

**Broadcast Application Rates per Acre for Rhizome Johnsongrass Control**

Soil Texture	Treflan HFP (pints)
coarse	2.0
medium	3.0
fine	4.0

**Spring Application:** Apply Treflan HFP any time before planting in the spring for two years in succession.

**Fall Application:** Apply Treflan HFP between October 15 and December 31 for two years in succession.

**Incorporation:** Deep incorporation with a tandem disc is essential for good results. Set disc to operate 4 to 6 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary; Make the second incorporation a different direction than the first.

**Cultivation:** Some johnsongrass plants will not be controlled. Timely cultivation during the crop season is necessary to remove escaped plants and maintain commercially acceptable control.

**Precautions:** In the season following a maximum rate treatment, plant only rice or crops for which Treflan HFP is labeled as a preplant incorporated treatment, or crop injury may occur.

**Restrictions and Use Precautions**

**Precautions:** To avoid crop injury, plant cotton after early season adverse weather conditions have passed, especially when using high rates. Cool, wet weather early in the growth cycle causes stress to the cotton plant. The added stress may result in reduced stand, delayed maturity, and reduced yields.

**Maximum Crop Year Use Rates:** For full season weed control, Treflan HFP may be applied one or more times sequentially during the crop year observing the rates, methods of application, and a 90-day preharvest interval. The maximum dosage must not exceed the rates given, and **the maximum cumulative amount of Treflan HFP that may be applied *within the same crop year* (includes fall application or spring application plus layby application) must not exceed 4 pints per acre (2 lb active ingredient per acre).**

**Rotation Crop Restrictions:** Refer to Rotation Crop Restrictions section under Product Information for specific rotational crop restrictions. When the cumulative amount of Treflan HFP in one crop year (fall or spring plus layby) exceeds the rates in the table below, plant only those crops for which Treflan HFP is labeled as a preplant incorporated treatment in the season following the application of Treflan HFP, or crop injury may result.

Soil Texture	Cumulative Amount of Treflan HFP per Acre in One Crop Year (pints)
coarse	1.5
medium	1.5
fine	2.0

A small grain cover crop such as barley, rye, or wheat that is intended for prevention of wind erosion in minimum tillage cotton may be planted in the fall following a maximum crop year use rate of 4 pints per acre of Treflan HFP; however, reduced stand and delayed emergence and development of the cover crop may result. The cover crop must not be grazed or harvested.

**Cottonwood Trees Grown for Pulp**

Apply as a soil incorporated treatment to control weeds susceptible to Treflan HFP in new and established plantings of cottonwood trees grown for pulp.

**Application Before Planting**

Apply and incorporate Treflan HFP before planting.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.25 - 1.5
fine	1.5 - 2.0

- All soils with 2 to 5% organic matter - 1.5 to 2 pints
- All soils with 5 to 10% organic matter - 2 pints
- Use lower rate in rate range in areas receiving less than 20 inches total rainfall and irrigation.

**Application to Established Plantings**

In established plantings, apply and incorporate Treflan HFP prior to periods of weed germination or immediately after existing weeds are controlled by tillage or herbicide treatment. Apply as a directed spray and use incorporation methods not injurious to the crop.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
all soil textures	2.0 - 4.0

Application rate within the rate range may be adjusted according to weed pressure.

**Johnsongrass Suppression in Established Plantings**

Proper soil preparation before application is necessary for satisfactory results. Use a chisel plow or similar implement to bring rhizomes to the soil surface. Then work the soil twice using a tandem disc to cut rhizomes into small (2 to 3 inch) pieces and to destroy emerged johnsongrass.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
all soil textures	4.0

**Incorporation:** Incorporate twice with tandem disc set to cut 4 to 6 inches deep and operated at 4 to 6 mph.

**Cultivation:** Some johnsongrass plants will escape. Timely cultivation with tillage implements or spot spraying with effective postemergence herbicides will improve the level of johnsongrass control.

**Cucurbits**

Apply Treflan HFP after emergence when plants have reached the 3 to 4 true leaf stage of growth. Apply as a directed spray to soil between the rows. Avoid foliage contact as slight crop injury may occur. Set incorporation equipment to move treated soil around the base of plants.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.25 - 1.5
fine	1.5 - 2.0

- Coarse and medium soils with 2 to 5% organic matter - 1.5 pints

- Fine soils with 2 to 5% organic matter - 2 pints
- Soils with 5 to 10% organic matter - 2 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

**Restriction:**

- Do not apply within 30 days of harvest, except for watermelon which has a 60-day preharvest interval.

**Eggplant (Transplant)**

Apply and incorporate Treflan HFP before transplanting or apply post-transplant and incorporate. When applied post-transplant, direct liquid sprays to the soil between rows and beneath plants.

**Broadcast Application Rates/Acre:**

Soil Texture	Treflan HFP (pints)
Coarse	1.0
Medium	1.0
Fine	1.5

- On coarse and medium soils with 2-5% organic matter - 1.5 pints of Treflan HFP

**Precautions:**

**Eggplant may be sensitive to this product under certain conditions. 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 reduced yield.**

**For best results, observe the following cultural practices or precautions when applying Treflan HFP:**

- Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration, or drought may weaken crop seedlings and increase the possibility of crop stress and damage.
- Carefully follow incorporation directions.

**Restriction:**

- Do not exceed specified application rates. This is particularly important on coarse textured or low organic matter soils.

**Flax and Flax Seed (Fall Application Only)**

Apply and incorporate Treflan HFP in the fall for weed control in spring seeded flax. Incorporate once within 24 hours after application. The second incorporation may be performed in the spring prior to planting.

**Special Instructions for Flax**

1. Incorporation operations or other tillage practices performed in the spring prior to seeding should be relatively shallow so as to maintain a firm seedbed, and the seedbed should be packed prior to seeding.
2. Seed with a press drill or hoe drill. Seed into moist seedbed and plant no more than 1 1/2 inches deep.
3. Delay seeding until soil has warmed sufficiently to allow rapid germination and establishment.
4. Refer to Use Precautions in the Product Information section of this label for information on growing conditions that can lead to crop injury or yield reduction.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.0

medium	1.5
fine	2.0

## Grain Sorghum (Milo)

### Postemergence Incorporated Treatment

Apply Treflan HFP as a directed or over-the-top spray when grain sorghum is 8 to 24 inches tall. Use drop nozzles if foliage prevents uniform soil coverage.

**Soil Preparation:** Cultivate before application of Treflan HFP to remove established weeds and to cover the base of grain sorghum plants with soil. Set cultivation equipment to add approximately 1 inch of soil to the base of sorghum plants.

**Incorporation Directions:** Applications of Treflan HFP must be mechanically incorporated within 24 hours after application. Mechanical incorporation may be accomplished with one pass of a sweep-type cultivator or properly adjusted rolling cultivator. With sweep-type cultivators, make 3 to 5 sweeps per row middle and be operated at a speed that will 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 per Acre

Soil Texture	Treflan HFP (pints)
coarse	0.75 - 1.0
medium	1.0 - 1.5
fine	1.5 - 2.0

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

### Precaution:

- Over-application may result in injury to grain sorghum.

### Restrictions:

- Do not apply Treflan HFP to grain sorghum as a preplant or preemergence treatment or crop injury will occur.
- Do not apply after grain sorghum is 24 inches tall.

