ot apply more than 22 pints of ... per season Do not harvest ... livestock to graze in treated ... ated silage, fodder, or grain to ... als within 21 days after treat- ... in conjunction with postplant ... applications of LORSBAN 15G ... te

...RSBAN 4E for control of the ... all states except Arizona and ... osages indicated

plant bugs
¾ to 1 pint per acre.

...armyworm
...der mites,
...ed
½ to 1 pint per acre

...bollworms
... weevil,
...tworm, salt
1½ to 2 pints per acre

...mended dosage rate of ¾ pint ... achieve the high degree of ... her label rate, but will minimize ... by plant bugs and cotton ... allow the beneficial insects to ... and be available to aid in the ... s infesting cotton

...for control of the following pests ... California at the dosages

... aphid cotton
... salt marsh
1 to 2 pints per acre

...this spp.) boll weevil
...tworm 2 pints per acre

...rate will aid in the suppression of ... ator 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

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 it is suggested that fields be scouted twice per week and treatments made when worms are ¼ 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	1/16	Hatch
	3	3/32	I
	5	5/32	II
	6	7/16	III
	8	11/16	IV

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 LORSBAN 4E insecticide 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 spray ...

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 5-15 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 (100-200 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 Do not allow livestock to graze in treated areas Do not feed gin trash or treated forage to livestock*

LORSBAN 4E insecticide may also be used in tank mixtures in all states to control armyworms, bollworms (*Heliothis spp.*), boll weevil, cotton fleahopper, plant bugs (*Lygus, Mirids*), and spider mites as indicated in the following table

TANK MIXTURE	RATE/ACRE
LORSBAN 4E plus Ambush[1] 2E	1 to 2 pints plus 1/5 to 2/5 pint
LORSBAN 4E plus Pounce[2] 3.2E	1 to 2 pints plus 1/8 to 1/4 pint
LORSBAN 4E plus Pydrin[3] 2.4E	1 to 2 pints plus 1/6 to 1/3 pint
LORSBAN 4E plus Bolstar[4] 6E	1/2 to 1 pint plus 2/3 to 1 1/3 pints
LORSBAN 4E plus methyl parathion[5] plus toxaphene[5]	1 pint plus 1 lb a.i. plus 2 lb a.i.
LORSBAN 4E plus methyl parathion[5] Plus EPN[5]	1 pint plus 0.6 lb a.i. plus 0.6 lb a.i.

[1] *Trademark of ICI Americas Inc*
[2] Trademark of FMC Corporation
[3] Trademark of Shell Oil Company
[4] Trademark of Farbenfabriken Bayer Gmbh Leverkusen
[5] Use only emulsifiable formulations containing these active ingredients (a.i.)

Mix the tank mixture components in sufficient water to ensure thorough coverage of plants (at least 1 gallon of spray per acre) and apply using aerial spray equipment Treat when field counts indicate damaging insect populations are developing or present Re-treat as necessary to maintain control

Restrictions: *Make no applications of these tank mixtures closer to harvest than the longest pre-harvest interval shown for any of the products in the tank mixture Do not allow livestock to graze in treated areas Do not feed gin trash or treated forage to livestock Workers entering the field within 48 hours after application should wear protective clothing*

...spray equipment After applica... the insecticide into the soil to a ... inches using a rotary hoe, disc ... suitable incorporation equip... ...ip in the usual manner as soon ... treatment

...ot make more than one applica...

... LORSBAN 4E as a dormant or ... spray at the rates indicated to ... ing insects on the crops listed

Insect	Dosage LORSBAN 4E
...y apple aphid ...Scale ...ing cutworms	
...ese scale ...ing cutworms ...psylla adults	
...ose scale ...plum aphid ...ing cutworms ...tree borer	½ to 1 pint
...ose scale ...twig borer ...ing cutworms	

...ed dosage with 1 to 2 gallons ... spray of recommended for dor... ...gallons of water and spray the ... ...ication to runoff using suitable ... equipment Use the higher dosage ... for severe infestations Use ... as ... your State Agricultural Exper... Extension Service Specialist

...ake only one application during ... ...son Do not allow ... eat or dairy ... treated orchards

VEGETABLES Use LORSBAN 4E to control root maggots on the following crops at the dosages indicated

Cauliflower	1.6 to 2.4 fl oz per 1000 linear feet of row
Broccoli, Brussels Sprouts, Cabbage, Chinese Cabbage, Turnips	1.6 to 2.75 fl oz per 1000 linear feet of row

For **direct seeded crops** apply the specified dosage in a water 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 Apply in a minimum of 40 gallons of total spray per acre

For **transplanted crops**, apply LORSBAN 4E 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 apply as a foliage application**

Restrictions *Do not apply more than 2 pints of LORSBAN 4E to cauliflower planted in 40-inch rows Use proportional amounts for other row spacings not to exceed 4 pints of LORSBAN 4E per acre Do not apply more than 2.6 pints of LORSBAN 4E per acre to broccoli, Brussels sprouts, cabbage, Chinese cabbage, and turnips planted in 40 inch rows or more than 4½ pints of LORSBAN 4E per acre to these crops in 20 inch rows (or two rows per bed) Use proportional amounts for other row spacings not to exceed 4½ pints of LORSBAN 4E per acre Do not make more than one application per season or apply within 30 days before harvest*

Radishes	1.0 fl oz per 1000 linear feet 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

Restrictions *Do not apply more than 5½ pints of LORSBAN 4E per acre or make more than one application per season*

Rutabagas	1.6 to 3.3 fl oz per 1000 linear feet of row

Apply the specified dosage in a water 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 per acre

Restrictions *Do not apply more than 4½ pints of LORSBAN 4E per acre or make more than one application per season Do not use rutabaga tops for food or feed purposes*

