

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-757)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

10163-139

DATE OF ISSUANCE

September 19, 1991

NOTICE OF PESTICIDE:

REGISTRATION
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

TERM OF ISSUANCE

Until Reregistration

NAME OF PESTICIDE PRODUCT

Gowan Azinphos-M 35W

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

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

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit/cite all data or other material required for registration, reregistration of your product under FIFRA section 3(c)(5) and FIFRA section 4 when the agency requires all registrants of similar products to submit such data.

2. Add the phrase "EPA Registration No. 10163-139" to your label before you release the product for shipment.

3. A 1-year storage stability study for this product must be submitted within 15 months from the date of this Registration Notice.

4. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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

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

Dennis H. Edwards, Jr.
Product Manager (19)
Insecticide-Rodenticide Division
Registration Division (75050)

BEST AVAILABLE COPY

Enclosures

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Dennis H. Edwards Jr.

DATE

9/19/91

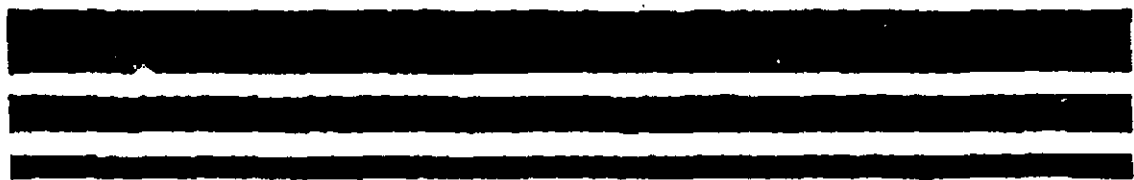
RESTRICTED USE PESTICIDE

Due to Acute Toxicity

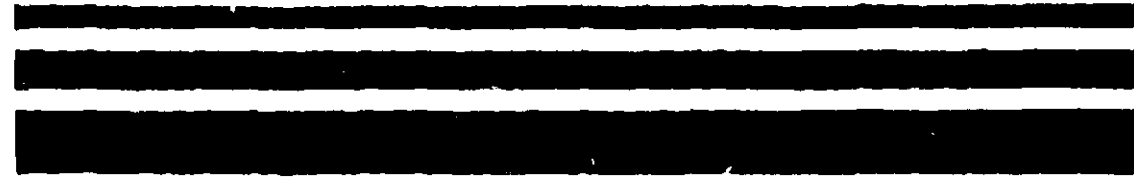
For retail sale to use only by certified applicators or person under their direct supervision and only for those uses covered by the Certified Applicator's Certification.

red }

} red



GOWAN AZINPHOS-M 35W



ACTIVE INGREDIENT:	BY WT.
O,O-Dimethyl S-[(4-oxo-1,2,3-Benzotriazin-3 (4-H)-yl) methyl] phosphorodithioate	35.0%
INERT INGREDIENTS	65.0%
	TOTAL 100.0%

KEEP OUT OF REACH OF CHILDREN

red }



**DANGER-POISON
PELIGRO**



} red

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONS

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED — Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. Do not give anything by mouth to an unconscious person.

IF INHALED — Remove victim to fresh air. Apply artificial respiration if indicated.

IF IN EYES — Flush eyes with plenty of clear water for at least 15 minutes, and get medical attention if irritation persists.

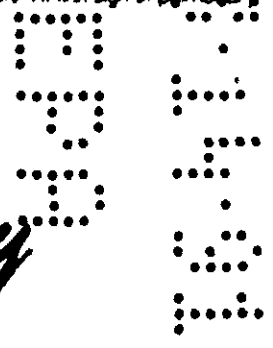
IF ON SKIN — Remove contaminated clothing and wash skin immediately with soap and warm water.

NOTE TO PHYSICIAN

ANTIDOTE — Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal, and may be administered in conjunction with atropine. Azinphos-M inhibits cholinesterase, resulting in stimulation of the central nervous system, the parasympathetic nervous system and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

Net Weight Pounds

Gowan Company



SEP 19 1991

Under the Federal Insecticide, Fungicide, and Rodenticide Act registered for the pesticide under EPA Reg. No. 10163-139

EPA Reg. No. 10163-139
EPA Est. No. 10163-AZ-1

P.O. Box 5869
Yuma, AZ 85306

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PRE CAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER — POISON

Fatal if swallowed, inhaled or absorbed through the skin. Do not breathe vapor, dust or spray mist. Do not get in eyes, on skin, or on clothing. Wash hands, arms and face thoroughly with soap and warm water before eating or smoking. Keep out of reach of children and domestic animals. Do not contaminate feed or foodstuffs. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Work Safety Rules: If handled indoors provide mechanical exhaust ventilation. Keep all unprotected persons, children, livestock, and pets away from treated areas or where there is danger of drift.

