UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Jan 9, 2001

Mr. Matt Talley Micro Flo Company P.O. Box 772099 Memphis, TN 38117-2099

Subject: Chlorpyrifos 4# AG

EPA Reg. No. 51036-291 Submission dated Nov 2, 2000

Dear Mr. Talley:

The revised product labeling referred to above, submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable provided you make the labeling change indicated below before you release the product for shipment bearing the amended labeling:

- 1) On pages 2 and 4, after "Protective eyewear" add the following "(goggles, face shield, or safety glasses with front, brow and temple protection)".
- 2) On page 37, revise the REI for cauliflower to 24 hours.
- 3) On page 37, change the statement: "For distribution and use in Arizona, California, . . . " to "Registered for use in Arizona, California, . . . "

Submit one copy of the revised final printed label before releasing the product for shipment. If the conditions enumerated above are not complied with, the registration will be subject to cancellation in accordance with FIFRA Section 6(e). If you have questions, please contact me at (703) 308-6742 or electronically at mcneilly.dennis@epa.gov.

Sincerely,

Dennis McNeilly, Chemist

Insecticide-Rodenticide Branch

Registration Division (7505C)

Restricted Use Pesticide 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.

CHLORPYRIFOS 4# AG

For control of various insects infesting certain field, fruit, nut, and vegetable crops

ACTIVE INGREDIENT:

Chlorpyrifos 0,0-diethyl- 0-(3,5,6-trichloro-2-pyridinyl) phosphorothioate 55.3% ... ACCEPTOED & TOTAL

Contains 4 pounds of chlorpyrifos per gallon. *Contains aromatic petroleum distillates

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

In EPA Letter Dated: JAN - 9 2001 Under the Federal Insecticide,

Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 5/036-291

with COMMENTS

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

FIRST AID

Organophosphate

If Swallowed: Do not induce vomiting. Contains aromatic petroleum solvent. Call a physician or Poison Control Center immediately.

Flush with plenty of water for at least 15 minutes. If In Eyes: Get medical attention.

Wash with plenty of soap and water. If On Skin: Get medical attention.

If Inhaled: Remove to fresh air. If not breathing, artificial respiration, preferably mouth-to-mouth.

Note To Physician: Chlorpyrifos is a cholinesterase inhibitor. If exposed, plasma and red blood cell Treat symptomatically. cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

EPA Reg. No. 51036-291

EPA Est. No. 51036-GA-01

Manufactured By: MICRO FLO COMPANY P.O. BOX 772099 MEMPHIS, TN 38117

PRECAUTIONARY STATEMENTS Hazard to Humans and Domestic Animals

WARNING

May be fatal if swallowed. Harmful if absorbed through skin or inhaled. Causes eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

EMERGENCY TELEPHONE NUMBERS: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact:

- (800) 424-9300 CHEMTREC (transportation and spills)
- (800) 900-4044 Poison Control Center (human health)
- (800) 345-4735 ASPCA (animal health)

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 H on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- 1. Coveralls over short sleeved shirt and short pants
- 2. Chemical-resistant gloves, such as Barrier Laminate or Viton
- 3. Chemical-resistant footwear plus socks
- 4. Protective eyewear
- 5. Chemical-resistant headgear for overhead exposure
- 6. Chemical-resistant apron when cleaning equipment and mixing or loading.

Discard clothing and 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 and 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 hands before eating, drinking, chewing gum, using tobacco or using the toilet
- 2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing
- 3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff form treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weed is bees are visiting the treatment area. Protective information may be obtained form your cooperative agricultural extension service.

PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

Read all Directions for Use carefully before applying.

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 intervals. 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 no less than the following: REIs for all crops is 24 hours except:

Tree nuts and sweet potatoes: 2 days

Fruit trees: 4 days Citrus trees: 5 days

Certified crop advisors or persons entering fields under their direct supervision under certain circumstances may be exempt from the early reentry requirement pursuant to 40 CFR Part 170.

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:

- 1. Coveralls over short sleeved shirt and short pants
- 2. Chemical-resistant gloves, such as Barrier Laminate or Viton
- 3. Chemical-resistant footwear plus socks
- 4. Protective eyewear
- 5. Chemical-resistant headgear for overhead exposure
- 6. Chemical-resistant apron when cleaning equipment and mixing or loading.

STORAGE AND DISPOSAL

Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. Storage below 20°F may result in formation of crystals. If product crystallizes, store at 50 to 70°F and agitate to redissolve crystals. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. 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 for Refillable Containers: Replace the dry disconnect cap, if applicable, and seal all openings which have been opened during use. Return the empty container to a

collection site designated by Micro Flo. If the container has been damaged and cannot be returned according to the recommended procedures contact the Micro Flo Customer Service Center at 1-800-451-8461 to obtain proper handling instructions.

Container Disposal for Non-Refillable Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

or

Triple rinse (or equivalent). Then puncture and dispose in a sanitary landfill, or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

Chlorpyrifos 4# AG insecticide forms an emulsion when diluted with water and is suitable for use in all conventional spray equipment. Consult your state experiment station or state extension service for proper timing of applications.

GENERAL USE PRECAUTIONS

Do not use on turf or for structural pest control. Do not formulate this product into other end use products.

Attention: Do Not Cut or Weld Container.

MIXING DIRECTIONS

To prepare the spray, add a portion of the required amount of water to the spray tank and with agitation add the Chlorpyrifos 4# AG. Complete filling the tank with the balance of water needed. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture.

Chlorpyrifos 4# AG may also be used in tank mixtures with certain herbicides and/or with non-pressure fertilizer solutions as recommended under specific crop use directions. Prepare tank mixtures in the same manner as recommended above for use of Chlorpyrifos 4# AG alone. When tank mixtures of Chlorpyrifos 4# AG and herbicides are involved, add wettable powders first, flowables second, and emulsifiable concentrates last. Where a fertilizer solution is involved, it is strongly recommended that a fertilizer pesticide compatibility agent such as Unite or Compex be used. Maintain constant agitation during both mixing and application to ensure uniformity of the spray mixture. Do not allow spray mixtures to stand overnight.

Note: Test compatibility of the intended tank mixture before

adding Chlorpyrifos 4# AG to the spray or mix tank. Add proportionate amounts of each ingredient to a pint or quart jar, cap, shake, and let set 15 minutes. Formation of precipitates that do not readily redisperse indicates an incompatible mixture that should not be used.

SPRINKLER IRRIGATION

Chlorpyrifos 4# AG may be applied by sprinkler irrigation for the following crop uses: alfalfa, citrus orchard floors, field corn, mint, sweet corn, cotton, cranberries, sorghum, and soybeans.

See the use sections for the individual crops for further application information. Do not apply this product to the above listed crops through any other type of irrigation system. Do not apply this product by chemigation to any other crop.

SPECIAL USE DIRECTIONS

The following use directions are to be followed when Chlorpyrifos 4# AG is applied through sprinkler irrigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues, and dispose of the residues according to state and federal laws. Flush the injector with soap and water. Determine the amount of insecticide needed to cover the desired acreage. Pump the required Chlorpyrifos 4# AG into a steel tank, start mechanical or hydraulic agitation, and add in order the nonemulsifiable oil and/or water. Continually agitate the mixture containing Chlorpyrifos 4# AG. Set the sprinkler system to deliver the desired inches of water per acre. Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injector system according to number 14 in "Special Use Precautions" section. The mixture containing Chlorpyrifos 4# AG must be injected continuously and uniformly into the irrigation water line as the sprinkler is moving. procedure is necessary to deliver the desired rate per acre in a uniform manner. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

SPECIAL USE PRECAUTIONS

The following use precautions will result in a safe and successful application of mixtures containing Chlorpyrifos 4# AG.

1. Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, micro sprinkler, or hand move. Do not apply this product through any other type of irrigation system.

