

10107-43

ACCEPTED

APR 29 1985

Under the Federal Insecticide, Fungicide, and Rodenticide Act, recommended, for the pesticide registered under Reg. No. 10107-43

50%

# SEVIN DUST

ACTIVE INGREDIENTS:	By Weight
Carbaryl (1-naphthyl N-methylcarbamate) .....	5%
INERT INGREDIENTS .....	95%
TOTAL 100%	

SEVIN is the registered trademark of Union Carbide Corporation for the active ingredient, 1-naphthyl N-methylcarbamate)

KEEP OUT OF THE REACH OF CHILDREN

## CAUTION

STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED**—Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention immediately.

**IF INHALED**—Remove victim to fresh air and apply respiration if indicated.

**IF ON SKIN**—Wash promptly with soap and water. Rinse thoroughly.

**IF IN EYES**—Rinse eyes for at least 15 minutes with water and call a physician immediately.

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

**MAY BE HARMFUL IF SWALLOWED.** Avoid breathing vapors (dust or spray mist). Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

**NOTE FOR PHYSICIAN:** Carbaryl is a moderate, reversible, cholinesterase inhibitor. Atropine is antidotal. AVOID CONTAMINATION OF FOOD, FEED, FEEDING TROUGHS AND WATERING RECEPTACLES. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

## ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic and estuarine invertebrates. Do not apply to water or wetlands, except under the forest canopy and use on rice. Discharge of this product into rice fields may kill aquatic and estuarine invertebrates. Do not contaminate water by use of equipment or disposal of wastes. 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 weeds if bees are visiting the treatment area.

## STORAGE AND DISPOSAL

**PROHIBITION:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

**PESTICIDE DISPOSAL:** Pesticide, spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

**CONTAINER DISPOSAL:** Dispose of bags according to approved Federal, State or local procedures under the Resource Conservation and Recovery Act.

## DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

SUBSEQUENT PLANTING OF FOOD AND FEED CROPS IN TREATED SOIL MUST BE MADE WITH CROPS ON THIS OR OTHER CARBARYL LABEL(S).

EPA Reg. No. 10107-43

EPA Est. No. 10107-NB-1

MANUFACTURED FOR:  
CORNBELT CHEMICAL CO.  
P.O. Box 410, McCook, NE 69001

NET WEIGHT POUNDS

4-20-85

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**OKRA** (No Pre-Harvest Interval)—Corn Earworm, Stink Bug—20 to 40 lbs. per acre.

**PARSLEY** (14-Day Pre-Harvest Interval)—Flea Beetle, Leafhopper—10 to 20 lbs. per acre. Armyworm, Cabbage Looper, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**PASTURE AND RANGELAND** (No Pre-Harvest Interval) Refer also to Grass Mosquitoes (adults)—5 to 10 lbs. per acre. For airblast duster application only. Thorough coverage is necessary for effective control. For optimum control, apply in early morning or evening when air is calm and adults are active. 5 to 20 lbs. per acre for low-pressure hydraulic ground duster only. For optimum control, apply in early morning or evening when air is calm and adults are active. Grasshopper—10 to 30 lbs. per acre. Use 10 to 20 lb. rate on sparse vegetation and for controlling nymphs. Armyworm, Stink Bug, Thrip—20 to 40 lbs. per acre.

**PEACHES** (1-Day Pre-Harvest Interval)—Catfacing Insects, Oriental Fruit Moth, Peach Twig Borer, Periodical Cicada, Plum Curculio—30 to 80 lbs. per acre. For Oriental Fruit Moth and Plum Curculio apply at petal fall and every 10 to 14 days thereafter until control is achieved. A minimum of 60 lbs. of dust is required to insure adequate coverage. Redbanded Leafroller—40 lbs. per acre. Codling Moth, Forbes Scale, Fruit-Tree Leafroller, Japanese Beetle, Lecanium Scale, Olive Scale, Orange Tortrix, San Jose Scale, Tussock Moth—80 to 120 lbs. per acre. For Codling Moth, apply at petal fall and every 10 to 14 days thereafter until control is achieved.