### Chemigation

Treflan HFP may be applied through properly equipped chemigation systems for weed control in grain sorghum 8 to 24 inches tall. Refer to Application by Chemigation section in the Product Information section of this label for chemigation use directions. Do not apply Treflan HFP through any irrigation system unless these directions are carefully followed.

**Soil Preparation:** Cultivate before application of Treflan HFP to destroy existing weeds and cover the base of the grain sorghum plants with soil. Cultivation equipment should be set to add approximately 1 inch of soil to the base of sorghum plants.

**Application Timing:** Apply Treflan HFP to grain sorghum in 1/2 to 1 acre inch of overhead sprinkler irrigation as soon as possible after a cultivation when grain sorghum is 8 to 24 inches tall. Treflan HFP must be applied prior to weed emergence or after existing weeds are controlled. Treflan HFP does not control established weeds.

### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
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coarse	0.75 - 1.0
medium	1.0 - 1.5
fine	Do not apply by chemigation to fine textured soils.

**Restriction:** Do not apply after grain sorghum is 24 inches tall.

### Greens - Collard, Kale, Mustard and Turnip (Fresh or for Processing or Grown for Seed)

Apply Treflan HFP to greens as a preplant soil incorporated treatment.

#### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.5
fine	1.5

- Soils with 2 to 10% organic matter - 1.5 pints

### Hops

Apply and incorporate Treflan HFP to established crop during dormancy. Use incorporation equipment that will insure thorough soil mixing with minimal damage to crop stand.

#### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.25 - 1.5
fine	1.5

- Soils with 2 to 10% organic matter - 1.5 pints

### Kenaf

Apply Treflan HFP as a preplant soil incorporated treatment.

#### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
coarse <sup>1</sup>	1
medium	1 - 1.5
fine	1.5

<sup>1</sup>Coarse soils with 2 to 5% organic matter - 1.5 pints

- Use higher rate in rate range where high weed populations are anticipated.

**Restriction:** Do not graze or harvest treated crop for livestock forage.

### Lentils (only for use in North Dakota)

Apply and incorporate Treflan HFP in the spring before planting.

**Broadcast Application Rates/Acre:**

Soil Texture	Treflan HFP (pints)
Coarse	1.0
Medium	1.0
Fine	1.5

**Precautions:**

Lentil may be sensitive to this product under certain conditions. 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 reduced yield.

For best results, observe the following cultural practices or precautions when applying Treflan HFP:

- Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration, or drought may weaken crop seedlings and increase the possibility of crop stress and damage.
- Carefully follow incorporation directions.
- Use only high quality seed and plant at maximum seeding rates.

**Restriction:**

- Do not exceed specified application rates. This is particularly important on coarse textured or low organic matter soils.

**Oilseed - Borage, Crambe, Cuphea, Echium, Gold of pleasure (Camelina), Hare's ear mustard, Lesquerella, Lunaria, Meadowfoam, Milkweed, Mustard seed, Oil radish, Poppy seed, Rapeseed (Canola Varieties Only), Sesame, Sweet rocket**

Apply as a soil incorporated treatment in the spring before planting, or in late summer or early fall before a fall planting. Follow soil preparation, application, and incorporation directions for Treflan HFP.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.5
fine	2.0

**Precautions:**

- Where applications are made in late summer or fall, plant as rotation crops in the season following application only those crops to which Treflan HFP may be applied as a preplant incorporated treatment or crop injury may occur.

**Restrictions:**

- Do not apply to rapeseed (canola) grown in the state of Alaska.
- Do not graze or harvest crambe for livestock forage.
- Do not exceed 1.5 pt/A for mustard seed

**Weed Control in Rapeseed (Canola), Crambe in the state of Montana:** Apply and incorporate Treflan HFP in the fall after September 1 or in the spring before planting. Make only one application of this product per crop cycle. Follow soil preparation, application and incorporation instructions in the product label for this product.

**Broadcast Application Rates Per Acre:**

Soil Texture	Treflan HFP (pints)
Coarse	1.0
Medium	1.5

Fine	2.0
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Use 1.5 to 2.0 pints of Treflan HFP per acre on coarse and medium soils with 2-5% organic matter.

#### Restrictions:

- **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 this product. 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 this product.
- Do not graze or harvest crambe for livestock forage.

### Oilseed – Calendula, Castor oil plant, Chinese tallowtree, Euphorbia, Evening primrose, Jojoba, Niger seed, Rose hip, Stokes aster, Sunflower, Tallowwood, Tea oil plant, and Vernonia

#### Treflan HFP - Alone

Apply and incorporate Treflan HFP in the spring before planting or in the fall in advance of spring planting. See instructions for fall application under "Application Timing" in the "Product Information" section of this label.

#### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.25 - 1.5
fine	1.5 - 2.0

- Coarse and medium soils with 2 to 5% organic matter - 1.5 to 2 pints
- Fine soils with 2 to 5% organic matter - 2 pints.
- Soils with 5 to 10% organic matter - 2 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

#### Tank Mixing

For broader spectrum weed control, other products registered for use in sunflowers may be applied in tank mix combination with Treflan HFP or as a sequential treatment following application of Treflan HFP. When tank mixing, use the listed rate of Treflan HFP. Follow the label Directions for Use of each tank mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. See detailed information for tank mixing in the Product Information section of this label.

**Weed Control in Sunflower in the state of Montana:** Apply and incorporate Treflan HFP in the fall after September 1 or in the spring before planting. Make only one application of this product per crop cycle. Follow soil preparation, application and incorporation instructions in the product label for this product.

#### Broadcast Application Rates Per Acre:

Soil Texture	Treflan HFP (pints)
Coarse	1.0
Medium	1.5
Fine	2.0

Use 1.5 to 2.0 pints of Treflan HFP per acre on coarse and medium soils with 2-5% organic matter.

#### Restrictions:

- **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 this product. 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 this product.

- Do not graze or harvest crambe for livestock forage.

### Oilseed - Safflower

Apply and incorporate Treflan HFP in the spring before planting or in fall in advance of spring planting. See instructions for fall application under Application Timing in the Product Information section of this label.

#### Broadcast Application Rates/Acre:

Soil Texture	Treflan HFP (pints)	
	Spring Application	Fall Application
coarse	1.0	1.5
medium	1.25 - 1.5	2.0
fine	1.5 - 2.0	2.5

- Coarse and medium soils with 2 to 5% organic matter - 1.5 pints
- Fine soils with 2 to 5% organic matter - 2 pints
- Soils with 5 to 10% organic matter - 2.5 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

**Weed Control in Safflower in the state of Montana:** Apply and incorporate Treflan HFP in the fall after September 1 or in the spring before planting. Make only one application of Treflan HFP per crop cycle. Follow soil preparation, application and incorporation instructions in the product label for Treflan HFP.

#### Broadcast Application Rates Per Acre:

Soil Texture	Treflan HFP (pints)
Coarse	1.0
Medium	1.5
Fine	2.0

Use 1.5 to 2.0 pints of Treflan HFP per acre on coarse and medium soils with 2-5% organic matter.

#### Restrictions:

- **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 HFP. 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 HFP.
- Do not graze or harvest crambe for livestock forage.

### Okra

Apply Treflan HFP as a soil incorporated treatment, before or immediately after planting. If applied and incorporated after planting, set equipment so as to avoid disturbance of planted seed.

#### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.25 - 1.5
fine	1.5 - 2.0

- Coarse and medium soils with 2 to 5% organic matter - 1.5 pints
- Fine soils with 2 to 5% organic matter - 2 pints
- Soils with 5 to 10% organic matter - 2 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.