- 2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- 3. If you have questions about calibration, you should contact state extension service specialists, equipment manufacturers or other experts.
- 4. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.
- 5. 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.
- 6. 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. Refer to the American Society of Agricultural Engineer's Engineering Practice 409 for more information.
- 7. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 8. 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.
- 9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 10. 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.
- 11. 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. The metering pump must provide a greater pressure than that of the irrigation system at the point of injection. The pump must meet Section 675 for "Electrically Driven or Controlled Irrigation Machines" NEC 70 and must contain Viton or Teflon seals.
- 12. To insure uniform mixing of the insecticide into the water line, inject the mixture through a nozzle place in the fertilizer injection port or just ahead of an elbow or tee in the irrigation line so that the turbulence created at those points will assist in mixing. It is suggested that the injection point be higher than the insecticide tank to prevent siphoning.
- 13. The steel tank holding the insecticide mixture should be

- large enough to allow the system to complete a revolution with one filling. It should be free of rust, fertilizer, sediment, and foreign material, and equipped with an in-line strainer situated between the tank and the injector pump.
- In order to calibrate the irrigation system and injector to apply the mixture containing Chlorpyrifos 4# AG, determine the following: 1) Calculate the number of acres irrigated system, 2) Set the irrigation rate and determine by the the number of minutes for the system to cover the intended treatment area, 3) Calculate the total gallons of insecticide mixture needed to cover the desired acreage. Divide the total gallons of insecticide mixture needed by the number of minutes to cover the treatment area. value equals the gallons per minute output that the injector must deliver. Convert the gallons per minute to milliliters or ounces per minute. Calibrate the pump with the system in operation at the desired irrigation It is suggested that the injector pump be calibrated at least twice before operation, and the system should be monitored during operation.
- 15. Do not apply when wind speed favors drift beyond the area intended for treatment. End guns must be turned off during the application, if they irritate nontarget areas.
- 16. Do not allow irrigation water to collect or runoff and pose a hazard to livestock, wells, or adjoining crops.
- 17. Allow foliage to dry before reentering the field.
- 18. Do not apply through sprinkler systems which deliver a low coefficient of uniformity such as certain water drive units.

APPROVED CROPS

ALFALFA

Use Chlorpyrifos 4# AG to control the following pests at the dosages indicated by application as a broadcast, foliar spray:

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PESTS	Chlorpyrifos 4# AG
Aphids (suppression)	1/2 pint/acre
Corn rootworm adults (spotted cucumber beetle) Grasshoppers	1/2 - 1 pint/acre
Alfalfa blotch leafminer Alfalfa caterpillar Alfalfa weevil larvae and adults Armyworms Blue alfalfa aphid Cutworms Egyptian alfalfa weevil larvae and adults Pea aphid Plant Bugs	1 - 2 pints/acre

Leafhoppers
Spittlebugs

Note: Use the higher rates to control spotted alfalfa aphid in California and Nevada. Stubble spray may be applied to control leafhopper in the Northeast.

Mix the required dosage with enough water to ensure thorough coverage of crop foliage and apply using aerial (fixed-wing or helicopter) or power-operated ground spray equipment. application use 2 to 5 gallons of water per acre. For best coverage when using ground application, a minimum of 20 gallons of water per acre with hollow cone nozzles is recommended. may be reduced at low spray volumes under high temperature and wind conditions. Treat when field counts or crop injury indicates that damaging pest populations are developing or present; however, do not apply more than once per crop cutting. Some reduction in insect control may be evident under excessively cool conditions. For Egyptian alfalfa weevil control in California, apply the specified dosage in a minimum of 5 gallons of water per acre when larvae are actively feeding and populations reach 15 to 20 larvae per 180° sweep with a 15-inch diameter net.

Chlorpyrifos 4# AG may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar pests. For best results, use the recommended rate of Chlorpyrifos 4# AG per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. see "Sprinkler Irrigation" section for further information.

Chlorpyrifos 4# AG should not be tank mixed with pesticides, surfactants, or fertilizer formulations unless prior use has shown the combination noninjurious under your current conditions of use. Some phytotoxic symptoms may be observed on young, tender rapidly growing alfalfa when treated with Chlorpyrifos 4# AG. Alfalfa will outgrow the symptoms and no yield loss should be expected.

This product is highly toxic to bees exposed to direct treatment on alfalfa. Do not apply if nearby bees are clustered outside of hives and bees are foraging. Protective information may be obtained from your agricultural extension service.

RESTRICTIONS: Do not cut or graze treated alfalfa within 7 days after application of 1/2 pint of Chlorpyrifos 4# AG per acre, within 14 days after application of 1 pint per acre, or within 21 days after application of rates above 1 pint per acre. Do not make more than 4 applications per year or apply more than once per crop cutting. REI for Alfalfa is 24 hours.

ASPARAGUS

Use Chlorpyrifos 4# AG to control cutworms, asparagus aphids, and asparagus beetles by application at the rate of 2 pints per acre. Mix the specified dosage in sufficient water to ensure thorough coverage of treated plants and apply as a broadcast, foliar spray. For cutworms, it is preferable to apply Chlorpyrifos 4# AG when the soil is moist and worms are active on or near the soil surface. Applications may be made during the fern stage for control of asparagus beetles and asparagus aphids when field counts or crop injury indicates that damaging pest populations are developing or present.

RESTRICTIONS: Do not make more than one preharvest application per season or apply within one day of harvest. Do not make more than two postharvest applications during the fern stage. Based on available residue data, the use of Chlorpyrifos 4# AG on asparagus is limited to the Midwest and Pacific Northwest.

CHERRIES

Use Chlorpyrifos 4# AG for the control of lesser peach tree borer, greater peach tree borer, and American plum borer by application as a trunk spray. Mix 1 1/2 to 3 quarts of Chlorpyrifos 4# AG with 100 gallons of water and apply as a coarse, low-pressure spray to give uniform coverage of tree trunks and lower limbs. Make a second application two weeks after the first one and a third application after harvest. Avoid contact with foliage in sweet cherries as premature leaf drop may result. Consult your state agricultural experiment station or extension service specialist for proper time to treat in your area.

In addition, one of the three allowable applications per year may be applied as a dormant spray for control of San Jose scale, peach twig borer, and climbing cutworms. For control of these pests, tank mix 1/2 to 1 pint of Chlorpyrifos 4# AG with 1 to 2 gallons of a petroleum oil recommended for dormant use in 100 gallons of water and spray the entire tree by application to runoff using ground spray equipment. For low volume (concentrate) sprays (40 to 100 gallons of spray mixture per acre) use the same amounts of Chlorpyrifos 4# AG and spray oil per acre required for application as a dilute spray and apply in a manner that will ensure thorough coverage of the trees. Use the higher dosage of Chlorpyrifos 4# AG for severe infestations. Use oil as recommended by your state agricultural experiment station or extension service specialist.

RESTRICTIONS: Make only three applications per year. Do not apply within 6 days before harvest. Do not allow meat or dairy animals to graze in treated orchards. REI interval is 4 days.

CHRISTMAS TREES (NURSERIES AND PLANTATIONS)

Use Chlorpyrifos 4# AG at the rate indicated to control the following insects on the tree varieties listed.

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TREE VARIETY	INSECTS CONTROLLED	DOSAGE CHLORPYRIFOS 4# AG	REMARKS
Balsam fir Blue spruce Concolor fir Douglas fir Eastern white pine Fraser fir Grand fir Noble fir Scotch pine White spruce	Ants Aphids Adegids (Cooley) (Eastern spruce gall) European pine sawfly European pine shoot moth Grasshopper Gypsy moth Mites (European red spider) (Two spotted spider) [except in WA & OR] Pales weevil (adult Pine needle midge Pine spittlebug Plant bugs Spittlebugs Spruce budworm Spruce needleminer Scale (pine needle) (pine tortoise) (Spruce bud) (Black pine) (Striped pine)	1 qt/acre	Do not treat plants under extreme heat and drought stress. Apply to foliage in sufficient water to ensure adequate coverage. ¹ For effective control of adult spinder mites if large numbers of eggs are present, apply a second spray 7-10 days after initial treatment to control newly hatched nymphs. ² For scale control apply when scale crawlers are active.
	Pales weevil	3 qt/100 gal	Apply as a cut stump drench

RESTRICTIONS: Use Chlorpyrifos 4# AG on tree plantations only in Connecticut, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, North Carolina, Ohio, Oregon, Pennsylvania, South Carolina, Tennessee, Vermont, Virginia, Washington, and Wisconsin. Do not allow livestock to graze in treated areas. REI is 24 hours.

CITRUS FRUITS

Use Chlorpyrifos 4# AG at the rates indicated according to the designated geographic area to control the following pests. Use the lower rates for light infestations and increase the dosage for heavier infestations.

A petroleum spray oil recommended for use on citrus trees may be added to dilute spray mixtures only at a rate of up to 1.8 gallons per 100 gallons of water to improve control of aphids, mealybugs, scale insects, and thrips. Treat when insects become a problem or

in accordance with the local spray schedule recommended by your state extension service specialist.

