UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

10H US

FEB 7 1995

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

Dear Ms. Hulcy:

Subject: Revised Labeling - Drip Irrigation Systems

Gowan Trifluralin 5

EPA Registration No. 10163-99

Your Submission Dated September 26, 1994

The Agency has reviewed the data submitted in response to our letter dated May 24, 1994 regarding the Agency's position on drip irrigation systems with trifluralin products. Based on that information, it has been determined that the Agency's concerns have been adequately addressed. The labeling submitted in connection with that information is acceptable, with the following provisions:

- 1) We have noted that chemigation instructions have been added to the main labeling. Therefore, unless the supplemental labeling for chemigation instructions have alternate or additional chemigation methods, the Chemigation Statement on page 2 of the labeling, which refers users to supplemental labeling for general chemigation use instructions, should be deleted.
- 2) Within the directions for the recommended tank mix of Gowan Trifluralin with Caparol or Gowan Prometyrne on cotton, delete celery from the list of acceptable crops that may be planted after the tank mix application.
- 3) Within the individual chemigation referral statements for products with tank mixes, change the statement "Do not use tank mixes for chemigation when not permitted on both labels" to read "...when not permitted on either label". Please note that this change applies to the referral statements for cotton, soybeans, dry beans, corn/grain sorghum, dry and English peas, peanuts, potatoes, sunflowers, and wheat.
- 4) In order to refer the user to the correct footnote, add a third asterisk to the recommended application rate for Lexone (dry flowable) and Sencor (dry flowable) for medium soils within the rate chart for the tank mix of Gowan Trifluralin with Amiben and Sencor or Lexone on soybeans.

DK:	305-754	6 FHB	PM23	CONCURRENC	ES	 	
SYMBOL	7505C						
SURNAME	D. KENNY						
DATE	2/6/95						

EPA Form 1320-1A (1/90)

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2,020.25) 5) Unless the rate chart for carrots, castor beans, celery, cole crops, okra, and southern peas actually appears on the following page in the final printed labeling, the heading "For the following crop grouping, use the rate table on the following page" should be revised to read "...use the rate table below". Delete the use directions for direct-seeded peppers. Please note that the review of this use is still pending with the Agency's Health Effects Division. You will be notified upon the completion of the review and advised as to the status of its acceptability. In the meantime, you may reinstate the directions for use on transplant peppers as it appears in the previously approved labeling dated September 2, 1992. Within the directions for use of the tank mix of Gowan Trifluralin with Far-Go on spring wheat, durum, and barley, reinstate the precaution reading "Overapplication may result in crop injury. Read the Far-Go label carefully before using." 8) Add a note to the Liquid Fertilizer Mixing Instructions to state that the compatibility agents Compat, T-Multz 734-2, and Amoco Spray Mate are not for use in California. A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the referenced label, incorporating the above changes, before releasing the product for shipment. Sincerely yours, Joanne I. Miller Product Manager (23) Fungicide-Herbicide Branch Registration Division (7505C) Enclosure

ACCEPTED
with COMMENTS
in EPA Letter Daied

FEB 7 1995

GOWAN

Under the Federal Intection of Eundleide, and Rodenticide Act TRIFLURALIN 5 as amended, for the pesticide TRIFLURALIN 5 registered under EPA Reg. 3b.

HERBICIDE

Contains 5 pounds of Triffuratin per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (Il you do not understand the label, find someone to explain il to you in detall.)

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, or, if available, by administering syrup of lpecac. Do not induce vomiting or 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. Get medical attention.

IF ON SKIN, wash with soop and water.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMA'.S WARNING

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful II swallowed, absorbed through skin, or inhaled. Avoid breathing spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant are fisted below. If you want more options, follow the instructions for category H on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- . Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier Laminate or Viton ≥14mils
- Shoes plus socks
- · Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

NET CONTENTS _____ GALLONS

Gowan Company

PO Box 5569 Yuma AZ 85366

EPA Reg. No. 10163-99 EPA Est. No. 67545-AZ-1

USER SAFETY RECOMMENDATIONS

Users should:

- . Wash hands before eating, drinking, chewing gum, using tobacco or using the tollet.
- Remove clothing immediately # pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Direct contamination of any body of water with this product may kill fish and other aquatic organisms. Do not contaminate any body of water by direct application, cleaning of equipment or disposal of wastes.

· 705

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 apply this product in a way that will contact workers or other persons, either directly or through drift.

Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for peeticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural posticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exception pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. Exception: If the product is soll-injected or soll-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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:

- Coveralis
- Chemical-resistant gloves, such as Barrier Laminate or Viton ≥14mile.
- Shoes plus socks
- Protective eyewear

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess peaticide, apray mixture or rinsale 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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landilli, or by other procedures approved by State and local authorities.

CHEMICATION STATEMENT

Refer to supplemental labeling entitled GENERALC/IEMIGATION USE INSTRUCTIONS for use directions on chamigation. Do not apply this product through any type of impation system unless the supplemental labeling on chamigation is followed.

DIRECTIONS FOR USE

Gowan Trifluratin is a preemergence herbicide which is incorporated into the soil to provide long-tasting control of many annual grasses and broadleaf weeds. Gowan Trifluratin controls weeds as they germinate. Gowan Trifluratin will not control established weeds.

WEEDS AND GRASSES CONTROLLED BY GOWAN TRIFLURALIN

GRASSES Annual bluegrass (Pos annus) Валпуаноргаза (Echinochioa so.) (Watergrass) Brachisrus (Brachiana sp.) (Signalgrass) Bromegrass (Bromus tectorum) (Cheetgrass) (Downy brome) Charl (Bromus secalinus) (Chess) Crabgrass (Digitana spp.) (Large crabgrass) (Smooth crabgrass) Footal (Setama spp.) (Bottlegrass) (Bristlegrass) (Grant foxtail) (Green foxtail) ** (Footal milet) (Pigeongrass) ** (Robust foxtain (Yellow loxtal) Goosegrass (Eleusine indica) (Silver crabgrass) (Silvergrass)

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(Wregrass)
   (Yardgrass)
                                                        (Sorghum halepense)
  Johnsongrass (from seed)
  (Rhizome—see COTTON and SOYBEAN sections for special instructions)
                                                       (Echinochios colonum)
  Junglerice
  Panicum
  Fell penicum
                                                   (Panicum dichotomillorum)
    (Spreading paricgrass—see COTTON and SOYBEAN sections for special
                                                         (Panicum maximum)
  Guineagrass
   (See SUGARCANE section for special instructions)
  Texas penicum
                                                          (Panicum texanum)
   (Buffalograss)
   (Coloradograss)
                                                         (Rottboellia exaltata)
  Hchorage
    (Requiprass)
    (See SUGARCANE section for special instructions)
  Red rice
                                                               (Oryza sativa)
   (See SOYBEAN section for suppression or partial control directions)
                                                          (Cenchrus incertus)
   (Burgrass)
  Sprangletop
                                                         (Leptochioa filiformis)
                                                       (Eragrostis citanensis)
  Stinkorass
   (Lovegrass)
                                                            (Sorohum bicolor)
  Wild cane
   (Shaftercare)
   (See SOYBEAN section for special instructions)
  Wild oat
                                                                (Avera fatua)
   (Preplant only, Not for fall applications for spring seeded cereals.)
                                                            (Eriochioa villosa)
  Woolly cupgrass
  BROADLEAF WEEDS
  Carpetweed
                                                          (Mollugo verticillata)
                                                             (Stellana media)
  Chickwood
  Field bindweed
                                                       (Convolvulus arvensis)
(See FRUIT AND NUT CROPS AND VINEYARDS section for special instructions)
  Florida pusley
                                                            (Richardia scabra)
    (Florida pursiane)
    (Mexican clover)
    (Pusley)
   Goosefool
                                                      (Chenopodium hybridum)
  Henbit (fall application only)
                                                       (Lamium amplexicaule)
                                                        (Polygonum aviculare)
  Knotweed
                                                             (Kochia scoperia)
  Kochia
    (Firewood)
     (Mexican (reweed)
   Lambsquarters
                                                         (Chenopodium album)
   Pigweed
                                                            (Amaranthus spp.)
     (Carelessweed)
     (Prostrate pigweed)
     (Redroot)
     (Rough pigweed)
     (Spiny pigweed)
   Puncturevine (Western U.S. only)
                                                            (Tribulus terrestris)
     (Caltrop)
     (Goalhead)
   Purstane
                                                           (Portulaca oleracea)
                                                                 (Salsola kali)
   Russian thistie
     (Tumbieweed)
                                                                 (Urtica dioca)
   Stiriging nettle
    (Nottle)
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** Resistance: In North Dakota, South Dakota, and Minnesota resistance to Triffuralin has been noted in pigeon grass and green loxtail. If you suspect resistance, do not use Triffuralin for control of these weeds in these states, Contact your Gowan Company representative or local sufficient; for information regarding pest resistance.

SOIL PREPARATION

Crop Residues or Existing Weeds: Ground cover, such as crop residues or existing weeds, can interfere with the incorporation of Gowan Triffuralin into the soil. A manageable level of such ground cover will allow the Gowan Triffuralin to be unformly incorporated into the top 2 to 3 inches of soil. If the level of the ground cover is such that this cannot be done, you must till the soil prior to application of this product.

Roughnese: The soil surface should be smooth enough so that you can operate a sprayer and incorporation equipment efficiently and at speeds which ensure uniform application and incorporation.

General Solf Conditions: To assure uniform incorporation, soil moisture conditions should be such that large clods can be broken up during the incorporation process.

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SOIL TEXTURE GUIDE

The amount of Gowan Trifluralin you apply will vary with the soil texture and organic matter. A fine textured soil will require more per acre than a coarse soil, Choose the proper rate for each application based on the following soil texture group and specific crop recommendations. Do not exceed recommended rates.

Soll Texture

Soil Classification

Coarse Sofs (Light)

Sand, loamy sand, sandy loam

Medium Sols

Loam, sity clay loam", sit loam, sit,

sandy clay loam'

Fine Soils

Clay, clay loam, sity clay loam*, sity clay,

sandy clay, sandy clay loam*

"Sitty clay loam and sandy clay loam soils are transitional soils and may be classified as either medium or fine textured soils. If sitty clay loam or sandy clay loam soils are predominately sand or sitt, they are usually classified as medium textured soils. If they are predominately clay, they are usually classified as fine textured soils

MIXING AND APPLICATION DIRECTIONS

Gowan Tritiuralin Alone in Water:

Start with a clean spray tank. Fill sprayer 1/3 to 1/2 full with clean water. Start agitation. Add correct quantity of Gowan Trifluralin, Continue agitation and limits filling tank.

Gowan Trifluratin Tank Mix in Water:

Vigorous, continuous agitation is required for all tank mixes. (Sparger pipe agitators generally provide the best agitation in spray tanks.) Avoid stirring or splashing air into the mixture during filling to prevent feaming. To do this, place the end of the fill pipe below the surface of the water in the spray tank. Do not allow the mixture to siphon back into the water source.

Mixing Order:

Fill the tank 1/4 to 1/3 full with clean water. Start the agitation. Add dry flowables, wettable powders (WP), aqueous suspensions (AS), flowables (F), and liquids (L) to the water and agitate until the product(s) are completely dispersed in the water. Allow additional mixing and dispersion time when using dry flowable products. Continue agitation and fill tank to 3/4 full, add the Gowan Trifluralin, mix thoroughly. Then add any solution (S) formulations, agitate and finish filling. Maintain agitation during filling and through application. If spraying and agitation must be stopped before the tank is empty, the materials may settle to the bottom. In this case, it is important to resuspend all of the material in the bottom of the tank before continuing the spray application. A sparger agitator is particularly useful for this purpose. Sometimes it is more difficult to resuspend settled material than it is to suspend it originally.

Read and carefully follow all label instructions or each material added to the tank. Premoting dry and flowable formulations with water (sturrying) and pouring the sturry through a 20 or 35 mesh wetting screen in the top of the tank will help assure good initial dispersion in the tank water. Line screens in the tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

If you see a buildup of material on the walts of the spray tank, wash the tank with soapy water between fillings. Rinse and continue the spraying operation. Clean the tank, lines, and screens thoroughly after use.

As the spray volume decreases, the importance of accurate calibration and uniform application increases. Check the sprayer daily to ensure proper calibration and uniform application. Do not apply Gowan Trifluralin when the wind can cause drifting of spray particles which can result in non-uniform application. Gowan Trifluralin should not be applied to soils which are wet or are subject to prolonged periods of flooding as poor weed control may result.

Ground Application:

Apply Gowan Trifluration in 5 to 40 gallions of water or liquid fertilizer per acre (broadcast basis), using any properly calibrated, low pressure herbicide sprayer that will apply the spray uniformly.

Aerial Application

Apply Gowan Trifluralin in 5 to 10 gallons of water or liquid fertilizer per acre. Adjust pump pressure, nozzle arrangements, speed and height to provide a uniform application to the soil surface. Use swallh markers or flagmen to assure proper application spray widths.

INCORPORATION DIRECTIONS

incorporation Equipment—General Directions:

Use incorporation equipment that mores Gowan Triffuralin into the top 2 to 3 inches of the final seedbed, or erratic weed control and/or grop injury may result. Incorporation equipment such as a disc will mox approximately half as deep as the equipment is set to operate. For example, a disc set to cut 4 inches deep will incorporate most of the Gowan Triffuralin within the top 2 inches of soil.

Incorporation Before Planting:

Gowan Trifluralin must be incorporated one time within 24 hours after application. Then any time prior to planting, a second incorporation is necessary, this time running the equipment in a different direction from the first. You should incorporate the Gowan Trifluralin uniformly into the top 2 to 3 inches of the final seedbed.

Incorporation After Planting:

Check specific crop for incorporation directions after planting.

