

AUG 2, 1991

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Dr. Dennis H. Lade
 DowElanco
 Quad IV
 9002 Purdue Road
 Indianapolis, Indiana 46268-1189

Dear Dr. Lade:

Subject: Amendment Label, Master Label
 Treflan TK-10
 EPA Registration Number 62719-131
 Your Submission Dated May 14, 1991

The labeling referred to above, submitted May 14, 1991 in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable, provided the following changes are made:

1. Due to a new EPA policy, part of the Environmental Hazards section has been changed. To comply, change the sentence "Do not apply to water or wetlands (swamps, bogs, or marshes)" on both the container label and the product label literature to read "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."

2. Under Asparagus, add "pounds" to the Broadcast Application Rates/Acre chart.

3. Under Sugarcane - Itchgrass (Raoulgrass) Control (For Use in Louisiana), add a Broadcast Application Rates/Acre chart with the rate of 10 - 20 pounds for all soil textures.

A stamped copy is enclosed for your records. Please submit three (3) copies of your final printed labeling incorporating these changes referred to above.

Sincerely yours,

Joanne I. Miller
 Product Manager (23)
 Fungicide-Herbicide Branch
 Registration Division (H7505C)

CONCURRENCES

SYMBOL	Enclosure						
SURNAME							
DATE							

4/25/91

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(LOGO) DowElanco

Treflan* TR-10 Herbicide

A selective herbicide for preemergence control of annual grasses and broadleaf weeds.

Active ingredient:

trifluralin (α, α, α -trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine).....	10%
Inert Ingredients.....	90%
Total.....	100%

Contains 5 pounds of active ingredient per 50 pound bag.

Manufactured using the processes of U.S. Patents 4,120,905 and 4,226,789.

*Trademark of DowElanco

EPA Reg. No. 62719-131

EPA Est. No. 00000-XX-00

**Keep Out of Reach of Children
CAUTION**

Notice

Read and understand the entire label before using. Use only according to label directions.

Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" sections elsewhere on this label.

IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect 517-636-4400.

AGRICULTURAL CHEMICAL

Keep away from foodstuffs, and water supplies. Do not ship or store with food, feed, drugs or clothing.

DowElanco

Indianapolis, IN 46268-3030, U.S.A.

Herbicide

Net Weight - 50 Pounds

APPROVED
FOR COMMERCIAL
USE EPA Letter Dated

APR 23 1991

62719-131

Precautionary Statements

Keep Out of Reach of Children

Hazards to Humans and Domestic Animals

CAUTION

Causes Eye Irritation • Harmful If Swallowed, Inhaled or Absorbed Through the Skin

Avoid breathing dust and contact with skin, eyes or clothing. Use eye protection and protective clothing such as coveralls, a long-sleeved shirt and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

First Aid

- If in eyes: Flush eyes with plenty of water. Get medical attention if irritation develops.
- If swallowed: Do not induce vomiting. Call a physician or Poison Control Center. If available, administer activated charcoal (6-8 heaping teaspoonfuls) with a large quantity of water. Do not give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician.
- If inhaled: Remove individual to fresh air. Get medical attention if breathing difficulty occurs. If not breathing, give artificial respiration, preferably cardiopulmonary resuscitation and get medical attention immediately.
- If on skin: Wash with plenty of soap and water. Get medical attention if irritation develops.

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to any body of water or wetlands (swamps, bogs or marshes). Drift or runoff from treatment areas may be hazardous to aquatic organisms in neighboring aquatic sites. Do not contaminate water when disposing of equipment washwaters.

Refer to attached booklet for Directions for Use including Storage and Disposal.

WARRANTY DISCLAIMER

DowElanco warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. DowElanco makes no other express or implied warranty of merchantability or fitness for a particular purpose or any other express or implied warranty.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to the label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowElanco or the seller. All such risks shall be assumed by the buyer.

LIMITATION OF REMEDIES

The exclusive remedy for losses or damages resulting from the use of this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElanco's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

DowElanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing. In no case shall DowElanco be liable for consequential or incidental damages or losses.

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The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowElanco or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

Treflan TR-10 Container Label

Revised 04/25/91

DowElanco**Treflan* TR-10**
Herbicide

A selective herbicide for preemergence control of annual grasses and broadleaf weeds.

Active ingredient:

trifluralin (a,a,a-trifluoro-2,6-dinitro-N,N-

dipropyl-p-toluidine)..... 10%

Inert Ingredients..... 90%

Total..... 100%

Contains 5 pounds of active ingredient per 50 pound bag.

Manufactured using the processes of U.S. Patents 4,120,905 and 4,266,789.

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EPA Reg. No. 62719-131

Notice

Read and understand the entire label before using. Use only according to label directions.

Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" at the end of this label.

IN CASE OF EMERGENCY -- endangering life or property involving this product, call collect 517-636-4400

AGRICULTURAL CHEMICAL Keep away from food feedstuffs and water supplies. Do not ship or store with food feeds, drugs or clothing.

DowElanco

Indianapolis, IN 46268-3030, U.S.A.

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- If inhaled: Remove individual to fresh air. Get medical attention if breathing difficulty occurs. If not breathing, give artificial respiration, preferably cardiopulmonary resuscitation and get medical attention immediately.
- If on skin: Wash with plenty of soap and water. Get medical attention if irritation develops.

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to any body of water or wetlands (swamps, bogs or marshes). Drift or runoff from treatment areas may be hazardous to aquatic organisms in neighboring aquatic sites. Do not contaminate water when disposing of equipment washwaters.

Directions for Use

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- Read all Directions for Use before applying this product.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

- Storage: Store in original container only. In case of spill, contain material and dispose as waste.
- Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
- Container Disposal: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration, in accordance with applicable regulations, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Treflan TR-10 - General Information

Treflan TR-10 is a selective preemergence herbicide for control of many annual grasses and broadleaf weeds. Treflan TR-10 must be mechanically incorporated within 24 hours after application to effectively control weeds. Treflan controls susceptible weeds as they germinate. Treflan does not control established weeds.

General Use Precautions

- Applied according to directions and under normal growing conditions, Treflan will not harm the treated crop. Overapplication may result in crop injury or rotational crop damage from soil residue. Uneven application or improper incorporation of Treflan 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 Treflan. Under these conditions, delayed crop development or reduced yields may result.
- Do not apply Treflan to soils that are wet or are subject to prolonged periods of flooding as poor weed control may result.
- Do not use Treflan on any crop grown in Pecos county or Reeves county, Texas.
- In Montana, uses of Treflan are limited to those described in supplemental labeling. Refer to supplemental labeling for crops and specific use directions.

Rotation Crop Restrictions

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Sugarbeets, redbeets and spinach:

In Arizona, Colorado, California, Idaho, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming, sugarbeets, redbeets or spinach should not be planted for 12 months after a spring application or 14 months after a fall application of Treflan. Plowing to a depth of 12 inches prior to planting these crops will reduce the possibility of crop injury. If land has not been irrigated, these crops should not be planted for 18 months after a spring application or 20 months after a fall application of Treflan.

In all other areas, sugarbeets, redbeets, and spinach should not be planted for 12 months after a spring application or 14 months after a fall application. Before planting sugarbeets, moldboard plow to a depth of 12 inches to reduce the possibility of crop injury.

Proso millet, corn, sorghum (milo), oats and annual or perennial crops or grass mixtures:

In Arizona, Colorado, California, Idaho, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming, Proso millet, corn, sorghum (milo), oats and annual or perennial grass crops or grass mixtures should not be planted for 12 months after a spring application or 14 months after a fall application of Treflan to avoid the possibility of crop injury. If land has not been irrigated, these crops should not be planted for 18 months after a spring application or 20 months after a fall application. Moldboard plowing to a depth of 12 inches before planting these crops will reduce the possibility of crop injury.