Chlorpyrifos 4# AG may be applied in tank mixtures with ethion, dicofol, Agri-Mek or Vendex. See "Mixing Directions" for further instructions. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for the other products used in combination with Chlorpyrifos 4# AG.

PRECAUTIONS: Observe local use directions for tank mix combinations especially in regard to applications of Chlorpyrifos 4# AG plus spray oil. Consult with a county farm advisor, county agency, extension service personnel, agricultural commissioner, pest control advisor, or local Micro Flo representative for such information regarding a given locality.

Do not apply when trees are stressed by drought or high temperatures.

Chlorpyrifos 4# AG should not be tank mixed with Difolatan 80 Sprills as crop injury may occur.

Chlorpyrifos 4# AG is highly toxic to bees exposed to direct treatment and should not be applied when bees are actively visiting the area. During the bloom period in California, apply from one hour after sunset until two hours before sunrise.

RESTRICTIONS: Do not apply more than 2 applications or more than 15 pints of Chlorpyrifos 4# AG per acre per year. Do not make second foliar application within 30 days of the first application. Do not treat within 21 days of harvest for applications up to 7 pints of Chlorpyrifos 4# AG per acre nor within 35 days for application of rates above 7 pints per acre. Do not do any work involving contact with trees within 2 days after treatment. Do not allow livestock to graze in treated areas. REI is 5 days.

CITRUS FRUIT

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CROP	GEOGRAPHIC LOCATION	PEST	DOSAGE OF Chlorpyr ifos 4# AG PT/ACRE	SPRAY VOLUME GAL ACRE	REMARKS
Grape- fruit Lemons Oranges and Other Citrus Fruit	California Arizona	Aphids Katydids Lepidopterous larvae Avocado leafroller Cutworms Fruit tree leafroller Orange tortrix Western tussock	2-7	ground: 100-750 aerial: min 15	Do not use a spray concentration of Chlorpyrifos 4# AG of less than 1/2 pt/100 gal of total volume.

CROP	GEOGRAPHIC LOCATION	PEST	DOSAGE OF Chlorpyr ifos 4# AG PT/ACRE	SPRAY VOLUME GAL ACRE	REMARKS
		moth Scale insects Black scale Brown soft scale California red scale	8-12	100-2400	
		Thrips (suppression) Mealy bugs	6-12	100-750	
		**			,
	Florida	Aphids Grass- hoppers Orange dogs Mealy bugs Scale - insects Snow scale Florida red scale Purple scale Long scale Chaff scale Black scale Brown soft scale	2-7	ground: 100-1400 aerial: min 20	Do not use a spray concentrate of Chlorpyrifos 4# AG of less than 1/2 pt/100 gal of water per acre.
		Citrus rust mites	4-7	100-700	Do not use a spray concentration of Chlorpyrifos 4# AG of less than 1 pt/100 gal of water per acre.

	Texas	Aphids Cutworms Katydids Mealy bugs Scale insects: Brown soft scale California red scale Chaff scale	4-7	200-700	Do not use less than 1/2 pt of Chlorpyrifos 4# AG per 100 gallons of water in dilute applications
		Citrus rust	4-7	200-700	

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CROP	GEOGRAPHIC LOCATION	PEST mites (suppression)	DOSAGE OF Chlorpyr ifos 4# AG PT/ACRE	SPRAY VOLUME GAL ACRE	remarks
Small Trans- planted Grape- fruit, Orange and other Citrus Trees	Texas	Aphids Cutworms Katydids Mealy bugs Scale Insects: Brown soft scale California red scale Chaff scale	Max. of 7		Apply Chlorpyrifos 4# AG at a rate of 1 fl oz/1 gal of water with a backpack sprayer. Apply to runoff.

** Additional Precautions for California and Arizona: Chlorpyrifos 4# AG should not be used in combination with spray oil when temperatures are expected to exceed 95°F the day of application or for several consecutive days thereafter. Do not apply during the months of December, January or February.

*** Lubber grasshoppers must be controlled when they are small (less than 1 inch in length) by direct contact with spray.

CITRUS ORCHARD FLOORS

Use Chlorpyrifos 4# AG to control red imported fire ants and other ant species by applying the specified dose in 25 or more gallons of water with ground application equipment that will uniformly apply the spray to the orchard floor. To control foraging ants and suppress mounds, apply Chlorpyrifos 4# AG to the orchard floor at the rate of 3/4 to 1 quart per acre. Retreat as needed. For best insect control, uniform coverage of the orchard floor is necessary. Do not apply where weed growth or other obstructions would impede uniform coverage of the orchard floor. Do not apply in tank mixtures with Evik herbicide. Foliar applications of Chlorpyrifos 4# AG may be made in addition to the orchard floor treatments.

Chlorpyrifos 4# AG may also be applied to citrus orchard floors through sprinkler irrigation systems only if the system uniformly covers the soil surface at the base of the tree. For best results, use the recommended amount of Chlorpyrifos 4# AG per acre. See "Sprinkler Irrigation" section for further information.

RESTRICTIONS: Do not apply more than 10 quarts of Chlorpyrifos 4# AG per acre per season. Do not apply last treatment within 28 days before harvest. Do not allow livestock to graze in treated areas. In Florida, do not apply more than 3 quarts per season. REI is 24 hours.

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CRANBERRIES

Use Chlorpyrifos 4# AG by application as a broadcast, foliar spray to control brown spanworm, cranberry fruitworm, cranberry weevil, cutworms, fireworms, and Sparganothis fruitworms at the rate of 3 pints per acre. Mix the specified dosage in enough water to ensure thorough coverage and apply no less than 5 gallons of spray per acre when using aerial equipment or no less than 15 gallons of spray per acre when using ground equipment. For weevil control, apply once at flower bud development (late May, early June) and, if weevils are present, once after 100% bloom (early to mid July). For other insects, treat when field counts indicate damaging insect populations are developing or present. Apply only after the winter flood has been removed. To avoid pesticide contamination of flood water, make no applications while bogs are flooded.

Chlorpyrifos 4# AG may also be applied through sprinkler irrigation systems to control the above listed pests. For best results, use the recommended rate of Chlorpyrifos 4# AG per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" section for further information.

RESTRICTIONS: Do not make more than two applications per year or apply within 60 days before harvest.

FIELD CORN, SWEET CORN (INCLUDING CORN GROWN FOR SEED)

For use to control cutworms, armyworms, corn earworm, corn rootworm adults, chinch bugs, grasshoppers, wireworms, flea beetle larvae and adults, aphids, billbugs, grubs, western bean cutworm, corn borers, symphylans, common stalk borer, and lesser cornstalk borer.

Preplant Incorporation Treatment:

Use Chlorpyrifos 4# AG at the following rates by application in sufficient water to the soil surface and incorporate into the soil:

PESTS	Chlorpyrifos 4# AG
Cutworms, symphylans	2-4 pints/acre
Wireworms, billbugs, flea beetle larvae, grubs, seed corn maggots, seed corn beetle	4 pints/acre
Lesser cornstalk borer, corn rootworm larvae	6 pints/acre

Use recommended rate in not less than 10 gallons of water per acre and apply as a broadcast spray to the soil surface using suitable power-operated ground spray equipment. On the same day of treatment, incorporate the insecticide into the top 2 to 4 inches of soil using a disc, field cultivator or equivalent equipment.

Chlorpyrifos 4# AG may also be applied in tank mixtures with non-pressure fertilizer solutions and/or with Bladex, Eradicane, Sutan, Lasso, Dual, and atrazine herbicides. See "Mixing Directions" section for further information. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for the other products used in combination with Chlorpyrifos 4# AG.

Preplant, At-Plant or Preemergence Treatment in Conservation Tillage: Use Chlorpyrifos 4# AG at the following rates by application in sufficient water to surface trash and exposed soil:

PESTS	Chlorpyrifos 4# AG
Cutworms Armyworms	1-2 pints/acre

Use recommended rate in not less than 20 gallons of water per acre and apply as a broadcast spray using suitable power-operated ground spray equipment. Use higher rates for residual control.

Chlorpyrifos 4# AG may also be applied in tank mixtures with non-pressure fertilizer solutions and/or with paraquat and Roundup. See "Mixing Directions" section for further information. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for the other products used in combination with Chlorpyrifos 4# AG.