Incorporation in Bedded Culture:

For effective weed control, Gowan Triffurain needs to be incorporated into the top 2 to 3 inches of the final seedbed

Application prior to bedding: Apply Gowan Triflurain and incorporate if one time with recommended equipment. The bedding operation serves as the second incorporation, Do not expose untreated soil during post-bedding operations.*

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Application after bedding: Knock off beds to planting height before applying Gowan Trifluralin. Apply and incorporate it with recommended equipment that will conform to the bed shape. Do not leave treated soil exposed." "Avoid removel of untreated soil from the seed bed before or during the planting operation. This would expose untreated soil, allowing weeds to germinate in the drill row.

Recommended Equipment:

Any recommended incorporation tool may be used alone or in combination with any other recommended tool

Two incorporation passes are required unless specifically stated. The second incorporation should not be deeper than the first,

Diec: Set to cut 4 to 6 inches deep and operate at 4 to 6 mph.

Field Cultivator: Set to cut 3 to 4 inches deep and operate at 5 mph or more. A field cultivator is defined as an implement with 3 to 4 rows of sweeps, specied at intervals of 7 inches or less and staggered so that no soil is left unturned. Chisel points should not be used.

Combination Seedbed Conditioners: Set to cut 3 to 4 inches deep and operate at a speed of at least 5 mph. These implements are defined as three or more tillage devices combined and used as a single tool. For example, 2 to 3 rows of field cultivator C- or S- shaped shanks with an effective sweep specing of 6 to 9 inches (staggered so that no soil is left unturned), followed by a spitu-tooth or flextine harrow, followed by a ground-driven real or basket. Govern Trifluratin care be incorporated with one pass when using combination seedbed conditioners when soil conditions allow for optimum mixing of soil. Soil conditions such as excessive trash, roughness, cloddiness, moisture extremes, or high clay content which prevent optimum soil mixing action will require two incorporations. Rolling Cultivator: Set to cut 2 to 4 inches deep and operate at 6 to 8 mph. Rolling cultivators are adequate for use on coarse and medium textured soils only, except when used in sugarcane where the rolling cultivator may be used on fine textured soils.

Bed Conditioner (Do-Ail): Set to cut 2 to 4 inches deep and operate at 4 to 6 mph. The do-all is adequate for use or coarse and medium featured soils only. When using the do-all in bedded culture, only one incorporation pass is required However, two passes with a do-all are required in flat planted culture.

Mulch Treader (other elmilar disc-type implements): Set to cut 3 to 4 inches deep and operate at 5 to 8 mph. P.T.O. Driven Equipment (tillers, cultivators, hose): adjust to incorporate into the top 2 to 3 inches of the seedbed with rotors spaced to provide a clean sweep of the soil. Only one incorporation is necessary, P.T.O. driven equipment should not be operated at a speed greater than 4 mph, Other equipment, including the flexible tine-tooth harrow (Flextine, Melroe), is also recommended but only for the special programs for which it is specified in this label.

CULTIVATION AFTER PLANTING

Soil treated with Gowan Triffuration may be shallow cultivated without reducing the product's weed control activity. Do not cultivate deeper than the treated soil since this may bring untreated soil to the surface, and poor weed control may result.

FALL APPLICATION

General: (Areas receiving more than 20" average annual rainfail)

See specific crop for recommendations. For all crops for which there are no specific fall application instructions and for which Gowan Trifluralin is recommended as a preemergence application, use the rates listed for spring application Do not apply Gowan Trifluralin in the fall for sugarbeets, potatoes, and direct-seeded formations.

In most states apply and incorporate Gowan Triffuralin any time between October 15 and December 31. In Minnesota, Montana, North and South Dakota, and California, apply and incorporate anytime between September 1 and December 31. Ground may be left flat or bedded-up over winter. On bedded ground, knock beds down to desired height before planting moving some treated soil from beds into turrows. Where soil is left over winter, be careful not to turn up untreated soil during spring bedding operations. Destroy established weeds during seedbed preparation. If weeds become established in furrows due to uncovering of untreated soil during bedding, destroy these weeds before planting. Do not apply in the fall to soils which are wet, are subject to prolonged periods of flooding or where rice was grown the previous year.

CROP RECOMMENDATIONS

These recommendations are given as the broadcast rates of Gowan Triffuratin per acre. For band applications, decrease the amount in proportion to the amount of surface treated per acre. Apply any time after January 1 when the soil can be worked and is suitable for good incorporation. Gowan Triffuratin can be applied in the fall—see above paragraph and specific crops for recommendations. Where a rate range is shown, use the lower rate for coarser soils or soils with lower organic matter. Gowan Triffuratin should not be used on soils containing more than 10% organic matter.

COTTON-GOWAN TRIFLURALIN ALONE

Gowan Trifluratin can be applied and incorporated before or at planting, immediately after planting, and from four true leaf stage to layby.

COTTON—Preemergence: Broadcast Rates per Acre:

Soll Texture	Areas receiving less than 20° average annual rainfall*	Areas receiving more than 20" average annual rainfall*
Coarse	Q 8 Pirit	0 B Pint
Medium	1.0-1.2 Pints	1.2 Pints
Fine	1.2 Pints	1.6 Pents

*Use 1.2 pints per acre on coarse and medium soils and 1.6 pints on fine soils with 2-5% organic matter; Use 1 to 2 pints on all soils with 5-10% organic matter.

Incorporation with Bedding implements: Bedding implements (listers and hippers) may be used to it corporate Gowan Trifluration into the soil for weed control in cotton. Since bedding equipment does not provide thorough incorporation under all conditions it is important to closely folicit to directions below to optimize weed control performance. Weed control resulting from single pass incorporation with bedding implements with be reduced compared to conventional double pass incorporation, Apply the amount of Gowan Trifluration recommended in the tabel.

Soil Preparation: See general soil preparation.

Bedder Use Directions: Either a lister or disk bedder may be used. Operate the bedder in the manner recommended by the aquipment manufacturer in order to bed to the desired height. A ripper shank, sweep or chisel shank should be mounted on the bedder behind the ig ay nozzles and ahead of the bedder tool to help distribute Gowan Triffurakin in the center of the bed. The use of bed tillage equipment such as rolling cultivators, P.T.O. driven rod weeders or bed conditioners after the bedding operation will provide additional mixing of the soil.

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Weather conditions, cultural practices, bed tillage and planting procedures will determine location of the Gowan Trifluralin in the soil. Weed control obtained will be dependent upon location of the Gowan Trifluralin at the time of planting.

If Gowan Trifluralin is moved during bed tiltage or planting, a band application of Gowan Trifluralin at planting or a postemergence application of Gowan Trifluralin may be required to ensure good weed control.

Precautions: Do not incorporate with the bedder if the soil is not well for good mixing.

COTTON-Postplant: When incorporating Gowan Trifluralin after planting (postplant), be careful not to disturb the seed.

COTTON Postemergence:

Directions for Use: Gowen Trifluralin can be used as a post emergence soil incorporated application in cotton. Gowen Trifluralin may be applied after final bed preparation any time from the four true leaf stage up to leyby, but not less then 90 days before hervest.

Application Directions: Gowen Trifluralin may be applied to cotton from the four true leaf stage as either a broadcast application or as a post directed spray. Drop nozzles should be used if cotton foliage prevents uniform coverage of the soil surface. Refer to the Gowen Trifluralin label for ground and serial application directions.

Application Rates: Apply Gowan Trifluralin to cotton at the following broadcast rates per acre:

Soil Texture	Gowan Triffuralin S
Coarse	0.6-0.8 Pint
Medium	0.8-1.2 Pints
Fine	1.2-1.6 Pints

Incorporation Directions: Final beds should be established before the Gowan Triffuralin application is made. The soil surface should be free of existing weeds and excessive trash or clode, Gowan Triffuralin should be incorporated within 24 hours following application and may be accomplished in one pass with a sweep type or a rolling cultivator, The sweep ,ype cultivator should have 3 to 5 sweeps per row middle and be operated at 6 to 8 mph. Set sweeps to provide maximum soil moture and to ensure movement of treated soil into the crop row. One pass with the sweep cultivator properly set will provide adequate soil incorporation. The rolling cultivator should be set to provide maximum soil moting and to ensure movement of treated soil into the crop row. The rolling cultivator should be operated at 6 to 8 mph. Care should be taken to ensure middle sweeps do not expose untreated soil. One pass with the rolling cultivator properly set will provide adequate incorporation.

Rotational Crops: Wheat or barley can be planted in the fall following this application at recommended rates.

Special Precautions: Do not apply to cotton before the four true leaf stage or crop injury may result.

Soil treated with Gowan Trifluralin may be shallow cultivated, rotary hoed, or hand hoed without reducing the weed control activity of the product. Do not cultivate deeper than the treated layer of soil (1-2 inches) since this may bring untreated soil to the surface and poor weed control may result.

COTTON—Fall Application:

Apply and incorporate Gowan Trifluralin any time between October 15 and December 31. The ground may be left flat or bedded-up over winter. On bedded ground, knock beds down to desired height before planting, moving some treated soil from beds into furrows. Where soil is left flat over winter, be careful not to turn up untreated soil during seedbed preparation. If weeds become established in furrows due to uncovering of untreated soil during bedding, destroy these weeds before planting. In the fall, do not apply Gowan Trifluralin to soils which are well or subject to prolonged periods of flooding.

Broadcast Rates Per Acre—Fall Application Only: In Alabama, Arkansas, Northern Florida, Georgia, Louisiana, Mississippi, Southeastern Missouri bootheel, North Carolina, New Mexico, Oklahoma, South Carolina, Tennessee and Texas, apply and incorporate at a broadcast rate of 1.5 pirits per acre on coarse and medium and 2 pirits on fine soils.

In Arizona, California, and Nevada, apply and incorporate Gowan Triffuralin at a broadcast rate of 1.2 pints per acre on coarse soils; 1.6 pints on medium soils; and 2 pints on fine soils.

For cotton grown in other states apply and incorporate at a broadcast rate of 0.8 pint per acre on coarse soils; 1.2 pints on medium soils, 1.6 pints on hine soils, 1.2 pints on coarse soils with 2-5% organic matter, and 1.6 to 2 pints on soils with 5-10% organic matter.

COTTON—SPECIAL USE DIRECTIONS

COTTON-Fall panicum:

Apply and incorporate Gowan Trifluralin at the broadcast rate of 1.6 pints per acre on both coarse and medium soils,

COTTON—Rhizome Johnson vasa

In all cotton producing states except Anzona and California you can obtain commercially acceptable control of rhizome johnsongrass with a double rate program which you apply for 2 consecutive years in accordance with the following directions:

Soil Preparation: Proper preparation of the soil before application is very important for satisfactory results. Use a chisel plow or similar implement to bring rhizomes to the top of the soil. Then follow with a disc two times before application to cut the rhizomes into small (2 to 3 inch) pieces. This should also destroy any emerged johnsongrass.

Application: Choose the one application program that best lits your cultural practices:

Spring Application—Apply Gowan Trifluralin any time before planting in the spring for 2 years in a row. Use a broadcast rate of 1.6 pints per acre on coarse soils; 2.4 pints on medium soils; and 3.2 pints on fine soils.

Fall Application---Apply Gowan Triflurain between October 15 and December 31 for 2 years in a row at the same rates as a spring application for the control of rhizome johnsongrass,

Incorporation: Deep incorporation is essential for good rhizome johnsongrass control, incorporate Gowan Triffuralin thoroughly with a disc set to cut 4 to 6 inches deep and operate at 4 to 6 mph. Two passes are necessary with the second pass in a different direction from the first.

Cultivation: Some johnsongrass plants will escape. Timely cultivations during the crop season to remove escaped plants are necessary to obtain commercially acceptable control. You cannot obtain commercially acceptable control with only 1 year of double rate use.

Crop Rotation: In the Season following a double rate treatment plant only nce and those crops for which Gowan Triffurain can be applied as a preplant treatment or injury may result.

COTTON—Pigweed and seedling johnsongrass control:

In Alabam, Arkansas, Florida, Georgia, Louisiana, Mississippi, Southeastern Missouri, North Carolina, South Carolina, Tennessee and Southern Virginia Gowan Triffurahn may be applied preplant at a broadcast rate of 0.8 to 1.2 pints per acre on coarse soils; 1.2 to 1.6 pints on medium/ soils, and 1.6 pints on fine soils. Exception: In the state of Louisiana 2.4 pints per acre are recommended on fine soils.

COTTON-Additional weed and grass control (Texas Gulf Coast):

In the Texas Gulf Coast counties of Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Walter and Wharton, Gowan Trifluralin may be applied up to 2 weeks before planting at a broadcast rate of 1.2 pints per acre on coarse soils; 1.6 pints on medium soils; and 2.4 pints on fine soils.

COTTON Precautions:

Cotton should be planted after early season adverse weather conditions have passed especially when using higher rate programs. Cool wet weather early in the growth cycle causes additional stress to the cotton plant. This may result in reduced stands delayed maturity and reduced yields.

COTTON—TANK MIXES AND OVERLAYS

Follow recommended soil preparation and incorporation procedures for Gowen Triffuralin.

COTTON-Gowan TriffuralityCaparol or Gowan Prometryne 4L Tank Mix:

(for cutton grown in California, Arizona, New Mexico and West 1 axes)

The Gowan Trifluralin/Caparol combination will control certain grasses and broadleaf weeds listed for Gowan Trifluralin alone plus the following

Smartweed Wild Oak

Groundcherry (annual)

Make Regweed

Prickly side (teaweed)

Annual morningglory

The tank mor also controls shallow germinating seedlings of cocklebur and coffeeweed.

Broadcast Rates Per Acre:

Soll Texture	Gowan Triffuratin 5	Gowan Prometryne 4L	or Caperol 80W	
Coarse	O.B Pint	2.4-3.2 pints	2 pounds	
Medium	1.0-1.2 Pints	4 pints	2 1/2 Pounds	
Fine	1.6 Pints	4 pints	2 1/2 Pounds	

^{*}On not use on sands and loamy sands. For band applications use proportionately less.