**PEANUTS** (No Pre-Harvest Interval)—Blister Beetle—10 to 20 lbs per acre. Grasshopper—10 to 30 lbs. per acre. Use 10 to 20 lb. rate on young plants and for controlling nymphs. Alfalfa Caterpillar, Bean Leaf Beetle, Cucumber Beetle, Green Cloverworm, Japanese Beetle, Leafhopper (including Potato Leafhopper), Three-Cornered Alfalfa Hopper, Thrip, Velvetbean Caterpillar—20 lbs. per acre. Armyworm, Corn Earworm, Stink Bug, Webworm—20 to 30 lbs. per acre.

**PEARS** (1-Day Pre-Harvest Interval)—Apple Aphid, Codling Moth, Eastern Tent Caterpillar, European Apple Sawfly, Eyespotted Bud Moth, Forbes Scale, Fruit-Tree Leafroller, Japanese Beetle, Lecanium Scale, Oystershell Scale, Pear Psylla, Periodical Cicada, Plum Curculio, Redbanded Leafroller, Rosy Apple Aphid, San Jose Scale—70 to 120 lbs. per acre. For Codling Moth and Plum Curculio, apply at petal fall and every 10 to 14 days thereafter until control is achieved. Orange Tortrix—80 to 120 lbs. per acre. Pear Slug—100 to 120 lbs. per acre.

**PEAS** (No Pre-Harvest Interval)—Alfalfa Looper, Colorado Potato Beetle, Leafhopper—20 lbs. per acre. Claims for Colorado Potato Beetle are limited to control on weeds in pea fields to avoid insect contamination in processed peas. Armyworm, Grasshopper—20 to 30 lbs. per acre.

**PEPPERS** (No Pre-Harvest Interval)—Colorado Potato Beetle, Flea Beetle, Leafhopper—10 to 20 lbs. per acre. European Corn Borer, Fall Armyworm, Stink Bug, Tomato Fruitworm, Tomato Hornworm, Tarnished Plant Bug—20 to 40 lbs. per acre. Climbing Cutworm—20 lbs. per acre.

**PLUMS** (1-Day Pre-Harvest Interval)—Codling Moth, Eastern Tent Caterpillar, Orange Tortrix, Tussock Moth—80 to 120 lbs. per acre. For Codling Moth, apply at petal fall and every 10 to 14 days thereafter until control is achieved. Black Cherry Aphid, Brown Soft Scale, Cherry Fruit Fly, Cherry Fruitworm, Eyespotted Bud Moth, Forbes Scale, Fruit-Tree Leafroller, Japanese Beetle, Lecanium Scale, Mealy Plum Aphid, Oystershell Scale, Peach Twig Borer, Plum Curculio, Prune Leafhopper, Redbanded Leafroller, San Jose Scale—80 to 120 lbs. per acre. For Plum Curculio, apply at petal fall and every 10 to 14 days thereafter until control is achieved. For optimum scale control, apply when crawlers are present.

**POTATOES** (1-Day Pre-Harvest Interval)—Colorado Potato Beetle, Flea Beetle, Leafhopper—10 to 20 lbs. per acre. European Corn Borer, Fall Armyworm, Lace Bug, Lygus Bug, Stink Bug, Tomato Fruitworm, Tomato Hornworm, Tarnished Plant Bug—20 to 40 lbs. per acre.

**PRUNES** (1-Day Pre-Harvest Interval)—Codling Moth, Eastern Tent Caterpillar, Orange Tortrix, Tussock Moth—80 to 120 lbs. per acre. For Codling Moth, apply at petal fall and every 10 to 14 days thereafter until control is achieved. Black Cherry Aphid, Brown Soft Scale, Cherry Fruit Fly, Cherry Fruitworm, Eyespotted Bud Moth, Forbes Scale, Fruit-Tree Leafroller, Japanese Beetle, Lecanium Scale, Mealy Plum Aphid, Oystershell Scale, Peach Twig Borer, Plum Curculio, Prune Leafhopper, Redbanded Leafroller, San Jose Scale—80 to 120 lbs. per acre. For Plum Curculio, apply at petal fall and every 10 to 14 days thereafter until control is achieved. For optimum scale control, apply when crawlers are present.

**PUMPKINS** (No Pre-Harvest Interval)—Pickleworm, Melonworm—10 lbs. per acre. Cucumber Beetle, Flea Beetle, Leafhopper, Squash Bug—20 lbs. per acre.