Cultivation Time Treatment: Use Chlorpyrifos 4# AG at the rate of 2 pints per acre to control corn rootworm larvae. Apply Chlorpyrifos 4# AG as a water emulsion on both sides of the row at the base of the plants just ahead of the cultivator shovels. Cover the insecticide with soil around the brace roots. The best time to apply a basal treatment of a soil insecticide with cultivation is near the beginning of egg hatch. A cultivation application of Chlorpyrifos 4# AG may be made in addition to a atplanting application of Chlorpyrifos 15G granular insecticide.

Postemergence Treatment: Use Chlorpyrifos 4# AG at the following rate by application in sufficient water to ensure thorough coverage of treated plants:

PESTS	Chlorpyrifos 4# AG
Grasshoppers	1/2 - 1 pint/acre
Armyworms Chinch bugs Aphids Corn rootworm adults Webworms Western bean cutworm European corn borer (see note)	1 - 2 pints/acre
Southwestern corn borer Corn earworm	1 1/2 - 2 pints/acre
Cutworms Billbugs Lesser cornstalk borer Flea beetle adults Common stalk borer	2 - 3 pints/acre

Note: The recommended dosage will control silk clipping by corn rootworm adults. For European corn borer control, use 1 1/2 to 2 pints per acre when application is made with power-operated ground and aerial equipment and 1 to 2 pints per acre when application is made through a sprinkler irrigation system. See text below for generation specific treatment.

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Treat when field counts indicate that pests are or may become a problem. For best billbug, chinch bug, and flea beetle control, apply with sufficient water to ensure a minimum spray volume of 20 to 40 gallons per acre and 40 psi using ground spray equipment. On corn less than 6 inches tall, apply the insecticide spray in a 9 to 12 inch wide band over the row. On corn greater than 6 inches tall, apply the insecticide spray using drop nozzles directed to the base of the plant. Do not reduce the dosage for banded or directed applications. Concentrate the full labeled dosage rate in the treated zone. When chinch bugs continue to immigrate to corn over a prolonged period or under extreme pressure, a second application of Chlorpyrifos 4# AG may be needed.

For cutworm, webworm, western bean cutworm, armyworm, aphid, European and southwestern corn borer, grasshopper, lesser cornstalk borer, corn rootworm adult, corn earworm, and common stalk borer control, apply as a broadcast spray using either aerial (fixed-wing or helicopter) or power-operated ground spray equipment. For aerial application use 2 to 5 gallons of spray per acre. Control may be reduced at low spray volumes under high temperature and wind conditions.

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For cutworms, it is preferable to apply Chlorpyrifos 4# AG when soil is moist and worms are active on or near the soil surface. If ground is dry, cloddy or crusty at time of treatment, worms may be protected from the spray and effectiveness will be reduced. If such conditions exist, shallow incorporation using a rotary hoe or other suitable equipment immediately before or soon after treatment may improve control. Apply as needed to maintain control. Use higher rate for larger worms or when heavy cutworm infestations are expected or present. Fields should be monitored for cutworm presence or damage. A second application may be required if damage or density levels exceed economic thresholds established for your area. Consult your agricultural experiment station or extension service specialist for additional information concerning control practices in your area.

For webworm control, shallow incorporation using a rotary hoe or other suitable equipment immediately before or soon after treatment is necessary.

For first-generation European corn borer control, treat when 25 to 50 percent of the corn plants show pinhole feeding or leaf-feeding scars. For maximum control potential, ground applications of Chlorpyrifos 4# AG should be directed into the corn leaf whorls. Scout fields within 5 days after application to determine if a second application is needed. University research indicates that achieving greater than 50% control of first-generation European borer with a single liquid insecticide treatment is highly dependent on timing, insecticide placement and weather conditions. Treatment for control of second-generation European corn borer should be applied when field counts of egg masses indicate an infestation is present or about to develop.

For southwestern corn borer control, treat when field counts of egg masses indicate pests are or may become a problem. A second application may be applied 10 to 14 days later, if needed due to reinfestation. For common stalk borer control, treat approximately 11 days after application of Roundup herbicide or after complete burndown with paraquat herbicide (3 to 5 days). Do not use Chlorpyrifos 4# AG in combination with the burndown herbicide for control of common stalk borer.

Chlorpyrifos 4# AG may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar insects. For best results, use the recommended rate of Chlorpyrifos 4# AG in a tank mix with 2 pints per acre of non-emulsifiable oil. Maintain vigorous tank agitation to assure uniformity of the Chlorpyrifos 4# AG plus oil mixture throughout the injection period. Chlorpyrifos 4# AG may also be applied through sprinkler irrigation systems at the rate of 2 to 3 pints per acre to control corn rootworm larvae. Time

application to coincide with the appearance of the second instar larvae. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. Apply with enough water to wet the root zone to the depth control is needed. Under saturated soil conditions, allow enough soil drying to occur so that an application using a minimum water rate will not produce runoff. Consult university extension personnel or other experienced consultants to determine the need to treat and to aid in application timing. See "sprinkler Irrigation" section for further information.

RESTRICTIONS: Do not apply within 35 days before harvest of grain. Do not apply more than a total of 15 pints of Chlorpyrifos 4# AG per acre per season. Do not allow livestock to graze in treated areas nor harvest treated corn silage as feed for meat or dairy animals within 14 days after last treatment. Do not feed treated corn fodder to meat or dairy animals within 35 days after last treatment. REI is 24 hours.

SWEET CORN (GROWN ONLY IN FLORIDA AND GEORGIA)

Use Chlorpyrifos 4# AG to control infestations of beet armyworm, fall armyworm and corn earworm by application as a broadcast, foliar spray at the rate of 1 to 2 pints per acre. Mix the specified dosage in enough water to ensure thorough coverage and apply using suitable aerial or ground spray equipment. For aerial application, use at least 2 gallons of spray per acre. Treat when field counts indicated damaging pest populations are developing or present. Re-treat as necessary to maintain control but do not apply more than twenty-two 1-pint or eleven 2-pint treatments per season.

Chlorpyrifos 4# AG may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar insects. For best results, use the recommended rate of Chlorpyrifos 4# AG in a tank mix with 2 pints per acre of non-emulsifiable oil. Maintain vigorous tank agitation to assure uniformity of the Chlorpyrifos 4# AG plus oil mixture throughout the injection period. See "Sprinkler Irrigation" section for further information.

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RESTRICTIONS: Do not apply more than 22 pints of Chlorpyrifos 4# AG per acre per season. Do not harvest corn ears, allow livestock to graze in treated areas, nor feed treated silage, fodder, or grain to meat or dairy animals within 21 days after treatment. Do not use in conjunction with postplant broadcast, foliar applications of Chlorpyrifos 15G. REI is 24 hours.

COTTON

Use Chlorpyrifos 4# AG for control of the following pests in all states except Arizona and California at the dosages indicated:

PESTS	Chlorpyrifos 4# AG
Cotton fleahopper Plant bugs (Lygus, Mirids)	3/8 - 1 pint/acre
Fall armyworm Grasshopper Thrips Yellow-striped armyworm	1/2 - 1 pint/acre
Cotton aphid	1/2 - 2 pints/acre
Spider mites	l pint/acre
Beet armyworm Cotton bollworm Tobacco budworm Cutworms Pink bollworm Salt marsh caterpillar	1 1/2 - 2 pints/acre

Note: The recommended dosage rate of 3/8 pint per acre will not achieve the high degree of control of the higher label rate, but will minimize the damage done by plant bugs and cotton fleahopper and allow the beneficial insects to survive, build up, and be available to aid in the control of bollworms infesting cotton. For infestations of cotton aphids that are difficult to control, use a higher dosage within the indicated rate range.

Use Chlorpyrifos 4# AG for control of the following pests in Arizona and California at the dosages indicated:

PESTS	Chlorpyrifos 4# AG
Armyworms Cotton aphid Cotton fleahopper Lygus Salt marsh caterpillar Thrips	l - 2 pints/acre
Cotton bollworm Tobacco budworm Boll weevil Cutworms Pink bollworm	2 pints/acre

Note: The 2 pint rate will aid in the suppression of cottor leafperforator and spider mites.

Mix the required dosage with sufficient water to ensure thorough coverage of plants and apply using aerial or power-operated ground spray equipment. For aerial application, use at least 1 gallon of spray per acre. Treat when field counts indicate damaging insect populations are developing or present. Re-treat as necessary to maintain control.

Chlorpyrifos 4# AG may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar pests. For best results, use the recommended rate of Chlorpyrifos 4# AG per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" section for further information.

