



10163-60

05/16/2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Rebecca A. Lamas
Gowan Company
P.O. Box 5569
Yuma, AZ 85366-5569

MAY 16 2000

Subject: Gowan Carbaryl 4
EPA Registration No. 10163-60
Amendment dated February 18, 2000 in Response to EPA
Letter dated 21 December 1999 for GDE response.

Dear Ms. Lamas:

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

1. Under the headings "Personal Protective Equipment" on page 1 and "Agricultural Use Requirements" on page 2 you must add the statement "Chemical resistant headgear for overhead exposure".

2. The PHI statements must be corrected for the following crops:

Forage Grasses Pasture- 14 day PHI
Peas- add 3 days for succulents
Soybeans- 21 day PHI for dried soybeans
Sweet potatoes- 7 day PHI
Almond- 14 day PHI
Plums, Prunes, and Cherries- all have a 3 day PHI.

Submit two copies of your final printed labeling before you release the product for shipment. A stamped copy of the labeling is enclosed for your records.

Sincerely,

George Tompkins
George Tompkins, Ph.D., Entomologist
Insecticide-Rodenticide Branch
Registration Division (7505C)

ACCEPTED
with COMMENTS
In EPA Letter Dated:
MAY 16 2000

2/11

GOWAN CARBARYL 4

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
10163-60

ACTIVE INGREDIENT:		% BY WT
Carbaryl (1-naphthyl methylcarbamate)		43.7%
INERT INGREDIENTS		56.3%
	TOTAL	100.0%

Contains 4 lbs. Carbaryl per gallon.

KEEP OUT OF REACH OF CHILDREN
CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a Physician or Poison Control Center. Drink 1 or 2 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.
IF INHALED: Remove victim to fresh air.
IF IN EYES: Immediately flush eyes with plenty of clear water for at least 15 minutes.
IF ON SKIN: Wash skin with soap and water.

NOTE TO PHYSICIAN: Carbaryl is a moderate, reversible, cholinesterase inhibitor. Atropine is antidotal. DO NOT use 2-PAM, opiates or cholinesterase inhibiting drugs.

FOR EMERGENCY MEDICAL RESPONSE AND HAZARD COMMUNICATIONS ONLY, CALL HAZARD INFORMATION SERVICES AT 1-(800)-228-5635 ext. 283

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

May be harmful if swallowed. Avoid breathing vapors or spray mist. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not take internally. Wear regular long-sleeved work clothing. Change to clean clothing daily.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintainin PPE. If no such instruction 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 or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 extremely toxic to aquatic and estuarine invertebrates. Do not apply directly to water or wetlands, except for rice uses. Discharge from rice fields may kill aquatic and estuarine invertebrates. Do not contaminate water by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE

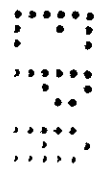
It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product on a way that will contact workers or others persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to you State or Tribe, consult the agency responsible for pesticide regulation.

NET CONTENTS _____ GALLONS

GOWAN

EPA Reg. No. 10163-60
EPA Est. No.67545-AZ-1

Gowan Company
P O Box 5569
Yuma, AZ 85366



AGRICULTURAL USE REQUIREMENTS

Use this product 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 that are covered by the Worker Protection Standard.

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

- Coveralls
- Waterproof gloves
- Shoes plus socks

BEE CAUTION

MAY KILL HONEY BEES IN SUBSTANTIAL NUMBERS. This product is highly toxic to bees exposed to direct treatment 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. Contact your Cooperative Agricultural Extension Service or Gowan Company for further information.

PHYSICAL OR CHEMICAL HAZARDS

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 enter treated areas without protective clothing until sprays have dried. Because certain states require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in the treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written and oral warnings must include the following information: CAUTION - Area treated with carbaryl on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, follow instructions under STATEMENT OF PRACTICAL TREATMENT section.

Gowan Carbaryl 4 Insecticide is for dispersion in water and low volume application in hydraulic sprayers, mist blowers, low gallonage ground equipment and aircraft. Tolerances established under the Federal Food, Drug and Cosmetics Act permit the sale of crops bearing probable carbaryl residues when Gowan Carbaryl 4 is used in accordance with label directions. Forage or feed crops may be grazed or harvested for use as feed for dairy or meat animals without resulting residues in meat or milk. crops. READ THIS LABEL. USE IN STRICT ACCORDANCE WITH DIRECTIONS AND CAUTIONS.