**RADISHES** (3-Day Pre-Harvest Interval)—Flea Beetle, Harlequin Bug—10 lbs. per acre. Armyworm, Cabbage Looper, Corn Earworm, Diamondback Moth, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**RASPBERRIES** (7-Day Pre-Harvest Interval)—Japanese Beetle, Leafhopper, Leafroller, Raspberry Aphid—40 lbs. per acre. Climbing Cutworm, Orange Tortrix, Sawfly, Snowy Tree Cricket—40 lbs. per acre.

**RICE** (14-Day Pre-Harvest Interval)—Grasshoppers—10 to 30 lbs. per acre. Use 10 to 20 lb. rate on young plants and for controlling nymphs. Armyworm, Stink Bug—20 to 30 lbs. per acre. Use restricted to Mississippi Delta and Texas. To avoid plant injury, do not apply before heading if propanil has been or will be applied. Do not use on rice fields in which crayfish and/or catfish farming is included in the cultural practice.

**RUTABAGA** (3-Day Pre-Harvest Interval)—Flea Beetle, Harlequin Bug—10 to 20 lbs. per acre. Armyworm, Cabbage Looper, Corn Earworm, Diamondback Moth, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**SALSIFY** (3-Day Pre-Harvest Interval [Roots]; 14-Day Pre-Harvest Interval [Top])—Flea Beetle, Leafhopper—10 to 20 lbs. per acre. Armyworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre.

**SORGHUM** (Grain, Milo) (21-Day Pre-Harvest Interval [Grain]; No Pre-Harvest Interval for Forage)—Grasshopper—10 to 20 lbs. per acre. Use 10 to 20 lb. rate on young plants and for controlling nymphs. Armyworm, Corn Earworm, Stink Bug, Thrip, Webworm—20 to 40 lbs. per acre. For optimum insect control on grain sorghum, direct into the forming heads. Sorghum Midge—230 lbs. per acre. Treat 3 to 4 days after heads have emerged from boot. Direct treatment into forming heads.

**SOYBEANS** (No Pre-Harvest Interval)—Blister Beetle, Mexican Bean Beetle—10 to 20 lbs. per acre. Grasshopper—10 to 20 lbs. per acre. Use 5 to 10 lb. rate on young plants and for controlling nymphs. Alfalfa Caterpillar, Bean Leaf Beetle, Cucumber Beetle, Green Cloverworm, Japanese Beetle, Leafhopper, Three-cornered Alfalfa Hopper, Thrip, Velvetbean Caterpillar—20 lbs. per acre. Armyworm, Corn Earworm, Stink Bug, Webworm—20 to 30 lbs. per acre.

**SPINACH** (7-Day Pre-Harvest Interval)—Flea Beetle, Leafhopper—10 to 20 lbs. per acre. Armyworm, Cabbage Looper, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**SQUASH** (No Pre-Harvest Interval)—Pickworm, Melonworm—10 lbs. per acre. Cucumber Beetle, Leafhopper, Squash Bug—20 lbs. per acre.

**STRAWBERRIES** (1-Day Pre-Harvest Interval)—Meadow Spittlebug, Omnivorous Leaf Tier, Strawberry Leafroller, Strawberry Weevil—20 to 40 lbs. per acre.

**SUGAR BEETS** (14-Day Pre-Harvest Interval)—Grasshopper—10 to 30 lbs. per acre. Use 10 to 20 lbs. rate on young plant and for controlling nymphs.

**SWISS CHARD** (14-Day Pre-Harvest Interval)—Flea Beetle, Harlequin Bug, Leafhopper—10 to 20 lbs. per acre. Armyworm, Cabbage Looper, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**TOBACCO (In Plant Bed)**—Tobacco Flea Beetle—1 to 2 lbs. per 100 square yards. Apply just before transplanting.

**TOBACCO (In Field)**—Tobacco Budworm, Tobacco Flea Beetle—8 to 12 lbs. per acre. This rate is limited to hand applications directed to the bud and top leaves only. Avoid heavy applications with cloth bags as plant injury may result. Flea Beetle, Hornworm, Japanese Beetle, June Beetle, Tobacco Budworm—15 to 25 lbs. per acre. Use full coverage. Aphid, Grasshopper—30 to 50 lbs. per acre.