For effective control of spider mites when large numbers of eggs are present, apply a second spray 3 to 5 days after initial treatment to control newly hatched nymphs.

For best results on bollworms and budworms, it is suggested that field be scouted twice per week and treatments made when worms are 1/4 inch or less in length. The following table illustrates the size of worms in relation to age and stage of development (instar) as a guide to timing of treatments for best control.

From the table it can be seen that a scouting schedule of only once per week will not be satisfactory since the worms may be too big to control effectively by the seventh or eighth day.

Timing for the best worm control

	Age (days)	Size	Instar
Get the worms at this stage	Hatch 3	1/16" 3/32"	Hatch I
	5	9/32"	ΙΙ
	6	7/16"	III
	8	11/16"	IV

1/16"
3/32"
9/32" (insert graphics)
7/16"

23/10

11/16"

Proper application techniques help to ensure thorough spray coverage and correct dosage and are thus important in obtaining good control of pests. Consider these suggestions when applying Chlorpyrifos 4# AG on cotton.

Aerial Application

Shorten boom length to avoid spray entering the vortices at the wing tips. Swath width should be reduced when wind direction is the same as direction of spraying.

The proper nozzle arrangement and swath width to avoid skips and vortices effect can be checked out by flying over a paper tape (adding machine paper) using water with or without soluble dye. (The dye gives a permanent record.)

Flying at a height of 5 to 15 feet above the target results in the best coverage.

Nozzle orientation of the boom is important. More break-up occurs when nozzles are pointed straight down versus the straight back position. Desired droplet size (100 to 200 microns) can be obtained by angling the nozzles somewhere in this range.

Marking of swath by flagging or permanent markers is essential.

Ground Application

Orient the boom and nozzles so that uniform coverage is obtained. The swath width should not be wider than the boom; drift spray is wasted spray so do not depend on it. Use flat fan or disc-core hollow cone nozzles with maximum spacing of 20 inches and a spray pressure of 40-60 psi with a droplet size of 100-200 microns.

RESTRICTIONS: Do not apply within 14 days before harvest or make more than 6 applications per season. Do not allow livestock to graze in treated areas. Do not feed gin trash or treated forage to livestock. REI is 24 hours.

FIGS

Use Chlorpyrifos 4# AG at he rate of 2 quarts per acre for control of dried fruit beetle by application in sufficient water to the soil surface followed by incorporation into the top 3 inches of soil. Apply to fig orchard soil as a dormant application in late winter prior to beetle emergence and prior to leaf formation.

RESTRICTIONS: Make only one application per year. Do not apply within 7 months of harvest. Based on available residue data, use of Chlorpyrifos 4# AG on figs is restricted to California. REI is 4 days.

GRAPES

Use Chlorpyrifos 4# AG for control of grape root borer by application just before the pest emerges from the soil. Mix 4 1/2 pints of Chlorpyrifos 4# AG with 100 gallons of water and apply 2 quarts of the diluted spray mixture to the soil surface on a 15-square foot area around the base of each vine. Do not allow spray to contact fruit or foliage.

RESTRICTIONS: Do not make more than one application per season or apply within 35 days before harvest. Based upon available residue data, the use of Chlorpyrifos 4# AG in grapes is restricted to states east of the Rocky Mountains. REI is 24 hours.

MINT

Use Chlorpyrifos 4# AG by application as a broadcast, foliar spray to control cutworms at the rate of 2 to 4 pints per acre and mint root borer at the rate of 4 pints per acre. Mix the specified dosage in water to give no less than 10 gallons of spray per acre and apply using ground spray equipment. For cutworm control, treat during May and June when field counts indicate damaging insect populations are developing or present. When larvae are less than 3/4 inch in length, use the 2 pint rate. When larvae are 3/4 inch or more in length, use the higher rate. Make only one application during the growing season. Do not apply within 90 days before harvest. For mint root borer control, apply postharvest when field counts indicate damaging insect populations are developing or present. Follow treatment with approximately 1 acre inch of sprinkler irrigation immediately after application to incorporate the insecticide into the soil. Make only one postharvest application per season.

Chlorpyrifos 4# AG may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed pests. For best results, use the recommended rate of Chlorpyrifos 4# AG per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" section for further information.

NECTARINES, PEACHES

Use Chlorpyrifos 4# AG for the control of peach tree borers by application as a trunk spray before newly hatched borers enter the trees. Mix 3 quarts of Chlorpyrifos 4# AG with 100 gallons of water an apply as a coarse, low-pressure spray to give uniform coverage of tree trunks. Thoroughly wet all bark areas from

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ground level to scaffold limbs. Do not allow spray to contact fruit. Consult your state agricultural experiment station's or extension service specialist's written recommendations for proper time to treat in your area.

Chlorpyrifos 4# AG may also be used as a preplant dip application for non-bearing peach trees at the equivalent application rate of 3 quarts per 100 gallons of water for control of peach tree borer. Dip trees several inches above the grafting bud scar and plant immediately or allow to dry before returning to storage. Do not allow peach trees to remain in contact with the dip solution.

RESTRICTIONS: Make only one application per season. Do not apply within 14 days before harvest. Do not allow meat or dairy animals to graze in treated orchards. REI is 4 days.

ONIONS (DRY BULB)

Use Chlorpyrifos 4# AG to control onion maggot by application as an in-furrow drench. Apply Chlorpyrifos 4# AG at the rate of 1.1 fluid ounce per 1000 linear feet of row at an 18-inch row spacing. Use a minimum of 40 gallons of total drench per acre. Incorporate to a depth of 1 to 2 inches.

RESTRICTIONS: Do not make more than one application per year. REI is 24 hours.

PEANUTS

For suppression of wireworms, apply Chlorpyrifos 4# AG at a rate of 4 pints per acre as a preplant broadcast spray to the soil surface followed by immediate soil incorporation to a depth of 3 to 4 inches. Use a minimum of 10 gallons of total spray per acre.

RESTRICTIONS: The combined total of preplant and postplant applications of Chlorpyrifos 4# AG and Chlorpyrifos 15G must not exceed 4 pounds active ingredient per acre per season. Do not make more than one application per season. Do not harvest within 21 days after treatment. Do not feed treated peanut forage or hay to meat or dairy animals. REI is 2 days.

SORGHUM, GRAIN SORGHUM (MILO)

Use Chlorpyrifos 4# AG Insecticide for control of the following pests at the dosage indicated:

Mix the specified dosage in enough water to ensure thorough coverage and apply using suitable aerial or ground spray equipment. To minimize chemical injury, do not apply Chlorpyrifos 4# AG to drought stressed grain sorghum within 3 days following irrigation or rain except where the product is applied in

irrigation water.

Chlorpyrifos 4# AG may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar pests. For best results, use the recommended rate of Chlorpyrifos 4# AG per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" section for further information.

PESTS	Chlorpyrifos 4# AG	SPECIFIC DIRECTIONS
Sorghum midge	1/2 pint/acre	Apply when 30 to 50% of the seed heads are in bloom, repeat at 3-day intervals if necessary.
Grasshoppers Yellow sugar cane aphid and other aphids	1/2 - 1 pint/acre	
Greenbug	1/2 - 2 pints	For infestations of greenbug that are difficult to control, use a higher dosage within the indicated rate range.
Chinch bugs Lesser cornstalk borer	1 - 2 pints/acre	Apply as a directed spray toward the base of the plant using power-operated ground spray equipment with sufficient water to ensure coverage of an 8 to 12 inch band centered on the row. On plants less than 6 inches high, apply an 8 to 12 inch band over the row. Do not reduce the dosage for banded or directed applications. Concentrate the full labeled dosage rate in the treated zone.
Webworms	1 pint/acre	
Armyworms Cutworms	1 - 2 pints/acre	
European and Southwestern corn borer	1 1/2 - 2 pints/acre	
Corn earworm	2 pints/acre	

PRECAUTION: Be aware that sorghum lines used in seed production fields may be more sensitive to chemical injury. Susceptible inbred lines or hybrids are likely to be at greater risk of yield-reducing chemical injury when sprayed at the higher rates of application. Do not apply more than 1 pint per acre of Chlorpyrifos 4# AG to seed sorghum if the additional risk of crop injury is unacceptable.

RESTRICTIONS: The treated crop is not to be used for grain, forage, fodder, hay, or silage within 30 days after application of 1 pint of Chlorpyrifos 4# AG per acre or within 60 days after application of rates above 1 pint per acre. Do not treat sweet varieties of sorghum. Do not apply more than 3 pints of Chlorpyrifos 4# AG per acre per season. REI is 24 hours.