Mixing Directions: Carefully follow the procedures on the Caparol 80W label for making a sturry and adding it to a partially filled tank of water. After the Caparol is thoroughly moved with the partially filled tank of water, add the Cowan Trifluralin and continue filling, Agitate continuously during the filling and spraying operation.

Avoid leaving the spray moture in the tank without constant agriculture. If bypass agriculture is used, the bypass line should stop at the bottom of the tank to minimize feaming.

Note; Under conditions of very soft water, conduct a compatability test with Prometryne and Triffuralin before mixing in the spray tank,

Additional Precautions: The combination of Gowan Trifluratin/Caparol or Prometryneshould not be used in the cut areas of newly leveled fields, in areas of excess salt, or where flooding over the bade is likely to happen. Do not plant cotton in tractor wheel depressions. These conditions may cause crop injury. On mulch-planted cotton, water back only after cotton seedlings are well established.

Crop Rotations: Cabbage, essent, okra, onions and peas may be planted in the fall after a spring application of Gowan Tritturalin plus Canarol or Prometryne. Winter barley, winter rye and winter wheat can be planted in the fall also, if they are plowed down and not used for food or feed. Refer to the Caparol or Prometryne label for directions, cautions and precautions.

COTTON-Gowan Triffuralin/Cotoran Tank Mix:

(except in Arizona and California)

Follow recommended soil preparation and incorporation procedures for Gowan Trifluralin.

The Gowan Triffuralin/Cotoran tank mot effectively controls all the annual grasses and broadleaf weeds listed for Gowan Triffuralin alone plus these additional weeds:

Improved Sesbania

Ryegrass

Buttonweed Morningglory Sicklepod

Cocklebur Prickly sida (leaweed) Smartweed

Groundcherry (Wright)

Ragwood Tumbleweed

Broadcast Rates Per Acre:

Soil Texture	Gowan Tritturalin 5	Cotoran 90W
Coarse	0.8 Pint	1 1/4 Pounds
Medium	1.2 Pints	2 Pounds
Fine	1.6 Pints	2 1/2 Pounds

Mixing Directions: Carefully follow the procedures on the Cotoran label for making a Cotoran sturry and adding it to a partially filled tank of water, After the Cotoran is thoroughly moved with the partially filled tank of water, add the Gowan Trifluralin and continue filling. Agitate continuously throughout the filling and application operations. Do not leave spray mixture in tank without constant agitation, if bypass agitation is used, the byrass line should stop at the bottom of the tank to minimize fearing. Apply in 15-40 galliuns of water per acre.

Additional Precautions: Do not plant crops other than cotton on the treated land within 6 months after the application of Gowan Trificials plus Cotoran, or crop injury many result. Do not feed foliage from treated cotton plants or gin trash to Investock, Do not mix Gowan Triffuratio pure Cotoran. with liquid fertilizer.

West Texas Only: Do not use the tank mix of Gowan Trifluralin plus Cotoran on sandy, loamy sand or fine sandy loam soils. Do not use on cotton planted in furrows.

Arkeness, Louisians, and Mesissippi Only: Use one pound Cotoran 80W in tank mix with Gowan Trifluralin on sandy loam soils low in organic matter.

New Mexico: Do not plant treated land with crops other than cotton until one year after the last application. Do not use on sandy or coarse Exclured soils of less than 1% organic matter.

COTTON—Gowan Triffluralin preplant followed by Karmex Overlay:

For cotton grown east of the Mississippi River plus Arkansas, Southeastern Missouri, Louisiana and Eastern Texas, incorporate belova planting. Then follow with a preemergence application of Karmex. This will effectively control all the weeds controlled by Gowan Trifluralin alone plus these additional weeds:

Ragwood

Annual groundcherry

Coglennel

Pennycress

Volvetgrass Wild lettuce Wild mustard Annual morningglory Shepherdsburse Broadcast Rate Per Acre: Soil Texture Gowan Tritturalin 5 Karmax 80W Совтье 0 & Pint 1/3 Pound Medium 1.2 Pints 2/3 Pound

1.6 Pints

Additional Precautions: Do not use Karmex on soils with less then 1% organic matter as crop injury may result. Do not allow livestock to graze on cotton treated with Karmetr, Consult the Karmetr label for additional instructions , cautions and precautions, COTTON-CHEMIGATION:

1 Pound

For application by irrigation system, apply specified dosage of Gowen Trifluratin 5 per acre as described in previous sections for use on COTTON. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label. For tank mixes containing Trifluratin 5 follow label directions, restrictions and precautions for both products concerning CHEMIGATION. Do not use tank mixes for chemigation when not permitted on both labels.

SOYBEAN-GOWAN TRIFLURALIN ALONE

SOYBEAN-Presmergence:

Fine

Follow recommended soil preparation, application, and incorporation procedures for Gowan Trifluratin.

Broadcast Rates Per Acre:

Soll Texture Gowan Triffuratin 5 Coarse 0.8 Pint Medium 1.2 Pints 1.6 Pires

*Use 1.2 pints per acre on coerse and medium textured soils and 1.6 pints on fine soils with 2-5% organic matter; use 1,6-2 pints on all soils with 5-10% organic malter.

SOYBEAN-Fall Application:

Apply and incorporate anytime between October 15 and December 31. Ground may be left flat or bedded-up over winter, On bedded ground, knock beds down to desired height before planting, moving some treated soil from tops into furrows. Where soil is left flat over winter, take care during spring bedding operations to prevent turning up untreated soil. Destroy established weeds during seedbed preparation, it weeds become established in furrows due to uncovering of untreated soil during listing, destroy these weeds before planting. Do not tall apply to soils which are wet, are subject to prolonged periods of flooding, or where rice was grown the previous year.

For soybeans grown in Alabama, Arkansas, Northern Florida, Georgia, Louisiana, Mississippi, Southeastern Missouri bootheel, North Carolina, Oklahoma, South Carolina, Tennessee and Texas, apply and incorporate at a broadcast rate of 1,6 pints per acre on coarse and medium soils and 2 pints on line soils

For soybeans grown in states other than those listed above, apply and incorporate at a broadcast rate of 0.8 pint per acre on coarse soils; 1.2 pints on medium soils; 1.6 pints on fine soils; 1.2 pints on coarse soils with 2-5% organic matter; and 1.6 to 2 pints on soils with 5-10% organic matter.

SOYBEAN-SPECIAL USE DIRECTIONS

SOYBEAN-Fell penicum:

Apply Gowan Trifluralin at the broadcast rate of 1.6 pints per acre on both coarse and medium soils.

SOYBEAN-Pigweed and seedling Johnsongrass:

In Alabama, Arkansas, Florida, Georgia, Kansas, Lousiana, Mississippi, Southeastern Missouri, North Carolina, Oklahoma, South Carolina, Tennessee and Southern Virginia, Gowan Triffuralin may be applied at a broadcast rate of 0.8 to 1.2 pints per acre on coarse soils; 1.2 to 1.6 pints on medium soils; and 1.6 pints on fine soils. Exception: in the state of Louisiana, 2.4 pints per acre are recommended on fine soils.

SOYBEAN-Additional weed and grass control (Texas Guif Coast):

In the Texas Gulf Coest countries of Brazona, Calhoun, Chambers, Fort Bend, Galveston, Harns, Jackson, Jetterson, Liberty, Malagorda, Orange, Victoria, Waller and Wharton, Gowan Triffuralin may be applied up to 2 weeks before planting at a broadcast rate of 1.2 pints per acre on coarse soils; 1.6 pints on medium soils; and 2.4 pints on fine soils.

SOYBEAN-Charcosi soils in Arkansas, Louisians and Mississippi:

Newly cleared land often contains high organic matter (5-10%) and charcoal from burning debria. This charcoal and/or organic matter tends to bind Gowan Triffuration and reduce its weed control activity. Under these conditions higher rates of Gowan Triffuration are necessary for weed control. Increased rates, however, can cause crop injury if charcoal or organic matter is not present to bind some of the Gowan Triffuralin. In the burn row a high level of charcoal is present; consequently, poor weed control may result even with an increased rate of Gowan Trifluralin. Αμμή, ut the broadcast rate of 1.6 to 2 pints per acre on coarse soils; 2 pints on medium soils; and 2.4 pints on fine textured soils. Follow recommended soil preparation, application and incorporation procedures for Gowan Triflutalin.

SOYBEAH—Red rice in Arkaneae, Louisiana, Mississippi and Texas only:

You can obtain suppression or partial control of red rice when you apply Gowan Trifluratin at the following recommended rates. Follow recommended soil preparation and incorporation procedures for Gowan Triffuratio. Apply and incorporate in the spring before planting. **Broadcast Rates Per Acre:**

Soll	Application	Application
Texture	Year One	Year Two
Coarse	1.6 Pints	0.8 Pint
Medium	2 4 Pints	1 2 Pints
Fine	3 2 Pints	1.6 Pints
Coarse soils with 2-5%		
organic matter	2.4 Pirits	1 2 Pints
Soils with 5-10%		
organic matter	3.2 Pirris	1 6-2 Pints

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If a combination of high organic matter (5-10%) and charcoal are present in the soil, apply Gowan Trifluralin the second year at the following rates for charcoal soils in Arkansas, Louisiana and Mississippi;

Soli Texture	Gowan Triffuralin 5
Coarse	1.2 to 2 Pints
Medium	2 Pints
Fine	2.4 Pints

For more information on charcoal soils see above.

Crop Rotation: The program for red rice control in soybeans is a 2-year program. Use the rates listed for first year application and plant soybeans. The second year use the normal rates fieled for your soil type and charcoal level and plant only those crops for which Gowen Trifluralin has been registered as preplant treatment, or crop injury may result. Do not plant rice the second year. Rice may be planted the third year.

SOYBEAN-Rhizome Johnsongrase (Eastern U.S. and Texas):

You can obtain commercially acceptable control of mizome johnsongrass with a double rate program applied for 2 consecutive years in accordance with the following directions.

Soit Preparation: Proper preparation of the soil before application is very important for satisfactory results. Use a chisel plow or similar implement to bring thizomes to the lop of the soil. Then follow with a disc two times before application to cut the rhizomes into small (2 to 3 inch) pieces and to destroy any emerged johnsongrass.

Application—Choose the one application program that best fits your cultural practices:

Spring Application: Apply Gowan Trifluralin anytime in the spring before planting for 2 years in a row. Use a broadcast rate of 1.6 pints per acre on coarse soils; 2.4 pints on medium soils; 3.2 pints on fine soils; 2.4 pints on coarse soils with 2-5%; organic matter; and 3.2 pints on soils with 5-10% organic matter.

Fall Application: Apply Gowan Triffuratin between October 15 and December 31 for 2 years in a row at the same rates as a spring application for the control of rhizome johnsongrass,

Split Application: Apply Gowen Trifluralin at the same rate in both the spring and fall for 2 years in a row using the rates in the following table.

Broadcast Rates Per Acre:

Soli	Gowan Trifluralin 5	
Texture	Spring and Falt	
Coarse	0.8 Pint	
Medium	1 2 Pints	
Fine	1 6 Pints	
Coarse soils with		
2-5% organic matter	1.2 Pints	
Soils with 5-10%		
organic matter	1.6 Pints	

Incorporation: Deep incorporation is essential for good rhizome johnsongrass control, incorporate Gowan Triffurakin thoroughly with a disc set to cut 4 to 6 inches deep and operate at 4 to 6 mph. Two passes are necessary with the second pass in a different direction from the first.

Cultivation; Some johnsongrass plants will escape. Timely cultivations during the crop season to remove escaped plants are necessary to obtain commercially acceptable control.

Crop Rotation: In the season following a double rate treatment plant only rice and those crops for which Gowen Trifluratin can be applied as a preplant treatment or injury may result.

SOYBEAN—Rhizome johnsongrass—Gowan Triffuralin/Sencor or Gowan Triffuralin/Lexons tank mix:

Gowan Trifluralin may be used with Sencor or Lexone for rhizome johnsongrass control and for the control of those weeds listed for Gowan Trifluralin alone. For the additional weeds controlled by Sencor or Lexone in tank mor, (see below). Follow procedures for soil preparation incorporation and cultivation recommended in the Soybean-Rhizome johnsongrass section.

Apply Gowan Triffurality/Sencor or Lexone up to two weeks before planting for two consecutive years,

Broadcast Rates Per Acre:

		Lexone 50WP/4L	Lexone (dry flowable)	
Soll	Gowan	or	or	
Texture	Trifluratin 5	Sencor 50WP/4	Sencor (dry flowable)	
Coarse*	1.6 Pints	1/2 Pound/Pint	1/3 Pound	
Medium	2.4 Pints	3/4 Pound/Pint	1/2 Pound	
Fine	3.2 Pints	1 Pound/Pint	2/3 Pound	

[&]quot;Do not use on coarse soils with less than 1% organic matter.

Read and follow all additional precautions listed for the Gowan Trifluratin/Sencor or Eaxone tank mix, (see next page) SOYBEAN-Wild cane (shaftercane):

Follow recommended soil preparation and application procedures for Gowan Trifluralin.

Wild cane (shaftercane) can germinate throughout the growing season and from greater soil depth than most other weed seeds. Commercially, acceptable control of wild came can be obtained with the following increased rates of Gowan Trifluralin, Apply at the broadcast rate of 0.8 pints per acre on a coarse soil; 1.6 pints on a medium soil; and 2 pints on a fine textured soil,

Incorporation: Deep incorporation is essential for good wild cane control. Incorporate Gowan Trifluralin thoroughly with a disc set to cut 4 to 6 inches deep and operate at 4 to 6 mph. Two passes are necessary, with the second pass in a different direction from the first. Cultivation; Cultivations during the crop season will also contribute to control.

SOYBEAN PRECAUTIONS: Soybeans should be planted after early season adverse weather conditions have passed, especially when using nigher rate programs. Cool, well weather early in the growth cycle causes additional stress to the soybean plant. This may result in reduced stands, it 'cy' d maturity and reduced yields.