**TOMATOES** (No Pre-Harvest Interval)—Colorado Potato Beetle, Flea Beetle, Leafhopper—10 to 20 lbs. per acre. European Corn Borer, Fall Armyworm, Lace Bug, Pinworm, Stink Bug, Tomato Fruitworm, Tomato Hornworm, Tarnished Plant Bug—20 to 40 lbs. per acre. Climbing Cutworm—20 lbs. per acre.

**TURNIPS** (3-Day Pre-Harvest Interval)—Flea Beetle, Harlequin Bug—10 to 20 lbs. per acre. Armyworm, Cabbage Looper, Corn Earworm, Diamondback Moth, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**POULTRY (Chickens, Ducks, Game Birds, Geese, Partridges, Pheasants, Pigeons, Turkeys)**—Chicken Mite, Fleas, Lice, Northern Fowl Mite—1 lb. per 100 birds. Direct application. Apply by shaker can or hand duster. Direct dust to vent and fluff areas. Also treat head and neck for stick-tight fleas. Repeat in 4 weeks if needed. This is a supplement to premise and litter treatments for chicken mites and fleas.

**POULTRY HOUSES**—Bed Bug, Chicken Mite, Lice, Northern Fowl Mite—25 lbs. per 1000 square feet. Apply to floors, litter, roosts, and adjacent areas with a scoop, hand or power duster. Force dust into cracks and crevices.

**DOG HOUSES, KENNELS, SLEEPING QUARTERS**—2½ to 5 lbs. per 5000 square feet for ticks; 5 to 10 lbs. per 5000 square feet for fleas. Apply liberally by garden-type duster. Force dust into cracks and crevices. Repeat as needed. Do not expose kittens or puppies less than 4 weeks of age to treated areas. Do not use on pregnant dogs.

## —ORNAMENTALS—

**LAWNS AND TURFS**—Ants, Chinch Bugs, Crickets, Cutworms, Earwigs, Fall Armyworms, Fleas, Leafhoppers, Millipedes, Mosquitoes, Sod Webworms, Ticks—20 lbs. per 5000 square feet. For best results, mow lawn, remove clippings and apply immediately after rain or watering. Water following treatment. Keep children and pets off lawn until material is watered in and grass is dry.

**HERBACEOUS PLANTS AND BULBS** (Annual Plants—Herbaceous Plants)—Sevin injures Boston Ivy and Virginia Creeper. Injury to tender foliage may occur if plants are wet when treated or in the presence of high humidity. Blister Beetle, Flea Beetle, Japanese Beetle, Lacebug, Leafhopper, Leafroller, Plant Bug, Psylla, Rose Aphid, Thrip (exposed)—30 to 40 lbs. per acre.

**WOODY SHRUBS, TREES, AND VINES**—Sevin injures Boston Ivy and Virginia Creeper. Injury to tender foliage may occur if plants are wet when treated or in the presence of high humidity. Apple Aphid, Bagworm, Birch Leafminer, Boxelder Bug, Boxwood Leafminer, Elm Leaf Aphid, Elm Leaf Beetle, Gypsy Moth, Japanese Beetle, Lacebug, Leafhopper, Leafroller, Oakleaf Miner, Orange Tortrix, Periodical Cicada, Rose Aphid, Rose Slug, Scale, Thrip (exposed), Tent Caterpillar, Willow Flea Beetle—20 to 40 lbs. per acre. Plant Bug, Psylla—30 to 40 lbs. per acre.

**NONAGRICULTURAL LANDS, PASTURE, RANGELAND**—Mosquitoes—5 to 10 lbs. per acre. Airblast duster. Thorough coverage is necessary for effective control. For optimum control, apply in early morning or evening when air is calm and adults are active. May kill shrimp and crabs. Do not use in areas where these are important resources. Mosquitoes—5 to 20 lbs. per acre with low-pressure hydraulic ground duster. For optimum control, apply in early morning or evening when air is calm and adults are active. May kill shrimp and crabs. Do not use in areas where these are important resources.