In Minnesota, North Dakota and South Dakota: Proso millet, sorghum (milo), oats and annual or perennial grass crops or grass mixtures should not be planted for 18 months after a spring application or 21 months after a fall application of Treflan.

In those portions of Kansas, Nebraska, Oklahoma and Texas that receive less than 20 inches of rainfall and irrigation to produce a crop: Do not plant proso millet, sorghum (milo), oats and annual or perennial grass crops or grass mixtures for 18 months after an application of Treflan. In sorghum, cool wet weather conditions during early growth stages may increase the possibility of crop injury. In areas receiving more than 20 inches of rainfall and irrigation, these crops should not be planted for 12 months after a spring application or 14 months after a fall application of Treflan.

Other Crops:

Vegetable crops other than those listed on this label for use with preplant soil incorporated application of Treflan, should not be planted within 5 months after an application of Treflan.

Application Directions

Soil Preparation: Trellan TR-10 may be applied to standing stubble or soil that has been pretilled. Existing weeds and crop residues should be reduced to a manageable level using tillage so that Trellan can be uniformly incorporated into the top 2 to 3 inches of the final seedbed. Soil surface conditions should allow Trellan to be thoroughly and uniformly mixed into the top 2 to 3 inches of soil. If this is not possible the soil should be tilled prior to application.

General Soil Conditions: The soil surface should be smooth enough to allow for uniform application and efficient incorporation of Trellan. Apply when soil moisture is sufficient to allow breakup of large clods and uniform mixing during the incorporation process. Soil compaction and/or nonuniform incorporation may occur when soil is excessively moist.

Application: Trellan TR-10 may be applied with ground or aerial broadcast application equipment. Apply only with equipment capable of accurate calibration and uniform application of herbicide granules. Apply at the recommended rate for soil texture class to be treated. Follow calibration directions provided by the equipment manufacturer. Avoid releasing granules in narrow bands on the soil surface as this may cause crop injury.

Freezing will not adversely affect this product. If product is frozen at the time of application, agitate or thaw to restore free-flowing properties to TR-10 granules.

Soil Texture Guide For Application Rates: Trellan rate recommendations for incorporated treatments are based on "Soil Texture Class" (coarse, medium or fine) and soil organic matter content. A fine textured soil (e.g., clay loam) will require a higher application rate than a coarse textured soil (e.g., loamy sand). In the table below, find the "Soil Texture Class" (coarse, medium or fine) corresponding to the soil texture to be treated. Choose the proper rate for each application based on the "Soil Texture Class" and specific crop recommendations. Do not exceed recommended rates.

Soil Texture Class	Soil Texture of the Soil to be Treated
Coarse soils (Light)	Sand, loamy sand, sandy loam
Medium soils	Loam, silty clay loam*, silt loam, silt, sandy clay loam*
Fine Soils (Heavy)	Clay, clay loam, silty clay loam*, Silty clay, sandy clay, sandy clay loam*

*Silty clay loam and sandy clay loam soils are transitional soils and may be classified as either medium or fine textured soils. If silty clay loam or sandy clay loam soils are predominantly sand or silt, they are usually classified as medium textured soils. If they are predominantly clay, they are usually classified as fine textured soils.

Application Rate Ranges: Where a rate range is shown, use the lower rate for coarser textured soils or soils with low organic matter content. Use the higher rate in the rate range for finer textured soils and on soils containing more than 5% organic matter. Where soil texture is variable within the same field, use the lower recommended Trellan rate.

Application Timing

Spring Application: Apply Trellan TR-10 any time after January 1 when soil can be worked and is in condition suitable for good incorporation. See "Approved Crops" section for recommendations on specific crops.

Fall Application:

Application Timing : In California, Minnesota, North Dakota and South Dakota, apply Trellan TR-10 any time between September 1 and December 31. In all other states, fall apply Trellan any time between October 15 and December 31.

Application Rates for Fall Application: Refer to the "Approved Crops" section of this label for specific rate recommendations. Increased rates for fall application are recommended for certain crops grown in certain geographic areas. For crops for which there are no specific fall application instructions, and for which Trellan is recommended as a preplant incorporated treatment, use the rates listed for spring applications. In areas receiving greater than 20" total average annual rainfall and irrigation, use the higher rate in the recommended rate range. Do not fall apply Trellan prior to planting sugar beets, potatoes and direct seeded tomatoes the following spring.

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 spring bedding operations. Destroy established weeds during seedbed preparation.

Prior to planting, destroy any weeds which have become established in furrows due to uncovering of untreated soil. Do not apply Trellan in the fall to soils that are wet or subject to prolonged periods of flooding, or where rice was grown the previous year.

Incorporation Directions

Trellan TR-10 requires two incorporation passes. The first should occur within 24 hours after application. For best weed control results, the second incorporation should be delayed 3 to 5 days after the first and be completed prior to planting. A minimum delay of 7 days after the first incorporation is recommended for certain Trellan TR-10 uses in small grains. See specific use directions. The second incorporation pass should occur in a different direction than the first. Use incorporation equipment capable of thoroughly and uniformly mixing Trellan into the top 2 to 3 inches of the final seedbed. Erratic weed control may result if untreated soil is moved to the surface during the second incorporation pass. To avoid this problem, set equipment so that the second incorporation pass is not deeper than the first.

Incorporation In Established Crops: Trellan TR-10 may be applied and incorporated in certain established crops. Refer to the "Approved Crops" section of this label for specific incorporation directions.

Incorporation In Bedded Culture: For optimum weed control, Trellan should be incorporated into the top 2 to 3 inches of the final seedbed.

Application prior to bedding: Apply and make first incorporation with recommended equipment. The bedding operation serves as the second incorporation. Do not expose untreated soil during post-bedding operations*.

Application after Bedding: Knock off beds to planting height before applying. Apply Trellan and incorporate with recommended equipment that will conform to the bed shape. Do not leave untreated soil exposed*.

*Avoid removal of treated soil from the seedbed before or during the planting operation. Exposure of untreated soil, will allow weeds to germinate in the drill row.

Cultivation After Planting

Areas treated with Trellan TR-10 may be shallowly cultivated without loss of weed control activity. Avoid deep cultivation that could bring untreated soil to the soil surface and result in loss of weed control.

Recommended Incorporation Equipment

Any recommended incorporation implement may be used alone or in combination with any other recommended implement. Two incorporation passes are necessary unless otherwise specified. The second incorporation should not be deeper than the first.

1. **Tandem Disc:** Set to cut 4 to 6 inches deep and operate at 4 to 6 mph.
2. **Field Cultivator:** Set equipment to cut 3 to 4 inches deep and operate at 5 or more mph. 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.
3. **Chisel Plow:** (For use in northern Great Plains). The chisel plow may be used for the first incorporation pass only. Any other recommended incorporation implement may be used for the second pass for row crops. The chisel plow may be used for any tillage or incorporation pass in the Summer Fallow program. Operate chisel plow 4 to 5 inches deep at 4 to 6 mph. A chisel plow is defined as having 3 rows of 14 to 18-inch sweeps spaced no more than 12 inches apart. Sweeps should be staggered so that no soil is left unturned. Chisel points should not be used.
4. **Combination Seedbed Conditioners:** These implements are defined as three or more tillage devices combined to operate as a single tillage unit. For example, 2 to 3 rows of field cultivator C- or S-shaped shanks with an effective sweep spacing of 6 to 9 inches, (staggered so that no soil is left unturned), followed by a spike-tooth or flexline harrow, followed by a ground driven reel or basket. Combination implements should be set to cut 3 to 4 inches deep and operated at a minimum speed of 6 mph. Trellan can be incorporated with one pass when using a combination seedbed conditioner. Two incorporations are required under conditions which prevent optimum soil mixing such as excessive trash, roughness, high clay content or soil moisture.
5. **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.
6. **Mulch Treader (other similar disc-type implements):** Set to cut 3-4 inches deep and operate at 5 to 8 mph.
7. **P.T.O. Driven Equipment (tillers, cultivators, hoes):** Adjust to incorporate Trellan 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.
8. **Other Equipment:** Other implements including a flexible tine-tooth harrow (Flexline or Mekroe), sweep-type cultivator or rolling cultivator are recommended, but only for certain uses defined in the "Approved Crops" section of this label.

