · · · · · · · · · · · · · · · | |
| | larvae and/or moth counts reach locally of effective insecticides may be needed harvest in order to reduce the risk of tub to crop senescence or vine kill increases *Aids in control. Do not apply more than 0.35 lb. a.i. per a | to keep tuberworm larva er damage. Failure to ad the risk of tuber damag | e populations as low equately control tube | as possible prior to | | |
| adishes | Armyworms Beetles | • 0.03 - 0.05 | 5.8 - 9.6 | 22 - 13 | . 7 | |

SPECIFIC USES—VEGETABLE CROPS (cont'd)

| Insect Western Bean Cutworm For additional information consult direct Armyworm Banded Cucumber Beetle Beet Armyworm* Chinch Bugs Corn Earworm Corn Leaf Aphid Corn Rootworms (adults) Cutworms European Corn Borer Fall Armyworm (except CA) 1st and 2nd instar Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Bectles (adults) | Ib ai/acre 0.015 - 0.03 ons for use under-field 0.03 - 0.05 | 10 oz/acre 2.9 - 5.8 corn 5.8 - 9.6 | gal of DuPont™ ASANA® XL 44 - 22 22 - 13 | (days to harvest) |
|--|---|--|--|---|
| For additional information consult direction Armyworm Banded Cucumber Beetle Beet Armyworm* Chinch Bugs Corn Earworm Corn Leaf Aphid Corn Rootworms (adults) Cutworms European Corn Borer Fall Armyworm (except CA) 1st and 2nd instar Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Bectles (adults) | ons for use under-field | corn. | | 1 |
| Armyworm Banded Cucumber Beetle Beet Armyworm* Chinch Bugs Corn Earworm Corn Leaf Aphid Corn Rootworms (adults) Cutworms European Corn Borer Fall Armyworm (except CA) 1st and 2nd instar Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Bectles (adults) | | | 22 - 13 | |
| Banded Cucumber Beetle Beet Armyworm* Chinch Bugs Corn Earworm Corn Leaf Aphid Corn Rootworms (adults) Cutworms European Corn Borer Fall Armyworm (except CA) 1st and 2nd instar Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Bectles (adults) | 0.03 - 0.05 | 5.8 - 9.6 | 22 - 13 | |
| Beet Armyworm* Chinch Bugs Corn Earworm Corn Leaf Aphid Corn Rootworms (adults) Cutworms European Corn Borer Fall Armyworm (except CA) 1st and 2nd instar Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Bectles (adults) | | | | |
| Chinch Bugs Corn Earworm Corn Leaf Aphid Corn Rootworms (adults) Cutworms European Corn Borer Fall Armyworm (except CA) 1st and 2nd instar Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Bectles (adults) | | , | | |
| Corn Earworm Corn Leaf Aphid Corn Rootworms (adults) Cutworms European Corn Borer Fall Armyworm (except CA) 1st and 2nd instar Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Bectles (adults) | | | | |
| Corn Leaf Aphid Corn Rootworms (adults) Cutworms European Corn Borer Fall Armyworm (except CA) 1st and 2nd instar Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Beetles (adults) | | . , | | |
| Corn Rootworms (adults) Cutworms European Corn Borer Fall Armyworm (except CA) 1st and 2nd instar Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Beetles (adults) | | | | |
| European Corn Borer Fall Armyworm (except CA) 1st and 2nd instar Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Beetles (adults) | | . , | | |
| Fall Armyworm (except CA) 1st and 2nd instar Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Beetles (adults) | | . , | 1 | |
| 2nd instar Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Beetles (adults) | | 3 | | 1 |
| Flea Beetles Grasshoppers Oat Bird-Cherry Aphid Sap Beetles (adults) | · | | | |
| Oat Bird-Cherry Aphid Sap Beetles (adults) | | | j | j |
| Sap Beetles (adults) | | | | |
| | | | 1 . | 1 |
| Southwestern Corn Borer | ., | | 1 | |
| Stalk Borer | ' | | | 1 |
| Tarnished Plant Bug | | | | |
| Corn Silkfly (except CA)** | 0.05 | 9.6 | 13 | |
| *Aids in control. | | | | |
| **Suppression only. | | | | · · |
| For Ear Protection - Begin applications | either just before or at t | time of silking. | | 1, |
| | | | | l ′ |
| Corn Leas Aphid & Oat Bird-Cherry A | Aphid - For optimum re | suits, direct the spr | ay at the | |
| contacted by the spray such as in whorls | and leaf axils, may not | be adequately cont | rolled | |
| Corn Silkfly (except CA) - Direct applic | ation to the ear zone to | obtain thorough co | verage | ł |
| of the corn silk. | | | | İ |
| | | n only. Direct the | application to the ear | |
| | | | | |
| Tobacco Hornworm | | 2.9 - 5.8 | 44 - 22 | 1 |
| Tomato Hornworm | | , | <u> </u> | |
| Beet Armyworm* | 0.03 - 0.05 | 5.8 - 9 _. 6 | 22 - 13 | |
| | | | | |
| | · | | | Í |
| Flea Beetle | | | | i |
| Grasshoppers | | • | | · . |
| Potato Aphid | 1 | | | 1. |
| | | | . 1 | I |
| | | | | I |