**WOODED AREAS**—House Fly, Mosquito, Sand Fly—6 lbs. per acre. Apply with power duster or large hand duster.

**DOMESTIC DWELLINGS**—Earwigs—10 to 15 lbs. per 5000 square feet. Apply to soil surface, mulch, and debris around moist, shade places. Fleas—5 to 10 lbs. per 5000 square feet. Apply liberally to pens, yards, lawns and under buildings around the home. Force the dust into cracks and crevices. Repeat as needed. Millipedes—10 to 15 lbs. per 5000 square feet. Apply to soil surface, mulch and debris around moist, shady places. Mosquitoes—5 to 10 lbs. per 5000 square feet. Apply to lawns, shrubbery and other vegetation around the home. Repeat as needed. Ticks—2½ to 5 lbs. per 5000 square feet. Apply liberally to ground, debris, and vegetation to a height of about 2 feet on lawns, vacant fields, and wooded areas around the home. Repeat if needed. Do not use this product in commercial food areas of food handling establishments, restaurants, or other places where food is prepared or processed.

**URBAN AND RURAL OUTDOOR AREAS (PUBLIC HEALTH)**—Plague Reservoir Host Animals—For use only by or under the supervision of State or Federal Public Health or Wildlife Officials. Fleas—2 oz. per burrow. Apply by hand or power applicator. Fleas—4 oz. per bait station. Use 4 to 6 bait stations per acre. Fleas—20 lbs. per acre. Apply by hand or power applicator as an area dust treatment. Consult your State Fish and Game Agency before applying this product.

**AVOID POSSIBLE INJURY TO TENDER FOLIAGE, DO NOT APPLY WHEN FOLIAGE IS WET OR WHEN RAIN OR EXCESSIVE HUMIDITY IS EXPECTED DURING THE NEXT TWO DAYS.**

## NON-WARRANTY

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose 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, expressed 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.

**ALL RATES SHOULD BE APPLIED AS FOLIAGE APPLICATIONS, UNLESS OTHERWISE NOTED.**

**ALFALFA** (3-Day Pre-Harvest Interval)—Blister Beetles, Mexican Bean Beetle—10 to 20 lbs. per acre. Grasshopper—10 to 30 lbs. per acre. Use 10 to 20 lb. rate on young plants and for controlling nymphs. Alfalfa Caterpillar, Cucumber Beetle, Green Cloverworm, Japanese Beetle, Leafhopper, Three-Cornered Alfalfa Hopper, Thrip, Velvetbean Caterpillar—20 lbs. per acre. Armyworm, Corn Earworm, Stink Bug, Webworm—20 to 30 lbs. per acre.

**APPLES** (1-Day Pre-Harvest Interval) (East of the Rocky Mountains)—Apple Maggot, Apple Mealybug, Codling Moth, Eastern Tent Caterpillar, European Green Sawfly, Eye-Spotted Bud Moth, Forbes Scale, Fruit-Tree Leaf Roller, Apple Aphid, Japanese Beetle, Lecanium Scale, Oystershell Scale, Periodical Cicada, Plum Curculio, Redbanded Leaf Roller, Rosy Apple Aphid, San Jose Scale, Tentiform Leaf Miners, White Apple Leafhopper—70 to 120 lbs. per acre. For Apple Maggot, Codling Moth and Plum Curculio, apply for full coverage in normal schedules. Refer to your state recommendations. CAUTION: Application of Sevin to apples within 30 days of full bloom may cause apple thinning. To avoid this thinning effect, use an alternate registered pesticide until 30 days after full bloom. Orange Tortrix—80 to 120 lbs. per acre.

**APRICOTS** (3-Day Pre-Harvest Interval)—Codling Moth, Fruit Tree Leafroller, Japanese Beetle, Orange Tortrix, Oriental Fruit Moth, Peach Twig Borer, Periodical Cicada, Tussock Moth—80 to 120 lbs. per acre. For Codling Moth and Oriental Fruit Moth, apply at petal fall and every 10-14 days thereafter until control is achieved.

**ASPARAGUS** (1-Day Pre-Harvest Interval)—Asparagus Beetle—20 to 40 lbs. per acre. Broadcast or foliage application. Apply to seedlings or spears. Do not repeat application within 3 days.

**BEANS** (No Pre-Harvest Interval)—Japanese Beetle, Leafhoppers, Leaf Roller, Raspberry Aphid, Climbing Cutworm, Orange Tortrix, Sawfly, Snowy Tree Cricket—40 lbs. per acre.

**BLUEBERRIES** (No Pre-Harvest Interval)—Blueberry Maggot, Cherry Fruitworm, Cranberry Fruitworm, Japanese Beetle—30 to 40 lbs. per acre. For Blueberry Maggot apply 3 weeks before harvest and repeat 10 days later or as needed.