Weeds Controlled

The following weeds are controlled by preplant incorporated treatments of Trellan TR-10.

Grasses:

<u>Common Name</u>	<u>Scientific Name</u>
Annual bluegrass	<i>Poa annua</i>
Barnyardgrass (Watergrass)	<i>Echinochloa crus-galli</i>
Bromegrass (Cheatgrass) (Downy brome)	<i>Bromus tectorum</i>
Crabgrass (Large crabgrass) (Smooth crabgrass)	<i>Digitaria spp.</i>
Foxtail (Bottlegrass) (Bristlegrass) (Giant foxtail) (Green foxtail) (Foxtail millet) (Pigeongrass) (Robust foxtail) (Yellow foxtail)	<i>Setaria spp.</i>
Johnsongrass (from seed)	<i>Sorghum halepense</i>
Junglerice	<i>Echinochloa colonum</i>
Ryegrass, annual	<i>Lolium multiflorum</i>
Sandbur (Burgess)	<i>Cenchrus incertus</i>

Signalgrass, broadleaf (Brachiaria)	<i>Brachiaria platyphylla</i>
Sprangletop	<i>Leptochloa filiformis</i>
Stinkgrass (Lovegrass)	<i>Eragrostis cilianensis</i>
Shattercane (Wild cane)	<i>Sorghum bicolor</i>
Oat, wild	<i>Avena fatua</i>
Woolly cupgrass	<i>Eriochloa villosa</i>

Broadleaf Weeds:

<u>Common Name</u>	<u>Scientific Name</u>
Carpetweed	<i>Mollugo verticillata</i>
Chickweed, common	<i>Stellaria media</i>
Goosefoot	<i>Chenopodium hybridum</i>
Henbit	<i>Lamium amplexicaule</i>
Knotweed	<i>Polygonum aviculare</i>
Lambsquarters, common	<i>Chenopodium album</i>
Pigweed (Carelessweed) (Prostrate pigweed) (Redroot pigweed) (Rough pigweed) (Spiny pigweed)	<i>Amaranthus spp.</i>
Puncturevine (Western U.S. only) (Caltrop) (Goathead)	<i>Tribulus terrestris</i>
Purslane, common	<i>Portulaca oleracea</i>
Pusley, Florida (Florida purslane) (Mexican clover) (Pusley)	<i>Richardia scabra</i>
Stinging nettle (Nettle)	<i>Urtica dioica</i>

1. Trellar: applied as a preplant incorporated (PPI) treatment will provide partial control of wild oats. This claim is for all PPI uses except for fall application for spring seeded cereals at foxtail (pigeongrass) control rates.

Approved Crops**Alfalfa - Established**

Apply Trellan TR-10 to established alfalfa prior to weed emergence with ground or aerial equipment. A single rainfall or overhead sprinkler irrigation of 0.5 inches or more, flood irrigation or furrow irrigation after application is required to activate Trellan TR-10. If activated using furrow irrigation, the surface of beds between furrows should be thoroughly wetted. If activation does not occur within 3 days after application, Trellan should be activated using incorporation equipment that will insure thorough soil mixing with minimum damage to the established alfalfa.

Weeds Controlled In Established Alfalfa: Barnyardgrass, brome grass (cheatgrass, downy brome) canarygrass, cheat (chess), crabgrass, woolly cupgrass, foxtail, junglerice, sandbur, and wild barley.

Application Rate per Acre: Apply Trellan TR-10 at a rate of 20 pounds per acre for all soil textures.

Application Timing : Trellan TR-10 may be applied during dormancy or throughout the growing season immediately after a cutting. Because Trellan does not control established weeds, application must be made prior to the expected time of weed germination.

Fall Application: Apply immediately after a cutting between August 1 and October 1. When fall applied, Trellan controls brome grass and cheat in addition to other weeds listed above that germinate after application. Brome grass and cheat begin to germinate in the fall with the onset of cooler weather.

Precaution:

In the season following a 20 pound per acre Trellan TR-10 treatment, where established alfalfa is to be rotated to another crop, plant only those crops for which Trellan can be applied as a preplant incorporated treatment or crop injury may result.

Asparagus

Apply Trellan TR-10 to established asparagus as a single or split application. Trellan will suppress volunteer seedling asparagus and field bindweed when recommendations for rates, application and timing are followed. Follow recommended soil preparation, application and incorporation procedures for Trellan TR-10.

Application Timing : Apply in winter or early spring after mature ferns have been removed, but before new spears begin to emerge.

Apply post-harvest applications immediately after harvest in late spring or early summer just before ferns are allowed to develop.

Broadcast Application Rates/Acre:

Soil Texture	Trellan TR-10	
	Split Application Before and After Harvest	Single Application Before or After Harvest
Coarse	5.0 + 5.0	10
Medium	7.5 + 7.5	15
Fine	10 + 10	20

- Do not apply more than 10 pounds per acre on coarse soils, 15 pounds per acre on medium soils or 20 pounds per acre on fine soils during the calendar year.

Beans - Dry

Apply and incorporate Trellan TR-10 in the spring before planting or in the fall. See instructions for fall application of Trellan TR-10 under the heading "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:

Soil Texture	Trellan TR-10 (pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	7.5 - 10

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.
- Fine soils with 2-5% organic matter - 10 pounds.
- All soils with 5-10% organic matter - 10 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Beans - Guar and Mungbean

Apply and incorporate Treflan TR-10 before planting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10
	(pounds)
Coarse	5
Medium	7.5
Fine	7.5

- All soils with 2-5% organic matter - 7.5 pounds.

Beans - Lima and Snap Bean

Apply and incorporate Treflan TR-10 before planting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10
	(pounds)
Coarse	5
Medium	5
Fine	7.5

- All soils with 2-5% organic matter - 7.5 pounds.

Carrots

Apply and soil incorporate Treflan TR-10 before planting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10
	(pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	7.5 - 10

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.
- Fine soils with 2-5% organic matter - 10 pounds.
- All soils with 5-10% organic matter - 10 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Castor Beans

Apply and soil incorporate Treflan TR-10 before planting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10
	(pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	7.5 - 10

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.
- Fine soils with 2-5% organic matter - 10 pounds.
- All soils with 5-10% organic matter - 10 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Celery

Apply as a soil incorporated treatment. Treflan TR-10 may be applied to direct seeded or transplant celery before planting, at planting or immediately after planting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	7.5 - 10

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.
- Fine soils with 2-5% organic matter - 10 pounds.
- All soils with 5-10% organic matter - 10 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Chicory/Endive

Apply and soil incorporate Treflan TR-10 before planting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	7.5
Fine	10

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds
- Fine soils with 2-5% organic matter - 10 pounds
- Soils with 5-10% organic matter - 10 to 12.5 pounds

Cole Crops - Broccoli, Brussels Sprout Cabbage and Cauliflower

Direct Seeded Cole Crops:

Apply and incorporate Treflan TR-10 before planting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	5
Fine	7.5

- All soils with 2-5% organic matter - 7.5 pounds.

Precaution:

Direct seeded cole crops exhibit marginal tolerance to higher than recommended rates of Treflan. Stunting or reduced stands may occur.

Transplanted Cole Crops:

Apply and incorporate Treflan TR-10 before transplanting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	7.5 - 10

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- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.
- Fine soils with 2-5% organic matter - 10 pounds.
- All soils with 5-10% organic matter - 10 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Corn - Field Corn Only

Treflan TR-10 may be applied as a postemergence treatment following the use of a preemergence herbicide. Uniformly apply to the soil surface when crop is well established (2 true leaf stage or taller), or immediately after a cultivation, up to a height of 30 inches. Treflan does not control established weeds.