To avoid phytotoxicity in vegetable crops do not mix with other pesticide products or treat plants that are under extreme heat and drought stress

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal Open dumping is prohibited Handle concentrate in ventilated area Keep container closed

Pesticide Disposal Pesticide spray mixture or rinse water that cannot be used according to label directions must be disposed of according to approved Federal state or local procedures

Container Disposal Triple rinse (or equivalent) Then offer for recycling or reconditioning or dispose of in a sanitary landfill or by other approved State and local procedures

ATTENTION
Do Not Cut or Weld Container

NOTICE Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use but neither this warranty nor any other warranty of **MERCHANTABILITY** or **FITNESS FOR A PARTICULAR PURPOSE** express or implied extends to the use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonably foreseeable to seller and buyer assumes the risk of any such use

BEST DOCUMENT AVAILABLE

JUL 3 1984

BEST DOCUMENT AVAILABLE

Mr. Robert Bischoff
The Dow Chemical Company
P.O. Box 1706
Midland, MI 48640

Dear Mr. Bischoff:

Subject: Lorsban 4E Insecticide
EPA Registration No. 464-448
Chlorpyrifos For Use on Asparagus
Your Submission of February 13, 1984

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

2. Submit production information (pounds or gallons produced) for this product for the fiscal year in which the use(s) on asparagus is (are) conditionally registered, in accordance with FIFRA sec. 29. The fiscal year begins October 1 and ends September 30. Production information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year.

This information should be submitted to:

Process Coordination Branch
Registration Division (TS-767)
Environmental Protection Agency
Washington, D.C. 20460

3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

SYMBOL ▶							
SURNAME ▶							
DATE ▶							

EPA Form [illegible] (12-68)

OFFICIAL FILE COPY

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Jay S. Ellenberger
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

Enclosure

RD/IRB:DCR-28526:Ellenberger:KIM:5/16/84:Raven:557-2226:RD-36A:Del.6/2/84

BEST DOCUMENT AVAILABLE

SPECIMEN LABEL

ACCEPTED
WITH COMMENTS
IN EPA Letter Dated:

1984

BEST DOCUMENT AVAILABLE

DOW

Lorsban 4E insecticide

For Control of Various Insects
Infesting Certain Field, Fruit, Nut and Vegetable Crops

ACTIVE INGREDIENTS
Chlorpyrifos [O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate] 48.7%
Aromatic petroleum derivative solvent 22.8%
INERT INGREDIENTS 28.5%
Contains 4 pounds of chlorpyrifos per gallon
EPA Reg. No. [illegible] EPA Est. [illegible]

PRECAUCION AL USUARIO: Si usted no lee inglés, no use este producto hasta que le etiqueta le haya sido explicada ampliamente.
TRANSLATION (TO THE USER): If you cannot read English, do not use this product until the label has been fully explained to you.

KEEP OUT OF REACH OF CHILDREN

WARNING

MAY BE FATAL IF SWALLOWED • MAY BE ABSORBED THROUGH SKIN
MAY BE INJURIOUS TO EYES AND SKIN
SEE BACK PANEL FOR ADDITIONAL PRECAUTIONS

In case of an emergency endangering life or property involving this product, call collect
517-636-4400

AGRICULTURAL CHEMICAL
Do Not Ship or Store with Food, Feeds, Drugs or Clothing

18.93 L / 5 gal

THE

KEEP OUT OF REACH OF CHILDREN

WARNING

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

MAY BE FATAL IF SWALLOWED • MAY BE ABSORBED THROUGH SKIN • MAY BE INJURIOUS TO EYES AND SKIN

Do Not Take Internally • Do Not Get in Eyes, on Skin or on Clothing • Avoid Breathing Vapors and Spray Mist • Wash Thoroughly After Handling

Physical and Chemical Hazards

COMBUSTIBLE

Do Not Use or Store Near Heat or Open Flame

Do Not Cut or Weld Container

Environmental Hazards

DIRECTIONS FOR USE

READ AND FOLLOW COMPLETE DIRECTIONS FOR USE AND OTHER IMPORTANT INFORMATION GIVEN IN BOOKLET ATTACHED TO PRODUCT CONTAINER

STORAGE AND DISPOSAL

BEST DOCUMENT AVAILABLE

THE DOW CHEMICAL COMPANY

Midland, MI 48640 U.S.A.

DOW

Lorsban 4E insecticide

For Control of Various Insects Infesting Certain Field, Fruit, Nut, and Vegetable Crops

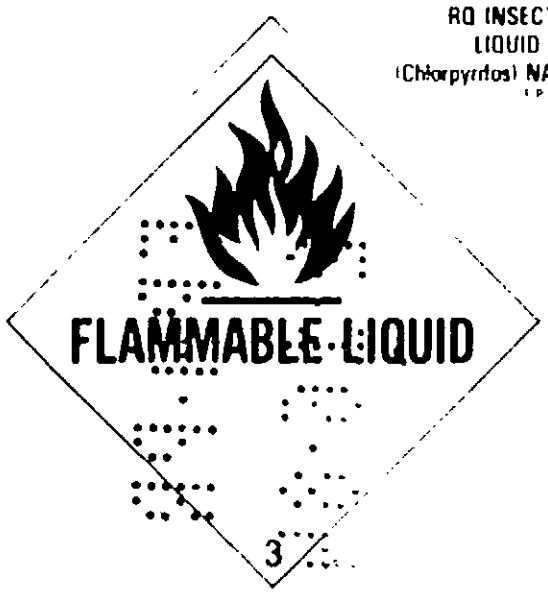
Complete Directions for Use, Use Precautions and Restrictions, Hazards and Other Important Information for the Proper Use, Handling, Storage and Disposal of this Product.