The directions on this label are based on tests and field experience relating to (a) effectiveness; (b) possible injury to plant growth; and (c) residues in food, feed and milk. Follow directions for most effective and safest use.

Consult State Agricultural Stations or State Agricultural Extension Service for additional information as the timing will vary with local conditions.

EQUIPMENT CARE

- 1) Flush entire system with clear water to remove other chemicals before using Gowan Carbaryl 4. DO NOT FLUSH WITH KEROSENE OR DIESEL FUEL.
- 2) Use 50 mesh or coarser screens in the entire system.
- 3) Nozzles should be fan type, number 3 or larger. Cone nozzles may be used if applying at least 3 gallons of finished spray per acre.
- 4) After spraying, flush tank and lines with clear water.

SPRAY PREPARATION

- 1) Shake or stir each container of Gowan Carbaryl 4 before use.
- 2) First add at least 1/4 of the required amount of water to spray or mix tank, then provide moderate agitation while adding Gowan Carbaryl 4. Refer to dilution directions for correct amount of water to use.
- 3) Use rinse water from container in tank mix.
- 4) For combination sprays, Gowan Carbaryl 4 must be added to at least an equal volume of water and mixed thoroughly before another pesticide is added.
- 5) Do not mix Gowan Carbaryl 4 with kerosene or diesel fuel.
- 6) Calibrate spray equipment to deliver the correct volume. The flow rate of Gowan Carbaryl 4 diluted 1:1 with water is about the same as the flow rate of water.
- 7) Recirculate spray mixtures at frequent intervals after mixing to maintain a uniform suspension.
- 8) Mix only as much spray as can be applied on day of mixing.

- 9) Avoid applications when rain is expected as poor insect control and/or crop damage could result.

IMPORTANT

- Use clean equipment. Flush tank and lines with clear water before and after spraying.
- Screens should be 50 mesh or coarser.
- Provide moderate agitation while adding Gowan Carbaryl 4 to water in spray or mix tank. Recirculate at intervals to maintain a uniform suspension. Physical compatibility of Gowan Carbaryl 4 with other pesticides is not fully known. Incompatible mixtures curdle or precipitate and may injure crops or reduce control. Compatibility can be affected by water in your locality, various surfactants and other formulation ingredients. Do not apply if physically incompatible.

COMPATIBILITY CAUTIONS

- 1) Do not mix Gowan Carbaryl 4 with nutrients or adjuvants or other pesticides unless your experience indicated that the mixture is safe and effective. If uncertain, prepare a small amount of the mixture and test on a representative portion of the crop.
- 2) Unstable under highly alkaline conditions. Not effective if used with alkaline materials such as Bordeaux, lime-sulfur and casein lime spreaders.

PLANT RESPONSE PRECAUTIONS

- 1) To avoid possible injury on tender foliage, do not apply when foliage is wet or when rain or excessive humidity is expected during the next two days.
- 2) Do not use on Boston ivy, Virginia creeper and maidenhair fern as injury will result. During early season, it may also injure Virginia and sand pines.
- 3) Observe label instructions for apple thinning and on combinations with certain herbicides on rice and soybeans.

INSECT CONTROL

Apply when insects or their damage appear. To maintain control, repeat at 7 to 14 day intervals or as necessary unless different directions are give in the CROP USE DIRECTIONS. Where a dosage rate is indicated, use the lower rate on young plants and early instars and higher rate on mature plants, advanced instars and adults. This product does not control spider mites.

DILUTIONS DIRECTIONS

The rate required for thorough, uniform coverage varies with plant growth at time of application. Except as specified for certain uses, the following rates are therefore intended to cover a broad range of conditions. Where small volumes of spray are required, 1 Tablespoon of product per gallon water corresponds to a label rate of 1 quart per acre or 1 quart per 100 gallons.

Dilute Application

Field and Row Crops: Apply specified rate in 20 to 75 gallons of water per acre.
Fruit and Nuts: Apply specified rate in 200 to 300 gallons of water per acre.

Concentrate Application

Field and Row Crops: Use at least 3 gallons of finished spray per acre.
Fruit and Nuts: Use 30 to 100 gallons of finished spray per acre.