**BOYSENBERRIES** (7-Day Pre-Harvest Interval)—Japanese Beetle, Leafhopper, Leaf Roller, Raspberry Aphid—40 lbs. per acre. Climbing Cutworm, Orange Tortrix, Sawfly, Snowy Tree Cricket—40 lbs. per acre.

**BROCCOLI** (3-Day Pre-Harvest Interval)—Flea Beetle, Harlequin Bug—10 to 20 lbs. per acre. Armyworm, Cabbage Looper, Corn Earworm, Diamondback Moth, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where the Cabbage Looper is the principal problem use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**BRUSSELS SPROUTS** (3-Day Pre-Harvest Interval)—Flea Beetle, Harlequin Bug—10 to 20 lbs. per acre. Armyworm, Cabbage Looper, Corn Earworm, Diamondback Moth, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where the Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**CABBAGE** (3-Day Pre-Harvest Interval)—Flea Beetle, Harlequin Bug—10 to 20 lbs. per acre. Armyworm, Cabbage Looper, Corn Earworm, Diamondback Moth, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where the Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**CARROTS** (No Pre-Harvest Interval)—Flea Beetle, Harlequin Bug—10 to 20 lbs. per acre. Six-Spotted Leafhopper—20 to 30 lbs. per acre. Lygus Bug, Spittlebug, Stink Bug—20 to 40 lbs. per acre.

**CAULIFLOWER** (3-Day Pre-Harvest Interval)—Flea Beetle, Harlequin Bug—10 to 20 lbs. per acre. Armyworm, Cabbage Looper, Corn Earworm, Diamondback Moth, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where the Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**CHERRIES** (1-Day Pre-Harvest Interval)—Codling Moth, Eastern Tent Caterpillar, Orange Tortrix, Tussock Moth—80 to 120 lbs. per acre. For Codling Moth, apply at petal fall and every 10 to 14 days thereafter until control is achieved. Black Cherry Aphid, Brown Soft Scale, Cherry Fruit Fly, Cherry Fruitworm, Eye-Spotted Bud Moth, Forbes Scale, Fruit-Tree Leafroller, Japanese Beetle, Lecanium Scale, Mealy Plum Aphid, Oystershell Scale, Peach Twig Borer, Plum Curculio, Prune Leafhopper, Redbanded Leafroller, San Jose Scale—80 to 100 lbs. per acre. For optimum scale control apply when crawlers are present. For Plum Curculio, apply at petal fall and every 10 to 14 days thereafter until control is achieved.

**CHINESE CABBAGE** (14-Day Pre-Harvest Interval)—Flea Beetle, Harlequin Bug—10 to 20 lbs. per acre. Armyworm, Cabbage Looper, Corn Earworm, Diamondback Moth, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where the Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**CLOVER** (No Pre-Harvest Interval)—Blister Beetle, Mexican Bean Beetle—10 to 20 lbs. per acre. Grasshopper—10 to 30 lbs. per acre. Use 10 to 20 lb. rate for controlling nymphs. Repeat as needed. Alfalfa Caterpillar, Cucumber Beetle, Green Cloverworm, Japanese Beetle, Leafhopper, Three-Cornered Alfalfa Hopper, Thrips, Velvetbean Caterpillar—20 lbs. per acre. Armyworm, Corn Earworm, Stink Bug, Webworm—20 to 30 lbs. per acre.

**COLLARDS** (14-Day Pre-Harvest Interval)—Flea Beetle, Harlequin Bug—10 to 20 lbs. per acre. Armyworm, Cabbage Looper, Corn Earworm, Diamondback Moth, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where the Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**CORN** (No Pre-Harvest Interval)—Application of Sevin to the tassel region of corn during the pollen shedding period will seriously reduce bee population. Corn Earworm, Corn Rootworm adults, European Corn Borer, Fall Armyworm, Flea Beetle, Japanese Beetle, Leafhopper, Sap Beetle—20 to 40 lbs. per acre. For larvae in the whorl (budworm damage) and foliage feeders, apply to entire plant. Repeat as necessary. For insects attacking silks and ears, apply at 2 to 4 day intervals starting when silks first appear and continuing until silks begin to dry. Three or more applications may be required depending on severity of infestations. Timing and good coverage are absolutely essential for effective control.