EPA Reg. No. 464-448 EPA Est. 464-MI-1

45378-X483

* Trademark of THE DOW CHEMICAL COMPANY

RQ INSECTICIDE
LIQUID N.O.S.
(Chlorpyrifos) NA 1993



THE DOW CHEMICAL COMPANY

Environmental Hazards

DIRECTIONS FOR USE

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

General Information

Mixing Instructions

Use and Dosage Recommendations

ALFALFA

DOW

Lorsban 4E insecticide

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45378 X483

Trademark of THE DOW CHEMICAL COMPANY

READ ENTIRE LABEL BEFORE USING THIS PRODUCT

PRECAUCION AL USUARIO. Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente

TRANSLATION. (TO THE USER If you cannot read English, do not use this product until the label has been fully explained to you.)

ACTIVE INGREDIENTS

Chlorpyrifos [O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate]	40.7%
Aromatic petroleum derivative solvent	22.8%
INERT INGREDIENTS	36.5%

Contains 4 pounds of chlorpyrifos per gallon

In case of an emergency endangering life or property involving this product, call collect
517-636-4400

AGRICULTURAL CHEMICAL
Do Not Ship or Store with Food Feeds, Drugs or Clothing

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

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HAZARDS
KEEP OUT OF REACH OF CHILDREN
WARNING
PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

MAY BE FATAL IF SWALLOWED • MAY BE ABSORBED THROUGH SKIN • MAY BE INJURIOUS TO EYES AND SKIN
Do Not Take Internally • Do Not Get In Eyes, on Skin or on Clothing • Avoid Breathing Vapors and Spray Mist • Wash Thoroughly After Handling

Statements of Practical Treatment

If Swallowed Do not induce vomiting. Contains aromatic petroleum solvent. Call a physician immediately.

If On Skin In case of contact, remove contaminated clothing and immediately flush skin with soap and water. Wash contaminated clothing before reuse.

If In Eyes. Flush eyes with plenty of water for 15 minutes. Call a physician.

NOTE TO PHYSICIAN Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is an antidote.

Physical and Chemical Hazards
COMBUSTIBLE
Do Not Use or Store Near Heat or Open Flame • Do Not Cut or Weld Container

BEST DOCUMENT AVAILABLE

Page 4

LORSBAN 4E insecticide may also be used in mixtures with certain herbicides and in mixtures with pressure fertilizer solutions as recommended under specific crop use directions. Prepare tank mixtures in the same manner as recommended above for use of LORSBAN 4E and herbicides are recommended add wettable powders first, water and and emulsifiable concentrates last. Where fertilizer solutions are used, it is recommended that a fertilizer compatibility agent such as Lignite be used. Mix fertilizer, compatibility agent, water and spray mixture.

NOTE: Test compatibility of the herbicide mixture before adding LORSBAN 4E to the spray tank. Add proportionately amounts of each product. Agitation, quantity and type of sediment, formation of gelatinous precipitates, thickening, or other undesirable physical changes should be observed. Do not use if such conditions are observed.

Trademark of The Hopkins Agricultural Chemical Company

Trademark of Allied Chemical

Use and Dosage Recommendations

ALFALFA Use LORSBAN 4E [illegible] as suggests at the dosages [illegible] applicable for foliar spray.

Control of adults of spotted alfalfa weevil, grasshoppers, [illegible]

Alfalfa butterfly caterpillars, alfalfa weevil larvae, blister beetles, armyworms, [illegible], alfalfa weevil larvae, alfalfa plant bugs, leafhoppers, [illegible]

Page 5

Mix the required [illegible] water [illegible] apply using [illegible] per acre [illegible]

LORSBAN 4E [illegible] Alfalfa [illegible] LORSBAN 4E. Alfalfa [illegible] fertilizer [illegible] LORSBAN 4E. Alfalfa [illegible]

Restrictions [illegible] treated alfalfa within 14 days after application [illegible] LORSBAN 4E per acre [illegible] 4 applications [illegible]

CITRUS FRUITS [illegible] LORSBAN 4E [illegible] suggests [illegible] and [illegible] stations

Page 6

Dosage LORSBAN 4E for Spray Coverage: Pints/gal water	Dilute or Concentrate (Pints/Acre)	Gallons of Spray Per Acre for Dilute Applications[1]	Remarks
[illegible]	[illegible]	[illegible]	Use [illegible] water [illegible]
[illegible]	[illegible]	[illegible]	Use directions apply [illegible]

In California apply as Through Distribution Coverage (TDC) using [illegible] LORSBAN 4E in 100 gallons of water and 6½ pints LORSBAN 4E per acre for dilute sprays. For dilute sprays apply 600 to 1,200 gallons of spray per acre.

In California apply as Through Coverage (TC) using same [illegible] dilute sprays apply 1,200 to 1,400 gallons of spray per acre but [illegible] 12 pints of LORSBAN 4E per acre.

Use coverage per acre based on average size of mature trees. Adjust rates as per acre.

For dilute applications use the specified dosage in 100 gallons of water for the spray type indicated for pesticide [illegible]. For **concentrate sprays** use the same amount of LORSBAN 4E per acre [illegible] as and when [illegible] application coverage [illegible] treat when insects become a problem [illegible] the spray schedule [illegible] Extremes of service [illegible] for a given period [illegible] Consult your local [illegible] **TRANSPORTATION** [illegible]

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[illegible] LORSBAN 4E to control cutworms by [illegible] the rate of 2 pints per acre. Mix [illegible] water [illegible] coverage of treated plants and apply as a [illegible] using suitable [illegible] operated ground spray [illegible]. It is [illegible] to apply LORSBAN 4E when the soil is moist and worms are active on or near the soil surface.

[illegible]

[illegible] 2 applications [illegible] 10 days [illegible] 21 days [illegible] 7 days [illegible] spray [illegible] Do not [illegible] spray.