## Onions (Dry Bulbs Only)

**Postemergence Layby Application:** Apply at layby to the soil between onion rows. Avoid applying directly to the tops or exposed bulbs of onion plants. Emerged weeds should be removed prior to application of Treflan HFP. Treflan HFP will not control established weeds.

### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
coarse	0.75 - 1.0
medium	1.0 - 1.25

- Apply only to soils containing 3.5% or less organic matter
- **Note:** Use the lower rate in rate range where light weed pressure is anticipated.

**Incorporation:** Treflan HFP should be uniformly incorporated into the soil between the onion rows. Incorporation may be accomplished by operating a sweep-type or rolling cultivator 2 to 4 inches deep at 6 to 8 mph. Two incorporation passes are required with the first occurring within 24 hours after application or erratic weed control may result. Delay the second incorporation for a minimum of 5 days after the first. Avoid covering onions with treated soil during incorporation as injury to the crop may occur. Care should be taken to avoid mechanical injury to onion roots during incorporation.

### Restrictions:

- **Preharvest interval:** Do not apply within 60 days of harvest.
- Do not apply as a preplant or preemergence treatment.
- Do not apply to muck soils.

### Precautions:

- Reduced yields may result from use of Treflan HFP on onion crops weakened by diseases, improper incorporation depth, excessive moisture, high salt concentration, or drought may weaken the crop and increase the possibility of damage from Treflan HFP. Under these conditions reduced yields may result.

## Peas - English Peas

### Treflan HFP - Alone

Apply and incorporate Treflan HFP in the spring before planting or in the fall in advance of spring planting. Refer to instructions for fall application under Application Timing in the Product Information section of this label.

### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)	
	Spring Application	Fall Application <sup>1</sup>
coarse	1.0	1.0
medium	1.0 - 1.5 <sup>2</sup>	1.25 - 1.5
fine	1.5	1.5

<sup>1</sup>Treflan HFP may be applied during the fall to dry and English peas in the states of Idaho, Oregon and Washington.

<sup>2</sup>Medium soils with 3% or greater organic matter - 1.5 pints

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

### Tank Mixing or Sequential Treatments

For broader spectrum weed control, other products registered for use in dry and English peas may be applied in tank mix combination with Treflan HFP or as a sequential treatment following application of Treflan HFP. When tank mixing, use the listed rate of Treflan HFP. Follow the label Directions for Use of

each tank mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. See detailed information for tank mixing in the Product Information section of this label.

### Peas - Southern Peas

Apply Treflan HFP as a preplant soil incorporated treatment.

#### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.25 - 1.5
fine	1.5 - 2.0

- Coarse and medium soils with 2 to 5% organic matter - 1.5 pints
- Fine soils with 2 to 5% organic matter - 2 pints
- All soils with 5 to 10% organic matter - 2 pints
- Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

### Peanuts

#### Treflan HFP – Alone (For Use in Texas, Oklahoma, and New Mexico Only)

Apply and incorporate Treflan HFP before planting, at planting or immediately after planting. When incorporating after planting, adjust equipment so as to avoid disturbance of planted seed.

#### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.5

#### Tank Mixing or Sequential Treatments

For broader spectrum weed control, other products registered for use in peanuts may be applied in tank mix combination with Treflan HFP or as a sequential treatment following application of Treflan HFP. When tank mixing, use the listed rate of Treflan HFP. Follow the label Directions for Use of each tank mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. See detailed information for tank mixing in the Product Information section of this label.

#### Treflan HFP plus Pursuit Combinations for Weed Control in Peanuts

Treflan HFP may be tank-mixed with Pursuit and applied as a preplant incorporated treatment to control additional weeds.

#### Broadcast Application Rates/Acre†:

Soil Texture	Treflan HFP (pints)
Coarse	1.0
Medium	1.5

†Refer to the labeling for use of Pursuit on peanuts for application rates.

Pursuit may also be used as a preemergence, "at cracking", postemergence or sequential (split) application following preplant soil incorporated application of Treflan HFP. Refer to the labeling for use of Pursuit on peanuts for application rates, use directions, cautions and limitations before use.

## Pepper (Transplant Only)

Apply and incorporate Treflan HFP prior to transplanting.

### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.25 - 1.5
fine	1.5 - 2.0

- Coarse and medium soils with 2 to 5% organic matter - 1.5 pints
- Fine soils with 2 to 5% organic matter - 2 pints
- Soils with 5 to 10% organic matter - 2 pints
- 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)

### Application After Planting

Apply and incorporate Treflan HFP after planting but before emergence, immediately following dragoff, or after potato plants have fully emerged.

### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.25-1.5
fine	1.5-2.0

- Coarse and medium soils with 2 to 5% organic matter - 1.5 pints
- Fine soils with 2 to 5% organic matter - 2 pints
- Soils with 5 to 10% organic matter - 2 pints,
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

**Incorporation Directions:** Set incorporation equipment so that the bed and furrow will be 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 HFP 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.

### Split Applications Before and After Planting (for Use in Idaho, Oregon and Washington)

On all soils apply and incorporate Treflan HFP at the rates shown below as split applications before planting and after planting when potato plants have fully emerged. Do not apply to soils containing 2% or more organic matter. Follow incorporation directions provided above for application to potatoes after planting.

### Broadcast Application Rates per Acre

	Treflan HFP (pints)
before planting	0.75
after planting	0.75

**Treflan HFP Plus Eptam Herbicide Tank Mix - Post Plant Preemergence Treatment (for Use in Kansas, Minnesota, Nebraska, North Dakota, Oklahoma, South Dakota and Texas)**

Treflan HFP may be tank-mixed with Eptam herbicide and applied as a soil incorporated treatment to control additional weeds. Apply after planting, but before crop emergence. In areas where potatoes are normally dragged off, apply and incorporate up to or immediately following drag off. Use application rates for Treflan HFP specified for Applications After Planting, above. Incorporate immediately.

**Precaution:** Refer to the label for Eptam for application rates, additional use directions, precautions and limitations before use.

**Restriction:**

- Do not graze for feed forage to livestock from fields treated with the Treflan HFP plus Eptam tank mix.

**Treflan HFP Plus Eptam Tank-Mix - Preplant Treatment (for Use in Idaho, Oregon and Washington)**

Treflan HFP may be tank mixed with Eptam and applied as a soil incorporated treatment to control additional weeds. Apply before planting and incorporate immediately.

**Broadcast Application Rates per Acre**

	Treflan HFP (pints)
all soil textures	0.75

**Precaution:** Refer to the label for Eptam for application rates, additional use directions, precautions and limitations before use.

**Restrictions:**

- Do not use this tank mix both before and after planting in the same season.
- Do not graze for feed forage to livestock from fields treated with the Treflan HFP plus Eptam tank mix.

**Chemigation (Treflan HFP Only)**

Treflan HFP may be applied through properly equipped chemigation systems for weed control in potatoes. Refer to Chemigation section in the Product Information section of the label for Treflan HFP. Do not apply Treflan HFP through any type of irrigation system unless these directions are carefully followed.

Apply Treflan HFP to potatoes in 0.5 to 1 acre inch of overhead sprinkler irrigation after planting, before emergence, or immediately following dragoff or after the potato plants have fully emerged. Existing weeds must be destroyed by tillage or cultivation prior to application of Treflan HFP. Treflan HFP does not control established weeds. Incorporation is not necessary when Treflan HFP is applied by chemigation.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.5

- Do not apply by chemigation to fine textured soils.