Aerial Application

Field and Row Crops: Use at least 1 gallon of finished spray per acre.
Fruit and Nuts: Use at least 10 to 25 gallons of finished spray per acre.

PRE-HARVEST INTERVALS

The required days between the last application and harvest are given in () after each crop.

**CROP USE DIRECTIONS
FIELD AND ROW CROPS**

CROP	PEST	RATE QTS./ACRE	COMMENTS
All Forage, Field and Vegetable Crops in this Section (See specific Field or Vegetable Crop for PHI)	Grasshoppers	½ - 1½	Use ½-1 qt. For nymphs on small plants or sparse vegetation in wasteland, rangeland, ditch banks and borders. Use 1-1 ½ qts. for adult grasshoppers or applications to dense vegetation.

Field and Row Crops (continued)

CROP	PEST	RATE QTS./ACRE	COMMENTS
Alfalfa (7), Clovers (7)	Blister beetles, Mexican bean beetle	½-1	Observe plant response precautions.
	Alfalfa caterpillar, Bean leaf beetle, Cucumber beetles, Green cloverworm, Japanese beetle, Leafhoppers, Three-cornered alfalfa hopper, Thrips, Velvetbean caterpillar	1	
	Alfalfa weevil larvae, Alfalfa blotch leafminer, Armyworm, Cloverhead weevil, Corn earworm, Cutworms, Egyptian alfalfa weevil larvae, Essex skipper, European alfalfa beetle, Fall armyworm, Lygus bugs, Stink bugs, Webworms, Yellowstriped armyworm	1-1½	For alfalfa weevil larvae: If pretreatment damage is extensive, cut alfalfa and treat the stubble. Use higher rate in areas east of the Rocky Mountains. On dense growth use 25-40 gals. per acre with ground equipment to ensure adequate coverage.
Asparagus (1)	Asparagus beetle	1-2	Treat ferns or brush growth. Do not treat more than once every 3 days.
	Apache cicada, Asparagus beetle (post harvest only)	2-4	
Beans-including blackeyed peas, cowpeas, crowder peas, southern peas, dry beans, green beans, lima beans, navy beans and snap beans (See text for PHI)	Blister beetles, Mexican bean beetles	½-1	Observe plant response precautions PHI=3 day Succulent PHI=14 days Forage PHI=21 days Dry and hay
	Alfalfa caterpillar, Bean leaf beetle, Cucumber beetles, Flea beetles, Green cloverworm, Japanese beetle, Leafhoppers, Three-cornered alfalfa hopper, Thrips, Velvetbean caterpillar	1	
	Alfalfa looper	1½	
	Western bean cutworm	1-2	
	Armyworm, Corn earworm, Cutworms, European corn borer, Fall armyworm, Stink bugs, Tarnished plant bug, Webworms	1-1½	
	Cowpea curculio	2	
	Corn earworm, Limabean pod borer, Lygus bugs, Stink bugs	2	
Cabbage (3), Broccoli (3), Brussels Sprouts (3), Cauliflower (3), Kohlrabi (3)	Flea beetles, Harlequin bug	½ - 1	CALIFORNIA ONLY
	Armyworm, Corn earworm, Fall armyworm, Imported cabbageworm	1-2	
Chinese cabbage (14), Collards (14), Hanover salad (14-15), Horseradish (7), Kale (14), Mustard greens (13-14), Radishes (7), Rutabagas (7), Turnips [roots (7), tops-(14-15)]	Flea beetles, Harlequin bug, Leafhoppers	½-1	CALIFORNIA ONLY
	Aster leafhopper	1-1½	
	Armyworm, Corn earworm, Fall armyworm, Imported cabbageworm, Stink bugs, Tarnished plant bug	1-2	
Carrots (7), Parsnips (7), Parsley (14-15), Celery (14-15)	Flea beetles, Leafhoppers	½ - 1	DO NOT USE ON CELERY IN CALIFORNIA. Treat on a 5-7 day schedule
	Aster leafhopper, Lygus bugs, Spittlebugs	1-1½	
	Armyworm, Corn earworm, Fall armyworm, Stink bugs, Tarnished plant bug	1-2	

Field and Row Crops (continued)