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SOYBEAN-TANK MIXES AND OVERLAYS

SOYBEAN-Gowan Triffuralin/Sencor or Gowan Triffuralin/Lexone Tent Mix:

The Gowan Trifluralin/Sencor or Gowan Trifluralin/Lexone tank mot effectively controls the annual grasses and broadleaf weeds controlled by Gowan

Triffuratio plus these additional weeds:

Jimsonweed Mustard, wild Mallow, Venice (Flower-of-en-hour)
Prickly side

Smartweed, Pennsylvania Regweed, common Velvation! Sestionia, hemo

Control of coctdebur, morningglory and giant ragiveed (horseweed) may be erratic. Control may be improved with timely cultivation. Where cocklebur is a serious problem, an overlay of Sencor or Lexone may be preferred to the Gowen Trifluralin/Sencor or Lexone tank mix. Follow recommended procedures for soil preparation, incorporation, and cultivation of Gowen Trifluralin, Mix according to instructions under general mixing and application directions. The tank mix can be applied from 2 weeks before planting up to planting.

Broadcast Raiss Per Acre:

		Leasone SOWP/4L	Lexone (dry floweble)
Soli	Gowan	er	of .
Texture	Triffuration 5	Senior SOWP/4	Sencor (dry flowable)
Course*	0.6 Pints	1/2 Pound/Pint	1/3 Pound
Medium	1.2 Pints	3/4 Pound/Pint	1/2 Pound
Fine	1.6 Parts	1 Pound/Pint	2/3 Pound

^{*}Do not use Sencor/Lexone on coarse soils with less than 1% organic matter.

Additional Precautions: Do not plant any crop other than soybeans within 4 months after treatment. Overapplication, uneven application, or improper soil incorporation may result in crop injury, herbicide residue, or erratic weed control. Additional stress factors are seeding disease, cold weather, deep planting, excessive moisture, soil pH over 7.5, high salt concentration, or drought. Any of these may weeken crop seedlings and increase possibility of damage from the tank mix. These additional factors may also delay crop development or reduce yields when Sencor or Lexone is applied. Observe all cautions and limitations on the Sencor and Lexone labels. Do not use the foliage from soybeans treated with the tank mix for feed or forage.

SOYBEAN-Gowan Triffuratin preplant followed by Sencor or Lexone as an overlay:

Apply Gowan Trifluration as a preplant incorporated herbicide. As a separate operation, make a single application of Sencor or Lexone as either a band or broadcast spray during planting or as a separate operation after planting, but before the soybeans emerge, Do not spray Sencor or Lexone over the top of emerged soybeans, or crop injury may result.

Use Directions: Follow directions on the Sencor or Lexone labels for specific instructions regarding each herbicide.

Broadcast Rates Per Acre:

Post Plant/P: **mergence

		Lexone 50WP/4L*	Lexons (dry flowable)
Soll	Gowan	of	or
Texture	Trifluratin 5	Sencor 50WP/4	Sencor (dry flowable)
Comse**	0.8 pint	3/4 or 3/4-1 Pounds/Pint	1/2 or 1/2-1/3 Pound
Medium	1.2 pints	3/4-1 or 3/4-1 1/2 Pounds/Pints	1/2-2/3 or 1/2-1 Pound
Fine	1.6 pints	1 or 1-1 3/4 Pounds/Pints	2/3 or 2/3-1 1/6 Pound

^{*}Lexone rates are given first, followed by Sencer rates.

Additional Sencor and Lexone precautions; Do not use Lexone or Sencor on Tracy, Semmes, Atona, Vansoy or Coker 102 soybeans. These varieties are sensitive to Lexone or Sencor, and crop injury may result. Seed must be planted at least 1-1/2 inches but not more than 2 inches below the soil surface before a Sencor or Lexone application. Do not apply Sencor or Lexone at these rates more than once per season. Do not replant areas treated with Sencor or Lexone with any crop other than soybeans within 4 months after treatment. Injury to soybeans may occur if you use Lexone or Sencor on soils having a calcarous surface or pH of 7.5 or higher, or if you use them in conjunction with soil-applied organic phosphate pesticides. Do not use the foliage from treated soybeans for feed or forage.

SOYBEAN-Govern Tritluralin/Amilian Tank Mix or Overlay:

Tank Mix: Amiben may be applied several days prior to planting as a broadcast tank mot with Gowan Triflurain. Weeds controlled by this tank mot, in addition to those controlled by Gowan Triflurain alone, are smartweed, velveties and ragiveed. The tank moture should be used as a spring preplant incorporated treatment.

Overlay: Amben may be applied broadcast or in a band over the soybean row at planting time in fields where Gowan Triffuralin has been preplant incorporated. Weeds controlled by Amben when surface applied, in addition to those controlled by Gowan Triffuralin alone, are:

Coffeeweed (Sesbana) Mustard, wild Nightshade, black Prickly sida (Teaweed) Ragweed, common Spurge, annual Smartweed, Pennsylvana Stinkgrass Velvetleaf

Apply Gowan Trifluratin as a tank mix with Amiben, or apply and incorporate Gowan Trifluratin alone followed by an overlay application of Amiben at these rates:

Broadcast Rates Per Acre:

Solt Texture	Gowan Trifluralin S	Amiben 25
Coarse	0.8 Pint	4-6 Quarts*
Medium	1 2 Pints	4-6 Quarts
Fine	1 6 Pints	4-6 Quarts

^{*}Use the higher rate where you expect heavy populations of smartweed, velvetiest, ragweed, wild mustard or black nightshade. Do not use on raulch or charcoal soils. Read and observe all directions and cautions on the Amiben label.

SOYBEAN—Gowan Trifflurarin/Amiben/Sencor or Lexone Tank Mix:

The Gowan Triffuralin/Amiben/Sencor or Lexone tank mix effectively controls all weeds listed for Gowan Triffuralin/Amiben and 3 x to Triffuralin/Sencor or Lexone tank mixes. Follow recommunded soil preparation, application, and incorporation procedures for Gowan Triffuralin. The tank mix may be applied from several days prior to planting up to planting in 10 to 40 gallions of water per acre. Use screene no finer than 50 mesh.

[&]quot;*Do not apply Lexone to sand or sols with less than 1/2% organic matter, Do not apply Sencor to coarse soils (sandy loam and loamy sand) containing less than 2% organic matter.

Eggs

Apply the tank mix at the following broadcast rate per acre:

			Lexone 50WP/4L	Lexone (dry flowable)
Soll	Gowan	Amiben	of .	or
Texture	Triffwalln 5	2\$	Sensor SOWP/4	Sencor (dry flowable)
Coarse*	0.8 Pwis	3-4 Quarts**	1/2 Pound/Pint	1/3 Pound
Medium	1.2 Pints	3-4 Quarts**	1/2-3/4 Pound/Pint***	1/3-1/2 Pound**
Fine	1.6 Pints	4-5 Quarts	3/4 Pound/Pint***	1/2 Pound***

^{*} Do not use Sencor or Lexone on coarse soils with less than 1% organic matter.

Broadcast Rates Per Acre:

	Lexone SOWP/4L	Lexone (dry flowable)
Soli	at	or
Texture	Sencor 50WP/4	Sencor (dry flourable)
Medium	1/2 Pound/Pint	1/3 Pound
Fine	1/2-3/4 Pound/Pint****	1/3-1/2 Pound****

^{****}Use the higher rate only where soil pH is less than 7.5 and where weed pressure is heavy.

Additional precautions: The Gowan Trifluralin/Amben/Sencor or Lexone tank mix will not harm the treated crop when you apply it according to directions and under normal growing conditions. However overapplication, uneven application or improper soil incorporation of the tank mix can result in erratic weed control or crop injury. Additional stress factors are seedling disease, cold waether, deep planting excessive moisture, soil pH over 7.5, high sait concentration, or drought. These additional factors may weaken crop seedlings and increase the possibility of damage from the tank mix. These additional factors may also delay crop development or reduce yields. Observe all cautions and limitations of all products used in motures. Do not use the foliage from soybeans treated with the Gowan Trifluralin/Amben/Sencor or Lexone tank mix for feed or forage.

SOYBEAN-Gowan Tritturalin/Vernam Tank Mix:

The Gowan Triffuratin/Vernam tank mot effectively controls those weeds listed for Gowan Triffuratin alone plus these additional weeds:

Purple nutsedge (nutgrass)
Coffeewood

Yellow nutsedge (nutgrass)

Annual morningglory Velvetical

Follow recommended soil preparation procedures for Gowan Triffuralin. You may apply the tank mix up to 10 days prior to planting, Incorporate the tank mix immediately after application. Apply Gowan Triffuralin/Vernam at these rates:

Broadcast Rates Per Acre:

Soll Texture	Gowan Triffuralin 5	Vernam 7E
Coarse	0.8 Pints	1 3/4-2 1/3 Pints
Medium	1.2 Pints	2 1/3-3 Pints*
Fine	1 6 Pints	3-3 1/2 Pints

^{*}For nutsedge, wild cane and Velvetleaf control, use the higher rate of 3 pints per acre on medium textured soils.

SOYBEANS-CHEMICATION:

For application by irrigation system, apply specified dosage of Gowan Triflurain 5 per acre as described in previous sections for use on SOYBEANS. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label. For tank mores containing Triflurain 5 follow label directions, restrictions and precautions for both products concerning CHEMIGATION. Do not use tank mores for chemigation when not permitted on both labels.

ALFALFA-ESTABLISHED

In areas receiving less than 20° average annual rainfall per year, apply Gowan Trifluralin to established affaits stands at a broadcast rate of 1.2 pints per acre on coarse sole and 1.6 pints on medium and fine sole. Use incorporation equipment that will ensure thorough soil mixing with minimum damage to the established affaits. Irrigation may be used to incorporate instead of mechanical equipment, it sprinklers are used apply 1/2 -1 inch of water to incorposate. With furrow or flood irrigation be careful to wet the soil thoroughly between beds and furrows, incorporation by irrigation or rainfall should be complete within 48 hrs. of application or mechanical methods of incorporation must be used.

ALFALFA—ESTABLISHED—CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Trifluralin 5 per acre as described in section for use on ALFALFA-ESTABLISHED. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label.

ASPARAGUS-ESTABLISHED

Follow recommended soil preparation, application and incorporation procedures for Gowan Trifluratin. Gowan Trifluratin can be applied to established asparagus as a single or as a split application. In the water or early spring, apply to asparagus after ferns are removed but before spear emulgance. Or, apply after harvest in the late spring or early summer before ferning begins. Gowan Trifluratin will suppress volunteer seedling asparagus and field bindweed if you use the following recommended rates and application schedules.

Broadcast Rates per Acre:

GOWAN	TRIFL	URAI	IN 5

	SPLIT A	appli(CATION	SINGLE	APPLI	CATION
Sall	Before		After	Before		After
Texture	Harveet	•	Harvest	Harveet	Of	Harveet
Coarse	0 8 Pint	+	08 Peral	1.6 Pirits	OF	1.6 Pints
Medium	1.2 Pints	+	1.2 Pints	2 4 Pirks	Of	2.4 Pints
Fine	1 6 Pints		1.6 Pints	3.2 Pints	Of	3.2 Pints

[&]quot;*Use the higher rate of Amiben when velvetical or black nightshade is a problem.

^{***}On Clarion/Webster soils in Minnosota and lows or on similar alkaline (calcareous) soils with a pH of 7.5 or above, apply Sencor or Lexons at the rates listed below:

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*In any single calendar year, the maximum Gowan Triffuralin to apply is 1.6 pints per acre on coerse soils; 2.4 pints on medium soils; and 3.2 pints on tine soils.

ASPARAGUS-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Triffuralin 5 per acre as described in previous section for use on ASPARAGUS, Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label.

FOR THE FOLLOWING CROP GROUPING USE THE RATE TABLE ON THE FOLLOWING PAGE

CARROT

CASTOR BEAN

CELERY

Direct seeded and transplant in areas receiving less than 20" average annual rainfall,

COLE CROPS—TRANSPLANT

Apply and incorporate prior to transplanting only. (Broccoli, Brussel Sprout, Cabbage and Cauliflower) See next section for direct seeded.

OKRA

SOUTHERN PEA

Apply and incorporate before plenting, at instring, or immediately after planting, unless otherwise indicated. Broadcast Rates Per Acre:

GOWAN TRIFLURALIN 5

	Areas Receiving	Areae Receiving
Soil	Less Than 20" Average	More Than 20" Average
Texture	Annual Rainfall*	Annual Rainfail*
Coerse	0.8 Pint	0.8 Pint
Medium	1.0-1.2 Pints	1.2 Pints
Fine	1 2 Pints	1.6 Pints

^{*}Use 1.2 pints per acre on coarse and medium textured soils and 1.6 pints on fine soils with 2—5% organic matter; use 1.6 pints on all soils with 5-10% organic mailler.

CHEMIGATION: Carrot, Castor bean, Celery, Cole crope-Transplant, Okra, Southern pea;

For application by irrigation system, apply specified dosage of Gowan Trifluratin 5 per acre as described in previous sections for use on specified crop grouping. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label.

COLE CROPS-DIRECT SEEDED

(Broccoli, Brussel Sprout, Cabbage and Cautiflower) See above section for transplant.

For direct seeded cole crops, apply and incorporate Gowan Triffuratin before planting at a broadcast rate of 0.8 pint per acre on coarse and medium soils and 1.2 pints on fine soils and soils with 2-5% organic matter. Direct seeded cole crops have exhibited marginal tolerance to recommended rates of Gowan Triflurain, Stunting or reduced stands may occur.

COLE CROPS-Direct seeded-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Trifluralin 5 per acre as described in previous section for use on COLE CROPS-Direct seeded, Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label,

CUCURBITS—POSTPLANT EMERGED

(Cantaloupe, Cucumber, and Watermelon) Western United States including Texas:

Apply as a directed spray to the soil between the rows and beneath plants which are in the 3 to 4 true leaf stage.