Do not rub eyes or mouth with hands. If you feel sick in any way STOP work and get help right away. See First Aid section of the label.

For questions regarding further treatment, or information about the product, call the National Pesticide Telecommunications Network at 800-858-7378.

HANDLE THE CONCENTRATE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT. Wear a protective suit of one or two pieces that covers all parts of the body except the head, hands, and feet. Wear chemical resistant gloves, chemical resistant apron, and chemical resistant shoes, shoe coverings, or boots. Wear goggles or a face shield and a pesticide respirator approved by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part II.

WEAR THE FOLLOWING PROTECTIVE CLOTHING DURING APPLICATION, EQUIPMENT REPAIR, EQUIPMENT CLEANING, DURING REENTRY TO TREATED AREAS, AND DISPOSAL OF THE PESTICIDE: Wear a protective suit of one or two pieces that covers all parts of the body except the head, hands, and feet. Wear chemical resistant gloves and chemical resistant shoes, shoe coverings, or boots. Wear a chemical resistant hat during airblast application.

During application from an enclosed tractor cab or airplane cockpit, or other suitable vehicle in which the windows are rolled up, long sleeved shirt and long pants may be worn in place of the above protective clothing. Chemical resistant gloves must be worn while exiting. This clothing is inadequate to protect you during equipment repair, equipment cleaning, re-entry, or during pesticide disposal.

IMPORTANT! BEFORE REMOVING GLOVES, WASH THEM WITH SOAP AND WATER. ALWAYS WASH HANDS, FACE, AND ARMS WITH SOAP AND WATER BEFORE SMOKING, DRINKING, EATING OR TOILETING. After work take off all clothing and shoes. Shower using soap and water. Do not wear contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Respirators must be cleaned and filters replaced according to instructions included with respirators. Personal clothing worn during use must be laundered separately from household articles. Clothing and protective equipment heavily contaminated or drenched with azinphos-methyl must be destroyed according to state and local regulations. **HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.**

During aerial application, human flaggers are prohibited unless in totally enclosed vehicle.

Symptoms of Poisoning: A sense of "lightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea. **TREATMENT:** In case of poisoning, call a physician immediately. (See Statement of Practical Treatment section, also).

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and wildlife. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water by cleaning of equipment or disposal of wastes. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

This product is highly toxic to bees exposed to direct treatment or residues on crops or blooming weeds. Do not apply this product or allow it to drift to crops or weeds when bees are actively visiting the treatment area. Time applications to provide the maximum possible interval between treatment and the next period of bee activity. Protective information may be obtained from your Cooperative Agricultural Extension Service.

DIRECTIONS FOR USE

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

RE-ENTRY STATEMENT

Do not enter treated areas for 24 hours after application unless protective clothing is worn, as described in the product labeling.

Because certain states may 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 a 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: **DANGER — Area treated with Azinphos-M on (date of application).** Do not enter without appropriate protective clothing for 24 hours. In case of accidental exposure, follow instructions under Statement of Practical Treatment section.

STORAGE AND DISPOSAL

STORE IN a cool, dry place below 120°F. Do not store next to herbicides.

DO NOT CONTAMINATE water, food or feed by storage or disposal. Open dumping is prohibited.

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

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

CROP USE INSTRUCTIONS

See attached booklet/folder for application instructions.

BEST AVAILABLE COPY

GOWAN AZINPHOS-M 35 W

EPA Reg. No. 10163-R60

CROP USE DIRECTIONS

Gowan Company
P. O. Box 5569
Yuma, AZ 85366

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

~~DIRECTIONS FOR USE OF WATER SOLUBLE BAGS~~

~~Packets containing Gowan Azinphos-M 35 WP are water soluble. Do not allow the packet to get wet prior to adding to spray tank. Do not handle with wet hands. Reseal outer bag to protect remaining packets.
To prepare a spray mixture, determine the number of water soluble packets required from the "Recommendations" below. Drop the required number of packets into the spray tank; operate the agitator while adding azinphos. Depending on the water temperature and the degree of agitation, the packets should dissolve in approximately five minutes.
Use the specified dosage of Gowan Azinphos-M 35 WP in water as determined in "DILUTION DIRECTIONS" below. Calculate the total amount of Gowan Azinphos-M 35 WP required for the acreage to be treated. For each 1-3/8 pounds of wettable powder to be added to the spray tank, use one 1-3/8 pound packet. For example, if 2-3/4 pounds of powder are to be added to the spray tank, use two 1-3/8 pound packets.~~