**Precautions:** If cultivation is required after treatment with Treflan HFP, avoid completely covering potato plants with treated soil. Erratic weed control may result if cultivation exposes untreated soil between rows.

**Radish**

Apply Treflan HFP as a preplant soil incorporated treatment.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.5
fine	1.5

## Small Grains - Barley, Durum, and Wheat

### Special Precautions for Use of Treflan HFP on Small Grains

Carefully follow directions for use of Treflan HFP on small grains to minimize potential crop stress. Under certain conditions, delayed crop emergence and or stand reduction may occur when Treflan HFP 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 moisture.

Irrigate prior to planting or after germination and emergence. Moisture received between planting and emergence may cause crusting, especially on loose seedbeds.

Do not exceed soil-specific application rates for Treflan HFP. 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 Treflan HFP into the upper 1 to 1 1/2 inches of soil. If applied after planting, set incorporation equipment so as to avoid disturbance of planted seed.

Set drills to place seed at a the depth specified in use directions. 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 HFP 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.

**Soil characteristics and environmental conditions which may contribute to crop seedling stress that may be accentuated by use of Treflan HFP 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.

**Restriction:** Do not apply Treflan HFP on small grains where a dinitroaniline herbicide such as Treflan or Sonalan<sup>®</sup> herbicide was applied at a rate greater than 0.5 lb ai per acre the previous growing season.

### Application Directions for Small Grains

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

Apply Treflan HFP as a preplant incorporated treatment prior to planting spring seeded barley. Treflan HFP may be applied to ground that has a manageable level of crop residue or has been fallowed or pre-tilled. The first incorporation is required within 24 hours after application. The second incorporation is required prior to planting to destroy emerged weeds and to insure even distribution of Treflan HFP in the soil surface.

**Broadcast Application Rates/Acre:** Apply at a rate of **1 pint per acre** for all soil textures regardless of organic matter content.

**Incorporation:** Preferred incorporation tools include the chisel plow (first incorporation pass only), tandem disc and field cultivator. Refer to Incorporation Equipment in Product Information section of this label for details on operation of incorporation equipment.

**Planting Directions:** Barley should be seeded approximately 1 1/2 inches deep.

**Precautions:**

- Carefully read and follow Special Precautions for Use of Treflan HFP in Small Grains before application of Treflan HFP.
- While use of this weed control practice may result in a stand reduction, slight stand reductions do not normally affect yield.

**Barley, Spring Seeded -- Spring Application Preplant Incorporated for Foxtail (Pigeongrass) Control in Barley Used as a Cover Crop or in the Conservation Reserve Program**

Apply Treflan HFP as a preplant incorporated treatment prior to planting spring seeded barley on land enrolled in acreage conservation reserve programs. Follow the soil preparation, application, and incorporation procedures for Treflan HFP.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.5
fine	1.5

**Planting Directions:** Barley should be seeded approximately 1 1/2 inches deep.

**Precautions:** Use of this weed control practice may result in slight stand reduction.

**Restriction:** Follow the most severe grazing restrictions imposed either by the label for Treflan HFP or by the USDA Acreage Conservation Reserve Program, whichever is longest. Consult the local ASCS office or other state agency to determine the period of USDA grazing restriction.

**Spring Application for Foxtail (Pigeongrass) Control in Spring Seeded Barley Grown Under Irrigation (Montana only)**

Treflan HFP may be spring applied as a preplant incorporated treatment for foxtail (pigeongrass) control in spring seeded barley grown under irrigated conditions in Montana. Make applications 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 HFP in treated soil.

**Broadcast Application Rate:** Apply Treflan HFP, at a rate of 1 pint 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.

**Use Precautions:** Carefully follow Special Use Precautions for Small Grains section on this label.

**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 HFP. If one of the 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 HFP.

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

Apply Treflan HFP as a preplant incorporated treatment for control of downy brome (cheatgrass), annual ryegrass, annual bluegrass, pacific meadow foxtail (blackgrass), henbit, and fiddleneck (tarweed). The growth, development and yield of winter wheat will not be adversely affected, provided the seed is placed below the zone of soil treated with Treflan HFP. Treflan HFP may be applied for up to three weeks before planting.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.5
medium	1.5
fine	2.0

**Incorporation Directions:** Incorporate Treflan HFP with a flexible tine-tooth harrow (Flextine or Melroe) set to cut 1 to 2 inches deep and operate at 3 to 6 mph. Incorporate once within 24 hours after application and a second time in a different direction from the first prior to planting. Do not till the soil with a disc after Treflan HFP 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 of soil treated with Treflan HFP.

**Precautions:**

- Carefully read and follow Special Precautions for Use of Treflan HFP in Small Grains before application of Treflan HFP.
- Wheat planted in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

**Winter Wheat -- Post Plant Incorporated Treatment**

Apply and incorporate Treflan HFP after planting, but before emergence, to control the following weeds susceptible to Treflan HFP in winter wheat: annual ryegrass, annual bluegrass, downy brome (cheatgrass), pacific meadow foxtail (blackgrass), fiddleneck (tarweed), and henbit.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.0 - 1.5
medium	1.5

**Planting Directions:** Plant wheat 2 to 3 inches deep in a well-tilled seedbed. Do not use a deep or semi-deep furrow drill.

**Incorporation Directions:** Incorporate Treflan HFP using two passes with a flex-tine or spike-tooth harrow operated at least 5 mph. Make the second incorporation pass in a different direction than the first. Set equipment to cut 1 to 1 1/2 inches deep and avoid disturbing seed. Application and first incorporation should be done in the same operation if possible. Both incorporations must be done within 24 hours.

**Precautions:**

- Carefully read and follow Special Precautions for Use of Treflan HFP in Small Grains before application of Treflan HFP.
- Wheat seed in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.
- If less than 20 inches of rainfall plus irrigation was received between planting and harvest, refer to rotation crop restrictions before planting sorghum or oats.

**Winter Wheat -- Fallow Soil Application Prior to Planting (For Use in Idaho, Oregon, and Washington)**

Treflan HFP may be applied and shallowly incorporated into fallow soil up to 4 months before planting wheat to control cheatgrass and certain annual grasses and broadleaf weeds. Apply Treflan HFP any time from May to September prior to fall planting of winter wheat. Wheat growth, development and yield will not be adversely affected so long as the seed is placed below the zone of soil treated with Treflan HFP.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.5
medium	1.5
fine	2.0

**Incorporation Directions:** Incorporate Treflan HFP with a flexible tine-tooth harrow (Flextine or Melroe) set to cut 1 to 2 inches deep and operate at 3 to 6 mph. Incorporate once within 24 hours after application and a second time in a different direction from the first prior to planting. Do not till the soil with a disc after Treflan HFP 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 of soil treated with Treflan HFP.

**Precautions:**

- Carefully read and follow Special Precautions for Use of Treflan HFP in Small Grains before application of Treflan HFP.
- Wheat planted in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.