**COTTON** (7-Day Pre-Harvest Interval)—Aphids, Cotton Fleahopper, Cotton Leafworm, Flea Beetle, Striped Blister Beetle, Thrips—10 to 20 lbs. per acre. For early season control of Cotton Leafhopper, Flea Beetle and Thrips. Claims for aphids are limited to population suppression when used with repeated application. For concentrate dust, calibrate ground equipment or aerial apparatus accurately. After properly adjusting equipment to deliver the required low volume, maintain constant speed throughout application to

2/3

insure even coverage. Strictly avoid excessive application. To effectively apply concentrate dust by aircraft, use standard Venturi-type equipment with spreader vans or Swathmaster-type spreaders. Fly at normal height (4 to 6 feet above the tops of the plants is suggested) and maintain regular swath width (usually 30 to 35 feet is indicated). For application with ground equipment, use tractor-mounted power dusters with a metering device that feeds the concentrate (just through one nozzle per row with deflector) or similarly designed electronic dusters. Grasshopper—10 to 30 lbs. per acre. Use the higher dosage when grasshoppers are mature or when plants are partially defoliated. Refer to directions for concentrate dust above. Bollworm, Cotton Leaf Bugs (light to moderate infestations), Tarnished Plant Bug—20 to 40 lbs. per acre. For mid- to late-season control for all but Lygus Bugs, refer to concentrate dust directions above. Boll Weevil, Salt Marsh Caterpillar, Stink Bug—30 to 50 lbs. per acre. Refer to concentrate dust directions above. Pink Bollworm—30 to 50 lbs per acre. Refer to concentrate dust directions above.

**\*\*COWPEAS (3-Day Pre-Harvest Interval)**—Blister Beetle, Mexican Bean Beetle—10 lbs. per acre. Grasshopper—10 to 30 lbs. per acre. Use 10 to 20 lb. rate on young plants and for controlling nymphs. Alfalfa Caterpillar, Bean Leaf Beetle, Cucumber Beetle, Flea Beetle, Green Cloverworm, Japanese Beetle, Leafhopper, Three-Cornered Alfalfa Hopper, Thrips, Velvetbean Caterpillar—20 lbs. per acre. Armyworm, Corn Earworm, Cutworm, Stink Bug, Webworm—20 to 30 lbs. per acre. (Corn Earworm, Lygus Bug, Stink Bug—40 lbs. per acre, California only)

**CRANBERRIES (1-Day Pre-Harvest Interval)**—Cranberry Fireworm, Cranberry Fruitworm, Cutworm, Japanese Beetle, Leafhopper—30 to 60 lbs. per acre.

**\*\*CUCUMBERS (No Pre-Harvest Interval)**—Pickworm, Melonworm—10 lbs. per acre. Cucumber Beetle, Flea Beetle, Leafhopper, Squash Bug—20 lbs. per acre.

**DANDELIONS (14-Day Pre-Harvest Interval)**—Flea Beetle, Leafhopper—10 to 20 lbs. per acre. Aster Leafhopper—20 to 30 lbs. per acre. Armyworm, Cabbage Looper, Stink Bug—20 to 40 lbs. per acre. Where the Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**DEWBERRIES (7-Day Pre-Harvest Interval)**—Japanese Beetle, Leafhopper, Leaf Roller, Raspberry Aphid—40 lbs. per acre. Climbing Cutworm, Orange Tortrix, Sawfly, Snowy Tree Cricket—40 lbs. per acre.

**EGGPLANT (No Pre-Harvest Interval)**—Colorado Potato Beetle, Flea Beetle, Leafhopper—10 to 20 lbs. per acre. European Corn Borer, Fat Armyworm, Lace Bug, Pinworm, Stink Bug, Tomato Fruitworm, Tomato Hornworm, Tarnished Plant Bug—20 to 40 lbs. per acre.

**ENDIVE (ESCAROLE) (14-Day Pre-Harvest Interval)**—Flea Beetle, Harlequin Bug, Leafhopper—10 to 20 lbs. per acre. Six-Spotted Leafhopper—20 to 30 lbs. per acre. Armyworm, Cabbage Looper, Corn Earworm, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where the Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage looper after edible parts start to form, apply at 5 to 7 day intervals.