| Western Yellow-Striped | | | | İ |
| Armyworm | | | · | 1 |
| | | | | |
| Vegetable Leafminer** | 0.05 | 9.6 | 13 | |
| | | eafminer in Florida | a. | |
| | | | | |
| | 0.03 - 0.05 | 5.8 - 9.6 | 22 - 13 | 7 |
| | 1 | | | |
| | | | J | 1 |
| | Aids in control. **Suppression only. For Ear Protection - Begin applications For additional information consult directi Corn Leaf Aphid & Oat Bird-Cherry A phid population so as to achieve maxim contacted by the spray, such as in whorls Corn Silkfly (except CA) - Direct applic of the corn silk. Fall Armyworm (except CA) - 1st and 2 cone to obtain thorough coverage of the corn Do not apply more than 0.5 lb a.i. per Tobacco Hornworm Geet Armyworm* Cabbage Looper Colorado Potato Beetle Cutworms Geashoppers Potato Aphid Southern Armyworm Tomato Fruitworm Tomato Fruitworm Tomato Finworm Western Yellow-Striped Armyworm Whitefly Vegetable Leafminer** Aids in control. *ASANA® XL is not recommended for 20 not apply more than 0.5 lbs. a.i. per act Armyworm Teabeatele Imported Cabbageworm | *Aids in control. **Suppression only. For Ear Protection - Begin applications either just before or at for Ear Protection - Begin applications either just before or at For Ear Protection - Begin applications either just before or at For Ear Protection - Begin applications for use under field. Corn Leaf Aphid & Oat Bird-Cherry Aphid - For optimum rephid population so as to achieve maximum coverage of the expression to the spray, such as in whorls and leaf axils, may not corn Silkfly (except CA) - Direct application to the ear zone to of the corn silk. Fall Armyworm (except CA) - 1st and 2nd instar fall armyworm zone to obtain thorough coverage of the corn silk. Do not apply more than 0.5 lb a.i. per acre per season. Fobacco Hornworm Tomato Hornworm Geet Armyworm* Cabbage Looper Colorado Potato Beetle Cutworms Glea Beetle Grasshoppers Potato Aphid Southern Armyworm Western Yellow-Striped Armyworm Western Yellow-Striped Armyworm Western Yellow-Striped Armyworm Nitefly Vegetable Leafminer** 0.05 Aids in control. *ASANA® XL is not recommended for use on the Vegetable Loo not apply more than 0.5 lbs. a.i. per acre per season. Reabeetle 1. **ASANA® XL is not recommended for use on the Vegetable Loo not apply more than 0.5 lbs. a.i. per acre per season. | *Aids in control. **Suppression only. For Ear Protection - Begin applications either just before or at time of silking. For additional information consult directions for use under field corn. Corn Leaf Aphid & Oat Bird-Cherry Aphid - For optimum results, direct the spriphid population so as to achieve maximum coverage of the exposed insects. Aphid contacted by the spray, such as in whorls and leaf axils, may not be adequately contourn Silkfly (except CA) - Direct application to the ear zone to obtain thorough coof the corn silk. Fall Armyworm (except CA) - 1st and 2nd instar fall armyworm only. Direct the cone to obtain thorough coverage of the corn silk. Do not apply more than 0.5 lb a.i. per acre per season. Fobacco Hornworm Tomato Hornworm Tomato Hornworm Tomato Potato Beetle Cutworms Telea Beetle Crasshoppers Totato Aphid Southern Armyworm Western Yellow-Striped Armyworm Whitefly Vegetable Leafminer** O.05 9.6 Alds in control. *ASANA® XL is not recommended for use on the Vegetable Leafminer in Florida Do not apply more than 0.5 lbs. a.i. per acre per season. Teleabeetle Interpretation of the vegetable Leafminer in Florida Do not apply more than 0.5 lbs. a.i. per acre per season. O.03 - 0.05 5.8 - 9.6 Armyworm Reabeatetle Imported Cabbageworm | *Aids in control. **Suppression only. For Ear Protection - Begin applications either just before or at time of silking. For additional information consult directions for use under field corn. Corn Leaf Aphid & Oat Bird-Cherry Aphid - For optimum results, direct the spray at the uphid population so as to achieve maximum coverage of the exposed insects. Aphids not contacted by the spray, such as in whorls and leaf axils, may not be adequately controlled. Corn Silkfly (except CA) - Direct application to the ear zone to obtain thorough coverage of the corn silk. Fall Armyworm (except CA) - 1st and 2nd instar fall armyworm only. Direct the application to the ear zone to obtain thorough coverage of the corn silk. To not apply more than 0.5 lb a.i. per acre per season. Fobacco Hornworm Onota phy more than 0.5 lb a.i. per acre per season. Fobacco Hornworm Onota phy more than 0.5 lb a.i. per acre per season. Fobacco Hornworm Onota phy more than 0.5 lb a.i. per acre per season. 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SPECIALTY USES