SPRAYING

Prepare water dilutions appropriate for type of equipment used as described above and in DILUTION DIRECTIONS. When applying, work to windward. Protect sprayer operators from drift or mist. When low volumes of spray are applied, complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with local conditions. Consult your State Agricultural Experiment Station or Extension Service for specific use information in your area.

DILUTION 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 applications.

Dilute Application

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

Trees and Vines: Apply specified rate in 100 to 800 gallons of water per acre. For citrus, use up to 2,000 gallons of water per acre.

Concentrate Application

Ground Application: Apply specified rate in not less than 5 gallons of water per acre.

Trees and Vines: Apply specified rate in 20 to 100 gallons of water per acre. Special concentrate equipment is required for these applications.

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Air Application

Field and Row Crops: Apply specified rate in a minimum of 3 gallons of water per acre.
Trees and Vines: Apply specified rate in a minimum of 10 gallons of water per acre.

ROTATIONAL CROPS

Do not plant root crops other than those with registered azinphos-methyl uses in azinphos-methyl treated soil sooner than 6 months after the last application. Do not plant any other crop other than those with registered azinphos-methyl uses in treated soil sooner than 30 days after last application.

GENERAL USE PRECAUTIONS AND RESTRICTIONS

Do not use for any food or forage crop not listed on this labeling. Use only according to label directions. Application at rates above those shown may result in illegal crop residues.

Gowan Azinphos-M 35 WP is compatible with dormant and summer oils; these may be added to sprays in accordance with local recommendations. Do not use oils within 30 days of sulfur or lime sulfur treatment.

DO NOT GRAZE LIVESTOCK IN TREATED ORCHARDS OR GROVES FOR 21 DAYS AFTER TREATMENT. Where specific grazing restrictions are given for a crop listing, follow these specific directions.

Do not treat food crops grown in the greenhouse.

Rates are given in pounds of Gowan Azinphos-M 35 W per acre (lbs./A) (except for certain soil drench applications and ornamental applications). Applications should be made when pests appear and repeated as necessary. However, where the recommendations list a maximum number of treatments per season, applications must not exceed this number.

CHEMIGATION

Gowan Azinphos-M 35 W may be applied through recommended types of irrigation systems to many crops. The REMARKS section for each crop list the types of applications allowed. If application through irrigation systems is not listed in the REMARKS section for a crop, Gowan Azinphos-M 35 W may not be applied to that crop through irrigation systems.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

Types of Irrigation Systems

Apply Gowan Azinphos-M 35 W only through sprinkler, including center pivot, lateral move, side roll, overhead solid set, or low pressure sprinkler irrigation systems. Do not apply GUTHION 35% Wettable Powder through any other types of irrigation systems.

GENERAL DIRECTIONS FOR ALL RECOMMENDED TYPES OF IRRIGATION SYSTEMS

Uniform Water Distribution and System Calibration

The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

The system must be calibrated to uniformly apply the rates specified for chemigation application for specific crops. If you have questions about calibration, you should contact State Extension Service specialist, equipment manufacturer, or other experts.

Chemigation Monitoring

A person knowledgeable of the chemigation system and responsible for its operations, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Drift

Do not apply when wind speed favors drift beyond the area intended for treatment.

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Required System Safety Devices

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point when pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Using Water from Public Water Systems

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly services an average of at least 25 individuals daily at least 60 days out of the year.

DO NOT APPLY Gowan Azinphos-M 35 W THROUGH ANY IRRIGATION SYSTEM SUPPLIED BY A PUBLIC WATER SYSTEM UNLESS the water from the public water system is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

Any irrigation system using water supplied from a public water system must also meet the following requirements:

The pesticide injection pipeline must contain a functional, automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Posting Requirements

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements: Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive areas. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

Posting required for chemigation does not replace other posting and reentry interval requirements for farmworker safety.

Compatibility

When mixing with other chemicals refer to Compatibility section elsewhere on label.