Broadcast Rates Per Acre:

GOWAN TRIFLURALIN 5

More Than 20" Average
man a time ten visualla
Annual Rainfail*
0 8 Pint
1.2 Pints
1.6 Pints

^{*}Use 1.2 pints on coarse and medium textured soils and 3.6 pints on fine soils with 2-5% organic matter; use 1.6 pints on all soils with 5-10% organic

CUCURBITS, Postplant emerged-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Trifluralin 5 per acre as described in previous section for use on CUCURBITS. Posiplant emerged. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label.

DRY BEAN-GOWAN TRIFLURALIN ALONE

Set incorporation equipment to throw treated soil around the plants during incorporation.

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Apply and incorporate before planting using the following rates: Broadcast Rates per Acre:

GOWAN TRIFLURALIN 5

	Areas Receiving	Areas Receiving
Soil	Less Than 20" Average	More Than 26" Average
Texture	Annual Rainfall*	Annual Rainfall*
Coarte	0.8 Pms	0.8 Pint
Medium	1.0-1.2 Pints	1.2 Pints
Fine	1.≥ Pints	1.6 Pints

^{*}Lise 1.2 pints per acre on coarse and medium textured soite and 1.6 pints on fine soite with 2-5% organic matter; use 1.6 pints on all soits with 5-10% organic matter.

DRY BEAN—Gowan Triffuralin/Eptam Tank Mix

The Gowan Triflurality/Eptam tank mix effectively controls all the following weeds in addition to those weeds listed for Gowan Trifluralin:

Nutsedge

Henbit (Spring application) Mightshade, black Oat, wid

Nightshade, hairy

Regweed, common

Smartweed, Pennsylvania Velvetleaf (Butlonweed)

Follow recommended soil preparation and incorporation procedures for Gowan Trifluralin. The tank mix should be applied from 2 days before planting up to planting, incorporate immediately after application. Broadcast Rates Per Acre:

Soll Texture	Areas Hecotong Less Than 20" Average Annual Rainfall*	More Than 20" Average Annual Rainfall*	EPTAM 7E
Coarse	Q.8 pint	0.8 pint	2 1/2-3 1/2 Pints**
Medium	1.0-1.2 pints	1.2 pints	2 1/2-3 1/2 Pints
Fine	1 2 pints	1.6 pints	2 1/2-3 1/2 Pints

[&]quot;Use 1.2 pints per acre on coarse and medium textured soils and 1.6 pints on fine soils with 2-5% organic matter; use 1.6 pints on all soils with 5-10% organic matter.

Precautions: Read the Eptam label before using. Observe all cautions and limitations of all products used in mixtures. The combination of Gowan-Ynflurakin and Eptam should not be used on soybeans, black-eyed peas (beans), lima beans and other flatpodded beans, except Romano. Do not use the foliage from a crop treated with this tank mix for feed or for grazing.

DRY BEAN—Fall application for dry bean grown in Idaho, Oregon, and Washington

Apply and incorporate Gowan Triffuralin anytime between October 15 and December 31 at a broadcast rate of 0.8 pint per acre on coarse soils; 1.to 1.2 pints on medium soils; and 1.2 pints on line soils. Destroy established weeds during seedbed preparation. DRY BEANS-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Trifluralin 5 per acre as described in previous sections for use on DRY BEANS, Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label. For tank moves containing Trifluralin 5 follow label directions restrictions and precautions for both products concerning CHEMIGATION. Do not use tank mixes for chemigation when not permitted on both labels.

FOR THE FOLLOWING CROP GROUPING USE THE BROADCAST RATES LISTED BELOW

BEANS-(Guar and Mungbean)

GREENS—(Turnip greens grown for processing, Collard, Kals and Mustard greens)

MUSTARD—Grown for seed or processing for food in Minnesota, Montana and North Dakota

Apply and incorporate Gowan Triflurain before planting at 0.8 pint per acre on coarse soils and 1.2 pints on medium and fine soils

BEANS—(Lima Bean and Snap Bean)

Apply and Incorporate before planting at a broadcast rate of 0.8 pint per acre on coarse and medium soils and 1.2 pints on fine soils.

CORN (Fleid Corn) and GRAIN SORGHUM (Mile)

Apply Gowan Trifluratin to field corn or grain sorghum (6 inches or faller) as an over-the-top or directed spray to effectively control weeds issued for Gowan Trifluration.

Soll Preparation: Cultivate before a Gowan Triflurain application to ensure loose, frable soil, to remove established weeds, and to cover the base

Application Directions; Gowan Trifluralin should be applied and incorporated at the recommended rates for the soil texture when the cring in well established (8 inches or tallor). Gowan Trifluralin may be applied either as an over-the-top spray or as a directed spray. Drop nozzles should be used if tollage prevents uniform coverage of soil surface. Soil incorporation may be accomplished with only one pass of a sweep type cultivator or a properly adjusted rolling cultivator.

^{**}Use Eptam 7E at a rate of 2: 1/2 pints per acre to control annual grasses; 3: 1/2 pints to control nutsedge and additional broadleaf weeds

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The sweep type cultivator should have 3 to 5 sweeps per row middle and be operated at 6 to 8 mph. Set the middle sweeps so as to avoid exposing untreated soil. Adjust the incorporation tools to prevent crop injury.

Broadcast Rates per Acre:

Soil Texture	Gowan Triffuralin 5
Coerse	0.6-0.8 Pint*
Medium	0.6-1.2 Pints
Fine	1.2-1.6 Pints

Use the lower rates when you articipate light weed pressure and the higher rates when you anticipate heavy weed pressure.

*Com Only; Apply 0.8 to 1.2 pints per acre in Alabama, Florida, Georgia, North Carolina, South Carolina and Virginia to control Fall panicum and Texas panicum.

CHEMIGATION; Beens (guar and mung), Greens (Turnip greens grown for proceeding, Collard, Kale and Mustard), Mustard (Grown for seed or proceeding-MN, MT, and HD), Beans (lims and enap), Corn (Field corn), and Grain corghum (mile);

For application by Irrigation system, apply specified dosage of Gowan Trifluratin 5 per acre as described in previous sections for use on SPECIFIED CROP GROUPING, Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label.

CORNGRAIN SORGHUM

Gowan Triffuralin for shaitercane control and Gowan Triffuralin/Atrazine tank mix for additional weed control:

Gowen Trifluralin applied as an over-the-top spray or as a directed spray in field com/grain sorghum will control shattercane in addition to those other weeds listed on the label for Gowen Trifluralin. Use rates listed on previous page.

Gowan Triffuralin can be tank mixed with Atrazine for additional weed control in field corr/grain sorghum. Provident Rates Per Acre:

Soli Texture	Gowan Triffurailn 5	Atrazine 4L*
Coarse (Sandy Loam Only)	0.6-0.8 Pirt	2.4 Pirsts
Medium	0.8-1.2 Pints	4.75 Pints
Fine	1.2-1.6 Pints	6.0 Pints

*When using AAtrex 4L, use the rates listed above. For other Atrazine formulations, use equivalent rates. When using AAtrex Nine-0 1 pint of 4L = 0.55 pound of Nine-0. One pint of 4L equals 0.62 pounds of Atrazine 80W.

Apply and incorporate the Gowan Trifluralin/Atrazine tank mot as directed on the Gowan Trifluralin label for field corn and grain sorghum.

Check the Atrazine label for additional directions, cautions, and precautions prior to use.

Precaution: Do not apply Gowan Trifluralin to corn grown for seed. Do not apply to corn or sorghum as a preplant of preemergence treatment, or crop injury may occur.

CORN/GRAIN SORGHUM-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Enfluralin 5 per acre as described in previous sections for use on corrygrain sorghum. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label. For tank more containing Trifluralin 5 follow label directions restrictions and precautions for both products concerning CHEMIGATION. Do not use tank mores for chemigation when not permitted on both labels.

HOPS

Apply and incorporate Gowan Trifluratin while the crop is dormant. Use a broadcast rate of 0.8 pint per acre on coarse soils; 1 to 1.2 pints on medium soils; and 1.2 pints on fine soils and soils with 2-10% organic matter.

HOPS—CHEMICATION:

For application by irrigation system, apply specified dosage of Gowan Trifluralin 5 per acre as described in previous section for use on HOPS. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label.

MINT—(Established Peppermint and Spearmint)

Apply at a rate of 0.8 pint per acre on coarse soils; 1.0 pint on medium soils; and 1.2 pints on fine soils. Use incorporation equipment that will ensure thorough soil moving with minimum damage to the crop.

MINT-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Trifluralin 5 per acre as described in previous section for use on MINT. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label.

PEA—(Dry and English)—Gowan Trifluralin Alone

Apply and incorporate before planting at a rate of 0.8 pint per acre on coarse and medium soils and 1.2 pints on fine soils.

PEA—Gowan Triffuralin/Far-Go Tank Mix for pea in Idaho, Oregon, and Washington

The tank mot combination of Gowan Trifluralin plus Far-Go will provide control of wild out in addition to other annual grasses and broadlesf weeds controlled by Gowan Trifluralin.

Application Rates: Broadcast 0.6 pint of Gowan Triffuralin per acre on coarse and medium soils; 0.8 pint on fine soils, Use 1/4 quart of Far-Go per acre for all soil textures.

Incorporation Directions: Apply and incorporate up to 3 weeks before planting. Follow recommended incorporation procedures for Gowan Trifluratin.

Precaution: Do not apply to lentile. Leaf crinkling and delayed maturity of pees may occur, particularly on clay points in the northwest; but this is usually more than offset by a reduction of wild out. Do not use foliage from treated peas for feed or forage. Refer to the cautions, precautions, and directions on the Far-Go label.

PEA-Fall application to dry pea and English pea in Idaho, Oregon and Washington

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Apply and incorporate any time between October 15 and December 31 at a broadcast rate of 0.8 pint per acre on coarse sol; 1 to 1.2 pints on medium soils; and 1,2 pints on fine soils. Destroy established weeds during seedbed preparation. Do not apply in the fall to soils which are well or are subject to prolonged periods of flooding.

PEA, Dry and English-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Trifluralin 5 per acre as described in previous sections for use on PEA,Dry and English. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label, For tank mixes containing Triflutalin 5 follow label directions, restrictions and precautions for both products concerning CHEMIGATION. Do not use tank mixes for chemigation when not permitted on both labels.

PEANUT—(Spanish Peanut in Texas and Oklahoma)

Apply and incorporate Gowen Trifluralin before planting, at planting or immediately after planting at a broadcast rate of 0.8 pint per acre on coarse soils. When incorporating after planting, take care not to disturb the seed.

PEANUT-Gowan Triffuralin/Vernam Tank Mix (Spanish Peanut in Texas and Oklahoma)

Gowan Trifluralin/Vernam tank mix effectively controls those weeds listed for Gowan Trifluralin alone plus these additional weeds:

Velvetleet

Yellow nutsedge (nutgrass)

Annual morningglory

Purple nutsedge (nutgrass) Follow recommended soil preparation procedures for Gowan Trifluralin. You may apply the tank mot up to 10 days prior to planting. Incorporate the tank mix immediately after application.

Apply the tank mix at these rates:

Soll Texture

Gowan Triffuration 5

Vernam 7E

Coarsa

O R Pint

2 1/3 Pints

PEANUT (Spanish Peanut in Texas and Oldahoma)—CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Trifluralin 5 per acre as described in previous sections for use on PEANUT (Spanish Peanul in Toxas and Oklahoma. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label. For tank mixes containing Trifluralm 5 follow label directions restrictions and precautions for both products concerning CHEMIGATION. Do not use tank moves for chemigation when not permitted on both labels.

PEPPER

For direct-seeded papper, apply Gowan Triffuralin at blocking or thinning as a directed spray to the soil between rows and beneath the plants_and incorporate, Pos. transplant popper, apply and incorporate Gowan Trifluratin preplant, postplant or at layby. Precaution: Do not apply Gowan Traffuralin to foliage, howers or fruit.

Broadcast Rates Per Acre:

GOWAN TRIFLURALIN 5

Soil	Areas Receiving Less Than 20-Average	Areas Receiving More Then 20 Average
Texture	Annual Rainfall	Annual Rainfall'
Coarse	0.8 Pint	0.8 Pint
Medium	1 0-1.2 Pipis	1,2 Pints
Fine	Pints	1.6 Piks

^{*}Use 1.2 pints per acre on coarse and medium textured soils and 1.6 pints on fine soils with 2-5% organic matter; use 1.6 pints on all soils with 5-10% organic matter.

PEPPER-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Trifluratin 5 per acre as described in previous section for use on PEPPER. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label.

POTATO---(All states except Maine)

Apply and incorporate Gowan Trifluralin after planting, before emergence, or immediately following dragoff or after the potato plants have fully emerged.

Broadcast Rates Per Acre:

GOWAN TRIFLURALIN 5

	Areas Receiving	Areas Receiving
Soll	Less Than 20" Average	More Than 20" Average
Texture	Annual Rainfall*	Annual Rainfall*
Coarse	0 8 Pint	0.8 Pint
Medium	1.0-1.2 Pints	1.2 Pms
Fine	1.2 Pints	t.6 Pints

^{*}Use 1.2 pints per acre on coarse and medium soils with 2-5% organic matter; use 1.6 pints on all soils with 5-10% organic matter.

Set incorporation equipment so that the bed and furrow will be uniformly covered with a layer of treated soil. If the layer of treated soils is no: uniform and the herbicide is concentrated over the bed, potato emergence may be retarded, and stem brittleness can occur. When applying and incorporating Gowan Trifluralin after potato plants have fully emerged, do not completely cover the foliage with treated soil. Likewise, do not completely cover foliage at subsequent cultivations. Be careful that incorporation machinery does not damage potato seed pieces or elongating sprouts.