SWEETCORN [illegible] leafhoppers [illegible]

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DOW

Lorsban 4E insecticide

For Control of Various Insects Infesting Certain Field, Fruit, Nut, and Vegetable Crops

Complete Directions for Use, Use Precautions and Restrictions, Hazards and Other Important Information for the Proper Use, Handling, Storage and Disposal of this Product

EPA Reg. No. 464-448 EPA Est. 464-MI-1

45378-X483

Trademark of THE DOW CHEMICAL COMPANY

READ ENTIRE LABEL BEFORE USING THIS PRODUCT

PRECAUCION AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente

TRANSLATION (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

ACTIVE INGREDIENTS:

Chlorpyrifos [O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate]	40.7%
Aromatic petroleum derivative solvent	22.8%
INERT INGREDIENTS	36.5%

Contains 4 pounds of chlorpyrifos per gallon

In case of an emergency endangering life or property involving this product, call collect
517-636-4400

AGRICULTURAL CHEMICAL
Do Not Ship or Store with Food, Feeds, Drugs or Clothing

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

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Onions	22
Peaches	22
Peanuts	23
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Strawberries	24-25
Sunflowers	25-26
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HAZARDS
KEEP OUT OF REACH OF CHILDREN
WARNING

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

MAY BE FATAL IF SWALLOWED • MAY BE ABSORBED THROUGH SKIN • MAY BE INJURIOUS TO EYES AND SKIN

Do Not Take Internally • Do Not Get In Eyes, on Skin or on Clothing • Avoid Breathing Vapor and Spray Mist • Wash Thoroughly After Handling

Statements of Practical Treatment

If Swallowed Do not induce vomiting. Contains aromatic petroleum solvent. Call a physician immediately.

If On Skin In case of contact, remove contaminated clothing and immediately flush skin with soap and water. Wash contaminated clothing before reuse.

If In Eyes Flush eyes with plenty of water for 15 minutes. Call a physician.

NOTE TO PHYSICIAN Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is an antidote.

Physical and Chemical Hazards

COMBUSTIBLE

Do Not Use or Store Near Heat or Open Flame • Do Not Cut or Weld Container

BEST DOCUMENT AVAILABLE

LORSBAN 4E insecticide may also be used in tank mixtures with certain herbicides and in with non-pressure fertilizer solutions as recommended in specific crop use directions. Prepare tank mixtures in the same manner as recommended for use of LORSBAN 4E alone. When tank mixtures of LORSBAN 4E and herbicides are used, add wettable powders first, flowables and emulsifiable concentrates last. Treatment solutions should be used immediately. It is recommended that a test for compatibility be made by agent such as [illegible] Maintain constant agitation during the [illegible] application. Do not store [illegible] mixture.

[illegible] 4E. Test compatibility of the intended tank mixture before adding LORSBAN 4E to the spray in a tank. Add proportionate amounts of each product in approximately equal parts and shake and stir 15 minutes. Formulations that [illegible] readily form sprayable dilutions are incompatible [illegible]

[illegible] Trademark of The [illegible] Company

[illegible]

Use and Dosage R[illegible]

ALFALFA Use LOR[illegible] Treat when the [illegible] broadcast [illegible]

[illegible] spotted cu[illegible] grasshoppers [illegible] alfalfa weevil, [illegible] armyworms, [illegible] alfalfa weevil [illegible] plant bugs, [illegible] spittlebugs [illegible]

Mix the required dosage with enough water to ensure thorough coverage of crop foliage and apply using aerial, ground, hand wand or hand [illegible] power operated ground spray equipment. For aerial application use at least 2 gallons of water per acre. Treat when field counts [illegible] indicate that damaging pest populations are developing or present. Do not apply more than one application per growing [illegible]

LORSBAN 4E [illegible] with pest [illegible] [illegible] LORSBAN 4E. Alfalfa [illegible] **Do not apply when bees are clustered outside of hives and bees are foraging. Protective information must be observed.**

CROP	PEST	Dosage LORSBAN 4E for Spray Coverage: Dilute (Pints/100 gal. water)	Dosage LORSBAN 4E for Spray Coverage: Dilute or Concentrate (Pints/Acre)	Gallons of Spray Per Acre For Dilute Applications*	Remarks
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Use directions apply in all states except California
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Use directions apply in all states except California. See footnotes 1 & 2

[illegible]

[1] In California apply as Thorough Distribution Coverage (TDC) using ½ to 1 pint of LORSBAN 4E in 100 gallons of water and 6 to 12 pints LORSBAN 4E per acre in dilute or concentrate sprays. For dilute sprays apply 600 to 1200 gallons of spray per acre.

[2] In California apply as Thorough Coverage (TC) using same dosages as in [1]. For dilute sprays apply 1200 to 2400 gallons of spray per acre but do not apply more than 12 pints of LORSBAN 4E per acre.

*Gallons per acre based on average size of mature trees. Adjust to tree size per acre.

For dilute applications use the specified dosage in 100 gallons of water for the spray type indicated for pest to be controlled. For **concentrate sprays** use the same amount of LORSBAN 4E per acre that would be needed for application as a dilute spray using appropriate application coverage procedures. Treat when insects become a problem in accordance with the local spray schedule recommended by our State Extension Service Specialist. Do not apply during bloom period or when temperatures exceed 95°F. Do not tank mix LORSBAN 4E and PLICTRAN® 50W [illegible] within [illegible] days.

Restrictions Do not apply more than 2 applications per [illegible] year. [illegible] than 15 pints of LORSBAN 4E [illegible] per acre per [illegible] year. [illegible] days of the last application. Do not graze within 21 days after harvest. For applications of 7 pints of LORSBAN 4E per acre within 35 days [illegible] application [illegible] 7 pints per acre. Do not graze within 2 days after treatment. Do not feed or graze treated areas.