Agitation

For application of Gowan Azinphos-M 35W, a chemical supply tank is necessary for premixing. For application of Gowan Azinphos-M35W alone or in combination with liquid fertilizer or other chemicals, constant strong mechanical or hydraulic agitation must be maintained in the chemical supply tank during the entire period of application.

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Chemical Supply Tank Dilution

You must determine the required amounts of Gowan Azinphos-M 35 W to mix in the tank.

The amount of Gowan Azinphos-M 35 W needed equals the number of pounds of Gowan Azinphos-M 35 W to be applied per acre multiplied by the number of acres to be chemigated.

The amount of solution needed equals the gallons of solution delivered per hour by the injection pump multiplied by the number of hours chemigation will take place.

For example, if you want to apply 2 pounds of Gowan Azinphos-M 35 W per acre to 130 acres in 20 hours and your injection pump delivers 15 gallons per hour, you need: 2 pounds Gowan Azinphos-M 35 W per acre X 130 acres = 260 pounds of Gowan Azinphos-M 35 W. And, you need: 15 gallons per hour X 20 hours = 300 gallons of suspension = 300 gallons of water.

Cleaning the Chemical Injection System

In order to accurately apply pesticides, the chemical injection system must be kept clean; free of chemical or fertilizer residues and sediments. Refer to your owners manual or ask your equipment supplier for cleaning procedure for your injection system.

Flushing the Irrigation System

At the end of the application period, allow time for all lines to flush the pesticide through all nozzles or emitters before turning off irrigation water. To ensure the lines are flushed and free of pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

Equipment Area Contamination

It is recommended that nozzles in the immediate area of control panels, chemical supply tanks, pumps and system safety devices be plugged to prevent chemical contamination of these areas.

Center-Pivot and Automatic-Move Linear Systems

Inject the specified dosage per acre continuously for one complete revolution or move of the system. **DO NOT USE END GUNS.** For a foliar application, the system should be run at maximum speed.

Solid Set and Manually Controlled Linear Systems

For foliar application, injection should be during the last 30 to 60 minutes of regular irrigation period or as a separate 30 to 60 minute application not associated with a regular irrigation. **DO NOT USE END GUNS.**

RECOMMENDED APPLICATIONS

CROP	PEST	Pounds Gowan Azinphos-M 35 W	REMARKS
FIELD CROPS Alfalfa Birdsfoot trefoil (East of the Mississippi River only) Clover	Leathoppers	1/4 to 1/2	Apply specified dosage per acre by air or ground equipment. Use at least 10 gallons of water per acre with ground equipment and at least 1 gallon of water per acre for aerial application. It may be necessary to use 20 to 25 gallons of water per acre on heavy growth for control of alfalfa weevil or Egyptian alfalfa weevil with ground equipment. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. Only one application per cutting may be made regardless of rate, formulation or method of application used. Do not apply within 14 days of harvest at the rates of 1/4 to 1/2 pounds per acre or within 16 days of harvest at the rate of 1/2 pounds per acre.
	Alfalfa weevil Egyptian alfalfa weevil	1/4 to 1/2	
	Alfalfa plant bug Fleahopper Grasshoppers Lygus bugs Spittlebug	1/2	
Barley Oats Rye Wheat	Cereal leaf beetle	1 to 1 1/2	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply more than once per season. Do not harvest for food, feed, forage or graze within 30 days of treatment.
Soybeans	Aphids Bean leaf beetle Green cloverworm Leafhoppers	Leaf miners Leaf rollers Stink bugs Velvet bean caterpillar	Apply specified dosage per acre in sufficient water to give complete coverage. Do not apply within 45 days of harvest. Do not graze or feed treated vines to livestock. Do not exceed more than 3 applications per season.
	Mexican bean beetle		