Incorporation Directions: In corn, Treflan TR-10 should be incorporated within 24 hours after application. Incorporation may be accomplished with one pass of a sweep-type cultivator or properly adjusted rolling cultivator. The sweep-type cultivator should have 3 to 5 sweeps per row middle and be operated at a speed that will provide maximum soil movement. Set middle sweeps so as to avoid exposing untreated soil. Adjust incorporation equipment so as to avoid mechanical injury to the crop.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	3.75 - 5*
Medium	5 - 7.5
Fine	7.5 - 10

* Apply 5 to 7.5 pounds per acre on coarse soils in Alabama, Florida, Georgia, North Carolina, South Carolina and Virginia to control fall panicum and Texas panicum.

- Apply lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Precautions:

- Do not apply Treflan TR-10 to sweet corn or corn grown for seed.
- Do not apply Treflan TR-10 as a preplant or preemergence treatment or crop injury may occur.

Cotton

Apply and incorporate Treflan TR-10 before or at planting, immediately after planting, at layby or in the fall. When incorporating Treflan TR-10 after planting (postplant) be careful not to disturb the seed.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10		
	Spring ¹ Application (pounds)	Fall Application	
		Eastern U.S. ² (pounds)	Western U.S. ³ (pounds)
Coarse	5	10	7.5
Medium	6.25 - 7.5	10	10
Fine	7.5 - 10	12.5	12.5

1. Spring Application:

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.
- Fine soils with 2-5% organic matter - 10 pounds.
- All soils with 5-10% organic matter - 10 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

2. Fall Application: Use Rates for Eastern Cotton Producing Areas Including: Alabama, Arkansas, northern Florida, Georgia, Louisiana, Mississippi, southeastern Missouri (Bootheel), North Carolina, New Mexico, Oklahoma, South Carolina, Tennessee and Texas.

3. Fall Application: Use Rates for Western Cotton Producing Areas Including: Arizona, California and Nevada.

For cotton grown in areas other than those listed above, fall apply Treflan TR-10 at broadcast rates recommended for areas receiving greater than 20 inches of annual rainfall and irrigation.

Cotton - Layby Treatment: Apply and incorporate Treflan TR-10 any time up to layby, but not less than 90 days before harvest. Apply so as to achieve a uniform distribution of granules on the soil surface beneath cotton plants. Use the same rates as for preplant incorporated treatments. Soil incorporate using one pass of a sweep-type cultivator or properly adjusted rolling cultivator. Operate cultivation equipment at speeds sufficient to provide vigorous soil mixing and exercise care to avoid mechanical injury to the crop.

Preemergence Overlay Applications Following Treflan TR-10: Apply Treflan as a preplant incorporated treatment. Additional weeds tolerant to Treflan may be controlled using overlay applications of Cotoran, Karmex, Zorial or other products registered for use on cotton. Such applications may be made unless use following a Treflan application is specifically prohibited by the product label. Consult the overlay product label for additional weeds controlled, directions for use, cautions and limitations before use.

Postemergence Applications Following Treflan TR-10: Apply Treflan as a preplant incorporated treatment. Additional weeds tolerant to Treflan may be controlled using postemergence applications of products registered for use on cotton. Such treatments may be made unless use following a Treflan application is specifically prohibited by the product label. Consult the postemergence product label for additional weeds controlled, directions for use, cautions and limitations before use.

Cucurbits - Cantaloupe, Cucumber and Watermelon

Postemergence Application Only

Apply and incorporate Treflan TR-10 when plants have reached the 3 to 4 true leaf stage of growth. Set incorporation equipment to move treated soil around the base of plants during incorporation.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	7.5 - 10

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.
- Fine soils with 2-5% organic matter - 10 pounds.
- All soils with 5-10% organic matter - 10 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Flax - Fall Application Only

Apply and incorporate Treflan TR-10 in the fall between September 1 to December 31 in California, Minnesota, North Dakota and South Dakota, and between October 15 and December 31 in other states. Refer to instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	7.5
Fine	10

Special Instructions for Flax

1. Incorporation operations or other tillage performed in the spring prior to seeding should be relatively shallow so as to maintain a firm seedbed. The seedbed should be packed just prior to seeding.
2. Seeding should be done with a press drill or hoe drill. Seed into moist seedbed no more than 1" inches deep.
3. Flax should not be seeded until the seedbed has warmed up.

Forage Legumes Used as Cover Crops or in the Acreage Reserve Conservation Program.

Apply Treflan as a preplant incorporated treatment

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	5.0 - 7.5
Fine	7.5

- Apply lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Precautions:

- If used under the Acreage Conservation Reserve Program, follow the most severe grazing restrictions imposed by the USDA Conservation Use Program. Consult the local ASCS committee or other State Agency to determine the period of the USDA grazing restriction.
- Some crop stand reduction may occur with this use; however, reduced weed competition will allow establishment of a quality stand.

Grain Sorghum

Treflan TR-10 may be applied as a postemergence treatment following the use of a preemergence herbicide. Uniformly apply to the soil surface when grain sorghum is 8 inches tall or taller. Treflan does not control established weeds.

Soil Preparation: Cultivate before application to remove established weeds and cover the base of plants with soil. Set cultivation equipment to add approximately one inch of soil to the base of sorghum plants.

Activation and Incorporation Directions: In grain sorghum, Treflan TR-10 should be incorporated within 24 hours after application. Incorporation may be accomplished with one pass of a sweep-type cultivator or properly adjusted rolling cultivator. The sweep-type cultivator should have 3 to 5 sweeps per row middle and be operated at a speed sufficient to provide vigorous soil mixing. Set middle sweeps so as to avoid exposing untreated soil. Adjust incorporation equipment so as to avoid mechanical injury to the crop.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	4 - 5
Medium	5 - 7.5
Fine	7.5 - 10

- Apply lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Greens - Turnip Greens Grown for Processing, Collard, Kale and Mustard Greens

Apply to greens as a preplant incorporated treatment.
Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	7.5
Fine	7.5

Hops

Apply and incorporate Treflan TR-10 to established hops during dormancy. Incorporate once using incorporation equipment that will insure thorough soil mixing with minimal damage to crop stand.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	6.25 - 7.5

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.

Mustard Grown for seed or processing for food in Minnesota, North Dakota and South Dakota

Apply and incorporate Treflan TR-10 before planting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	7.5
Fine	7.5

Okra

Apply and incorporate Treflan TR-10 before planting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	7.5 - 10

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.
- Fine soils with 2-5% organic matter - 10 pounds.
- All soils with 5-10% organic matter - 10 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Peas - Dry and English Peas

Apply and incorporate Treflan TR-10 in the spring before planting or in the fall. Refer to instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10	
	Spring Application	Fall ¹ Application
	(pounds)	(pounds)
Coarse	5	5
Medium	5	6.25 - 7.5
Fine	7.5	7.5

¹ Treflan TR-10 may be fall applied to Dry and English Peas in Washington.

in the states of Idaho, Oregon and

Peas - Southern Peas

Apply and incorporate Treflan TR-10 before planting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10
	(pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	7.5 - 10

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.
- Fine soils with 2-5% organic matter - 10 pounds.
- All soils with 5-10% organic matter - 10 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Peanuts - Spanish Peanut, Florunner and Florigiant Varieties
(For Use in Texas, Oklahoma and New Mexico)

Apply and incorporate Treflan TR-10 before planting, at planting or immediately after planting. When incorporating after planting, take care not to disturb the seed.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10
	(pounds)
Coarse	5
Medium	7.5

Peppers

Apply and incorporate Treflan TR-10 prior to transplanting. Do not apply after transplanting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10
	(pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	7.5 - 10

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.
- Fine soils with 2-5% organic matter - 10 pounds.
- All soils with 5-10% organic matter - 10 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Potatoes **(Not for Use in the State of Maine)**

Apply and incorporate Treflan TR-10 after planting prior to crop emergence, immediately following dragoff, or after potato plants have fully emerged.