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

| Crop | Insect | Application Rate | | Acres treated per |
|--|--|------------------|------------|--------------------------|
| | | lb ai√acre | fl oz/acre | gal of DuPont™ ASANA® XL |
| Non-Cropland —(excluding public— iand such as forests, parks, or recreational) | Grasshoppers -Saltmarsh Caterpillar | 0.015 - 0.03 | 2.9 - 5.8 | 44 - 22 |
| | Army Cutworms Armyworms Chinch Bugs | 0:03 - 0.05 | 5.8 - 9.6 | 22 - 13 |
| | Spray non-cropland adjacent to tilled areas to control migrating insects (Grasshoppers, Armyworms) which are a threat to crops. Do not apply more than 0.5 lbs, active ingredient per acre per year. Do not feed treated crop to livestock. Refer to Spray Recommendations and Precautions when applying to areas adjacent to water. | | | |

STORAGE AND DISPOSAL

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

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

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

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

Container Refilling and Disposal (For Containers up to 250 gal): This is a refillable container. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than DuPontTM ASANA® XL. Reseal and return the container to any authorized DuPont refilling facility. If the container is not to be refilled, triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

Container Disposal for Bulk Containers: When this container is empty, replace the cap and seal all openings that have been opened during use, and return the container to the point of purchase or to a designated location named at time of purchase of this product. The container must only be refilled with this pesticide product. DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Prior to refilling, inspect carefully for damage such as cracks, punctures; abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, contact DuPont at 1-800-441-3637. If not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with state and local regulations.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

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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.
TO THE FULLEST EXTENT PERMITTED BY LAW,
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.

TO THE FULLEST EXTENT PERMITTED BY LAW, 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.