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CROP	PEST		Pounds Gowan Azinphos-M 35 W	REMARKS
FRUIT	NOTE: It is suggested that when treating fruit during the bloom period, bee keepers should be warned well in advance to remove hives a safe distance from orchards to be treated. Do not graze livestock in treated groves or orchards for 21 days after treatment.			
Apples Crab apples Pears	Aphids* Apple maggot Codling moth European apple sawfly Eye-spotted bud moth Forbes scale Fruit tree leaf roller Green fruitworm* Leathoppers*	Mealybug* Orange tortrix Pear midge Plum curculio Putnam scale Redbanded leaf roller San Jose scale* Stink bug Tarnished plant bug*	2 1/4 to 4 1/4 (1 1/4 to 1 1/2 pounds per 100 gallons)	Apply specified dosage per acre by air or ground equipment in sufficient water for good coverage. Up to 17 1/2 pounds Gowan Azinphos-M 35 W may be applied per crop season. Allow at least 7 days between applications and 7 days between last application and harvest. Gowan Azinphos-M is compatible with dormant and summer oils which may be added to apple and pear sprays in accordance with local recommendations.
Cherries	Eye-spotted bud moth Forbes scale Fruit flies Fruit tree leaf roller	Cherry leaf miner Mineola moth Lesser peach tree borer Plum curculio San Jose scale*	2 1/4 (1 1/4 pound per 100 gallons)	Apply specified dosage per acre as a full coverage spray. Up to 8 1/2 pounds of Gowan Azinphos-M 35 W may be applied per acre per crop season. Allow at least 14 days between applications and 15 days between last application and harvest. California: Apply post-harvest only.
Apricots Nectarines Peaches (Eastern U.S.)	Aphids* Cottony peach scale European fruit lecanium scale Forbes scale Lesser peach tree borer Oriental fruit moth Peach tree borer Peach twig borer	Platynota flavedana leaf roller Plum curculio Redbanded leaf roller San Jose scale* Stink bug Thrips Tarnished plant bug Terrapin scale Walnut scale White peach scale	2 1/2 to 3 1/4 (1 1/4 to 3/4 pound per 100 gallons)	Apply specified dosage per acre as a full coverage spray. Allow at least 14 days between applications. A total of 9 1/2 pounds per acre per crop season may be applied to nectarines. A total of 12 1/4 pounds per acre per crop season may be applied to apricots and peaches. Allow at least 21 days between last application and harvest. For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight. For control of scale, apply when crawlers are present. Gowan Azinphos-M is compatible with dormant and summer oils which may be added to peach sprays in accordance with local recommendations.
Apricots Nectarines Peaches (West of the Rocky Mountains)	Lesser peach tree borer Oriental fruit moth Peach twig borer Peach tree borer Platynota flavedana leaf roller	Plum curculio Redbanded leaf roller Stink bug Thrips Tarnished plant bug	4 1/4 to 5 1/4	Apply specified dosage per acre. Allow at least 14 days between applications. A total of 8 1/2 pounds per acre per crop season may be applied to nectarines. A total of 12 1/4 pounds per acre per crop season may be applied to apricots and peaches. Allow at least 21 days between last application and harvest. For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight.

*In some areas, these species may have developed resistance to organophosphate insecticides. Any insecticide used alone may not provide satisfactory control in those areas. Consult your local agricultural advisor or cooperative extension service for recommendations.

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CROP	PEST	Pounds Gowan Azinphos-M 35 W	REMARKS
FRUIT (cont'd) Plums Prunes (Eastern U.S.)	Aphids* Codling moth Eyespotted bug moth Forbes scale Fruit tree leaf roller Lesser peach tree borer Orange tortrix	Peach tree borer Peach twig borer Plum curculio Redbanded leaf roller San Jose scale* Stink bug Tarnished plant bug* Tussock moth	Apply specified dosage per acre as a full coverage spray. A total of 9½ pounds per acre per crop season may be applied to plums and prunes. Allow at least 10 days between applications. Allow at least 15 days between last application and harvest. For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight.
	American plum borer	4¼	For control of scale, apply when crawlers are present. Gowan Azinphos-M 35 W is compatible with dormant and summer oils which may be added to prune sprays in accordance with local recommendations.
Plums Prunes (West of the Rocky Mountains)	Codling moth Eye-spotted bug moth Fruit tree leaf roller Lesser peach tree borer Orange tortrix Peach tree borer	Peach twig borer Plum curculio Redbanded leaf roller Stink bug Tarnished plant bug* Tussock moth	Apply specified dosage per acre. A total of 9½ pounds per acre per crop season may be applied to plums and prunes. Allow at least 10 days between applications. Allow at least 15 days between last application and harvest. For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight.
	American plum borer	4¼ to 5¼	
Blackberries Boysenberries Loganberries Raspberries	Leafhoppers Leaf rollers	¾	Apply specified dosage per acre to foliage using approximately 200 gallons of water for good coverage. Do not apply more than twice per season nor within 14 days of harvest.
	Leaf miners	¾	
	Aphids	¾ to 1¼	
	Obscure root weevil	1¼	
Blueberries (Eastern and North Central States only)	Blueberry maggot Fruitworms Lecanium scale Plum curculio	1¼ to 2¼	Apply specified dosage per acre with aerial or ground equipment using sufficient water for good coverage. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 10 days between applications and at least 7 days between last application and harvest.