Incorporation: Set incorporation equipment so that the bed and furrow are uniformly covered with a layer of treated soil. If the layer of treated soil is not uniform and the herbicide is concentrated over the bed, potato emergence may be retarded and stem brittleness can occur. When applying and incorporating Treflan TR-10 after potato plants have fully emerged, do not completely cover the foliage with treated soil. Likewise, do not completely cover foliage during subsequent cultivations. Be careful that incorporation equipment does not damage seed pieces or elongating sprouts.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10
	(pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	7.5 - 10

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.
- Soils with 5-10% organic matter - 10 pounds.
- Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Rapeseed (Canola)

Apply and incorporate Treflan TR-10 in the spring or in the fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label. Do not apply to rapeseed (canola) in the state of Alaska.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10
	(pounds)
Coarse	5
Medium	7.5
Fine	10

Safflower

Apply and incorporate Treflan TR-10 in the spring before planting, or in the fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10	
	Spring¹	Fall²
	Application	Application
	(pounds)	(pounds)
Coarse	5	7.5
Medium	6.25 - 7.5	10
Fine	7.5 - 10	12.5

¹Spring Application:

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.
- Fine soils with 2-5% organic matter - 10 pounds
- All soils with 5-10% organic matter - 10-12.5 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

²Treflan TR-10 may be fall applied to Safflower in Arizona, California, Idaho, Nevada, Oregon, Utah, Washington and Wyoming.

Small Grains - Barley, Durum and Wheat

General Information

Special Precautions for Use of Treflan on Small Grains: Carefully follow directions for use of Treflan on small grains to minimize potential crop stress. Under certain conditions, delayed crop emergence and or stand reduction may occur when Treflan is applied to barley, durum or wheat. The combined effect of certain cultural practices and unfavorable soil or environmental conditions may cause excessive crop seedling stress resulting in retarded crop growth, stand reduction and possibly reduced yield. For best results, observe the following cultural practices or precautions:

- Use tillage methods that provide a uniformly firm seedbed and time tillage operations to conserve soil moisture.
- If irrigation is used, irrigate prior to planting or after germination and emergence. Moisture received between planting and emergence may cause crusting, especially on loose, friable seedbeds.
- Do not exceed recommended application rates for Treflan. This is particularly important on coarse textured or low organic matter soils.
- Carefully follow incorporation directions. For preplant incorporated treatments, operate equipment at recommended depth and speed to place Treflan into the upper 1 to 1 1/2 inches of soil. If applied after planting, set equipment so as to not disturb planted seed.
- Set drills to place seed at a depth of 1 1/2 to 2 inches. A planting depth greater than 2 1/2 inches for spring wheat or durum will result in increased seedling stress and decreased emergence.
- Use only high quality seed where Treflan is to be applied (avoid use of small seed with low starch reserves).
- If seed treatments are used, apply at the correct rate and uniformly across all seeds. Misapplication could result in reduced germination and/or seedling vigor.
- Avoid use of seed varieties known to have poor seedling (emergence) vigor.
- Do not fall apply Treflan in combination with any other preplant incorporated herbicide.

Soil characteristics and environmental conditions which may contribute to crop seedling stress that may be accentuated by use of Treflan include:

- Soil related - High salinity, eroded knolls/hilltops, compaction and loose dry soils.
- Weather related - Cold and/or wet soils, excessively hot soils, excessive moisture, drought, and soil crusting from heavy rainfall.

Note: Do not apply Treflan on small grains where a dinitroaniline herbicide such as Treflan was applied at a rate recommended for row crops (oil seeds) during the previous growing season.

Incorporation Directions and Equipment for Small Grains

Use incorporation equipment in the manner described below unless otherwise specified in use directions. Any of the following implements listed below may be used for the first incorporation of Treflan TR-10. Use only the disc or field cultivator for the second incorporation pass and incorporate in a different direction. Poor weed control may result if untreated soil is moved to the surface during the second incorporation pass. To avoid this problem, the second incorporation should not be deeper than the first.

1. **Chisel Plow:** May be used for the first incorporation pass only. Operate at 4 to 5 inches deep and at 4 to 6 mph. A chisel plow is defined as having 3 rows of 14 to 18 inch sweeps on no greater than 12 inch centers. Stagger sweeps so that no soil is left unturned. Use of chisel points may result in inadequate soil mixing.
2. **Tandem Disc:** Operate at 3 to 4 inches deep and at 4 to 6 mph.
3. **Field Cultivator:** Operate at 3 to 4 inches deep and at 5 or more mph. A field cultivator is defined as having 3 to 4 rows of sweeps with "c" or "s" shaped shanks on no greater than 7 inch centers. Stagger sweeps so that no soil is left unturned.

**Spring Seeded Barley -- Fall Application for General
Weed Control During the Following Season
(For Use in Minnesota, North Dakota and South Dakota)**

For general weed control (except for special rate or use programs) in Minnesota, North Dakota and South Dakota.

Apply in the fall for general weed control during the following growing season. Incorporate one time within 24 hours. Incorporate a second time before planting to destroy existing weeds and insure uniform distribution of Treflan in treated soil. For best weed control results, the second incorporation should occur at least 7 days after the first.

Note: See recommendations on incorporation and incorporation equipment at the beginning of the "Small Grains" section.

Planting Directions: Set planting equipment to place seed approximately 2 inches deep.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	7.5
Fine	7.5

Treflan TR-10 applied at 7.5 pounds per acre will provide partial control or suppression of kochia and Russian thistle

Precaution:

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

**Spring Seeded Barley -- Spring Application for
Foxtail (Pigeongrass) Control
(For Use in Minnesota, North Dakota and South Dakota)**

Apply in the spring as a preplant incorporated treatment for foxtail (pigeongrass) control in spring seeded barley.

Incorporate one time within 24 hours. Incorporate a second time before planting to destroy existing weeds and insure uniform distribution of Treflan in treated soil. For best weed control results, the second incorporation should occur at least 7 days after the first.

Note: See recommendations on incorporation and incorporation equipment at the beginning of the "Small Grains" section.

Planting Directions: Set planting equipment to place seed approximately 2 inches deep.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	5
Fine	5

Precaution:

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

**Spring Seeded Barley -- Spring Application for Foxtail
(Pigeongrass) Control in Barley Used as a Cover Crop or
in the Acreage Conservation Reserve Program
(For Use in Minnesota, North Dakota and South Dakota)**

Apply in the spring as a preplant incorporated treatment for foxtail (pigeongrass) control in spring seeded barley used as a cover crop or to acreage in the conservation reserve programs.

Incorporate one time within 24 hours. Incorporate a second time before planting to destroy existing weeds and insure uniform distribution of Treflan in treated soil. For best weed control results, the second incorporation should occur at least 7 days after the first.

Note: See recommendations on incorporation and incorporation equipment at the beginning of the "Small Grains" section.

Planting Directions: Set planter equipment to place seed approximately 2 inches deep.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	7.5
Fine	7.5

Precaution:

Use of this practice may result in a slight stand reduction. Follow the most severe grazing restrictions imposed by either the Treflan label or the USDA Acreage Conservation Reserve Program, whichever is longest. Consult the local ASCS office or other state agency to determine the period of the USDA grazing restriction.

**Spring Seeded Wheat or Durum -- Fall Application
for Foxtail (Pigeongrass) Control During the
Following Growing Season**

Apply in the fall for foxtail (pigeongrass) control during the following growing season. Incorporate one time within 24 hours. Incorporate a second time before planting to destroy existing weeds and insure a uniform distribution of Treflan in treated soil.

Note: See recommendations on incorporation and incorporation equipment at the beginning of the "Small Grains" section.

Planting Directions: Set planting equipment to place seed approximately 2 inches deep.