FIELD CORN POPCORN SWEETCORN For control [illegible] armyworms, [illegible] bugs, grasshoppers, [illegible] beetle, [illegible] western bean [illegible] and [illegible]

BEST DOCUMENT AVAILABLE

Preplant Incorporation Treatment Use LORSBAN 4E at the following rates by application in sufficient water to the soil surface and incorporate into the soil

Cutworms symphylans	2 to 4 pints per acre
Wireworms billbugs flea beetle larvae grubs	4 pints per 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

LORSBAN 4E insecticide may also be applied in tank mixtures with non pressure fertilizer solutions and or with Bladex[1] Eradicane[2] Sutan[2] Lasso[4] Dual[5] and Atrazine herbicides See the Mixing Instructions section of this label for further information Read and carefully follow all applicable directions restrictions and precautions on labeling for the other products used in combination with LORSBAN 4E

[1] Trademark of Shell Chemical Company
[2,3] Trademark of Stauffer Chemical Company
[4] Trademark of Monsanto Company
[5] Trademark of Ciba Geigy Corporation

Cultivation Time Treatment Use LORSBAN 4E at the rate of 2 pints per acre to control corn rootworm larvae Apply LORSBAN 4E 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 LORSBAN 4E may be made in addition to an at planting application of LORSBAN 15G granular insecticide

Postemergence Treatment Use LORSBAN 4E at the following rate by application in sufficient water to ensure thorough coverage of treated plants

Grasshoppers	½ to 1 pint per acre
Armyworms chinch bugs aphids	1 to 2 pints per acre
European and southwestern corn borer	1.5 to 2 pints per acre
Cutworms billbugs lesser cornstalk borer flea beetle adults western bean cutworm	2 to 3 pints per acre

Treat when field counts indicate that pests are or may become a problem For best billbug chinch bug and flea beetle adult control apply with sufficient water to insure 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 When chinch bugs continue to immigrate to corn over a prolonged period or under extreme pressure a second application of LORSBAN 4E may be needed

For cutworm western bean cutworm armyworm aphid European and southwestern corn borer grasshopper and lesser cornstalk borer control apply as a broadcast spray using either aerial (fixed wing or helicopter) or power operated ground spray equipment For aerial application use at least 2 gallons of spray per acre For cutworms it is preferable to apply LORSBAN 4E 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 Consult your Agricultural Experiment Station or Extension Service specialist for additional information concerning cutworm control practices in your area For first generation European corn borer control treat when 25 to 50 percent of the corn plants show pinhole feeding or leaf feeding scars Ground applications should be directed into the corn whorls For second generation European corn borer control treat when field counts of egg masses indicate pests are or may become a problem 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

LORSBAN 4E insecticide may also be applied through **overhead sprinkler irrigation systems** as a postemergence broadcast application to control the above listed foliar insects as per the following directions for use

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 Calibrate the injector system Prepare a mixture of **non-emulsifiable oil** and LORSBAN 4E in a steel mix tank after determining the amount of insecticide that will be injected per hour at the desired rate and time of operation Pump one half of the non emulsifiable oil into the steel mix tank, start mechanical or hydraulic agitation and continue to slowly add the remainder of the LORSBAN 4E and oil Continually agitate the LORSBAN 4E plus oil mixture Set the sprinkler system to deliver the desired inches of water per acre (water rates less than 0.5 inch per acre are preferred) Start the water pump and sprinkler and let the system achieve the desired pressure and speed before starting the injector The LORSBAN 4E plus oil mixture must be injected continuously and uni-

formly into the irrigation water line as the sprinkler is moving This procedure is necessary to deliver the desired rate per acre in a uniform manner When application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system

For best results use the recommended rate of LORSBAN 4E in a tank mix with 2 pints per acre of non emulsifiable oil Maintain vigorous tank agitation to assure uniformity of the LORSBAN 4E plus oil mixture throughout the injection period

The following use precautions will result in a safe and successful application of LORSBAN 4E plus oil mixtures

1. **USE ONLY IN STEEL MIX TANKS**
2. **USERS OF LORSBAN 4E INSECTICIDE THROUGH OVERHEAD SPRINKLER IRRIGATION SYSTEMS SHOULD COMPLY WITH ALL FIRE REGULATIONS THAT APPLY TO CLASS 1C FLAMMABLE LIQUIDS MINIMUM DISTANCES AND PROPER ELECTRICAL CONSTRUCTION IS ESSENTIAL TO SAFELY HANDLE LORSBAN 4E. ELECTRICAL INSTALLATIONS MUST MEET CLASS 1 GROUP D DIV 1 OR 2 REQUIREMENTS AS SPECIFIED IN THE NATIONAL ELECTRICAL CODE 70 (NEC 70) THIS TYPE OF WIRING IS GENERALLY REFERRED TO AS EXPLOSION PROOF. CONSULT WITH A LICENSED ELECTRICIAN TO CORRECTLY WIRE THE INJECTION SYSTEM AS DEFINED BY NEC 70**
3. The irrigation pumping plant and the chemical injection pump should be interlocked so that if the irrigation pumping plant stops, the chemical injection pump also will stop This procedure will prevent the possibility of filling the entire irrigation pipeline with the chemical mixture from the supply tank
4. Check and vacuum relief valves (anti siphon devices) are needed in the irrigation pipeline

to keep water and/or a mixture of [illegible] chemical from draining or siphoning [illegible] the irrigation well and polluting t[illegible] water Both of these valves are lo[illegible] **tween** the irrigation pump discharg[illegible] place of chemical injection into the pipeline