*In some areas, these species may have developed resistance to organophosphate insecticides. Azinphos-M insecticide used alone may not provide satisfactory control in those areas. Consult your local agricultural advisor or cooperative extension service for recommendations.

CROP	PEST	35 W	REMARKS
FRUIT (cont'd) Cranberries	Cranberry fruitworm <i>Sparganothis sulfureana</i> Tipworm	1 1/4 to 2 1/4	Apply specified dosage per acre by air using sufficient water for good coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 14 days between applications and at least 21 days between last application and harvest.
	Fireworms	2 1/4	
Citrus Fruits	Aphids* Black scale Brown soft scale Chaff scale Citricola scale Citrus mealybug Citrus thrips Cottony-cushion scale European brown snail Florida red scale Fruit tree leaf roller Fuller rose beetle Glover scale Orange tortrix Purple scale Snow scale Western tussock moth Whiteflies	5 1/4 to 8 1/2	Apply specified dosage per acre as a full coverage spray. A single application per year may be applied up to within 7 days of harvest. Where 2 applications are required, allow at least 28 days between the second application and harvest. A total of 2 applications may be applied per fruit year regardless of rate or formulation used. Do not pick fruit or do other work involving contact with the tree (such as pruning) within 7 days after treatment.
	California red scale Yellow scale	8 1/2	
Grapes	Grape berry moth Grape cane girdlers Grape mealybug Leafhoppers* Redbanded leaf roller Thrips Grape leaf skeletonizer	2 1/2 to 2 3/4	Apply specified dosage per acre as a full coverage spray. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 14 days between applications. Minimum dosage specified may be applied up to harvest. With higher rates allow at least 10 days between last application and harvest.
Strawberries	Aphids* Meadow spittlebug Oblique-banded leaf roller Obscure root weevil Omnivorous leaf tier Pea leaf weevil Small black (grass) weevil Strawberry leaf roller Whitefly	1 1/4	Apply specified dosage per acre as a full coverage spray using sufficient water for good coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 4 applications may be made per crop season regardless of rate or formulation used. Allow at least 5 days between applications and at least 5 days between last application and harvest.
NUTS Almonds	Peach twig borer Navel orangeworm	4 1/4 to 5 1/4	Apply specified dosage per acre. A total of 2 applications may be made per crop season regardless of rate or formulation used. Allow at least 30 days between applications and at least 60 days between last application and harvest. Do not apply after husks split. CALIFORNIA ONLY: Apply specified dosage per acre by concentrate sprayer as a full coverage spray using not more than 100 gallons of finished spray per acre. If conditions dictate an aerial spray, apply specified dosage by aircraft in not less than 20 gallons of water per acre. Application is limited to one dormant spray and/or two post-bloom sprays per season. Last application may be made up to 28 days before harvest. Allow at least 120 days between the dormant and the first post-bloom spray and at least 28 days between the post-bloom sprays. Do not graze livestock in treated groves for 21 days after treatment.

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*In some areas, these species may have developed resistance to organophosphate insecticides. An insecticide used alone may not provide satisfactory control in those areas. Consult your local agricultural advisor or cooperative extension service for recommendations.

CROP	PEST	Pounds per Acre 35 W	REMARKS
NUTS (cont'd) Filberts (Pacific Northwest only)	Apple mealybug Filbertworm Filbert aphid Filbert leaf roller	4 1/4 to 5 1/4	Apply specified dosage per acre as a full coverage spray. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 14 days between applications and at least 30 days between last application and harvest. Do not graze livestock in treated groves for 21 days after treatment.
Pecans	Aphids* Fall webworm Hickory shuckworm Leafminers May beetles Pecan casebearer Southern green stink bug Spittlebugs Twig girdlers Walnut caterpillars	4 1/4 to 5 1/4	Apply specified dosage per acre as a full coverage spray. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 7 days between applications. Do not apply after shuck split. Livestock may be grazed in treated groves after a 21-day post-treatment interval.
Pistachios	 Naval Orangeworm Stink Bug 	7 1/8	 Make one application from bud break to 10% hull split. Do not apply within 21 days of harvest. Do not graze livestock in treated groves for 21 days after treatment.
Walnuts	Codling moth Filbertworm Navel orangeworm Walnut husk fly Red-humped caterpillar	4 1/4 to 5 1/4	Apply specified dosage per acre as a full coverage spray. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 14 days between applications. Do not apply after husks split. Do not graze livestock in treated groves for 21 days after treatment.
VEGETABLES Artichokes	Plume moth	4 1/4	Apply specified dosage per acre in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 14 days between applications and at least 30 days between last application and harvest. Do not feed or ensile treated forage.
Beans (Dry and Snap)	Leaf rollers Aphids Bean leaf beetle Green cloverworm Mexican bean beetle Spotted cucumber beetle Striped cucumber beetle Mites Leafhoppers Leaf miners Stink bugs Velvet bean caterpillar Tarnished plant bug Western-striped cucumber beetle	1/2 to 1 1/2 1 to 1 1/2 1 1/2	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply to snap beans within 7 days of harvest nor to dry beans within 30 days of harvest. Do not exceed 4 applications. Do not feed or ensile treated forage.