CROP	PEST	RATE QTS/JACRE	COMMENTS
Potato (7), Tomato (3), Eggplant (3), Pepper (3)	Colorado potato beetle, Flea beetles, Leafhoppers	½ - 1	
	European corn borer, Fall armyworm, Lace bugs, Stink bugs, Tarnished plant bug, Tomato fruit worm, Tomato hornworm, tomato pinworm	1-2	
	Cutworms	2	
Rice(14)	Amyworm, Chinch bugs, Fall armyworm, Stink bugs	1 - 1½	CAUTION: May kill shrimp and crabs. Do not use in areas where these are important resources. Do not use on rice fields in which crayfish and/or catfish farming are included in the cultural practice. DO NOT APPLY PROPANIL HERBICIDES WITHIN 15 DAYS BEFORE OR AFTER APPLICATION OF THIS PRODUCT OR PLANT INJURY WILL RESULT. MISSISSIPPI DELTA & TEXAS.
	Amyworm, Leafhoppers, Tadpole shrimp	2	CALIFORNIA ONLY. For optimum tadpole shrimp control apply to water when pest first appears.
Soybeans (14 forage and 21 for hay)	Bean leaf beetle, Cucumber beetles, Green cloverworm, Mexican bean beetle, Velvetbean caterpillar	½	DO NOT APPLY A COMBINATION OF THIS PRODUCT AND 2,4-DB HERBICIDES TO SOYBEANS AS CROP INJURY MAY RESULT.
	Corn earworm	½ - ¾ 1-1½	For light to moderate populations and smaller instars.
	Blister beetles, Grape colaspis, Mexican bean beetle	½ - 1	Use the higher rates for heavy populations and larger instars.
	Alfalfa caterpillar, Bean leaf beetle, Cucumber beetles, Green cloverworm, Japanese beetle, Leafhoppers, Three-cornered alfalfa hopper, Thrips, Velvetbean caterpillar	1	
	Amyworm, Cutworms, Fall armyworm, Stink bugs, Webworms	1 - 1½	
	Painted lady (Thistle caterpillar) Saltmarsh caterpillar, Yellow-striped armyworm	2-2½	
Sugar Beets (28)	Amyworm, Beet leaf beetle, Fall armyworm, Flea beetles, Leafhoppers, Webworms	1-1½	
	Cutworms	1½	
Sunflower (60) (Except California)	Cutworms	1½	
	Amyworm, Fall armyworm	1½ - 2	
	Stem weevil, Sunflower beetle	1-2	

Field and Row Crops (continued)

CROP	PEST	RATE QTS./ACRE	COMMENTS
Sweet Potato (0) (Except California)	Com earworm, Cucumber beetles, Flea beetles, Sweet potato hornworm, Tortoise beetles	1-2	Apply as a foliar spray as needed.
	Yellowstriped armyworm	2	
	Sweet potato weevil	1-2	FOLIAR APPLICATION. Full coverage of plants is essential. Use lower rate on young plants and higher rate on mature plants.
Tobacco (0)	Tobacco flea beetle	1 qt./60 gal. and apply 6 gal./ 100 sq. yards	IN PLANT BEDS: To prevent plant injury, avoid excessive applications.
	Green June beetle grubs	½ qt./100 gals.	Apply only to areas that larvae have uprooted by sprinkling as a drench with 50-100 gals. per 100 square yards.
	Budworms, Fall armyworm, Flea beetles, Hornworms, Japanese beetle, June beetle, Suckfly	1-2	IN FIELDS: Use lower rate on young plants (up to knee height). Use at least 10 gals. of prepared spray per acre. Begin treatments when worms are small. If late season applications are necessary, allow three (3) days before pruning or cutting.
Wheat [forage-(7) grain-or straw (21)] (Except California)	Cereal leaf beetle	1	Do not make more than two applications after grain head emerge from boot. Application is effective against eggs, larvae and adults.
	Amyworm, Fall armyworm	1-1½	