5. A check valve in the chemical injec[illegible] needed to stop the flow of water [illegible] irrigation system into the chemic[illegible] tank
6. A positive displacement pump is r[illegible] provide uniform injection into the w[illegible] The injector pump must provide [illegible] pressure than that of the irrigation [illegible] the point of injection The pump mu[illegible] Viton seals and be rated for use in h[illegible] areas All electrical service inside t[illegible] zone must meet National Fire Prot[illegible] sociation 30 (NFPA 30) and NEC 70
7. To insure uniform mixing of the i[illegible] into the water line, inject the mixtur[illegible] fertilizer injection port or just ahe[illegible] elbow or tee in the irrigation line s[illegible] turbulence created at those points [illegible] in mixing
8. The steel tank holding the insectici[illegible] should be large enough to allow the [illegible] complete a revolution with one [illegible] should be free of rust fertilizer, sed[illegible] foreign material and equipped with [illegible] strainer situated between the tan[illegible] injector pump
9. In order to calibrate the irrigation sy[illegible] injector to apply the LORSBAN 4[illegible] mixture, determine the following 1) [illegible] the number of acres covered by the [illegible] the number of minutes for the syster[illegible] one revolution 3) the number of [illegible] water per acre delivered by the syst[illegible] number of minutes required for th[illegible] pump to inject one gallon of insect[illegible]

GRAIN SORGHUM Use LORSBAN 4E to control infestations of the Sorghum midge by application as a broadcast foliar spray at the rate of ½ pint per acre Mix the specified dosage in enough water to ensure thorough coverage and apply using suitable aerial or ground spray equipment Make the first application when 30 to 50 percent of the seed heads are in bloom and midge adults are present A second and third treatment at 3 day intervals may be needed but do not exceed 3 applications To avoid phytotoxicity do not treat plants that are under extreme heat and drought stress

Restrictions *The treated crop is not to be used for forage fodder hay or silage within 14 days after the last treatment Do not treat sweet varieties of sorghum*

GRAPES Use LORSBAN 4E insecticide for control of grape root borer by application just before the pest emerges from the soil Mix 4½ quarts of LORSBAN 4E with 100 gallons of water and apply [illegible] 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 [illegible]

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 LORSBAN 4E on grapes is restricted to states East of the Rocky Mountains*

MINT Use LORSBAN [illegible] broadcast [illegible] spray [illegible] cutworms at the rate of 2 to 4 pints per acre [illegible] the rate of 4 pints per acre Mix the specified dosage in water [illegible] less than 10 gallons of spray per acre and apply using [illegible] equipment For cutworm control treat during May and June when field counts indicate damaging insect populations are developing [illegible]

When larvae are less than ¾ inch in length use the 2 pint rate When larvae are ¾ 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 post harvest when field counts indicate damaging insect populations are developing or present [illegible] treatment [illegible] approximately [illegible] irrigat[illegible] immediately after application [illegible] incorporate the insecticide [illegible] **Make only one post harvest application per season**

NECTARINES PEACHES Use LORSBAN 4E [illegible] peach tree borers by application as a [illegible] spray before newly hatched borers enter the trees Mix 3 quarts of LORSBAN 4E with 100 gallons of water and apply as a coarse low pressure spray to give uniform coverage of tree trunks Thoroughly wet all bark areas from ground level [illegible] to contact fruit [illegible] State Agricultural Experiment Station or Extension Service [illegible] [illegible]

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*

ONIONS (dry bulb) Use LORSBAN 4E [illegible] Apply LORSBAN 4E at the rate [illegible] [illegible]

Restrictions *For use on direct seeded onions only Do not make more than one application per year Based on available residue data use of LORSBAN 4E on onions (dry bulb) is restricted to [illegible] Michigan Minnesota New Jersey New York [illegible] Washington [illegible]*

PEANUTS Use LORSBAN 4E for control of the following pests at the dosages indicated

Lesser cornstalk borer 2 to 4 pints per acre (as a directed spray to the base of the plants in an 8 to 10 inch wide band)

Armyworms corn earworm cutworms [illegible] [illegible] 2 pints per acre [illegible]

Mix the [illegible] dosage [illegible] water to ensure [illegible]

LORSBAN 4E [illegible] [illegible] combination [illegible] under your current conditions of use [illegible] LORSBAN 4E is applied [illegible] peanuts experiencing high temperature and drought stress

Restrictions *Do not make more than one application per season as a directed spray [illegible] should not exceed 6 pints of LORSBAN 4E per acre or 4 pounds of chlorpyrifos (active ingredient) per acre per season Do not harvest within 21 days after treatment Do not feed treated peanut forage or hay to meat or dairy animals*

SOYBEANS Use LORSBAN 4E insecticide for control of the following pests at the dosages indicated

[illegible]

Cutworms European corn borer corn earworm southern green stink bug	2 pints per acre
Bean leaf beetle	1 to 2 pints per acre
Mexican bean beetle armyworms	1 to 1½ pints per acre
Velvetbean caterpillar grasshoppers green cloverworm	½ to 1 pint per acre

(as a broadcast foliar spray using ground or aerial equipment when field counts indicate damaging insect populations are developing or present Retreat as necessary to maintain control)

Mix the required dosage in enough water to ensure thorough coverage For ground application use at least 10 gallons of spray per acre **On determinate soybeans do not apply more than one application after pod set**

Restrictions *Do not apply more than 6 pints of LORSBAN 4E per acre or 3 pounds of chlorpyrifos (active ingredient) per acre per season Do not apply last treatment within 28 days before harvest Do not apply last two treatments closer than 14 days apart Do not allow livestock to graze in treated areas or otherwise feed treated soybean forage to meat or dairy animals within 14 days after application Do not feed straw from treated soybeans to meat or dairy animals within 28 days after application*

STRAWBERRIES Use LORSBAN 4E insecticide by application as a broadcast foliar spray to control strawberry bud weevil at the rate of 1 quart per acre Apply 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 LORSBAN 4E should not be tank mixed with pesticides surfactants or fertilizer formulations unless prior use has shown the [illegible] under your current [illegible] [illegible]