SOYBEANS

For use to control armyworms, bean leaf beetle, corn earworm, cutworms, European corn borer, grasshoppers, green cloverworm, lesser cornstalk borer, Mexican been beetle, saltmarsh caterpillar and other woollybears, southern green stink bug, spider mites, and velvetbean caterpillar.

Soil Treatment

Use Chlorpyrifos 4# AG at the rate of 1 to 2 pints per acre to control cutworms and lesser cornstalk borer. Mix the specified dosage in a minimum of 10 gallons of spray per acre and apply to the soil surface using suitable ground spray equipment. Equivalent rates of insecticide spray required per 100 feet of row for various row spacing are given in the accompanying table. For at-plant treatments apply the insecticide over the row in a 4 to 6-inch band in front of the planter shoe or press wheel or after the press wheel followed by a drag chain for light incorporation. Do not apply as an in-furrow treatment. For postemergence rescue treatments, apply as a directed spray in a 9 to 12-inch band at the base of the plant. To plants under 6 inches high apply over the top in a 6 to 12-inch band. Treat when field counts or conditions indicate that pests are or may become a problem.

Fluid Ounces of Spray Required Per 100 Feet of Row for Various Row Spacing

Volume of Spray Per Acre	36"	32"	28"	24"
10 gallons	8.8	7.9	6.9	5.9
15 gallons	13.2	11.8	10.3	8.8
20 gallons	17.6	15.7	13.7	11.8

Foliar Treatment

Use Chlorpyrifos 4# AG at the following rate by application in sufficient water to ensure thorough coverage of treated plants:

PESTS	Chlorpyrifos 4# AG
European corn borer Southern green stink bug	2 pints/acre
Bean leaf beetle	

Cutworms Corn earworm Saltmarsh caterpillar and other woollybears	1 - 2 pints/acre
Mexican bean beetle Armyworms	1 - 1 1/2 pints/acre
Velvetbean caterpillar Grasshoppers Green cloverworm Spider mites	1/2 - 1 pint/acre

Apply as a broadcast spray using either aerial or ground equipment when field counts indicate damaging insect populations are developing or present; re-treat as necessary to maintain control. For effective control of spider mites when large numbers of eggs are present, apply a second spray 3 to 5 days after initial treatment to control newly-hatched nymphs. On determinate soybeans do not apply more than one application after pod set.

Chlorpyrifos 4# AG insecticide may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar pests. For best results, use the recommended rate of Chlorpyrifos 4# AG per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" section for further information.

RESTRICTIONS: Do not apply more than 6 pints of Chlorpyrifos 4# AG per acre or 3 pounds of chlorpyrifos (active ingredient) per acre per season. Do not apply last treatment within 28 days before harvest nor apply last two treatments closer than 14 days apart. Do not allow livestock to graze in treated areas or otherwise feed treated soybean forage, hay, and straw to meat or dairy animals. REI is 24 hours.

STRAWBERRIES

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Use Chlorpyrifos 4# AG by application as a broadcast foliar spray to control strawberry bud weevil at the rate of 1 quart per acre. Apply in a minimum of 40 gallons of spray per acre when buds first appear and 10 to 14 days later. Do not apply after berries start to form or when berries are present. Chlorpyrifos 4# AG should not be tank mixed with pesticides, surfactants, or fertilizer formulations unless prior use has shown the combination noninjurious under your current conditions of use.

Phytotoxicity may occur when Chlorpyrifos 4# AG is applied to strawberries experiencing high temperature and drought stress.

RESTRICTIONS: For pre-bloom use only. Do not make more than two applications per season or apply within 21 days before harvest. REI is 24 hours.

SUNFLOWERS

For use to control cutworms, sunflower beetle larvae and adults, stem weevil, sunflower moth, banded sunflower moth, woollybears, seed weevil, and grasshoppers.

Preplant Incorporation Treatment

Use Chlorpyrifos 4# AG insecticide at the following rates by application in sufficient water to the soil surface and incorporate into the soil:

PESTS	Chlorpyrifos 4# AG	
Cutworms	2 - 4 pints/acre	

Use recommended rate in not less than 10 gallons of water per acre and apply as a broadcast spray to the soil surface using suitable power-operated ground spray equipment. On the same day of treatment, incorporate the insecticide into the top 2 to 4 inches of soil using a disc, field cultivator or equivalent equipment.

Postemergence Treatment

Use Chlorpyrifos 4# AG for control of the following pests at the dosage indicated by application in sufficient water to ensure thorough coverage of treated plants:

PESTS	Chlorpyrifos 4# AG
Cutworms	2 - 3 pints/acre
Sunflower beetle larvae and adults Stem weevil Sunflower moth Banded sunflower moth Woollybears Seed weevil	1 - 1 1/2 pints/acre
Grasshoppers	1 pint/acre

Apply as a broadcast spray using either aerial (fixed-wing or helicopter) or power-operated ground spray equipment when field counts indicate that pests are or may become a problem. For cutworm control, a second treatment may be made 7 to 10 days later, if needed. For stem weevil control, optimal treatment time is within 5 to 7 days after adult weevils begin to appear. For sunflower moth control, make first application during early 1 to 5 percent bloom stage. A second treatment may be made 7 days later, if needed. For seed weevil control, treat when field counts indicate there are 10 to 12 adults per plant for oil crops and 1

to 3 adults per plant on confectionery crops. Additional treatments should be made at successive 7 to 10 day intervals if field counts indicate need to re-treat. For sunflower beetle larvae or adult control, treat when field counts indicate there are 10 larvae or 1 to 2 adults per seedling. Additional treatments may be made at successive 7 to 10 day intervals if field counts indicate need to re-treat.

RESTRICTIONS: Do not apply more than 9 pints of Chlorpyrifos 4# AG per acre per season. Do not apply within 42 days before harvest. Do not allow livestock to graze in treated areas. REI is 24 hours.

SUGAR BEETS

Soil Treatment (at Planting or Preplant Incorporated)
To reduce feeding damage from early season insects such as cutworms, use Chlorpyrifos 4# AG at planting or as a preplant treatment and incorporate to a depth of 1 to 2 inches. Do not apply as an in-furrow treatment. Apply 1 pint of Chlorpyrifos 4# AG per planted acre to a 10-inch wide band centered on the row for furrows 30 inches apart. (For rows 30 inches apart, this is equivalent to 9.2 fluid ounces of Chlorpyrifos 4# AG per 10,000 feet of row.) For other row widths, adjust the spray volume per planted acre in proportion to the area actually treated.

Postemergence Treatment

Use Chlorpyrifos 4# AG as a broadcast foliar spray. Treat when field counts indicate that damaging insect populations are or may be a problem. Retreat when necessary to maintain control of target pests.

Broadcast application: Apply the specified dosage in a total spray volume of 2 to 5 gallons of water per acre using suitable aerial spray equipment of 10 to 30 gallons of water per acre when using power-operated ground equipment.

PESTS	CHLORPYRIFOS 4# AG		
Grasshoppers ¹	1/2 - 1 pint/acre		
Sugar Beet Root Maggot Adults (present at time of applications)	1 pint/acre		
Beet Armyworms	1 1/2 - 2 pints/acre		
Cutworms	2 pints/acre		

The lower rate will control young nymphs.

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Band application to control Sugar Beet Root Maggot: Apply 2 pints of Chlorpyrifos 4# AG per acre on a broadcast basis, e.g., 2/3 pints/acre in a 7.5 inch band based on a 22-inch row spacing. For rows 22 inches apart, this is equivalent to 13.5 fluid ounces of Chlorpyrifos 4# AG per 10,000 feet of row. For band application, do not apply less than 20 gallons of water per acre on a broadcast basis.

RESTRICTIONS: Do not apply within 30 days before harvest of beet roots and tops. Do not apply more than a total of 8 pints of Chlorpyrifos 4# AG on a broadcast basis, or make more than four applications per season. Do not allow livestock to graze in treated areas or harvest treated beet tops as feed for meat or dairy animals within 30 days after last treatment. REI is 24 hours.