FRUITS AND NUTS

CROP	PEST	RATE QTS./ACRE	COMMENTS
Almond (28)	Peach twig borer, San Jose scale, Fruitree leafroller	3-8	Apply in "popcorn" or petal fall stages and again when the May brood of the peach twig borer begins to hatch or thereafter as needed.
	Navel orangeworm	5	Time early and midseason applications to correspond to moth flight peaks. Make a late season application at initiation of hull split or up to 10% hull split.
Apple (3), Pears (3)	Coldling moth, Apple sucker, Woolly apple aphid, Green apple aphid, Pear psylla, Orange tortrix, Scale (San Jose, oyster shell, Lecanium), Lygus bugs, Apple rust mite, Pear leaf blister mite, Pear Rust mite, Apple maggot	3-12	To avoid apple thinning, delay use until at least 30 days after bloom.
Apple Thinning (for easily thinned varieties including) Cortland, Grimes, Jonathan, McIntosh, Orleans, Rome Beauty, Puritan, Red Delicious, Winesap and Yellow Newton		¼ - ½ qt. per 100 gals. of water	Apply one full coverage dilute spray between 10 and 25 days after full bloom. If factors such as tree age, variety, nutrition, previous crop, pruning, bloom and degree of set favor excessive fruit tree thinning with this product, exercise caution to avoid possible yield reduction.

CROP	PEST	RATE QTS./ACRE	COMMENTS
Apple Thinning (for difficult to thin varieties, including) Baldwin, Ben Davis, Duchess, Early McIntosh, Golden Delicious, Lady Apple, Northern Spy, Rhode Island Greening, Steele Red, Turley, Wealthy, Yellow Transplant and York Imperial		$\frac{1}{2}$ - 1 qt. per 100 gals. water	Apply one full coverage dilute spray between 10 and 25 days after full bloom. If factors such as tree age, variety, nutrition, previous crop, pruning, bloom and degree of set favor excessive fruit tree thinning with this product, exercise caution to avoid possible yield reduction.
Blackberries (7) Raspberries (7), Dewberries (including boysenberries and loganberries) (7)	European raspberry aphid, Japanese beetle, Leafhoppers, Leafrollers, Rose chafer, Snow tree cricket	1-2	
	Omnivorous leafroller, Raspberry sawfly	2	CALIFORNIA ONLY.
Blueberries (7)	Blueberry maggot, Cherry fruitworm, Cranberry fruitworm, European fruit lecanium, Japanese beetle	1½	Apply 3 weeks before harvest and repeat as necessary
Cranberries (7)	Cutworms, Cranberry fireworms, Cranberry fruitworm, Japanese beetle, Leafhoppers, Rose chafer	1½ - 3	Apply in late bloom and as needed at 7-10 day intervals. CAUTION: May kill shrimp and crabs. Do not use in area where these are important resources.
Chestnuts (14) (Except California)	Chestnut weevil	1-2	Make 4 applications at weekly intervals beginning in late July. Last application should be made prior to shuck split.
Citrus (grapefruit, lemons, limes, oranges, tangelos, tangerines, citrus citron, kumquats, and hybrids) (5)	Avocado leafroller, California orange dog, Citrus cutworm, Citrus root weevil, Fruit tree leafroller, Orange tortrix, Western tussock moth, West Indian sugarcane borer (adults), Peach twig borer, Scale (black, brown, soft, California red, Citricola, citrus snow and yellow)	2½	DO NOT apply less than 10 gals. of dilute spray mixture per mature tree. May be mixed with petroleum oils commonly used on citrus.
Filberts (14)	Filbert aphid, Filbert moth, Filbert leafroller	4-5	Apply when leafroller eggs are hatching. Repeat on first appearance of adult filbert moths and again 3-4 weeks later.
Grapes (7)	European fruit lecanium, Grape leaf folder, grape leafhopper, Western grape leaf skeletonizer, Western yellow-striped armyworm	1-2	Apply before first brood leaf folder larvae emerge from rolls.
	Cutworms, Eight-spotted forester, Grape berry moth, Japanese beetle, June beetles, Orange tortrix, Omnivorous leafroller, Red-banded leafroller, Saltmarch caterpillar	2	
Olives (14)	Olive scale	3-8	Do not exceed 2 applications per year. Do not apply more than 15 qts. of this product per application per year.