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Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	5
Fine	7.5

Precaution:

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

Winter Wheat -- Treflan Preplant Incorporated for Control of Cheatgrass and Other Annual Grasses (For Use in Idaho, Oregon and Washington)

Apply Treflan TR-10 as a preplant incorporated treatment up to 3 weeks before planting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	7.5
Medium	7.5
Fine	10

Incorporation Directions: Incorporate Treflan TR-10 with a flexible tine-tooth harrow (Flexline or Melroe), set to cut 1 to 2 inches deep and operated at 3 to 6 mph. Thorough incorporation requires 2 incorporation passes over the field in different directions. Incorporate 1 time within 24 hours after application. A second incorporation pass prior to planting should occur at least 5 days after the first. Do not till the soil with a disc after Treflan has been incorporated with a flexible tine harrow.

Planting Directions: Use only a deep furrow or semi-deep furrow drill that will place the seed below the zone into which Treflan has been incorporated.

Precaution:

Do not plant wheat directly into the zone of soil treated with Treflan as crop injury (delayed emergence or stand reduction) may occur. Delayed emergence or slight stand reduction does not normally affect yield.

Winter Wheat -- Fallow Soil Application of Treflan for Annual Grass Control Prior to Planting (For Use in Idaho, Oregon and Washington)

Apply and shallowly incorporate Treflan up to 4 months before planting to control cheatgrass and certain other annual grasses and broadleaf weeds during the fallow period and during the following growing season. Apply any time from May to September prior to fall planting of winter wheat.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	7.5
Medium	7.5
Fine	10

Incorporation Directions: Incorporate Treflan TR-10 with a flexible tine-tooth harrow (Flexline or Melroe), set to cut 1 to 2 inches deep and operated at 3 to 6 mph. Thorough incorporation requires 2 incorporation passes over the field in different directions. Incorporate 1 time within 24 hours after application. A second incorporation pass prior to planting should occur at least 5 days

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after the first. Do not till the soil with a disc after Trellan has been incorporated with a flexible tine harrow.

Planting Directions: Use only a deep furrow or semi-deep furrow drill that will place the seed below the zone into which Trellan has been incorporated.

Precaution:

Do not plant wheat directly into the zone of soil treated with Trellan as crop injury (delayed emergence or stand reduction) may occur. Delayed emergence or slight stand reduction does not normally affect yield.

Summer Fallow Weed Control With Trellan Followed by Spring Seeded Wheat, Durum or Barley

Trellan may be applied to coarse, medium and fine textured soils for control of labeled weeds in the summer fallow period and for pigeongrass (foxtail) control in wheat, durum and barley seeded the following spring.

Trellan TR-10 may be applied to standing stubble or land which has been fallowed or pretilled. Existing weeds, surface trash or crop litter should be reduced by tillage if present in quantities that will prevent uniform soil incorporation. The first incorporation is required within 24 hours after application. The second incorporation may occur in conjunction with tillage to destroy resistant weed growth during the remainder of the fallow year. During the fallow year, susceptible weeds may not be controlled until after the second incorporation.

Broadcast Application Rates/Acre:

Application Date	Trellan TR-10	
	Areas with Less than 10 inches annual rainfall	All Other Areas
	(pounds)	(pounds)
Apr. 15-Apr. 30	8.75	10
May 1-May 31	8.75 - 7.5	10 - 8.75
June 1-June 30	7.5 - 6.25	8.75 - 7.5
July 1-July 31	6.25 - 5	7.5 - 6.25
Aug. 1-Aug. 31	5	6.25 - 5

Where a rate range is shown, use the higher rate per acre during the early part of an application period and the lower rate per acre during the latter part of an application period.

Incorporation: See recommendations on incorporation and incorporation equipment at the beginning of the "Small Grains" section.

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

Precaution:

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

Soybeans

Apply and incorporate Treflan TR-10 in the spring prior to planting or in the fall. See instructions for fall application under "Application Timing" in the "General Information" section of this label.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10	
	Spring ¹ Application	Fall ² Application
	(pounds)	(pounds)
Coarse	5	10
Medium	7.5	10
Fine	10	12.5

¹Spring Application:

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.
- Fine soils with 2-5% organic matter - 10 pounds
- All soils with 5-10% organic matter - 10-12.5 pounds.

²Fall application use rates for soybeans grown in Alabama, Arkansas, Northern Florida, Georgia, Louisiana, Mississippi, southeastern Missouri (Bootheel), North Carolina, Oklahoma, South Carolina, Tennessee and Texas. For soybeans grown in areas other than those listed above, fall apply Treflan TR-10 at broadcast rates recommended for areas receiving greater than 20 inches of annual rainfall and irrigation.

Precaution:

Do not fall apply Treflan TR-10 in the fall to soils which are wet or subject to prolonged periods of flooding, or where rice was grown the previous year.

Preemergence Overlay Applications Following Treflan TR-10: (Not for Use In California)

Apply Treflan as a preplant incorporated treatment. Additional weeds tolerant to Treflan may be controlled using preemergence overlay applications of Canopy, Dual, Genini, Lasso, Lexone, Lorox, Lorox Plus, Preview, Pursuit(1), Scepter(2), Sencor or other products registered for use on soybeans. Such treatments may be made, unless use following a Treflan application is specifically prohibited by the product label. Consult the overlay product label for additional weeds controlled, directions for use, cautions and limitations before use.

1. The use of Pursuit is limited to certain states. Use Pursuit as an overlay treatment following Treflan only in states specified on the Pursuit label.
2. Use of Scepter is limited to certain states. Do not use Scepter as a preemergence overlay application following a Treflan preplant incorporated treatment in the "Northern Use Area" as defined by the Scepter label.

Postemergence Treatments Following Treflan TR-10: (Not for Use In California)

Apply Treflan as a preplant incorporated treatment. Additional weeds tolerant to Treflan may be controlled using postemergence applications of Basagran, Blazer, Classic, Cobra, Galaxy, Pinnacle, Pursuit(1), Reflex, Scepter(2), Storm, Tackle, or other products registered for use on soybeans. Such treatments may be made, unless use following a Treflan application is specifically prohibited by the product label. Consult the overlay or postemergence product label for additional weeds controlled, directions for use, cautions and limitations before use.

1. Use of Pursuit is limited to certain states. Use Pursuit as a postemergence treatment following Treflan only in states specified in the Pursuit label.

2. Use of Scepter is limited to certain states. Do not use the Scepter as a postemergence application following a Trellan preplant incorporated treatment in the "Northern Use Area" as defined by the Scepter label.

Sugarbeets

Apply and incorporate Trellan TR-10 when sugar beets are 2-6 inches tall.

Precautions:

Exposed sugar beet roots should be covered with soil before applying Trellan to reduce the possibility of girdling. When incorporating, set equipment to move treated soil into the row. Set incorporation equipment carefully so as to prevent damage to sugar beet tap root.

Broadcast Application Rates/Acre:

Soil Texture	Trellan TR-10 (pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	6.25 - 7.5

Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Sugarcane

Apply and incorporate Trellan TR-10 twice a year. Make the first application in the fall on firmly packed beds immediately after the seed pieces are planted. Make a second application in the spring before or shortly after the cane emerges. Loosen rain-packed beds 2-3 inches deep before spring application. Take care that incorporation equipment does not damage the seed pieces or emerging shoots.

Broadcast Application Rates/Acre:

Soil Texture	Trellan TR-10 (pounds)
All Soil Textures	10 - 20

Application rate range may be adjusted according to weed pressure.

Sugarcane -- Applications Up to Layby for Plant Cane or Ratoon Cane (For Use In Louisiana and Texas)

Apply and incorporate Trellan TR-10 in the spring from shortly before or after cane emergence until layby. Apply after beds have been shaved or false shaved. Loosen rain-packed beds 2-3 inches deep before application. Avoid incorporation equipment damage to seed pieces or emerging shoots. Incorporate with a rolling cultivator or bed chopper for all soil textures. Set rolling cultivator to cut 2 to 4 inches deep and operate at 6 to 8 mph. Set bed chopper to cut 3 to 4 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary.