SWEET POTATOES

Use Chlorpyrifos 4# AG to reduce the feeding damage caused by populations of Conderus wireworm, Systena flea beetle and the sweet potato flea beetle. Apply at the rate of 4 pints per acre as a broadcast (overall) spray to the soil surface followed by incorporation. Mix the specified dosage with enough water to obtain uniform coverage and apply as a coarse spray using suitable ground spray equipment. Incorporate the insecticide to a depth of 4 to 6 inches as soon as possible after application by using a rotary hoe, disc cultivator, or other suitable incorporation equipment. Plant the crop in the usual manner no later than 14 days after treatment (any delay in planting will reduce the length of time that Chlorpyrifos 4# AG will protect against feeding damage). Chlorpyrifos 4# AG will not control false wireworms or white fringe beetle or other grubs that attack sweet potatoes. RESTRICTIONS: Do not make more than one application per season. Do not harvest within 125 days of treatment. REI is 2 days.

TOBACCO

Use Chlorpyrifos 4# AG for preplant treatment to control larvae of cutworms, flea beetles, mole crickets, root maggots, and wireworms. Apply 2 to 3 quarts of Chlorpyrifos 4# AG per acre in not less than 10 gallons of water as a broadcast (overall) spray to the soil surface 24 - 48 hours before bedding and transplanting. Immediately following application, incorporate the insecticide into the soil to a depth of 2 to 4 inches using suitable equipment. The application of Chlorpyrifos 4# AG will also suppress the movement of imported fire ants into treated fields.

To control the above insects and low to moderate populations of rootknot nematodes in North Carolina, South Carolina, and Virginia, use Chlorpyrifos 4# AG at the rate of 5 quarts per acre. To control the above insects and moderate populations of rootknot nematodes in all tobacco growing regions, use Chlorpyrifos 4# AG in a tank mix with Nemacur 3 at the rate of 2 quarts of Chlorpyrifos 4# AG plus 4 quarts of Nemacur 3 per acre.

Read and carefully follow all applicable directions, restrictions, and precautions on labeling for Nemacur 3 used in combination with Chlorpyrifos 4# AG. Apply the specified dosage in not less than 10 gallons of water as a broadcast (overall) spray to the soil surface 24 to 48 hours before bedding and transplanting. Immediately following application, incorporate into the soil to a depth of at least 4 inches using suitable equipment. Where the nematode species Meloidogyne arenaria or M. javanica are present or high populations of M. incognita, apply Telone* II soil fumigant at the recommended label rate.

Before broadcast application of Chlorpyrifos 4# AG onto existing beds, knock down beds to final shape for transplanting. Use of PTO driven implements that will incorporate Chlorpyrifos 4# AG to a depth of 4 inches is recommended.

RESTRICTIONS: Do not make more than one application per season. REI is 24 hours.

TREE FRUITS

Post-bloom use on apple trees is prohibited.

Use Chlorpyrifos 4# AG as a dormant or delayed dormant spray at the rates indicated to control the following insects on the crops listed. While Chlorpyrifos 4# AG may be used without oil, oil is recommended to control additional pests such as European red mite.

CROP	INSECT	Chlorpyrifos 4# AG PER 100 GALLONS OF SPRAY*
Apples**	Rosy apple aphid San Jose scale Lygus Pandemis leafroller Climbing cutworms Oblique banded leafroller	
Pears	San Jose scale Climbing cutworms Pear psylla adults	1/2 - 1 pint (use a minimum of 1.5 pints/acre)
Plums Prunes	San Jose scale Mealy plum aphid	

	Climbing cutworms Peach twig borer	
Almonds Peaches Nectarines	San Jose scale Peach twig borer Climbing cutworms	

^{*} Based on 200 to 600 gallons per acre as a dilute spray.

For dilute sprays, tank mix the specified dosage with 1 to 2 gallons of a petroleum spray oil recommended for dormant use in 100 gallons of water and spray the entire tree by application to runoff using suitable ground spray equipment. (See "Additional Precautions Specific to California" for use in California).

For low volume (concentrate) sprays, less than 200 gallons of spray mixture per acre, use the same amount of Chlorpyrifos 4# AG as for a dilute spray and apply in a manner that will ensure thorough coverage of the trees. Use the higher dosage of Chlorpyrifos 4# AG for severe infestations. Use oil as recommended by your state agricultural experiment station or extension service specialist.

PRECAUTIONS: Because cold or dry conditions may cause Chlorpyrifos 4# AG plus oil sprays to infuse trees resulting in bud damage or drop, do not apply until winter rains or irrigation has replenished soil moisture such that bark and twigs are not desiccated. Do not use more than 4 pints of Chlorpyrifos 4# AG per acre.

Additional Precautions Specific to California: Use a minimum of 250 gallons of total spray volume per acre. Do not use more than 4 gallons of spray oil per acre on almonds, peaches, or nectarines. Do not use any adjuvants or surfactants in addition to or as a substitute for a petroleum spray oil in a tank mix with Chlorpyrifos 4# AG. Do not apply on almonds in the following counties in California: Butte, Colusa, Glenn, Solano, Sutter, Tehama, Yolo, and Yuba.

RESTRICTIONS: Make only one application during the dormant season. Do not allow meat or dairy animals to graze in treated orchards. REI for fruit trees is 4 days.

TREE NUTS

Use Chlorpyrifos 4# AG at the dosage indicated by application as a foliar spray to control pests listed in the following table. Mix the required dosage in sufficient water to ensure thorough and complete coverage of the foliage and crop and apply as a concentrate or dilute spray using conventional, power-operated spray equipment. For dilute sprays applied to tree nut crops, mix the required dosage in sufficient water to allow for spray to

^{**} Post-Bloom application is prohibited.

runoff. For concentrate sprays, apply an equivalent amount of Chlorpyrifos 4# AG per acre. Treat when pests appear or in accordance with local conditions. Insect control by aerial application may be less than control by ground application because of less coverage. Consult your state agricultural experiment station, certified pest control advisor, or extension service specialist for specific use information in your area.

ALMONDS, FILBERTS, WALNUTS

Use Chlorpyrifos 4# AG at the rates indicated to control the lists pests.

F	escs.				
CROP	INSECTS CONTROLLED	DOSAGE Chlorpyrifos 4#	RESTRICTIONS		
Almonds	Navel orangeworm Peach twig borer San Jose scale	4 pints/acre	Make no more than 3 foliar applications per season on almonds and		
Filberts	Eye-spotted bud moth Filbert aphid Filbert leafroller Filbert worm Obliquebanded leafroller Omnivorous leaftier Winter moth	3 - 4 pints/acre	filberts and no more than 2 applications per season on walnuts. Do not apply within 14 days of harvest. Do not allow livestock to graze in treated		
Walnuts	Codling moth Walnut scale	4 pints/acre	orchards.		

PECANS

Use Chlorpyrifos 4# AG at the rates indicated to control the listed pests.

INSECTS CONTROLLED	DOSAGE OF Chlorpyrifos 4# AG (Dilute or Concentrate) Pints/Acre	REMARKS AND RESTRICTIONS
Pecan nut casebearer Fall webworm Phylloxera spp.1	1 1/2 - 4	Make no more than five applications per year. Do not apply within 28 days of harvest. Do not allow livestock to graze in
Black pecan aphid Hickory shuckworm ² Pecan leaf scorch mite(suppression) ³ Fire ants and other ants species ⁴	2 - 4	treated orchards. Make no applications of tank mixtures closer to harvest than the longest pre-harvest interval shown for any of the products in the tank mixture. For dilute applications with
Yellow pecan aphid Black margined aphid	1 - 4 pints of Chlorpyrifos 4# AG plus:	ground equipment use at least the minimum rate of Chlorpyrifos 4# AG listed for the pest. Apply in 100-600 gallons of water per acre. For aerial applications use 5-15



1.70 fl oz Asana 1.9EC, OR 3.00 fl oz of Ammo	gallons of water per acre. Restricted Entry Interval (REI) is 2 days.
2.5EC, OR 2.56 fl oz of Cymbush 3E	Note: With aerial application control may be reduced due to poor coverage. Up to 20 pints of Chlorpyrifos 4# AG may be applied per acre per year.

¹ For best Phylloxera spp. control, make 2 applications at a 7 to 10 day interval using a minimum of 1.0 pint of Chlorpyrifos 4# AG per acre starting at bud swell.