**Winter Wheat - Partial Control or Suppression of Annual Brome Species (Cheatgrass, Downy Brome, Japanese Brome, Hairy Chess) and Jointed Goatgrass in Winter Wheat (for use in Colorado, Kansas, Nebraska and Wyoming)**

Treflan HFP may be applied as a preplant incorporated treatment for **partial control or suppression** of annual Brome species (cheatgrass, downy brome, Japanese brome, hairy chess) and jointed goatgrass in winter wheat in Colorado, Kansas, Nebraska, and Wyoming. Apply Treflan HFP anytime during a period from three (3) weeks before planting up to immediately prior to planting.

**Broadcast Rates Per Acre<sup>1</sup>**

Soil Texture	Treflan HFP (pints)
Course	1 - 1 1/2
Medium	1 - 1 1/2
Fine	1 1/2

<sup>1</sup>Use the higher rate in the rate range where heavy weed populations are anticipated or where medium to high crop residues are present.

**Incorporation and Planting Directions:** Treflan HFP should be incorporated with tillage equipment such as a flexible tine-tooth harrow or springtooth harrow that mixes the soil no more than 1-2 inches deep. The grain drill (disc drill or hoe drill) can serve as the incorporation implement. Do not use discs, undercutters or field cultivators for incorporation. Incorporate one time within 24 hours after application. Use a grain drill that will place the seed below the zone of soil into which Treflan HFP has been incorporated.

One pass incorporation is adequate; however, where the grain drill is used as the incorporation tool, mounting a springtooth harrow in front of the drill can enhance performance. Where a tillage tool is used to incorporate prior to planting, **the wheat must be seeded below the soil treated with Treflan HFP or crop injury may result.** The wheat seed should be placed at least 1 1/2 - 2 inches deep.

**Precautions:**

- Crop injury in the form of delayed emergence and development may result from planting wheat in direct contact with treated soil.
- Do not incorporate with undercutters, field cultivators, chisel plows or discs. Any implement that incorporates Treflan HFP deeper than the planting depth of wheat will contribute to crop injury.
- Use of seeding equipment that does not place the seed below the Treflan HFP treated soil layer will result in crop injury.
- Use of Treflan HFP in accordance with this label may result in stand reduction.
- Heavy rainfall prior to wheat emergence can cause soil compaction and soil crusting resulting in delayed emergence, stand reduction, stunting and yield loss.

**Wheat, Durum and Barley, Spring Seeded - Fall Applied Preplant Soil Incorporated for Foxtail (Pigeongrass) Control (for Use in Minnesota, North Dakota and South Dakota)**

Apply Treflan HFP 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 HFP in treated soil. Treflan HFP may be applied to ground that has a manageable level of crop residue, or has been fallowed or pre-tilled.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse and medium	(pints) 1.0
fine	1.5

**Incorporation:** Preferred incorporation tools include the chisel plow (first incorporation pass only), tandem disc and field cultivator. Refer to Incorporation Equipment in Product Information section of this label for details on operation of incorporation equipment.

**Planting Directions:** Set equipment to place seed approximately 1 1/2 inches deep.

**Precautions:** Carefully read and follow Special Precautions for Use of Treflan HFP in Small Grains before application of Treflan HFP.

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

**Spring Wheat, Durum, and Barley -- Postplant Incorporated for Foxtail (Pigeongrass) Control**

Apply and incorporate Treflan HFP after planting, but before emergence, to control foxtail (pigeongrass) in spring wheat, durum, and barley.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.0
fine	1.5

**Planting Directions:** Plant wheat 2 to 3 inches deep in a well-tilled seedbed.

**Incorporation Directions:** Incorporate Treflan HFP using two passes with a flex-tine or diamond harrow operated at least 5 mph. Make the second incorporation pass in a different direction than the first. Set equipment to cut 1 to 1 1/2 inches deep and avoid disturbing seed. Make the application and first incorporation in the same operation if possible. Both incorporations must be done within 24 hours.

**Precautions:**

- Carefully read and follow Special Precautions for Use of Treflan HFP in Small Grains before application of Treflan HFP.
- Wheat seed in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

**Soybeans**

**Treflan HFP - Alone**

Apply and incorporate Treflan HFP in the spring before planting or in the fall in advance of spring planting. See instructions for fall application under Application Timing in the Product Information section of this label.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)	
	Spring Application	Fall Application <sup>1</sup>
coarse	1.0	2.0
medium	1.5	2.0
fine	2.0	2.5

<sup>1</sup>Fall Application Rates for States Including: Alabama, Arkansas, northern Florida, Georgia, Louisiana, Mississippi, southeastern Missouri (Bootheel), North Carolina, Oklahoma, South Carolina, Tennessee, and Texas.

- Coarse and medium soils with 2 to 5% organic matter - 1.5 pints
- Fine soils with 2 to 5% organic matter - 2 pints
- Soils with 5 to 10% organic matter - 2 to 2.5 pints

For soybeans grown in states other than those listed above, fall apply Treflan HFP at broadcast rates listed for spring preplant incorporated treatment.

**Precautions:** Plant soybeans 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 on soybean plants which may result in reduced stand, delayed maturity and reduced yield.

**Restriction:** Do not fall-apply this product to soybeans planted in soils where rice was grown the previous year.

#### **Tank Mix Overlay and Postemergence Information**

For broader spectrum weed control, other products registered for use in soybeans may be applied in tank mix combination with Treflan HFP or as a sequential treatment following application of Treflan HFP. When tank mixing, use the listed rate of Treflan HFP. Follow the label Directions for Use of each tank mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. See detailed information for tank mixing in the Product Information section of this label.

#### **Special Use Programs**

##### **1. Fall Application Prior to Planting Soybeans in the Spring (Arkansas, Louisiana and Mississippi)**

Apply Treflan HFP as a preplant soil incorporated treatment in the fall prior to planting soybean in the spring.

##### **Broadcast application rates for fall application prior to spring planted soybean:**

<b>Soil Texture</b>	<b>Treflan HFP</b>
	(pints)
Coarse	2.0
Medium	2.0 - 3.0
Fine	2.5 - 4.0

**Note:** Use the higher rate in the rate range under conditions of abundant rainfall and mild winter temperatures.

**Restriction:** In the season following this treatment, plant only those crops for which this product can be applied as a preplant incorporated treatment.

##### **2. Soybeans - Chemigation**

Treflan HFP may be applied through properly equipped chemigation systems for weed control in soybeans. Refer to Application by Chemigation in the Product Information section of this label for use directions for chemigation. Do not apply Treflan HFP through any irrigation system unless these directions are carefully followed.

Apply Treflan HFP in sprinkler irrigation equal to 1/2 to 1 inch of water. Plant and apply Treflan HFP as soon as possible after the last tillage operation. Treflan HFP must be applied within two days after planting and prior to crop emergence. Treflan HFP does not control established weeds. Soil incorporation is not required when Treflan HFP is applied through chemigation systems.

#### **Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.5 - 2.0
medium	1.5 - 2.0
fine	2.0 - 2.5

- Soils with 2 to 5% organic matter - 2 pints
- Soils with 5 to 10% organic matter - 2 to 2.5 pints

**Cultivation:** Soil treated by chemigation with Treflan HFP may be shallow cultivated without reducing weed control activity.

### 3. Soybeans - Weed Control Under Reduced or Conservation Tillage

Treflan HFP can be applied either in the fall or in the spring as a preplant incorporated treatment for weed control in soybeans grown under reduced or conservation tillage conditions. Make only one application per crop cycle.