POTATO—Split application in Idaho, Oregon and Washington

On all soils, apply and incorporate 0.6 pint of Gowan Triffuralin per acre before planting and 0.6 pint after planting when potato plants have fully emerged, Do not apply to soils containing 2% or more organic matter. Follow incorporation directions listed above for application to potato after planting

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POTATO—Gowan Triffuralin/Eptam Tank Mix for potatoes grown in Kansas, Minnesota, Nebraska, North Dakota, Oklahoma, South Dakota and Texas

The Gowan Trifluralin/Eptam tank mix effectively controls the following weeds in addition to those weeds controlled by Gowan Trifluralin:

Henbit (Spring applications)
Nulsedos

Smartweed, Pennsylvania Cet, wild Regweed, common Nightshed

Nightshade, black Nightshade, hairy

Velvetical (Bullonwood)

Follow recommended soil preparation and application procedures for Gowen Trifluralin. The tank mix may be applied after planting, but prior to crop emergence. In areas where potatoes are normally dragged off, the tank mix should by applied and incorporated up to or immediately following dragoff.

Broadcast Rates per Acre:

GOWAN TRIFLURALIN 5

	Areas Receiving Less Than 28" Average	Areae Receiving More Then 29" Average	
Soll Texture	Annual Rainfail*	Annual Rainfail*	EPTAM 7E
Coarse	0.8 Pint	0.8 Pint	1 3/4-7 Pints**
Medium	0.8-1,2 Pints	0.8-1.2 Pints	1 3/4-7 Pints
Fine	0.8-1_2 Parts	0.8-1.6 Pints	1 3/4-7 Pints

^{*}Use 1.2 pints per acre on coarse and medium soils with 2.5% organic matter; use 1.0 pints on all soils with 5-10% organic matter.

Do not graze or feed forage to livestock from fields treated with Gowen Triffuralin/Eptam tank mix.

POTATO—Gowan Triflural'n/Eptam application before planting in Washington, Idaho and Oregon

Gowan Trifluralin/Eptam may be applied before planting at a broadcast rate of 0.6 pint of Gowan Trifluralin per acre and 3 1/2 pints of Eptam 7E per acre on all soil textures. Incorporate immediately.

Precaution: Do not use this tank mix both before and after planting in the same season. Read the Eptam label

before using. Observe all cautions and limitations on labeling of all products used in motures. Do not use foliage from treated crops for feed or forage.

POTATO-CHEMIGATION:

For application by impation system, apply specified dosage of Gowing Trifluration 5 per acre as described in previous sections for use on POTATO. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label. For tank mixes containing Trifluration 5 follow label directions, restrictions and precautions for both products concerning CHEMIGATION. Do not use tank mixes for chemigation when not permitted on both labels.

SAFFLOWER

Follow recommended soil preparation, application and incorporation procedures for Gowan Triffuralin. Apply and incorporate in the spring before planting or in the fall between October 15 and December 31.

Broadcast Rates Per Acre:

GOWAN TRIFLURALIN S

	Areas Receiving	Areas Receiving
Soli	Less Than 20" Average	More Than 20" Average
Texture	Annual Rainfall*	Annual Raisdall*
Coerse	0.8 Pmt	0 B Pint
Medium	1.0-1.2 Pints	1.0-1.2 Pwns
Fine	1.2 Pints	1 6 Pints

"Use 1.2 pints per acre on coarse and medium textured soils and 1.6 pints on fine soils with 2-5% organic matter; use 1.6 to 2 pints on all soils with 5-10% organic matter.

SAFFLOWER—Fall application in Arizona, California, Ideho, Montana, Nevada, Oregon, Utah, Washington and Wyoming:

Apply and incorporate Gowan Triffuralin anytime between October 15 and December 31. Ground may be left flat or bedded-up over winter. On bedded ground, knock beds down to desired height before planting, moving some freated soil from tops into furrows. Where soil is left flat overwinter, take care during spring bedding operations to prevent furning up untreated soil. Destroy established woods during seedbed preparation. If weeds become established in furrows due to uncovering of untreated soil during listing, destroy these weeds before planting. Apply and incorporate at a broadcast rate of 1.2 pints per acre on coarse soils; 1.6 pints on medium soils; and 2 pints on fine soils.

Do not apply Gowen Triffuralin in the fall to soils which are wet or are subject to periods of flooding.

SAFFLOWER-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Trifluralin 5 per acre as described in previous sections for use on SAFFLOWER. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label

SUGAR BEET

Apply Gowan Triffuralin as a broadcast, overtop spray when plants are between 2 and 6 inches tall at a rate of 0.8 pint per acre on coarse-soils and 1 to 1 2 pints on medium and fine soils. Use the higher rate for medium and fine soils in areas receiving more than 20 average annual rainfall. Set incorporation machinery to throw treated soil toward the plants in the row. Be careful that incorporation machinery does not damage the sugar uses taproot.

SUGAR BEET-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Triffuration 5 per acre as described in previous section for use on SUGAR BEET. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label.

^{**}Use the higher rate of Eplam 7E for nulsedge control.

Precaution: Read the Eptem label before using. Observe cautions and limitations of products used in mixtures.

Precaution: Exposed best roots should be covered with soil before an application to reduce the possibility of girding.

SUGAR BEET—incorporation with a tine-tooth harrow in California, Colorado, Idaho, Montana, Nebraska, Ovegon, Texas, Utah, Washington and Wyoming:

A properly operated time-tooth harrow (Flextime or Metroe) can incorporate Gowan Trifluralin for effective weed control in sugar best. Operate the time-tooth harrow 2 times over the field in opposing directions at a speed of 3 to 6 mph. Set the harrow to cut 1 or 2 inches deep, Be careful that the time-tooth harrow does not damage the sugar best teproot. Follow recommended application procedures and broadcast rates per acre for sugar best. (See preceding paragraph.)

SUGARCANE—(Plant Cane)

Apply and incorporate Gowan Trifluralin twice a year at a broadcast rate of 1.6 to 3.2 pints per acre for all soil textures. Make the first application in the fall on firmly packed bads immediately after the seed pieces are planted. Make the second application in the spring before or shortly after the cane emerges. Loosen rain-packed bads 2 to 3 inches deep before the spring application. Take care that incorporation machinery does not damage the seed pieces or emerging shoots.

SUGARCANE—Postplant in Humali for control of most annual grasses, including guineagrass:

Surface apply Gowen Trifluralin after planting (for plant cane) or after hervesting (for ratioon cane), before weeds and cane emerge. Use a broadcast rate of 4.8 to 6.4 pints per acre for all soil textures. In plant cane, the beds should be formed or rolled before application. In ratioon cane, the crop residue should be removed before application. If large amounts of crop residues are present, Guwen Trifluralin will not be effective. Apply just before an anticipated rainfalt or sprintde irrigate immediately after application.

SUGARCANE—Application up to layby for plant came or ration came grown in Louisiana or Texas:

Apply and incorporate Gowan Trifluralin at a broadcast rate of 1.6 to 3.2 pints per acre for all soil textures. Do this in the spring from before or shortly after the case emerges up to lavely. Apply the Gowan Trifluralin after the beds have been shaved or take shaved. Loosen rain-packed bede 2 to 3 inches deep before application. Be careful that incorporation machinery does not damage seed pieces or emerging shoots. You may use a rolling cultivator or bed chopper in incorporate layby applications in sugarcane on all soil textures. Follow normal incorporation directions for the rolling cultivator. Set bed chopper to cut 3 to 4 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary.

SUGARCANE--tichgrase (Regulgrase) control in Louisiana:

Apply and incorporate on either plant or ratioon cane at a broadcast rate of 3.2 pints per acre for all soil textures. Follow the directions above for sugarcane layby application in Louisiana and Texas.

SUGARCANE-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Trifluralin 5 per acre as described in previous sections for use on SUGARCANE. Followall directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label.

SUNFLOWER—GOWAN TRIFLURALIN ALONE

Apply and incorporate in the spring or in the fall between October 15 and December 31. Follow recommended soil preparation, application and incorporation procedures for Gowan Triffuration.

Broadcast Rates per Acre:

GOWAN TRIFLURALIN 5

	Areas Receiving	Areas Receiving		
Soil	Less Than 20" Average	More Than 20" Average		
exture	Annual Rainfail*	Annual Rainfall*		
Coarse	0 8 Pint	0.8 Pvnt		
Medium	1 0-1 2 Pints	1.2 Pints		
Fine	1 2 Pints	1.6 Pints		

^{*}Use 1.2 to 1.6 pints per acre on coarse and medium soils with 2-5% organic matter, and 1.6 pints on all soils with 5-10% organic matter.

SUNFLOWER-Gowan Triffuralin/Amiben tank mix or overlay

Follow recommended soil preparation, application and incorporation procedures for Gowan Triflurain.

Amben may be applied in a bank or broadcast over sunflowers at planting in fields where Gowan Triffuralin has been incorporated prior to planting. Or, the tank mot may be incorporated prior to planting. The tank mot improves mustard, smartweed, velvetleat, and ragweed control in addition to those weeds controlled by Gowan Triffuralin alone.

Apply Gowan Trifluration/Amiben or Gowan Trifluration with an Amiben overlay at the following broadcast rates per acre:

Soil Texture	Gowan Triffuralin 5	Amiben 2S
Coarse	O B Pint	4 Quarts
Medium	1.2 Pints	4-6 Quarts*
Fine	1.6 Pints	4-6 Quarts*

^{*}For best control of mustard, common ragweed or black nightshade, use the 6 quart rate

In coarse textured soils, heavy rains on the incorporated Amiben may move it below the weed seed germination zone, and erratic weed control may result. If sufficient rain does not fall within 7 days after a preemergence application of Amiben, but there is enough soil moisture to germinate weeds and grasses, a light cultivation with a rotary hoe or similar fool will uproof these small broadleaf weed and grasses. The shallow moting of Amiben in the surface soil will not interfere with the action of Amiben when rains come.

SUNFLOWER-CHEMICATION:

For application by irrigation system, apply specified dosage of Gowan Triffuratin 5 per acre as described in previous sections for usaken SUNFLOWER. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS sertion of this tabel. For tank mixes torthamping Triffuratin 5 follow label directions restrictions and precautions for both products concerning CHE*** GATION. Do not use tank mixes for chamigation when not permitted on both labels.

TOMATO

For direct-seeded tomato, apply Gowen Trifluralin at blocking or thinning as a directed spray to the soil between rows and beneath the plants, and incorporate. For transplant tomato apply and incorporate Gowen Trifluralin preplant, postplant or at layby.

Broadcast Rates Per Acre:

GOWAN TRIFLURALIN 5

	Areas Receiving	Areas Receiving
Soil	Lees Than 20" Average	More Then 20" Average
Texture	Annual Rainfail*	Annual Rainfail*
Coerse	0.8 Pint	0.8 Pint
Medium	1.0-1.2 Pints	1.2 Pints
Fine	1.2 Pints	1.6 Pints

^{*}Use 1.2 pints per acre on coarse and medium textured soils and 1.6 pints on fine soils with 2-5% organic matter; use 1.6 pints on all soils with 5-10% organic matter.

TOMATO-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Trifluralin 5 per acre as described in previous section for use on TOMATO. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this tabel.

FRUIT AND NUT CROPS AND VINEYARDS

For areas receiving more than 20 average annual rainfall;

For new planting of vineyards, citrus and pecan trees, apply and incorporate Gowan Trifluralin before planting at a broadcast rate of 0.8 pints per acre on coarse soils; 1.2 pints on medium soils; 1.6 pints on fine soils; 1.2 pints on soils with 2-5% organic matter, and 1.6 pints on soils with 5-10% organic matter. For non-bearing, established plantings of citrus and pecan trees and bearing plantings of grapefruit, temon, orange, pocan, tangelo and tangerine trees, apply at a broadcast rate of 1.6 to 3.2 pints per acre for all soil textures.

For areas receiving less than 20" average annual rainfail:

For new plantings of almond, apricot, citrus, nectarine, peach, pecan and walnut trees, apply and incorporate before planting at a broadcast rate of 0.8 pints per acre on coarse soils; 1 to 1.2 pints on medium soils; 1.2 pints on fine soils; 1.2 to 1.6 pints on soils with 2-5% organic matter; and 1.6 pints on soils with 5-10% organic matter. For new planting of vineyards, apply and incorporate before planting at a broadcast rate of 0.8 to 1.2 pints per acre on coarse soils; 1.2 to 2.4 justs on medium soils; and 2.4 to 3.2 pints on fine soils or soils with 2-10% organic matter. Do not use more than 1.6 pints per acre on heal-treated grape rootings. For postplant application on bearing or non-bearing, established plantings of vineyards and almond, apricot, grapetrut, lemon, nectarine, orange, peach, plum, prune, tangelo, tangenne and walnut trees, apply at a broadcast rate of 1.6 to 3.2 pints per acre for all soil textures. Do not apply to vineyards within 60 days of harvest. In established plantings, apply Gowan Trifluralin as a directed spray to the soil and use incorporation methods not injurious to the trees or vines.

FRUIT AND NUT CROPS AND VINEYARDS—Rhizome johneongrase c introi:

For areas receiving tees than 20° average annual rainfalt: You can obtain commercially acceptable control of rhizome johnsongrass with postplant applications in bearing and non-bearing astablished plantings of vineyards and almond, apricot, grapetruit, lemon, nectanne, orange, peach, pecan, tangelo, tangerine and walnut trees with a Gowan Triffuralin program when applied for 2 years in a row.

Soil Preparation: Work the soil thoroughly to bring the rhizomes nearer the surface.

Application; Apply Gowan Trifluralin at a broadcast rate of 3.2 pints per acre on all soil textures each year for 2 years in a row. Do not apply to vineyards within 60 days of harvest.

Incorporation; incorporate thoroughly with a disc set to cut 4 to 6 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary, with the second pass in a different direction from the first.

Cuttivation: Some johnsongrass plants will escape. Timely cultivations are necessary to obtain commercially acceptable control. You cannot obtain commercially acceptable control with only 1 year of Gowan Trifluralin use.