ALMOND ORCHARD FLOORS

Use Chlorpyrifos 4# AG to control Southern fire ant and pavement ant by applying the specified dose with ground application equipment that will uniformly apply the spray to the orchard floor. Use when ant activity becomes evident within the orchard. Since worker ants cease most of their foraging activity at temperatures above 90°F, best results will be achieved with applications made at temperatures below 90°F at the time of application. Dosage of Chlorpyrifos 4# AG and spray volume may vary depending on the irrigation method employed in the orchard as follows:

Ant Control in Sprinkler - or Drip-irrigated Orchards

Apply Chlorpyrifos 4# AG as a broadcast spray to the entire orchard floor using ground spray equipment at 4 to 8 pints per acre in 25 or more gallons of water. Use the high rate for heavy infestations and the low rate for light infestations. In orchards where ant activity is concentrated around the irrigation emitters, apply the high rate to a 6 to 8 foot band along the drip-irrigation line and the low rate to the rest of the orchard.

Ant Control in Flood-irrigated Orchards

Apply Chlorpyrifos 4# AG at 4 to 8 pints per acre in 25 or more gallons of water to the entire orchard floor using ground spray equipment. Apply the high rate to heavily infested areas and the

² For best results make 2 applications, 10 to 14 days apart.

³ To suppress pecan leaf scorch mite, use a preventative program.

⁴ For ant control, apply as an orchard floor spray. Do not apply where weed growth or other obstructions prevent uniform coverage of the orchard floor.

low rate to lightly infested areas. Where ant colonies are abundant only in the berm areas, apply Chlorpyrifos 4# AG at 8 pints per treated acre in 50 or more gallons of water to a 6 to 10 foot band along the tree line (berm).

Do not apply where weed growth or other obstructions would impede uniform coverage of the orchard floor. Mow or chemically control weeds before the application of Chlorpyrifos 4# AG. Foliar applications of Chlorpyrifos 4# AG may be made in addition to the orchard floor treatment.

RESTRICTIONS: Do not apply more than 16 pints of Chlorpyrifos 4# AG per season to the orchard floor. Do not apply the last treatment within 14 days of harvest. Do not allow livestock to graze in treated orchards. Restricted Entry Interval (REI) is 2 days.

VEGETABLES

Use Chlorpyrifos 4# AG at the dosages indicated to control the pests listed in the following table. To avoid phytotoxicity in vegetables except Brussels sprouts, do not mix with other pesticide products or treat plants that are under extreme heat and drought stress.

				
CROP	INSECTS CONTROLLED	DOSAGE Chlorpyrifos 4# AG	USE DIRECTIONS	RESTRICTIONS
Cauli- flower*	Root maggot	1.6-2.4 fl oz/1000 linear ft or row	For direct seeded crops apply the specified dosage in a water-based spray as a 4-inch wide	Do not apply more than 2 pints of Chlorpyrifos 4# AG to cauliflower planted in 40 inch rows. Use
Broccoli Brussels sprouts Cabbage Chinese cabbage Collards Kale Kohlrabi Turnips	Root maggot	1.6 - 2.75 fl oz/1000 linear ft of row	band over the row at planting time. Shallow incorporation is necessary. Placement behind the planter shoe and in front of the press wheel is recommended. For transplanted crops, apply Chlorpyrifos 4# AG as a water-based spray directed to the base of the plants immediately after setting. Use a minimum of 40 gallons of total spray per acre. Do not add any	proportional amounts for other row spacings not to exceed 4 pints of Chlorpyrifos 4# AG per acre. Do not apply more than 2.6 pints of Chlorpyrifos 4# AG per acre to broccoli, brussels sprouts, cabbage, Chinese cabbage, collards, kale, kohlrabi, and turnips planted in 40-inch rows. Do not apply more than 4 1/2 pints of Chlorpyrifos 4# AG

CROP	INSECTS	DOSAGE	USE DIRECTIONS	RESTRICTIONS
	CONTROLLED	Chlorpyrifos 4# AG	additional adjuvants, surfactants or spreader stickers. Do not apply as a foliage application.	per acre to these crops in 20-inch rows (or two rows per bed). Use proportional amounts for other row spacings not to exceed 4 1/2 pints of Chlorpyrifos 4# AG per acre.
Broccoli Cabbage	Root aphid	1.2 fl oz/1000 ft of row for single row plantings, and 2.4 fl oz/1000 linear ft of row for double row plantings.	Apply Chlorpyrifos 4# AG in a water emulsion or with liquid fertilizer injected as a sidedress on each side of the row after plants are established. Avoid mechanical damage to crop roots. Use a minimum of 15 gallons of total spray volume per acre.	Do not make more than one application per season or apply within 30 days before harvest.
Brussels sprouts	Armyworms Cabbage aphid Cutworms Imported cabbage- worm Striped flea beetle (adult)	1 - 2 pints/acre	Apply Chlorpyrifos 4# AG with conventional power- operated spray equipment in 20 to 150 gallons of water per acre. Apply when insects appear on foliage and at 7 to 14 day intervals thereafter as needed. Consult your state agricultural experiment station, extension service specialist, or integrated pest control advisor for proper time to treat in your area.	Do not make more than 6 applications per season. Do not apply within 21 days before harvest.
Radishes	Root maggot	1.0 fl oz/1000 linear ft of row	Apply the specified dosage as a water-based drench in the seed furrows with the seed at planting time. Use a minimum of 40 gallons of total drench per acre.	Do not apply more than 5 1/2 pints of Chlorpyrifos 4# AG per acre or make more than one application per season.
Ruta- bagas	Root maggot	1.6-3.3 fl oz/1000	Apply the specified dosage in a water-	Do not apply more than 4 1/2 pints of

CROF	INSECTS CONTROLLED	DOSAGE Chlorpyrifos 4# AG	USE DIRECTIONS	RESTRICTIONS
		linear ft of row	based spray as a 4- inch wide band over the row at planting time, behind the planter shoe and in front of the press wheel to achieve shallow incorporation. Use a minimum of 40 gallons of total spray volume per acre.	Chlorpyrifos 4# AG per acre or make more than one application per season. Do not use rutabaga tops for food or feed purposes.

* Restricted Entry Interval (REI) for cauliflower is 3 days. Pre-Harvest Interval (PHI) is 10 days.

WHEAT

For distribution and use in Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, New Mexico, Nevada, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming.

For Control of Aphids, including Russian wheat aphid, grasshoppers, wheat midge, and cutworms infesting wheat.

INSECTS CONTROLLED	DOSAGE Chlorpyrifos 4# AG	USE DIRECTIONS	RESTRICTIONS
Aphids Grasshoppers	½ to 1 pint per acre		Do not make than two applications per crop. Do not apply within 28
Wheat Midge	1 pint per acre	Treatment is recommended when 75% of the wheat heads have emerged from the boot and when midge adults are found in the crop (1 midge per 4-5 heads). Application timing is critical to ensure good control. If possible, apply in the late afternoon or early evening when temperatures exceed 50 F and wind speed is less than 7 mph.	 Do not apply within 28 days of harvest. Do not allow livestock to graze or otherwise feed on treated forage within 14 days of application. Do not feed straw from treated wheat within 28 days of application. Do not apply directly to bodies of water. Do not apply product where runoff is likely to occur to aquatic habitats (inckuding lakes, public resevoirs, rivers, permanent streams, marshes, antural ponds, estuaries, or other natural waters). Do not apply when weather conditions favor drift or runoff from treated areas.

INSECTS CONTROLLED	DOSAGE Chlorpyrifos 4# AG	USE DIRECTIONS	RESTRICTIONS
Army Cutworms	1 pint per acre	For control of army cutworms and suppresion of other cutworm species. Control may be reduced under high temperature conditions (greater than 80 F), under dry soil conditions, or if larvae are more than ½ inch long. Treat when field counts or crop injury indicates that damaging pest populations are developing or present. A second application of 1 pint per acre may be made for additional control. Mix the required dosage with water and apply in a minimum of two gallons per acre finished spray volume.	

Ground Application

- For ground applications , the distance fro mtreated areas to aquatic habitats (including lakes, public resevoirs, rivers, permanent streams, marshes, natural ponds, estuaries or other natural waters) must be thirty feet or more
- Do not make ground applications if wind speed is greater than 15 mph.
- Do not apply at spray boom pressures greater tan 45 psi.

Aerial Application

- Do not apply by air within 300 feet of aquatic habitats (including lakes, public reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries or other natural waters).
- Do not make aerial applications of Chlorpyrifos 4E AG when wind speeds exceed 10 mph or when atmospheric temperature inversion exists.
- Boom length should not exceed 75% of the wing span and release height for aerial applications should be no greater than 10 feet above the crop canopy.

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