Apply to tilled land or standing or chopped stubble from the previous season's crop. The first incorporation of Treflan HFP must occur within 24 hours. For the first incorporation, a tandem disc or combination tool that can thoroughly mix Treflan HFP into the top 2 to 3 inches of the final seedbed while leaving the desired amount of plant residue on the soil surface is recommended. For fall or spring application, the second incorporation can occur anytime prior to planting or at planting with tillage equipment that provides uniform soil mixing used in conjunction with no-till planters.

#### Application with Dry Bulk Fertilizers

Dry bulk fertilizers impregnated or coated with Treflan HFP may be applied as a preplant incorporated treatment. See instructions for Application with Dry Bulk Fertilizer in the Product Information section of this label. Under reduced or conservation tillage conditions, uniformly applied dry bulk fertilizers impregnated with Treflan HFP provide weed and grass control equal to or better than Treflan HFP applied in liquid sprays. Two incorporation passes are required when Treflan HFP is applied with dry bulk fertilizer. For best results with spring applications, incorporate once within 24 hours after application and a second time at least 5 days later.

#### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)	
	Spring Applied	Fall Applied
coarse	1.0 - 1.5	1.5 - 2.0
medium	1.5 - 2.0	2.0 - 2.5
fine	2.0 - 2.5	2.5 - 3.0

Use the higher rate in the rate range where higher crop residues are present or where dense weed populations are anticipated.

#### Precautions:

To be effective, Treflan HFP must be mixed thoroughly in the top 2 to 3 inches of soil in the final seedbed. Weed control may be poor or erratic where soil conditions or heavy crop residues do not permit thorough soil mixing.

### 4. Soybeans - Fall Panicum Control

Apply Treflan HFP as a preplant incorporated treatment at a broadcast rate of 2 pints per acre on coarse and medium soils.

### 5. Soybeans - Pigweed and Seedling Johnsongrass Control

Apply Treflan HFP as a preplant incorporated treatment.

**Broadcast Application Rates per Acre:** In Alabama, Arkansas, Florida, Georgia, Kansas, Louisiana, Mississippi, Missouri, Nebraska, North Carolina, Oklahoma, South Carolina, Tennessee, and southern Virginia, apply Treflan HFP at the following broadcast rates:

Soil Texture	Treflan HFP (pints)
coarse	1.0 - 1.5
medium	1.5 - 2.0
fine	2.0 - 2.5

**Exception:** Louisiana, 3 pints per acre on fine soils.

**6. Soybeans - Additional Weed and Grass Control in Gulf Coast Counties of Texas**

Apply Treflan HFP as a preplant incorporated treatment up to two weeks before planting.

**Broadcast Application Rates per Acre:** For soybeans grown in Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller, and Wharton counties of the Texas Gulf Coast, apply Treflan HFP at the following broadcast rates:

Soil Texture	Treflan HFP (pints)
coarse	1.5
medium	2.0
fine	3.0

**7. Soybeans - Itchgrass (Raoulgrass) Suppression**

Apply Treflan HFP as a preplant incorporated treatment or at layby.

**Layby Treatment:** Cultivate to remove existing weeds and treat when soybeans are well established (10 inches tall). Apply as a directed spray to the soil surface and incorporate using a rolling cultivator set to cut 2 to 4 inches deep or sweep-type cultivator with 3 to 5 sweeps per row middle operated 2 to 3 inches deep. Set incorporation equipment to throw treated soil to the row.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)	
	Preplant Incorporated	Layby Application
medium	3.0	1.0
fine	3.0	2.0

**8. Soybeans - Charcoal Soils in Arkansas, Louisiana, and Mississippi**

Newly cleared land often contains high organic matter (5 to 10%) and charcoal from burning debris. Charcoal and organic matter tends to bind Treflan HFP and reduce weed control activity. Under these conditions, higher rates of Treflan HFP 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 Treflan HFP. In the burn row a high level of charcoal is usually present. Consequently, poor weed control may result, even if an increased rate of Treflan HFP is used. Follow listed application and incorporation procedures for Treflan HFP.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.5 - 2.5
medium	2.5
fine	3.0

### 9. Soybeans - Red Rice Control in Arkansas, Louisiana, Mississippi, and Texas Only

Suppression or partial control of red rice can be obtained from a two-year treatment program which consists of a maximum rate application the first year followed by application in the second year at normal rates indicated for soil texture, organic matter or charcoal content. Apply and incorporate Treflan HFP in the spring before planting. Follow the soil preparation and incorporation procedures for Treflan HFP.

#### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)	
	Application Year 1	Application Year 2
coarse	2.0	1.0
medium	3.0	1.5
fine	4.0	2.0
coarse soils with 2-5% organic matter	3.0	1.5
sSoils with 5-10% organic matter	4.0	2.0 - 2.5

In Arkansas, Louisiana and Mississippi, if a combination of high soil organic matter (5 to 10%) and charcoal are present, apply Treflan HFP at the following broadcast rates:

Soil Texture	Treflan HFP (pints)
coarse	1.5 - 2.5
medium	2.5
fine	3.0

For more information on charcoal soils see discussion in preceding section.

**Precaution:** Crop Rotation: The recommendation for red rice control in soybeans is a two-year program. In the first year following a maximum rate application, plant only soybeans. During the second year, after applying Treflan HFP at the normal rate indicated for soil texture and charcoal level, plant only those crops for which Treflan HFP is registered as a preplant treatment or crop injury may result. Rice may be planted during the third year following application of normal use rates in year two.

### 10. Soybeans - Rhizome Johnsongrass Control in Eastern United States and the State of Texas

Rhizome johnsongrass control with Treflan HFP requires maximum rate application for two consecutive years. Commercially acceptable control cannot be obtained with only 1 year of maximum rate use of Treflan HFP. Carefully follow the special use directions which follow.

**Soil Preparation:** Satisfactory results are dependent upon proper soil preparation prior to application. Use implements such as a chisel plow to bring rhizomes to the soil surface. Disc twice before application to chop rhizomes into small (2 to 3 inch) pieces and destroy any recently emerged johnsongrass plants.

#### Broadcast Application Rates per Acre:

Soil Texture	Treflan HFP (pints)
coarse	2.0
medium	3.0
fine	4.0

- Coarse soils with 2 to 5% organic matter - 3 pints
- Soils with 5 to 10% organic matter - 4 pints

**Spring Application:** Apply Treflan HFP any time before planting in the spring for two consecutive years.

**Fall Application:** Apply Treflan HFP after October 15 for two consecutive years.

**Split Application:** Apply Treflan HFP at the broadcast rates indicated in the following table both spring and fall for two consecutive years.

Soil Texture	Treflan HFP Spring + Fall (pints)
coarse	1.0 + 1.0
medium	1.5 + 1.5
fine	2.0 + 2.0
coarse soils with 2-5% organic matter	1.5 + 1.5
soils with 5-10% organic matter	2.0 + 2.0

**Incorporation:** Deep incorporation with a tandem disc is essential for good results. Set disc to operate 4 to 6 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary. Make the second in a different direction than the first.

**Cultivation:** Some johnsongrass plants will not be controlled. Timely cultivation during the crop season is necessary to remove escaped plants and maintain commercially acceptable control.

**Precautions:** In the season following a maximum rate treatment, plant only rice and those crops to which Treflan HFP can be applied as a preplant treatment or crop injury may result.

#### 11. Soybeans - Wild Cane (Shattercane) Control

Follow the soil preparation and application procedures for Treflan HFP. Wild cane (shattercane) can germinate throughout the growing season and from greater soil depth than most other weed seeds. Commercially acceptable control of wild cane can be obtained by using increased rates of Treflan HFP.

#### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	2.0
fine	2.5

**Incorporation:** Deep incorporation with a tandem disc is essential for good wild cane control. Incorporate Treflan HFP 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 in a different direction than the first.

**Cultivation:** Cultivation during the growing season will improve shattercane control.

#### 12. Treflan HFP plus Scepter Combinations in Soybeans (Not For Use In California)

Treflan HFP herbicide plus Scepter herbicide may be applied as a preplant incorporated tank mix treatment. Scepter may also be applied as a preemergence overlay treatment or as an early postemergence treatment following a preplant incorporated application of Treflan HFP.

#### Special Use Precautions

- Use of Scepter in combination with Treflan HFP or as a sequential treatment following application of Treflan HFP is subject to a number of special precautions and limitations required by the label for

Scepter. Carefully read, understand and follow all use precautions, rotational crop restrictions and other limitations in the label for Scepter.

- The user must comply with all applicable use directions, precautions and limitations imposed by the Treflan HFP and Scepter product labels.

#### Restriction:

- Use of Scepter is limited to certain states. Do not use the Treflan HFP plus Scepter tank mix applied preplant incorporated, or Scepter applied as a preemergence overlay or postemergence treatment following Treflan HFP preplant incorporated, in the "Northern Use Area" as defined by the Scepter product label.

#### Tank Mix of Treflan HFP plus Scepter - Preplant Incorporated

Apply the tank mix of Treflan HFP plus Scepter as a preplant incorporated treatment up to 45 days before planting soybeans. Apply and shallowly incorporate into the soil within 24 hours. Follow soil preparation, mixing and application procedures described in the label for Treflan HFP. Use incorporation equipment that provides uniform incorporation into the top 2 inches of soil. When using a disc, field cultivator, or rolling cultivator, a second pass must be made at an angle to the first pass to ensure thorough incorporation. If soybeans are planted on beds, apply and incorporate after bed formation.

#### Treflan HFP Preplant Incorporated Followed by Scepter Preemergence Overlay Application

Apply Treflan HFP as a preplant incorporated treatment. Follow soil preparation, application and incorporation procedures described in the label for Treflan HFP. Apply Scepter to the soil surface after planting but before the crop emerges. Rainfall or overhead sprinkler irrigation is necessary to move the Scepter overlay treatment into the weed germination zone. The amount of rainfall or sprinkler irrigation required depends on existing soil moisture, soil texture and organic matter content. Sufficient water to moisten the soil to a depth of 2 inches is normally adequate. If adequate moisture is not received within 7 days after a surface applied treatment, a cultivation is recommended to control escaped weeds.

#### Weeds Controlled (Tank Mix or Overlay)

The tank mix of Treflan HFP plus Scepter or Treflan HFP followed by overlay treatments of Scepter control the weeds listed on the label for Treflan HFP alone plus these additional weeds:

cocklebur, common	pigweed	ragweed
jimsonweed	Palmer)	(common)
mallow, venice	(smooth)	(giant) <sup>1</sup>
morning-glory	(tall waterhemp)	smartweed
(pitted)	poinsettia, wild	(ladysthumb)
(smallflower)	prickly sida	(pennsylvania)
mustard species	(teaweed)	sunflower, common
nightshade, eastern black <sup>1</sup>		velvetleaf <sup>1</sup>

<sup>1</sup>Eastern black nightshade, giant ragweed, and velvetleaf are controlled by preplant incorporated treatments only.

Treflan HFP plus Scepter tank mix or Scepter overlay treatments will aid in the control and reduce competition from weeds in the following list. Control of these weeds may be erratic, ranging from poor to excellent, depending upon soil temperature, time of weed germination, depth of weed seed in soil and the amount and timing of soil moisture. Control may be improved with timely cultivation.

morning-glory <sup>2</sup>	nutsedge, yellow <sup>3</sup>
(entireleaf)	panicum, fall <sup>4</sup>
(ivyleaf)	shattercane <sup>4</sup>
(tall)	

<sup>2</sup>For best activity on morning-glory species, use tank mix preplant incorporated treatments.

<sup>3</sup>Use tank mix preplant incorporated treatments only to aid in control of yellow nutsedge.



<sup>4</sup>Treflan HFP alone control fall panicum and shattercane at increased rates. See the label for Treflan HFP for special instructions.

**Broadcast Application Rates for Preplant Incorporated or Preemergence Overlay Treatments:**

Soil Texture	Treflan HFP	Scepter Tank Mix or Overlay
	(pints)	(pints)
Coarse	1.0	0.67
Medium	1.5	0.67
Fine	2.0	0.67

**Treflan HFP Preplant Incorporated Followed by Scepter Postemergence Application**  
Apply Treflan HFP as a preplant incorporated treatment. Additional weeds tolerant to Treflan HFP may be controlled using a post emergence application of Scepter. Consult the Scepter product label for application rates, additional weeds controlled, application directions and precautions before use.

### 13. Enhanced Control of Broadleaf Signalgrass with Treflan HFP plus Dual Tank Mix

Apply Treflan HFP plus Dual<sup>®</sup> herbicide tank-mix as a preplant incorporated treatment for enhanced control of broadleaf signalgrass in soybeans.

#### Broadcast Application Rates/Acre

Soil Texture	Soils with 0 - 2% Organic Matter	
	Treflan HFP	Dual 8E
	(pints)	(pints)
Coarse	1.0	1.25 - 1.5
Medium	1.5	1.5 - 2
Fine	2.0	2 - 2.5

- Coarse and medium soils with 2-5% organic matter - 1.5 pints of Treflan HFP
- Fine soils with 2-5% organic matter - 2.0 pints of Treflan HFP

**Note:** Follow all applicable use directions, precautions and limitations in the product label for Dual herbicide.

### 14. Control of DNA-Resistant Goosegrass with Treflan HFP Plus Dual Tank Mix

Apply Treflan HFP plus Dual<sup>®</sup> herbicide tank-mix as a preplant incorporated treatment to control DNA-resistant goosegrass in soybeans.

#### Broadcast Application Rates/Acre

Soil Texture	Soils with 0 - 2% Organic Matter	
	Treflan HFP	Dual 8E
	(pints)	(pints)
Coarse	1.0	1.25
Medium	1.5	1.5
Fine	2.0	2

- Coarse and medium soils with 2-5% organic matter - 1.5 pints of Treflan HFP
- Fine soils with 2-5% organic matter - 2.0 pints of Treflan HFP

**Note:** Follow all applicable use directions, precautions and limitations in the product label for Dual herbicide.

## Spearmint and Peppermint

Apply to established spearmint and peppermint as a soil incorporated treatment, by chemigation, or surface applied and watered-in. Apply during dormancy or semi-dormancy in late winter to spring or in the fall after harvest. Treflan-HFP does not control established weeds, therefore, application must be made prior to germination time of target weeds (refer to product label for labeled weeds). Late winter to early spring application will control susceptible weeds that germinate in the spring and early summer and fall application will control susceptible fall germinating weeds. If mechanically incorporated, use equipment that will provide thorough soil mixing with minimal damage to the crop stand (refer to product label for incorporation equipment recommendations and labeled weeds).

Treflan HFP may be surface applied for annual grass control in established mint using chemigation, or ground, or aerial broadcast application equipment.