Precautions: Do not use the 3.2 pint rate on new plantings, or crop injury may result. Do not interplant orchards or vineyards with other crops. If the treated vineyards and orchards are diverted to other crop uses, plant only those crops for which Gowan Trifluralin has been registered as a preplant treatment for the next cropping season.

FRUIT AND NUT CROPS AND VINEYARDS—Bindweed control in California:

Gowan Triflurain can be used for the control of field bindweed in vineyards and for almond, apricot, grapetrus, lemon, nectarine, orange, peach, pecan, tangelo, tangerine and walnut troes. Apply at a broadcast rate of 3.2 pints per acre on all soil textures. Gowan Triflurain must be applied in the spring with a specialty designed spray blade which applies a thin, concentrated layer at a soil depth of 4 to 6 inches. This layer of Gowan Triflurain prevents bindweed shoots from emerging.

Land Preparation: Destroy all weeds and grasses with soil tillage before applying. This tillage is necessary to prevent trash from interfering with the operation of the spray blade.

Equipment: This operation requires a spray blade capable of running 4 to 6 inches below the surface of the soil. The spray blade should be equipped with nozzles located under the blade and directed so that the spray will be trapped under the soil which is flowing over the blade as it is pulled through the soil. Use a sufficient number of nozzles with spacing that will uniformly apply the Gowan Trifluralin underground in a thick horizontal lever.

Application; Apply in 40 to 80 gallons of water per acre. Operate the spray blade at a depth of 4 to 6 inches.

Precaution: Some soils develop cracks as they dry after rainfall or wrigation. Field bindweed may emerge if the cracks extend through the Gowan Triffurain layer, Prevent or eliminate cracks by shallow discing or other tillage. Avoid deep tillage which disturbs the subsurface layer. Cultivation or tillage also aids the control of germinating seeds.

FRUIT AND NUT CROPS AND VINEYARDS-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Trifluralin 5 per acre as described in previous sections for use on FRUT AND NUT CROPS AND VINEYARDS. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label.

WHEAT (WINTER)

(Idaho, Montana, Oregon and Washington)

Gowan Triffuralin may be applied for preplant, preemergence—ontrol of cheafgrass and other annual grasses and broadleat weeds controlled by Gowan Triffuralin. The growth, development and yield of writer wheat will not be adversely affected, provided the seed is placed below the ziria of soil treated with Gowan Triffuralin. Apply any time during a period from 3 weeks up to immediately prior to planting. Broadcast at a rate of 1.2 pints per acre on coerse sinks and mediate of 1.6 pints on fine soils.

XHO/L

Incorporation Directions: Incorporate into the soil with a flexible tine-tooth harrow (Flextine, Melroe) set to cut 1 to 2 inches deep and operate at 3 to 6 mph. Incorporate one time within 24 hours after application, followed by a second incorporation in a different direction from the first prior to planting. Do not till the soil with a dec after the Gowen Trifluralin has been incorporated with a flexible tine harrow.

Seeding Directions: Use only a deep furrow or semi-deep furrow drift that will place the seed below the zone of soil into which Gowan Triflurain has been incorporated.

Precaution: Wheat planted in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

WHEAT (WINTER)—Fallow soil application in Washington and Oregon:

Gowen Trifturalin applied and shallowly incorporated into fallow soil up to four months ahoud of planting will control cheatgrass and certain annual grasses and broadlest weeds. The growth, development, or yield will not be adversely affected as long as the seed is placed below the zone of soil treated with Gowen Trifturalin. Use deep or semi-deep furrow drills.

Broadcast rates are 1.2 pints per acre on coarse and medium soils and 1.6 pints on line soils. Apply anytime from May to September prior to the fall clanting of winter wheat.

Incorporation; Incorporate with a flexible time-tooth herrow (Flextine or Melroe) set to cut 1 to 2 inches deep and operated at 3 to 6 mph. For thorough incorporation, two passes of the equipment in different directions over the field are necessary. Incorporate one time within 24 hours after application followed by a second incorporation prior to seeding. Do not till the soil with a disc after Gowen Trifluralin has been applied with a flexible time herrow.

Precaution: Use only deep furrow or semi-deep furrow drifts. Place seed below the zone of soil into which Gowen Triffuralin has been incorporated. Do not plant wheat directly into the zone of soil treated, injury to the crop or delay in its emergence and development may occur.

WHEAT (SPRING), DURUM AND BARLEY-GOWAN TRIFLURALIN ALONE

Gowan Trifluralin is recommended as a post plant incorporated treatment to control footail (pigeongrass). Apply at a broadcast rate of 0.8 pints per acre on coarse and menium soils and 1.2 pints on fine soils. Plant 2 to 3 inches deep in a well-tilled seedbed. Apply Gowan Trifluralin after seeding but before the crop emerges. To incorporate use flex-tine or diamond harrows operated two times in different directions, at speeds of at least 5 mph. Incorporate by operating equipment 1 to 1 1/2 inches deep. Application and the first incorporation should be done in the same operation if possible. Both incorporations must be done within 24 hours.

WHEAT (SPRING), DURUM, BARLEY (FALL APPLICATION)—Fextall (Pigeongrase) control:

Gowan Trifluralin may be fall applied for foxtail (pigeongrass) control in spring wheat, durum and barley planted the following spring. Gowan Trifluralin may be applied to ground that has a manageable trash level, has been fallowed or pre-tifled. The first incorporation is required within 24 hours after application. A second incorporation is required prior to planting to destroy emerged weeds and to ensure an even distribution of treated soil.

Broadcast Rates Per Acre:

Soil Texture	Gowan Triffuralin
Coarse	0.8 Pint
Medium	0.8 Pint
Fine	1.2 Pints

Incorporation Directions: Any of the following tools are recommended for fall incorporation. The disc or held cultivator may be used for the spring incorporation pass. Care should be taken to operate the tool at a more shallow depth than the fall incorporation.

- 1. Chisel Plow: May be used for the first pass only. Operate at 4-5 inches deep at 4-6 mph. A chisel plow is defined as having 3 rows of up to 18-inch sweeps on no greater than 12-inch centers. Stagger sweeps to that no soil is left unturned.
- 2. Tandem Disc: Operate at 3-4 inches deep at 4-6 mph.
- 3. Field Cultivator: Operate at 3-4 inches deep at 5 mph or more. A field cultivator is defined as having 3 to 4 rows of sweeps with C or S shaped shanks, spaced 7 inches or less and staggered so that no soil is left unturned.

Planting Directions: Wheat, durum, or barley should be approximately 2 inches deep.

Precaution: While use of this practice may result in a stand reduction, slight stand reductions do not normally affect yield.

WHEAT (SPRING), DURUM AND BARLEY-Gowan Trifluralin/Far-Go Tank Mix

Gowan Trifluralm/Far-Go applied as a postplant incorporated treatment will control foxtail (pigeongrass) and wild out. Plant 2 to 3 inches deep in a well-titled seedbed. Apply Gowan Trifluralm/Far-Go after seeding but before crop emerges. To incorporate, use flextine or diamond harrows two times, operated in different directions, at speeds of at least 5 mph. Incorporate by operating equipment 1 to 1 1/2 inches deep. Application and the first incorporation should be done in the same operation if possible. If not, incorporate immediately after application, and care the first incorporate Parties.

	GOWAN TRIFLURALIN 5	FAR-GO		
Soil Texture	Barley/Durum/Spring Wheat	Duram/Spring Wheat	Barley	
Coarse	O 8 pint	2 pmls	2 1/2 perts	
Medium	Iniq 8.0	2 pints	2 1/2 pints	

Fine WHEAT-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Trifluralin 5 per acre as described in previous sections for use on WHEAT. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label. For tank mores containing Trifluralin, 5 forby label directions, restrictions and precautions for both products concerning CHEMIGATION. Do not use tank mores for chemigation when not permitted on both labels.

2 pints

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2 1/2 pints

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FLAX—FALL APPLICATION

Gowan Trifluration may be applied and incorporated in the fall for weed control in spring seeded flax. Ground cover from existing weeds or previous crop should be at a manageable level so that there is no interference with incorporation.

Apply at the broadcast rates per acre of 0.8 pint for coarse soils; 1.2 pints for medium soils; and 1.6 pints for fine soils.

Incorporation Directions: Incorporate one time within 24 hours after application. The second incorporation should be performed in the spring prior to seeding of Flax. The incorporation operations should result in a thorough mixing of Gowan Trifluralin with the soil. Otherwise, erratic weed control may result.

Incorporation Equipment: Use mechinery that mixes Gowen Trituralin thoroughly with the soil, Recommended equipment includes:

Disc: Set to cut 3-4 inches deep and operated in 2 different directions at 4 to 6 mph. A tandem or double-disc operated one time does not provide adequate incorporation.

Fleid Cultivator: Set to cut 3-4 inches deep and operated at 5 mph or more. The field cultivator used alone or in combination with the double-disc will provide effective incorporation providing the following instructions are used:

- 1. Two passes over the field with a field cultivator with second pass running at an angle to the first. Do not set cultivator to cut deeper than 4 inches. Be sure a depth of not greater than 4 inches is maintained on the second pass since untreated soil may be turned up.
- 2. Field cultivator used for the first pass and the double-disc used for the second pass.

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3. Double-disc used for the first pass and the field cultivator used for the second pass.

Note: A field cultivator is defined as an implement with 3 to 4 rows of sweeps spaced at intervals of 7 inches or less and staggered so that no soil is left unturned. Chisel points should not be used.

4. Mulch treader and other similar disc-type implements—set to cut 3-4 inches deep and operated at 5 to 8 mph in two different directions.

Special Instructions for Flax:

- 1. Incorporation operations or any other tillages performed in the spring prior to seeding should be relatively shallow so as to maintain a firm seedbed, and the seedbed should be packed just prior to seeding.
- 2. Seeding should be done with a press drill or hoe drill. Seed into a moist seedbed no more than 1.5 inches deep.
- 3. Flax should not be seeded until the seedbed has warmed up.
- 4. Refer to the special precautions statement on this label regarding stresses that can lead to crop injury or yield reduction.

Note: Do not delay the first incorporation more than 24 hours after application.

FLAX-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Triffuralin 5 per acre as described in previous sections for use on FLAX. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label.

ONIONS (Grown for Dry Buibs Only)

Application Directions: Apply Gowan Trifluralin as a directed spray to the soil between the onion rows. Avoid spraying the onion tops or exposed hulbs

Preharvest Interval: Do not apply within 60 days of harvest.

Broadcast Rates Per Acre:

Soil Texture	Gowan Trifluralin 5
Coarse	0 6-0 8 Pint
Medium	0 8-1.0 Pint

For band applications, use proportionately less Gowan Trifluralin. Use the lower rates where light weed pressure is anticipated.

Incorporation Directions; Soil incorporation may be accomplished by operating sweep-type or rolling cultivators 2 to 4 inches deep al 6 to 8 mph. incorporation equipment must mor Gowan Triffuralin uniformly into the soil. Incorporate with two passes. The first pass must be within 24 hours of application or erratic weed control may result. Avoid covering exposed onion bulbs with treated soil during incorporation as injury to the crop may occur. Care should be taken to avoid injury to the roots during incorporation.

Precautions: Applied according to these directions and under normal growing conditions, Gowan Trifluration will not adversely affect onion. Diseases, improper incorporation depth, excessive moisture, high salt concentration or drought may weaken the crop and increase the possibility of damage from Gowan Trifluration. Under these conditions, delayed crop development or reduced yields may result.

ONION—CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Triffuralin 5 per acre as described in previous section for use on ONION. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this label.

RAPESEED

Gowan Triffuralin as a broadcast application will control cartain annual grasses and broadleaf weeds in repessed .

For use in all states except Alaska: Follow recommended procedures for soil preparation and application for Gowan Triffership may be applied in the fall or early spring prior to seeding. Set incorporation equipment to incorporate to a depth of 3 to 4 inches with aquipment specified in this tabel.

Broadcast Rates Per Acre:

Soil Texture	Gowan Triffuration 5
Coarse	0 8 Pmi
Medium	1 2 Pints
Fine	1.6 Pints

RAPESEED-CHEMIGATION:

For application by irrigation system, apply specified dosage of Gowan Trifluratin 5 per acre as described in previous section for use on RAPESGED. Follow all directions given under GENERAL CHEMIGATION USE INSTRUCTIONS section of this tabel.

GENERAL CHEMIGATION USE INSTRUCTIONS

If application by chemigation is not specifically listed for a crop, Gowan Triffuralin 5 may not be applied to that crop through irrigation systems. Gowan Triffuralin 5 may be applied through sprinkler (including micro, center pivot, and tow, side (wheel) roll, traveler, solid set, lateral move and hand move) or drip. (including surface and subsurface) irrigation systems. Do not apply this product through any other type of irrigation system. Do not apply this product in an irrigation system connected to a public water supply (Public water supply 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 serves an average of at least 25 individuals daily at least 60 days out of the year.)

Crop injury, lack of effectiveness or illegal posticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arese.

Irrigation System Requirements: The system must contain a functional check valve, vacuum relief valve and a few 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 inteste 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 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 pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a matering pump, such as a positive displacement pump (e.g. disphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being littled with a system interlock.

Precautions and Use Requirements for All Irrigation Systems: Do not allow contact with crop foliage or fruit(unless allowed in use directions for other application methods).

Do not apply when wind speed favors drift beyond the area wilended for treatment, when systems connections leak or when emitters do not provide uniform distribution.

Before use, remove scale, posticide residues and other debris from the mix tank and the pump system. Flush system with clean water.

Calibration and distribution will be more accurately achieved by injecting a larger volume of a more dilute solution over time. If desired, dilute Gowan Triffuralin 5 with water prior to injection and mix solution sufficiently to ensure uniform delivery into the injection system; maintain adequate agitation. Sprinkler systems should be calibrated to deliver a volume of 4-50 gallons per hour (gph) per emitter. Apply Gowan Triffuralin 5 in overhead irrigation equal to 1/2 -1 inch of water.