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CROP	PEST	Pounds Gowan Azinphos-M 35% W	REMARKS
VEGETABLES (cont'd) Broccoli Brussels Sprouts Cabbage (Includes tight heading varieties of Chinese cabbage) Cauliflower	Aphids Cabbage looper Diamondback moth Imported cabbageworm	1 1/4 to 2 1/4	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply within 7 days of harvest for Brussels sprouts, 15 days of harvest for broccoli and cauliflower, nor within 21 days of harvest for cabbage. Do not exceed more than 3 applications per season.
	Cabbage maggot	1/2 to 1	Mix specified dosage in 50 gallons of water. Apply 4 to 6 ounces of this emulsion per plant at or immediately after transplanting.
	Cabbage maggot (Direct seeded fields in California only)	2 1/4	Apply specified dosage per acre in sufficient water for uniform distribution. Mix in upper 2 inches of soil prior to seeding or spray in the seed row at planting time. Usually 2 additional sprays are necessary during the growing season, depending on time of year and maggot population. Do not apply within 21 days of harvest. Do not exceed more than 3 applications per season.
	Cabbage maggot (Transplant fields in California only)	2 1/4	Apply specified dosage in 300 to 400 gallons of water per acre as a soil drench in rows when damage first appears. Additional applications may be necessary. Do not apply within 21 days of harvest. Do not exceed more than 3 applications per season.
Blackeyed peas (Southern peas, Crowder peas)	Corn earworm Cowpea curculio	2 1/4 to 2 1/2	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply more than 4 times per season nor within 7 days of harvest. Do not use vines for feed or forage nor pasture treated areas.
	Leaf miners Stink bugs	1 to 1 1/4	
Celery	Aphids Leaf miners Leafhoppers Spittlebug Tarnished plant bug	1 1/4	Apply specified dosage in 100 gallons of water as a full coverage spray** using not more than 200 gallons of finished spray per acre. Do not apply within 14 days of harvest. Do not exceed more than 3 applications per season.
Cucumbers	Spotted cucumber beetle Striped cucumber beetle Western-striped cucumber beetle	1 1/4	Apply specified dosage per acre in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications and at least 1 day between last application and harvest.
Eggplant	Leaf miners	1 1/4 to 1 1/2	Apply specified dosage per acre in sufficient water to give complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications, and allow at least 2 days between last application and harvest.
	European corn borer Flea beetles	1 1/4	

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**This concentration is calculated for conventional hydraulic-type sprayers. When lower volumes of spray are applied per acre with concentrate sprayers, the concentration of Gowan Azinphos-M 35 W in the spray mixture must be increased in order to apply the amount of Gowan Azinphos-M 35 W per acre equivalent to a full coverage spray.