Broadcast Application Rates/Acre:

Soil Texture	Trellan TR-10 (pounds)
All Soil Textures	10 - 20

Application rate range may be adjusted according to weed pressure.

Sugarcane -- Itchgrass (Raoulgrass) Control (For Use In Louisiana)

Apply and incorporate Trellan TR-10 on plant or ratoon cane. Follow use directions in preceding section for layby application.

Sunflower

Apply and incorporate Treflan TR-10 in the spring or in the fall between September 15 and December 31 in California, Minnesota, North Dakota and South Dakota, and between October 15 and December 31 in other states.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	7.5 - 10

- Coarse and medium soils with 2-5% organic matter - 7.5-10 pounds.
- All soils with 5-10% organic matter - 10 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Tomato

For direct seeded tomato, apply Treflan TR-10 at blocking or thinning to the soil between rows and beneath plants and incorporate. For transplant tomato, apply and incorporate prior to transplanting only. Do not apply Treflan TR-10 after transplanting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	7.5 - 10

- Coarse and medium soils with 2-5% organic matter - 7.5 pounds.
- Fine soils with 2-5% organic matter - 10 pounds.
- All soils with 5-10% organic matter - 10 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Tree and 'vine Crops - Citrus, Fruit and Nut Crops and Vineyards

Application to New Plantings of Citrus, Fruit and Nut Crops:

For new plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine and walnut trees, apply and incorporate Treflan TR-10 before planting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5
Medium	6.25 - 7.5
Fine	7.5

- All soils with 2-5% organic matter - 7.5-10 pounds.
- All soils with 5-10% organic matter - 10 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Vineyards - Application to New Plantings:

For new plantings of vineyards, apply and incorporate Treflan before planting.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5 - 7.5
Medium	7.5 - 15
Fine	15 - 20

- All soils with 2-10% organic matter - 15-20 pounds.
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

Note: Do not use more than 10 pounds per acre on heat treated grape rootings.

Application to Established Non-bearing and Bearing Citrus, Fruit and Nut Crops and Vineyards:

Treflan TR-10 may be applied in established non-bearing and bearing vineyards and plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine and walnut trees. In established plantings, apply to the soil surface and use incorporation methods not injurious to the crop. Do not apply to vineyards within 60 days of harvest.

Broadcast Application Rates/Acre:

Soil Texture	Treflan TR-10 (pounds)
All Soils	10 - 20

Use the higher rate in the rate range for longer term weed control.

WARRANTY DISCLAIMER

DowElanco warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. **DowElanco makes no other express or implied warranty of merchantability or fitness for a particular purpose or any other express or implied warranty.**

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to the label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowElanco or the seller. All such risks shall be assumed by the buyer.

LIMITATION OF REMEDIES

The exclusive remedy for losses or damages resulting from the use of this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElanco's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

DowElanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing. In no case shall DowElanco be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowElanco or the

seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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DowElanco
Quad IV, 9002 Purdue Road
Indianapolis, IN 46268-1189, U.S.A.

Revised 04/26/91

Supplemental Labeling



DowElanco

Quad IV, 9002 Purdue Road

P.O. Box 681428

Indianapolis, Indiana 46268-1189 USA

TREFLAN® TR-10 (EPA Reg. No. 62719-131)
(For Distribution and Use Only in the State of Montana)

**Treflan for Weed Control in Barley,
Rapeseed (Canola), Safflower and Sunflower**

- This labeling must be in possession of the user at the time of application.
- Refer to the TREFLAN TR-10 label for weeds controlled, additional use directions, precautions and limitations before use.

Apply and incorporate TREFLAN TR-10 in the spring before planting or in the fall after September 1. Follow soil preparation, application and incorporation procedures recommended on the TREFLAN TR-10 label.

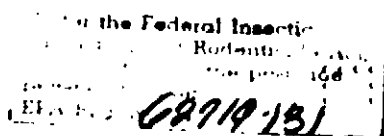
Broadcast Application Rates/Acre:

Soil Texture	TREFLAN TR-10 (pounds)
Coarse	5.0
Medium	7.5
Fine	10.0

Use 7.5 to 10.0 pounds per acre on coarse and medium soils with 2-5% organic matter.

Precautions:

Rotational Crop Restriction: Plant only barley, rapeseed (canola), safflower or sunflower as a rotational crop in the year following the crop treated with TREFLAN. If one of these specified rotational crops is not planted, the land should be left idle or fallow for the entire crop year following the crop treated with TREFLAN.



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T2EAGXXX Approved 00/00/00

Revisions: Barley added to TREFLAN TR-10.
uses approved for Montana.
Replaces: EAXXXX

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Supplemental Labeling



DowElanco

Quad IV, 9002 Purdue Road

P.O. Box 681428

Indianapolis, Indiana 46268-1189 USA

TREFLAN® TR-10 (EPA Reg. No. 62719-131)
(For Distribution and Use Only in the State of Montana)

Spring Applied Treflan for Foxtail (Pigeongrass) Control In Spring Seeded Barley Grown Under Irrigation

- This labeling must be in possession of the user at the time of application.
- Refer to the Treflan TR-10 label for weeds controlled, additional use directions, precautions and limitations before use.

Treflan TR-10 may be spring applied as a preplant incorporated treatment for foxtail (pigeongrass) control in spring seeded barley grown under irrigated conditions in Montana. Treflan TR-10 may be applied to ground that has a manageable trash level or has been fallowed or pretilled. The first incorporation is required within 24 hours after application. The second incorporation is required prior to planting to destroy emerged weeds and to ensure even distribution of Treflan TR-10 in treated soil.

Broadcast Application Rate: Apply Treflan TR-10 at a rate of 5 pounds per acre regardless of soil texture or soil organic matter content. Do not exceed this application rate as crop injury may occur.

Incorporation Directions

The following tools are recommended for soil incorporation:

1. **Chisel Plow alone or Chisel Plow with a Rod Weeder attached:** A chisel plow alone should be used for the first incorporation pass only. With rod weeder attached, the chisel plow may be used for both incorporation passes. Operate 4 to 5 inches deep and at 4 to 6 mph. A chisel plow is defined as having three rows of up to 18 inch sweeps on no greater than 12 inch centers. Stagger successive rows of sweeps to ensure that no soil is left unturned.
2. **Tandem Disc:** Operate 3 to 4 inches deep and at 4 to 6 mph.
3. **Field Cultivator:** Operate 3 to 4 inches deep and at 5 or more mph. A field cultivator is defined as having 3 to 4 rows of sweeps with "C" or "S" shaped shanks spaced at intervals of 7 inches or less. Stagger successive rows of sweeps to ensure that no soil is left unturned.

Planting Directions

Plant barley 1 to 2 inches deep. Planting greater than 2 inches deep will result in increased seedling stress and decreased emergence.

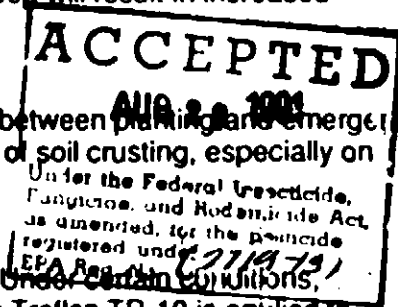
Irrigation Directions

Irrigate prior to planting, or after crop emergence only. Irrigation between planting and emergence may cause reduced crop stands or delayed emergence because of soil crusting, especially on loose friable seedbeds.

Precautions

Carefully follow use directions to minimize potential crop stress. Under certain conditions, delayed crop emergence and or stand reduction may occur when Treflan TR-10 is applied to barley. The combined effect of certain cultural practices and unfavorable soil or environmental conditions may cause excessive crop seedling stress resulting in retarded crop growth, stand reduction and possibly reduced yield. For best results, observe the following cultural practices or precautions:

- Use tillage methods that provide a uniformly firm seedbed and time tillage operations to conserve moisture.