**FILBERTS (No Pre-Harvest Interval)**—Filbert Aphid, Filbert Leaf Roller, Filbert Moth—80 to 100 lbs. per acre. Apply dust when leaf roller eggs are hatching. Repeat on first appearance of adult filbert moths and again 3 to 4 weeks later.

**GRAPES (No Pre-Harvest Interval)**—European Fruit Lecanium, Grapeleaf Folder, Grapeleaf Hopper, Grapeleaf Skeletonizer—12 to 14 lbs. per acre. For Grapeleaf Folder, apply just before first brood larvae emerge from rolls. Grape Berry Moth, Japanese Beetle, June Beetle, Redbanded Leafroller—20 to 40 lbs. per acre.

**GRASS (Grown for Hay) (No Pre-Harvest Interval)**—Refer also to *Pasture and Rangeland*. Mosquitoes (adults)—5 to 10 lbs. per acre. For air blast duster application only. Thorough coverage is necessary for effective control. For optimum control, apply in early morning or evening when air is calm and adults are active. Grasshopper—10 to 30 lbs. per acre. Use 10 to 20 lb. rate on sparse vegetation and for controlling nymphs. Armyworm, Stink Bug, Thrips—20 to 30 lbs. per acre.

**GRASS (Grown for Seed) (No Pre-Harvest Interval)**—Grasshopper—10 to 30 lbs. per acre. Use 10 to 20 lb. rate on sparse vegetation and for controlling nymphs. Armyworm, Stink Bug, Thrip—20 to 30 lbs. per acre. Direct dust into boot for thrip control.

**HORSERADISH (3-Day Pre-Harvest Interval)**—Flea Beetle, Harlequin Bug, Leafhopper—10 to 20 lbs. per acre. Armyworm, Cabbage Looper, Diamondback Moth, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where the Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**KALE (14-Day Pre-Harvest Interval)**—Flea Beetle, Harlequin Bug—10 to 20 lbs. per acre. Armyworm, Cabbage Looper, Corn Earworm, Diamondback Moth, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where the Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**KOHLRABI (3-Day Pre-Harvest Interval)**—Flea Beetle, Harlequin Bug—10 to 20 lbs. per acre. Cabbage Looper, Corn Earworm, Diamondback Moth, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where the Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**\*\*LETTUCE (Pre-Harvest Interval 3 Days for Head and 14 Days for Leaf)**—Flea Beetle, Harlequin Bug, Leafhopper—10 to 20 lbs. per acre. Six-Spotted Leafhopper—20 to 30 lbs. per acre. Armyworm, Cabbage Looper, Corn Earworm, Imported Cabbageworm, Lygus Bug, Spittlebug, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where the Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals after heads start to form.

**LOGANBERRIES (7-Day Pre-Harvest Interval)**—Japanese Beetle, Leafhopper, Leaf Roller, Raspberry Aphid—40 lbs. per acre. Climbing Cutworm, Orange Tortrix, Sawfly, Snowy Tree Cricket—40 lbs per acre.

**\*\*MELONS (Including Casaba, Cantaloupe, Crenshaw, Honeyball, Honeydew, Muskmelon, Persian Melon, Watermelon) (No Pre-Harvest Interval)**—Sevin injures watermelons in Florida. Pickworm, Melonworm—10 lbs. per acre. Cucumber Beetle, Flea Beetle, Leafhopper, Squash Bug—20 lbs. per acre.

**MUSTARD GREENS (14-Day Pre-Harvest Interval)**—Flea Beetle, Harlequin Bug—10 to 20 lbs. per acre. Armyworm, Cabbage Looper, Corn Earworm, Diamondback Moth, Imported Cabbageworm, Stink Bug, Tarnished Plant Bug—20 to 40 lbs. per acre. Where the Cabbage Looper is the principal problem, use an alternative pesticide specifically recommended for it. For control of small cabbage loopers after edible parts start to form, apply at 5 to 7 day intervals.

**NECTARINE (3-Day Pre-Harvest Interval)**—Codling Moth, Fruit-Tree Leafroller, Japanese Beetle, Orange Tortrix, Oriental Fruit Moth, Peach Twig Borer, Periodical Cicada, Tussock Moth—80 to 120 lbs. per acre. For Codling Moth and Oriental Fruit Moth, apply at petal fall and every 10 to 14 days thereafter until control is achieved.