LORSBAN 4E is applied to strawberr[illegible] encing high temperature and drought st[illegible]

Restrictions: *For pre bloom use only Do [illegible] more than two applications per seaso[illegible] within 21 days before harvest*

SUNFLOWERS For use to control cutw[illegible] flower beetle larvae and adults ste[illegible] sunflower moth seed weevil and grass[illegible]

Preplant Incorporation Treatment. Use [illegible] 4E insecticide at the following rates by a[illegible] in sufficient water to the soil surface an[illegible] ate into the soil

Cutworms	2 to 4 pints [illegible]

Use recommended rate in not less than [illegible] of water per acre and apply as a broad[illegible] to the soil surface using suitable power [illegible] ground spray equipment On the sa[illegible] treatment incorporate the insecticide in[illegible] 2 to 4 inches of soil using a disc field c[illegible] equivalent equipment

Postemergence Treatment Use LORSB[illegible] control of the following pests at th[illegible] indicated by application in sufficien[illegible] ensure thorough coverage of treated p[illegible]

Cutworms	2 to 3 pints [illegible]
Sunflower beetle larvae and adu[illegible] weevil sunflower moth and seed weevil	1 to 1½ pints [illegible]
Grasshoppers	1 pi[illegible]

Apply as a broadcast spray using eit[illegible] (fixed wing or helicopter) or power [illegible] ground spray equipment when field co[illegible] cate that pests are or may become a pro[illegible] cutworm control a second treatmen[illegible] made 7 to 10 days later if needed For ste[illegible] control optimal treatment time is wit[illegible] days after adult weevils begin to a[illegible] sunflower moth control make first a[illegible] during early 1 to 5 percent bloom stage [illegible] treatment may be made 7 days after fi[illegible]

to keep water and/or a mixture of water and chemical from draining or siphoning back into the irrigation well and polluting the ground water Both of these valves are located **between** the irrigation pump discharge and the place of chemical injection into the irrigation pipeline

5. A check valve in the chemical injection line is needed to stop the flow of water from the irrigation system into the chemical supply tank
6. A positive displacement pump is needed to provide uniform injection into the water line The injector pump must provide a greater pressure than that of the irrigation system at the point of injection The pump must contain Viton seals and be rated for use in hazardous areas All electrical service inside the hazard zone must meet National Fire Protection Association 30 (NFPA 30) and NEC 70
7. To insure uniform mixing of the insecticide into the water line inject the mixture into 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
8. 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
9. In order to calibrate the irrigation system and injector to apply the LORSBAN 4E plus oil mixture determine the following 1) calculate the number of acres covered by the system 2) the number of minutes for the system to make one revolution 3) the number of inches of water per acre delivered by the system 4) the number of minutes required for the injector pump to inject one gallon of insecticide mixture and 5) the total gallons of insecticide mixture needed to cover the desired acreage Divide the total gallons of insecticide mixture needed to cover the irrigated area by the number of minutes to make one circle This value equals the gallons per minute output that the injector must deliver It is suggested that the system be calibrated at least twice before operation and the system should be monitored during operation

10. Do not apply a pesticide solution when wind speed or direction results in unacceptable drift from the application area
11. Do not allow irrigation runoff to collect or runoff and pose a hazard to livestock wells or adjoining crops
12. Allow foliage to dry before reentering the field

Restrictions: *Do not apply within 35 days before harvest of grain Do not apply more than a total of 15 pints of LORSBAN 4E 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*

SWEET CORN Grown Only in Florida and Georgia Use LORSBAN 4E 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 insure 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 indicate 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

Restrictions *Do not apply more than 22 pints of LORSBAN 4E 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 LORSBAN 15G granular insecticide*

COTTON Use LORSBAN 4E for control of the following pests in all states except Arizona and California at the dosages indicated

Cotton fleahopper plant bugs (*Lygus Mirids*) — 1/2 to 1 pint per acre.

Cotton aphid fall armyworm grasshoppers spider mites thrips yellow striped armyworm — 1/2 to 1 pint per acre

Beet armyworm bollworms (*Heliothis spp.*) boll weevil cutworms pink bollworm salt marsh caterpillar — 1 1/2 to 2 pints per acre

NOTE The recommended dosage rate of 1/2 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

Use LORSBAN 4E for control of the following pests in Arizona and California at the dosages indicated

Armyworms cotton aphid cotton fleahopper *Lygus* salt marsh caterpillar thrips — 1 to 2 pints per acre

Bollworms (*Heliothis spp.*) boll weevil cutworms pink bollworm — 2 pints per acre

NOTE The 2 pint rate will aid in the suppression of cotton 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

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 it is suggested that fields 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	1/16	Hatch
	3	3/32	I
	5	9/32	II
	6	7/16	III
	8	11/16	IV

Proper application techniques help t[illegible] thorough spray coverage and correct do[illegible] are thus important in obtaining good [illegible] pests Consider these suggestions whe[illegible] LORSBAN 4E insecticide on cotton

Aerial Application. Shorten boom leng[illegible] spray entering the vortices at the wing ti[illegible] width should be reduced when wind d[illegible] the same as direction of spraying

The proper nozzle arrangement and s[illegible] to avoid skips and vortices effect can b[illegible] out by flying over a paper tape (addin[illegible] paper) using water with or without s[illegible] (The dye gives a permanent record)

Flying at a height of 5-15 feet above [illegible] results in the best coverage

Nozzle orientation of the boom is impor[illegible] break-up occurs when nozzles ar[illegible] straight down versus the straight bac[illegible] Desired droplet size (100-200 micron[illegible] obtained by angling the nozzles somew[illegible] range

Marking of swath by flagging or perma[illegible] ers is essential

Ground Application: Orient the boom a[illegible] so that uniform coverage is obtained [illegible] width should not be wider than the b[illegible] spray is wasted spray so do not depen[illegible] flat fan or disc core hollow cone n[illegible] maximum spacing of 20 inches an[illegible] pressure of 40-60 psi with a droplet size [illegible] microns