FRUITS AND NUTS (continued)

CROP	PEST	RATE QTS./ACRE	COMMENTS
Peaches (3), Apricots (3), Nectarines (3)	Apple pandemis, Codling moth, Cucumber beetles, European earwig, Fruittree leafroller, Japanese beetle, June beetles, Lecanium scales, Lesser peachtree borer, Olive scale, Orange tortrix, Oriental fruit moth, Peach twig borer, Periodical cicada, Plum curculio, Red-banded leafroller, San Jose scale, Tarnished plant bug, Tussock moth, Variegated leafroller	3-8	For optimum scale control, apply when crawlers are present. Spray limbs and trunk thoroughly, weekly, during moth flight.
Pecans (14)	Black margined aphid, Fall webworm, Hickory shuckworm, Lesser webworm, Pecan leaf phylloxera, Pecan nut casebearer, Pecan spittlebug, Pecan weevil, Twig girdler, Walnut caterpillar	2-6	-
Pistachios (14)	Navel orangeworm	½ - 2	Apply at the onset of hullsplit.
Plums (1), Prunes (1), Cherries (1)	Cherry fruit fly, Cherry fruitworm, Fruit tree leafroller, Peach twig borer, Lesser Peach tree borer, Black cherry aphid, Mealy plum aphid, Plum curculio, Prune leafhopper, Red-banded leafroller, Japanese beetle, Scale (Brown, soft, Forbes, San Jose, oyster shell, lecanium), Codling moth, Eastern tent caterpillar, Orange tortrix, Tussock moth	3-6	For optimum scale control, apply when crawlers are present. For lesser peachtree borer control, spray limbs and tree trunks thoroughly, weekly, during moth flight.
Strawberries (7)	Flea beetles, Meadow spittlebug, Omnivorous leaflier (strawberry fruitworm), Strawberry leafroller, Strawberry weevil	1-2	Carbaryl may injure Early Dawn and Sunrise varieties on the Delmarva Peninsula
Walnuts (14)	Codling moth, Scale (Frosted, European fruit lecanium, calico) Filbert worm, Fruittree leafroller	5	For codling moth, apply when average cross sectional diameters of developing nuts are ¼ - ¾ inch. Repeat during middle or late June as needed.
	European earwig	3-5	Spray tree trunks to point of run-off.

POULTRY INSECT CONTROL

POULTRY	INSECT	RATE	SPECIFIC DIRECTIONS
Chickens, Ducks, Geese, Gamebirds, Pigeons and Turkeys	Chicken mite, Fleas, Lice, Northern fowl mite	10 oz./per 1 gal. of spray (electric fog machine)	For use as a direct mist spray on birds by: 1) Misting with Electric Fog Machine. Mix 10 ounces of this product in 1 gal. of spray. Use 1½ gals. per 1,000 hens in cages, on litter or on slatted floor. Repeat in 4 weeks if necessary. OR 2) Spraying with knapsack or cylinder type compressed air sprayers. Mix 6 ounces of this product in 5 gals. of spray. Use 1 gal. per 100 hens in cages, on litter or on slatted floor. Repeat in 4 weeks if necessary. Direct mist spraying for chicken mite and fleas is a supplement to spraying roosts and buildings for control of these pests. DO NOT apply to poultry and game birds within 7 days of slaughter.
		OR 6 oz./per 5 gal. spray (knapsack or cylinder)	
POULTRY QUARTERS	INSECT	RATE	SPECIFIC DIRECTIONS
Roosts and Buildings	Bedbugs, Chicken mite, Fleas, Fowl tick, Lesser mealworms, Lice, Northern fowl mite	4-5 qts./ per 100 gals. water	Spray roost and buildings with conventional power spray or knapsack equipment. For chicken mite, fleas and bedbugs, use 4 qts. of this product per 100 gals. For lesser mealworms, use 5 qts. per 100 gals. Spray 1 or 2 gals. per 1000 square feet of wall, bedding, litter or roost surface. Force spray into cracks. Repeat as needed. Avoid spraying nests, eggs and feeding and watering troughs. Ventilate while spraying. DO NOT treat premises within 7 days of slaughter.

STORAGE AND DISPOSAL

Store in a cool, dry area. Do not store in areas where temperatures frequently exceed 100°. Store any unused portion of Gowan Carbaryl 4 in the original, labeled container.

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: 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.

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK, OR FIRE) CALL CHEMTREC® (800) 424-9300.

For other product information contact Gowan Company or see Material Safety Data Sheet.

NOTICE ON CONDITIONS OF SALE

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.

EPA Text Pending: Gowan Carbaryl 4 (to EPA 02-18-00)