**Chemigation:** For chemigation application, apply at the specified broadcast application rates. See instructions for chemigation in the Application Methods section of this label.

**Surface Applications Activated by Rainfall or Irrigation:** Surface applications of Treflan HFP may be activated by rainfall, sprinkler irrigation, or flood irrigation. Rainfall or a single overhead sprinkler irrigation of 0.5 acre inch or more is required to activate Treflan HFP. If rainfall or irrigation has not occurred within 3 days after application, mechanical incorporation is recommended to activate the treatment.

### Broadcast Application Rates:

Soil Texture	Treflan HFP (pt/acre)
Coarse	1.0
Medium	1.25
Fine	1.5

## Sugar Beets

### Treflan HFP - Alone

Apply Treflan HFP as an over-the-top spray and incorporate. Apply from the time the first true leaves have formed until plants are 6 inches tall.

### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.25 - 1.5
fine	1.25 - 1.5

**Incorporation:** Set incorporation equipment to move treated soil around the plants in the row. Avoid damage to the sugar beet tap root from incorporation equipment.

**Precaution:** Cover exposed beet roots with soil before application of Treflan HFP to reduce the possibility of girdling.

### Incorporation with a Tine-Tooth Harrow (for Use in California, Colorado, Idaho, Nebraska, Oregon, Texas, Utah, Washington, and Wyoming)

A tine-tooth harrow (Flexline or Melroe) can be used to incorporate Treflan HFP in sugar beets. Incorporation with tine-tooth harrow requires two passes in opposite directions over the same set of rows. Set the harrow to cut 1 to 2 inches deep and operate at 3 to 6 mph. Set incorporation equipment carefully

to avoid damage to sugar beet tap root. Use application procedures and broadcast application rates listed in preceding section.

### Tank Mixing

For broader spectrum weed control, other products registered for use in sugar beets may be applied in tank mix combination with Treflan HFP or as a sequential treatment following application of Treflan HFP. When tank mixing, use the listed rate of Treflan HFP. Follow the label Directions for Use of each tank mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. See detailed information for tank mixing in the Product Information section of this label.

### Sugarcane

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

#### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
all textures	2.0 - 4.0 <sup>1</sup>

<sup>1</sup>Application rate within rate range may be adjusted according to weed pressure.

#### Postplant Application for Control of Most Annual Grasses, Including Guineagrass (for Use in Hawaii)

Surface apply Treflan HFP after planting (for plant cane) or after harvesting (for ratoon cane). For best results in plant cane, the soil surface should be smooth and finely tilled. Apply Treflan HFP as soon as possible after tillage and planting before germination and emergence of grass weeds. For optimum efficacy in ratoon cane, minimize surface residue from previous crop before applying. Apply Treflan HFP just before anticipated rainfall in non-irrigated and furrow-irrigated sugarcane. Apply 1/2 inch or more irrigation in drip-irrigated or sprinkler-irrigated sugarcane as soon as possible after applying Treflan HFP.

#### Broadcast Application Rates per Acre

Soil Texture	Treflan HFP (pints)
all textures	6.0 - 8.0

#### Repeat Applications:

Subsequent germination of grass weeds may occur prior to the development of a full dense canopy of sugarcane. If this occurs, additional grass weed establishment is strongly suppressed. One or two additional applications of Treflan HFP can be applied to maintain weed control during the early crop development period. For repeat applications, direct the spray to the soil surface to minimize interception of the herbicide by the crop.

#### Restrictions:

- Do not apply Treflan HFP as a postplant surface applied treatment within 180 days of harvest.

#### Applications Up to Layby for Plant Cane or Ratoon Cane (for Use in Louisiana and Texas)

Apply and incorporate Treflan HFP in spring from shortly before or after cane emergence until layby. Apply after beds have been shaved or false shaved. Loosen rain-packed beds 2 to 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 4 to 6 mph. Two incorporation passes are necessary.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
all textures	2.0 - 4.0 <sup>1</sup>

<sup>1</sup>Application rate within rate range may be adjusted according to weed pressure.

**Itchgrass (Raoulgrass) Control (for Use in Louisiana)**

Apply and incorporate Treflan HFP on plant or ratoon cane. Follow use directions in preceding section for layby application.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
all textures	2.0 - 4.0

**Tomato**

Apply Treflan HFP to direct-seeded tomato as a directed spray between rows and beneath plants and incorporate at the time of blocking or thinning. For transplant tomatoes, apply and incorporate before transplanting or apply post-plant as a directed spray to the soil between the rows and beneath plants and incorporate.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.25 - 1.5
fine	1.5 - 2.0

- Coarse and medium soils with 2 to 5% organic matter - 1.5 pints
- Fine soils with 2 to 5% organic matter - 2 pints
- Soils with 5 to 10% organic matter - 2 pints
- Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

**Tree and Vine Crops - Citrus, Stone Fruits, Nut Trees, and Grapes****New Plantings of Citrus, Stone Fruits, and Nut Trees**

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

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.0
medium	1.25 - 1.5
fine	1.5 - 2.0

- All soils with 2 to 5% organic matter - 1.5 to 2 pints
- All soils with 5 to 10% organic matter - 2 pints
- Use lower rate in rate range in areas receiving less than 20 inches total rainfall and irrigation.

**New Plantings of Grapes**

Apply and incorporate Treflan HFP before transplanting.

**Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
coarse	1.0 - 1.5
medium	1.5 - 3.0
fine	3.0 - 4.0

- Soils with 2 to 10% organic matter - 4 pints
- Use lower rate in rate range in areas receiving less than 20 inches total rainfall and irrigation.

**Restriction:** Do not use more than 2 pints per acre on mist propagated grape rootings.

**Pre-harvest Interval:** Do not apply to vineyards within 60 days of harvest.

#### **Established Non-Bearing and Bearing Citrus, Stone Fruits, Nut Trees, and Grapes**

Treflan HFP may be applied in established non-bearing and bearing grapes and plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine and walnut trees. In established plantings, apply and incorporate Treflan HFP prior to periods of weed germination or immediately after existing weeds are controlled by tillage or herbicide treatment. Apply as a soil directed spray and incorporate using methods not injurious to the crop. Do not apply to grapes within 60 days of harvest.

#### **Broadcast Application Rates per Acre**

Soil Texture	Treflan HFP (pints)
all soil textures	2.0 - 4.0

Application rate within the rate range may be adjusted according to weed pressure.

**Treflan HFP may be applied to non-bearing citrus trees through irrigation water rings to provide preemergence control of labeled weeds.**  
(Use Only in the State of Florida)

**Mixing:** Mix at a rate of 12 fluid ounces of Treflan HFP per 500 gallons of water. Agitate until uniformly dispersed in tank.

**Application:** Apply 10 gallons of the mixture per four foot diameter water ring per tree. Application should be made at the second or third watering and should not be applied in combination with any other pesticide.

#### **Special Use Programs**

##### **Rhizome Johnsongrass Control - Special Two-Year Use Program**

Treflan HFP may be applied for two consecutive years in a special use program to control rhizome johnsongrass in established grapes and in plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, plum, prune, tangerine, and walnut trees. Do not apply to grapes within 60 days of harvest.

**Soil Preparation:** Work the soil thoroughly to move rhizomes near the soil surface and cut them into smaller pieces.

#### **Broadcast Application Rates per Acre**

The following application rate must be applied for two consecutive years:

Soil Texture	Treflan HFP (pints)
all soil textures	4.0