Restrictions: *Do not apply within 14 d[illegible] harvest Do not allow livestock to graze [illegible] areas Do not feed gin trash or treated [illegible] livestock*

LORSBAN 4E insecticide may also b[illegible] tank mixtures in all states to control [illegible] bollworms (*Heliothis spp.*), boll wee[illegible] fleahopper, plant bugs (*Lygus, Mirids*), [illegible] mites as indicated in the following tab[illegible]

LORSBAN 4E 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*

SUNFLOWERS For use to control cutworms sunflower beetle larvae and adults stem weevil sunflower moth seed weevil and grasshoppers

Preplant Incorporation Treatment Use LORSBAN 4E insecticide at the following rates by application in sufficient water to the soil surface and [illegible] ate into the soil

Cutworms — 2 to 4 pints per acre

Use recommended rate in [illegible] 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 disk field cultivator or equivalent equipment

Postemergence Treatment Use LORSBAN 4E for control of the following pests at the dosage indicated by application in sufficient water to ensure thorough coverage of treated plants

Cutworms — [illegible]
Sunflower beetle larvae and adults stem weevil sunflower moth and seed weevil — [illegible]
Grasshoppers — [illegible]

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 [illegible] [illegible] days after adult weevils begin to appear [illegible] [illegible] during early [illegible] percent [illegible] stage [illegible] treatment may be made [illegible] days after [illegible]

seed weevil [illegible] treat when field counts indicate there are [illegible] [illegible] Additional treatments should be made at successive [illegible] day intervals if field counts indicate need to retreat For sunflower beetle larvae [illegible] treat when field counts indicate there are 10 larvae or 1 to 2 adults per seedling Additional treatments may be made at successive [illegible] day intervals if field counts indicate need to retreat

Restrictions *Do not apply more than [illegible] pints of LORSBAN 4E per acre per season Do not apply within 42 days before harvest Do not allow livestock to graze [illegible] treated areas*

SUGAR BEETS Use LORSBAN 4E by application as a broadcast foliar spray [illegible] [illegible] at a rate of [illegible] pints per acre and cutworms at a rate of 2 pints per acre Treat when field counts indicate that damaging insect populations are [illegible] a problem Mix the specified dosage with [illegible] gallons of water per acre and apply using suitable aerial spray equipment or with 10 to 30 gallons of water per acre when using power operated ground spray equipment Re-treat as necessary to maintain [illegible]

Restrictions *[illegible] apply within [illegible] days before harvest of beet roots and tops Do not apply more than a total of 8 pints of LORSBAN 4E per acre per season Do not allow livestock to graze in treated areas nor harvest treated beet tops as feed for meat or dairy animals within [illegible] days after last treatment*

SWEET POTATOES Use LORSBAN 4E [illegible] [illegible]

suitable ground spray equipment After application [illegible] incorporate the insecticide into the soil to a depth of 4 to 6 inches using a [illegible] [illegible]

Restrictions *Do not make more than [illegible] per season*

TREE FRUITS Use LORSBAN 4E as a [illegible] delayed dormant spray at the rates indicated [illegible] [illegible]

Crop	Insect	Dosage LORSBAN 4E
Apples	[illegible] apple aphid [illegible] scale Climbing cutworms	
Pears	San Jose scale [illegible] cutworms Pear psylla adults	
Plums Prunes	San Jose scale [illegible] aphid [illegible] cutworms [illegible]	[illegible]
Almonds Peaches Nectarines	San Jose scale Peach twig borer [illegible] cutworms	

[illegible]

Restrictions *Make only one application during the [illegible] season Do not allow meat or dairy animals to graze in treated orchards*

VEGETABLES Use LORSBAN 4E to control root maggots on the following crops at the dosages indicated

Cauliflower	1.6 to 2.4 fl oz per 1000 linear feet of row
Broccoli, Brussels Sprouts, Cabbage, Chinese Cabbage, Turnips	1.6 to 2.75 fl oz per 1000 linear feet of row

For **direct seeded crops** apply the specified dosage in a water 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 Apply in a minimum of 40 gallons of total spray per acre

For **transplanted crops**, apply LORSBAN 4E 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 apply as a foliage application**

Restrictions *Do not apply more than 2 pints of LORSBAN 4E to cauliflower planted in 40 inch rows Use proportional amounts for other row spacings not to exceed 4 pints of LORSBAN 4E per acre Do not apply more than 2.6 pints of LORSBAN 4E per acre to broccoli Brussels sprouts cabbage Chinese cabbage, and turnips planted in 40 inch rows or more than 4 [illegible] pints of LORSBAN 4E 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 [illegible] pints of LORSBAN 4E per acre Do not make more than one application per season or apply within 30 days before harvest*

Radishes	[illegible] per 1000 linear feet of row

Apply the specified dosage as a w[illegible] drench in the seed furrows with t[illegible] planting time Use a minimum of 40 ga[illegible] drench per acre

Restrictions *Do not apply more than [illegible] LORSBAN 4E per acre or make more [illegible] application per season*

Rutabagas — 1.6 [illegible] per [illegible] feet [illegible]

Apply the specified dosage in a w[illegible] spray as a 4 inch wide band over [illegible] planting time, behind the planter shoe [illegible] of the press wheel to achieve shallow [illegible] tion Use a minimum of 40 gallons [illegible] per acre

Restrictions *Do not apply more than [illegible] LORSBAN 4E per acre or make mor[illegible] application per season Do not use ru[illegible] for food or feed purposes*

To avoid phytotoxicity in vegetable c[illegible] mix with other pesticide products or [illegible] that are under extreme heat and dr[illegible]

BEST DOC[illegible]