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- Do not exceed recommended application rates for Treflan TR-10. This is particularly important on coarse textured or low organic matter soils. ✓
- Use only high quality seed where Treflan TR-10 is to be applied (avoid use of small seed with low starch reserves). ✓
- If seed treatments are used, apply at the correct rate and uniformly across all seeds. Misapplication may result in reduced germination and/or seedling vigor. ✓
- Avoid use of seed varieties known to have poor seedling (emergence) vigor. ✓
- Do not fall apply Treflan TR-10 in combination with any other preplant incorporated herbicide. ✓

Soil characteristics and environmental conditions which may contribute to crop seedling stress that may be accentuated by use of Treflan TR-10 include: ✓

- Soil related - High salinity, eroded knolls/hilltops, loose dry soils and compaction. ✓
- Weather related - Cold and/or wet soils, excessively hot soils, excessive moisture, drought, and soil crusting from heavy rainfall. ✓

Note: Do not apply Treflan TR-10 on small grains where a dinitroaniline herbicide such as Treflan was applied at a rate recommended for row crops (oil seeds) during the previous growing season. ✓

Rotational Crop Planting Restrictions

Plant only barley (grown under irrigated conditions), rapeseed, safflower or sunflower as a rotational crop in the year following the crop treated with Treflan TR-10. If one of these specified rotational crops is not planted, the land should be left idle or fallow for the entire crop year following the crop treated with Treflan TR-10. ✓

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122-T2EAGXXX Approved ___/___/___

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U.S. Crop Production

Supplemental Labeling



DowElanco

Quad IV, 9002 Purdue Road

P.O. Box 681428

Indianapolis, Indiana 46268-1189 USA

Treflan* TR-10 (EPA Reg. No. 62719-131)

(For Distribution and Use Only in the State of Montana)

Treflan for Weed Control in Rapeseed (Canola), Safflower and Sunflower

- This labeling must be in the possession of the user at the time of application.
- Read the Treflan label for additional directions, precautions and limitations before use.

Apply and incorporate Treflan TR-10 in the spring before planting or in the fall after September 1. Follow soil preparation, application and incorporation instructions in the Treflan TR-10 label.

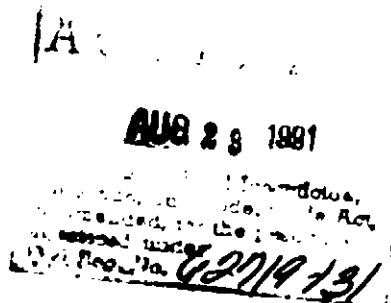
Broadcast Application Rates Per Acre:

Soil Texture	Treflan TR-10 (pounds)
Coarse	5.0
Medium	7.5
Fine	10.0

Use 7.5 to 10.0 pounds of Treflan TR-10 on coarse and medium soils with 2-5% organic matter.

Precautions:

Rotational Crop Planting Restriction: Plant only spring seeded barley (grown under irrigated conditions), rapeseed, safflower or sunflower as rotational crops in the crop year following the crop treated with Treflan. If one of these specified crops is not planted, the land should be left idle or fallow for the entire crop year following the crop treated with Treflan.



*Trademark of DowElanco

122-T2EAGXXX Replaces EAXXXX

Revisions:

- 1) Spring seeded barley grown under irrigated conditions added as rotational crop.
 - 2) New company name, address and EPA registration number added.
- This is an initial DowElanco printing.

Supplemental Labeling



DowElanco

Quad IV, 9002 Purdue Road

P.O. Box 681428

Indianapolis, Indiana 46268-1189 USA

TREFLAN® TR-10 (EPA Reg. No. 62719-131)
(For Use In North Dakota West of the Red River Valley
and in South Dakota)

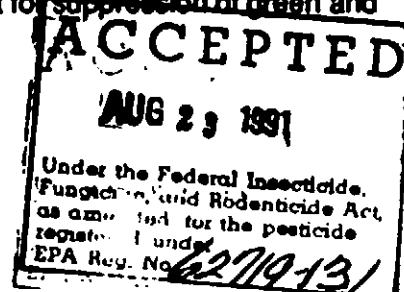
Treflan TR-10 Fall Applied, Preplant Incorporated, for Suppression of Foxtail (Pigeongrass) in Durum and Spring Wheat

- Carefully follow use directions and "Special Use Precautions for Small Grains" provided below.
- Refer to the Treflan TR-10 label for additional use directions, precautions and limitations before use.

Apply Treflan TR-10 in the fall as a preplant incorporated treatment for suppression of green and yellow foxtail (pigeongrass) in spring seeded wheat.

Broadcast Application Rates:

Soil Texture	Treflan TR-10 (pounds)
Coarse	3.5 - 4.0
Medium	3.5 - 4.0
Fine	5.0



Use the lower rate in the rate range where light weed pressure is anticipated.

Incorporation:

The first incorporation should occur within 24 hours after application. Incorporate a second time before planting to destroy existing weeds and insure uniform distribution of TREFLAN in treated soil. The second incorporation should be delayed 3 to 5 days after the first. To avoid bringing untreated soil to the surface, the second incorporation should not be deeper than the first. A chisel plow with sweeps may be used for the first incorporation pass only.

Incorporation Equipment:

1. Chisel plow (for first incorporation only): Operate at 3-4 inches deep and 4-6 mph. See description of a chisel plow in the Treflan TR-10 label under "Recommended Incorporation Equipment".
2. Field Cultivator: Operate at 3-4 inches deep and at 5 or more mph. See description of a field cultivator in the Treflan TR-10 label under "Recommended Incorporation Equipment".

Planting Directions:

Set equipment to place seed 1.5 to 2 inches deep.

Special Use Precautions for Small Grains:

Carefully follow directions for use of Treflan TR-10 in this supplemental labeling. Under certain conditions, delayed crop emergence and/or stand reduction may occur when Treflan TR-10 is applied to Wheat. The combined effect of certain cultural practices and unfavorable soil or environmental conditions may cause excessive crop seedling stress resulting in retarded crop growth, stand reduction and possibly reduced yield. For best results, observe the following cultural practices or precautions:

- Use tillage methods that provide a uniformly firm seedbed and time tillage operations to conserve moisture.

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- If irrigation is used, irrigate prior to planting or after germination and emergence. Moisture received between planting and emergence may cause crusting, especially on loose, friable seedbeds.
- Do not exceed recommended application rates for Trellan TR-10. This is particularly important on coarse textured or low organic matter soils.
- Carefully follow incorporation directions. When applying preplant incorporated treatments, operate equipment at recommended depth and speed to place Trellan TR-10 into the upper 1.5 to 2 inches of soil.
- Set drills to place seed at a depth of 1.5 to 2 inches. A planting depth greater than 2.5 inches for spring wheat will result in increased seedling stress and decreased emergence.
- Use only high quality seed where Trellan TR-10 is to be applied (avoid use of small seed with low starch reserves).
- If seed treatments are used, apply at the correct rate and uniformly across all seeds. Misapplication may result in reduced germination and/or seedling vigor.
- Avoid use of seed varieties known to have poor seedling (emergence) vigor.
- Do not apply Trellan TR-10 for this use in combination with any other preplant incorporated herbicide.

Soil characteristics and environmental conditions which may contribute to crop seedling stress that may be accentuated by use of Trellan TR-10 include:

- Soil related - High salinity, eroded knolls/hilltops, loose dry soils and compaction.
- Weather related - Cold and/or wet soils, excessively hot soils, excessive moisture, drought, and soil crusting from heavy rainfall.

Note: Do not apply Trellan TR-10 on small grains where a dinitroaniline herbicide such as Trellan was applied at rates above 0.5 lb a.i. per acre during the previous growing season.

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