CROP	PEST	Pounds Gowan Aziphos-M 35 W ₂	REMARKS	
VEGETABLES (cont'd)				
Onions (Green and Dry)	Thrips	1 1/4 to 2 1/4	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications for dry bulb onions. Allow at least 10 days between applications for green onions. For dry onions, allow at least 28 days between last application and harvest. For green onions, allow at least 7 days between last application and harvest.	
Peppers	Leaf miners	1 1/4 to 1 1/2	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications and 7 days between last application and harvest.	
	European corn borer Flea beetles	1 1/4		
Potatoes	Colorado potato beetle	1 1/4	Apply specified dosage per acre in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications and 7 days between last application and harvest. NOTE: Resistance of Colorado potato beetle has occurred in some areas. Consult your local Extension Service or GOWAN sales representative for details.	
	Banded cucumber beetle Leaf miners	1 1/4 to 1 1/2		
	European corn borer Flea beetle	Leafhoppers Spittlebugs Tarnished plant bug		1 1/4 to 2 1/4
	Tuberworm	1 1/4 to 2 1/4		
Spinach	Aphids Leaf miners Mites	1 to 1 1/4	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply within 14 days of harvest. Do not exceed more than 3 applications per season.	
Tomatoes	Colorado potato beetle	1 1/4	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 4 applications may be made per crop season regardless of rate, formulation or method of application used. The high rates should be used where heavy infestations of late instar lepidopterous larvae (large worms) and pinworms are present. Allow at least 7 days between applications. Rates of 2 1/2 pounds per acre or less may be applied up to day of harvest. Rates above 2 1/2 pounds require an interval of 14 days between last application and harvest. NOTE: Resistance of Colorado potato beetle has occurred in some areas. Consult your local Extension Service or GOWAN sales representative for details.	
	Banded cucumber beetle <i>Drosophila</i>	Green stink bug Leaf miners Whitely		1 1/4 to 1 1/2
	Aphids* European corn borer Flea beetles Grasshoppers Leafhoppers Thrips			1 1/4 to 2 1/4
	Tuberworm			1 1/4 to 2 1/4
	Fruitworm Hornworm	Pinworm Yellow-striped armyworm		2 1/2 to 4 1/4

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CROP	PEST	Pounds <i>Lower Azinphos-M</i> 35 W	REMARKS
MELONS Honeydew melons Muskmelon (cantaloupe) Watermelons Other melons	Leathoppers Leaf miners	1 1/2 to 1 1/4	Apply specified dosage per acre in sufficient water to give complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of the label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 5 days between applications and at least 7 days between last application and harvest.
	Rindworms Spotted cucumber beetle	1 1/4	

ORNAMENTALS Southern Pine Seed Orchards	Coneworm Sawworm	See Remarks	Use 3.25 pounds per 100 gallons of water (0.2% dilution) as a full coverage spray. Use 1.6 pounds per 10 gallons of water (1% dilution) for low volume sprayers. Apply first application within 30 days following conelet closure followed by 3 to 5 applications (at least 30 days apart). Apply approximately 5 to 10 gallons of the 0.2% dilution with high volume sprayers or approximately 1 to 2 gallons of the 1% dilution with low volume sprayers per tree. Thorough coverage of cones is necessary for maximum control. Apply no more than 6 applications per season.
Ornamentals Nursery Plants	Aphids Cerococcus scale Euonymus scale Juniper scale Lace bugs Leafhoppers	Mites Olive scale Oystershell scale Pulvinaria scale Thrips	1 to 1 1/4
	Brown soft scale Putnam scale		2%
	European elm scale Black pine leaf scale		2 1/4 to 2 1/2

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not provide satisfactory control in those areas. Consult your local agricultural advisor or cooperative extension service for recommendations.

** This concentration is calculated for conventional, hydraulic-type sprayers. When lower volumes of spray are applied per acre with concentrate sprayers, increase the concentration of GUTHION 35% Wettable Powder in the spray mixture in order to apply amount of

GUTHION 35% Wettable Powder per acre equivalent to a full coverage spray. In Southern Pine Seed Orchards where conditions dictate an air application, apply dosage per acre equivalent to a full coverage ground spray in not less than one gallon of water per acre.

CROP	PEST	Pounds <i>Lower Azinphos-M</i> GUTHION 35% WP	REMARKS
Ornamentals (cont'd) Ornamentals Nursery Plants	Cone ridge Cone moth	5 1/2 to 11	Apply specified dosage per 100 gallons of water. Time applications to coincide with moth flight when cones are open for pollination. Thorough coverage of cones is necessary for maximum control. Repeat as necessary.
	European pine shoot moth Nantucket pine tip moth	1 to 2 1/4	Apply specified dosage per acre in sufficient water for good coverage. Time applications to coincide with moth flights.
Injury to hawthorn or American linden may occur under some conditions. Do not allow children or pets on treated area until material has been washed into soil and treated area is dry.			
Christmas Trees	Scale spp. Sawfly spp. European pine shoot moth Eastern pine shoot borer Nantucket pine tip moth	1 to 2 1/4	Apply specified dosage per acre by air or ground equipment in sufficient water to give complete coverage but not less than 1 gallon per acre. Time applications to coincide with susceptible pest development.

Do not allow children or pets in treated area until material is dry

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