Drap systems should be set at 0.1-3 gph per emitter. The application interval should be such that at one period of time during the injection, the first and last emitters in the system contain Gowan Triflurain 5 freated water.

After application is completed, flush equipment with clean water, then continue to irrigate for one to two hours. Mechanical soil incorporation is not required when Gowan Triffuratin 5 is applied through chemigation systems.

Chemigation Application Instructions

For General Application of Trifluralin Through Irrigation Systems for Overall Weed Control (Broadcast):

Use sprinkler systems (micro, center pivot, and tow, side (wheel) roll, traveler, solid set, lateral move and hand move) to apply to crops which permit application by chemigation on this label. Gowan Trifluralin 5 should be injected continuously throughout the chemigation period. The chemigation metering pump should be checked periodically during the application to ensure proper operation. The injection metering pump must be calibrated as specified by the manufacturer. During chemigation, maintain agitation at all times. Apply label prescribed rates to treated area only. If the irrigation system does not apply treated water to the entire area of the field, adjust the amount of trifluralin used to match the actual treated acreage. (43,560 Sq. Ft. = 1 acre)

For Control of Break Through Weeds (Including foliage, root, rhizome or stolon) at Irrigation (Emitter) Points:

Use drip systems (surface and subsurface) and sprinkler systems (micro, solid set, and hand move) to apply to crops which permit application by chemigation on this label. In this application, Gowan Trifluralin 5 rates which are listed as broadcast rates should be prorated to treat only the desired soil area. Do not apply Gowan Trifluralin 5 in this manner more than 3 times per calendar year.

Surface drip and sprinkler applications- (Timing)- inject Gowan Trifluralin 5 at the end of the irrigation cycle allowing 1 to 1 1/2 hours of irrigation following the application to flush lines with clear water. (Rate Calculation)- apply 1.6 to 3.2 pints of Gowan Trifluralin 5 per acre to the treated area. A treated acre is defined as the surface area wetted by the irrigation system. To calculate the treated acreage, multiply the number of emifters in a irrigation set by the measured square foolage of the wetted area of the average emitter, divided by 43,560.

Subsurface drip applications (Timing)- charge the irrigation system, begin application of Gowan Trifluralin 5 immediately after all emitter points are functional. Shut off the irrigation system immediately following completion of the Gowan Trifluralin 5 application, allowing the trifluralin to bond to the treated soit. Resume irrigation 4 to 8 hours after the trifluralin application. (Rate Calculation)- apply 1.6 to 3.2 pints of Gowan Trifluralin 5 per treated acre. The treated acreage is defined as the square footage area wetted by the irrigation system during the application period. Multiply the number of emitters (for "leafey hose" type of system use the linear feet of buried line) per irrigation set by the desired square footage to be treated around each emitter and divide by 43,560. In this type of application it is usually desirable to treat only 2 to 4 square inches around each irrigation emitter in order to prevent break through weeds.

NOTE: Application of Gowan Triffurain: 5 through irrigation systems as a supplemental weed control practice, to suppress break-through weeds, including pest foliage, roots and rhizomes, at irrigation emitters will inhibit the formation of root tissue. Improper use of Triffuralin may result in yield loss due to weak or deformed root structure in annual and some perennial crops. Make Triffuralin injections after the majority of the root develop. It is has occurred but prior to pest presence in the emitter zone. Visual inspection of the root zone is necessary for proper application timing. Triffuralin injection should be done separately from normal irrigation practices. For annual crops with "tap" or "bulb" type root structure, bury the drip line off center of the planted row or below the depth of the fully developed tap root or bulb, Triffuralin injections made early in the crop development or in shallow buried drip lines will result in restricted root development and possible yield loss. Consult your local Farm Advisor, P.C.A., or Gowan Company Representative for proper use of Triffuralin.

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FERTILIZER USE DIRECTIONS APPLICATION WITH LIQUID FERTILIZERS

Gowan Trifluratin may be moved with most liquid fertilizer materials. The combination with solutions and suspension-type fertilizers has provided weed and grass control equal to the same rates of Gowan Trifluratin applied in water. Follow Gowan Trifluratin label recommendations regarding rates per acre, crops, incorporation directions, special instructions, cautions and special precautions. Individual state regulations relating to liquid fertilizer mixing, registration, labeling and applications are the responsibility of the individual and/or company setting the fertilizer and chemical mixture.

Testing for Tank Mix Competibility in Liquid Fertilizers:

Gowan Trifluralin alone or in tank moture with dry flowables, wettable powders (WP), aqueous suspensions (AS), flowables (F), liquids (L), or solutions (S) may not combine properly with some fluid fertilizer materials. Small quantities should always be tested before full-scale mixing. This will determine whether a competibility agent is needed, and which agent does the best job. The seven agents field on the next page have been thoroughly tested. There are many other surfactants on the market which were not designed for use with liquid fertilizers. Use the following test to select the correct agent for your modure.

1. Put 1 pint of the liquid fertilizer in a quart jer.

- Add 1 to 4 teaspoons full of the dry flowable, WP, AS, F, or L formulation (depending on the recommended rate per acre) to the liquid fertilizer.
 Close jar and agitate until the materials are dispersed evenly in the fertilizer. If the materials do not disperse well, it may be necessary to slurry the chemicals in water before adding to the fertilizer.
- 3. After dispersing the materials (Step 2), add 3 to 4 teespoons full of Gowen Triffuralin to the jar and shake well. Add solution herbicides to the mixture last and agitate. Observe the jar for about 10 minutes. If the materials rise to the surface and form a thick layer (oily curds) which will not redisperse when agitated, a compatibility agent is needed. If the mixture is easily redispersed to its original state with slight agitation, no agent is needed but good agitation must be provided in the fertilizer spray tank.
- 4. If the need for a compatibility agent is shown in Step 3: Using a clean quart jar, start at Step 1 above, add 1/2 teaspoon of the compatibility agent to the liquid fertilizer, mix well, then repeat Steps 2 and 3.

An effective compatibility agent will cause the mixture to remain uniformly mixed with little or no separating or oil rising to the surface for one half hour or longer, if slight separation does occur, 2 to 3 inversions of the jar should give a uniform remix. If only curds form which will not redisperse, more agent or another agent should be inted.

Use a clean jar for each test. The compatible moture will have a uniform appearance and will be relatively easy to keep moted with gentle agitation of the jar.

LIQUID FERTILIZER MIXING INSTRUCTIONS

Gowan Triffuralin 5 in Liquid Fertilizer:

Emulsitiable concentrates, such as Gowan Triffuralin, can be moved with liquid fertilizers. In all cases, continuous agitation is required to prevent the Gowan Triffuralin from rising to the surface as an only layer. When necessary, (see Testing For Tank Mox Compatibility in Liquid Fertilizers, above) a compatibility agent can be used to cause the Gowan Triffuralin to emulsify properly (i.e. have a milky appearance rather than an only layer). The use of compatibility agents is especially important when tank mixing emulsifiable concentrates (EC) with dry flowables, wettable powders (WP), aqueous suspensions (AS), flowables (F), liquids (L), or solutions (S) in liquid fertilizer. If the emulsion is not properly formed and the Gowan Triffuralin rises to the surface of the fertilizer as

an oil (oils out) the oil may combine with the wettable powder, flowable, or suspension to form oily curds (viscous phase) which is difficult to redisperse. Any one of the compatibility agents listed below is helpful in causing liquid concentrates to form non-oiling motures with liquid fertilizers. These compatibility agents can be used at rates as low as 1 1/2 to 2 pints per ton oil liquid fertilizer and should be mixed well with the fertilizer before adding the liquid concentrate. Read the label on the compatibility agent and follow the directions:

- 1, Sporito 186D (Witco Chemicals Co., Chicago, IL.)
- 2. Compat (Farm Chemicals, Inc., Aberdeen, NC)
- 3. Unite (Hopkins Ag Chemical, Madison, WI)
- 4. T-Mulz 734-2 (Thompson-Hayward Chemical Co.)
- 5. Rigo Compatibility Agent (Rigo Company, Buckner, KY)
- 6. Amoco Spray Matel (Amoco Oil Co., Chicago, IL) 7. Kem-Link (Universal Coop, Minneapolis, MN)

All of the above are phosphale, ester-type surfactants designed to be used with liquid fertilizers. They usually do not work as compatibility agents in tank motures in plan water.

Application: Spread the fertilizer/pesticide moture with a properly calibrated applicator. Be certain the material is applied uniformly to the soil surface.

Incorporation: Follow normal Gowan Trifluratin incorporation procedures.

GOWAN TRIFLURALIN 5 APPLICATION WITH DRY BULK FERTILIZERS

Dry bulk fertilizers may be impregnated or coated with Gowan Triffuralin, Application of dry bulk fertilizers impregnated with Gowan Triffuralin had provided weed and grass control equal to the same rates of Gowan Triffuralin applied in water.

All Gowan Triffuration label recommendations regarding rates per acre, approved crops, incorporation, special instructions, cautions, and spucial precautions must be followed. Apply a minimum of 200 pounds per acre of dry fertilizer impregnated with Gowan Triffuration at the recommended rates. Any commonly used dry fertilizers can be used for Gowan Triffuration impregnation except coated ammonium intrate and straight limestone. These materials can be impregnated.

Impregnation: Use any closed drum, belt, ribbon or other commonly used dry bulk fertilizer blender. Apply Gowan Trifluralin uniformly to the fertilizer.

Rates: Check specific crop recommendations for the rate of Gowan Triffuralin per acre. See the rate table which follows to determine the amount of Gowan Triffuralin to be impregnated into a ton of dry bulk fertilizer based on the amount of fertilizer which will be applied per acre, (see rate chart below)

Application: Spread the fertilizer/chemical motive with a property calibrated applicator. Be certain the material is applied uniformly to the soil surface.

Incorporation: Follow Gowan Triffuratio incorporation procedures

RATE CHART FOR IMPREGNATING FERTILIZER WITH GOWAN TRIFLURALIN 5

(Gowan Trifluralin Added To A Ton Of Fertilizer)

FERTILIZER Rate Per Acre	GOWAN TRIFLURALIN Rate Per Acre				
	0.6 Pint	1.2 Pinto	1,6 Pints	2.4 Pinte	3.2 Pints
200 pounds	4 qts per ton	6 qts per ton	8 qls per ton	12 qls per ton	16 qts per ion
250 pounds	3.2 qts per ton	4.8 qts per ton	6.4 qts per ton	9.6 qts per Ion	12.8 qts per ton
300 pounds	2.7 qts per ton	4 qts per Ion	5.6 qts per ton	8 qts per ton	10.8 qts per ton
350 pounds	2.3 qts per ton	3.6 gts per ton	4.8 gts per ton	6.8 qts per ton	9.2 qts per ton
400 pounds	2 gts per ton	3 qts per ton	4 qts per ton	6 gts per ton	8 qts per ton
450 pounds	1.8 ats per ton	2.7 ats per ton	3,6 gls per ton	5.4 gts per ton	7.2 dis per lon

For rates other than those listed above, use the following formula to calculate the amount of Gowan Tritluralin to be impregnated on a ton of dry bulk fertilizer:

Pinte Gowan		1000	Querte Gowan
Triffuratio	X	i.bs. Fortilizer	Triffuralin Per
Per Acre		Per Acre	Ton Of Fertilizer

All individual State regulations relating to dry bulk fertifizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the fertifizer and chemical mixture.

SPECIAL PRECAUTIONS

Applied according to directions and under normal growing conditions, Gowan Trifluralin will not harm the treated crop. Overapplication may result in crop injury or a soil residue. Uneven application or improper soil incorporation of Gowan Trifluralin can result in erratic weed control or crop injury. Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration or drought may weaken crop seedlings and increase the possibility of damage from Gowan Trifluralin. Under these conditions, delayed crop development or reduced yields may result.

In Arizona, Colorado, California, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming, sugarbeets, red beets or spinach should not be planted for 12 months after a spring application or for 14 months after a fall application. Plow the land to a depth of 12 inches prior to planting sugarbeets to prevent the possibility of crop injury. Sorghum (milo), proso millet, com or oats should not be planted for 14 months after a spring application or for 16 months after a fall application to avoid crop injury. If land has not been impated, do not plant any of these crops for 18 months after a spring application or 20 months after a fall application. In those portions of Kansas, Nebraska, North Dakota, Oklahoma, South Dakota and Taxas where at least 20 inches of imigation and/or rainfall (total) was used to produce the crop, sorghum or oats should not be planted for 12 months after an application.

If less than 20 inches of total water was used to produce the crop, do not plant sorghum, proso millet, or cats for 18 months after an application. Cool, wat weather conditions during the early stage of growth may increase the possibility of injury to sorghum.

In all other areas receiving greater than 20 inches of reinfall per year: Moldboard plow before planting sugar bests where a spring application of Gowan Triffuralin was made the previous season. Also note planting restrictions listed in the section on control of rhizome johnsongrass and other higher rate programs.

Vegetable Growing Areas: Vegetable crops other than those listed on this label should not be planted within 5 months following the application of Gowan Triflurain.

NOTICE ON CONDITIONS OF SALE

Our recommendations for use of this product are based upon tests believed to be reliable. The use of the 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.

Amiben®—chloramben, Union Carbide Agricultural Products Co., Inc. Caparol® —prometryn, Ciba-Gelgy Corporation.
Cotoran®—Ruometuron, Ciba-Gelgy Corporation.
Epiam®—EPTC, Stauffer Chemical Company.
Far Go®—triallete, Monsanto Agriculture Products Company.
Monsante —Birton, E. L. du Pord de Niemours and Company.

Karmex®—diuron, E. I. duPont de Nemours and Company. Lexone®—metribuzin, E.I. duPont de Nemours and Company.

Sencor®-metribuzin, Bayer, GmbH.

Vername-vernolate, Stauffer Chemical Company.