

## **PERENIAL WEEDS - SPURGE, LEAFY**

### General Information

#### GENERAL INFORMATION

For use in Colorado, Idaho, Montana, North Dakota, South Dakota, Utah, Wyoming, and portions of Kansas, Nebraska, Nevada, Oklahoma, Oregon, and Washington.

This product is authorized for use in specified counties in the following states: Kansas, Nebraska, Nevada, Oklahoma, Oregon, Washington.

Kansas: Barber, Barton, Cheyenne, Clark, Comanche, Cowley, Decatur, Edwards, Ellis, Ellsworth, Finney, Ford, Gove, Graham, Grant, Gray, Greeley, Hamilton, Harper, Haskell, Hodgemean, Kearny, Kingman, Kiowa, Lane, Lincoln, Logan, Meade, Mitchell, Morton, Ness, Norton, Osborne, Pawnee, Pratt, Rawlins, Reno, Rice, Rooks, Rush, Russell, Scott, Sedgwick, Seward, Sheridan, Sherman, Stafford, Stanton, Stevens, Sumner, Thomas, Trego, Wallace, Wichita

Nebraska: Arthur, Banner, Box Butte, Chase, Cheyene, Dawes, Deuel, Dundy, Frontier, Garden, Grant, Hayes, Hitchcock, Hooker, Keith, Kimball, Lincoln, McPherson, Morrill, Perkins, Red Willow, Scotts Bluff, Sheridan, Sioux

Nevada: Churchill, Elko, Humboldt, Lyon, Pershing

Oklahoma: Alfalfa, Beaver, Blaine, Canadian, Cimarron, Custer, Dewey, Ellis, Garfield, Grant, Harper, Kay, Kingfisher, Logan, Major, Noble, Pawnee, Payne, Roger Mills, Texas, Woods, Woodward

Oregon: Baker, Crook, Deschutes, Gilliam, Grant, Harney, Hood River, Jefferson, Malheur, Morrow, Sherman, Umatilla, Union, Wallowa, Wasco, Wheller

Washington: Adams, Asotin, Benton, Chelan, Columbia, Douglas, Ferry, Franklin, Garfield, Grant, Kittitas, Klickitat, Lincoln, Okanogan, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman, Yakima

Touchdown CF is a nonselective foliar systemic herbicide used to control a broad spectrum of emerged grass and broadleaf weeds, both annual and perennial, in:

- Conservation Compliance/Conservation Reserve Program (CRP)
- Corn
- Fallowland and postharvest
- Farmsteads
- Grass seed production
- Pastures
- Small Grains
- Sorghum
- Soybeans

Touchdown CF is formulated as a liquid concentrate which contains 3 pounds acid equivalent per gallon.

#### GENERAL USE PRECAUTIONS

- Touchdown CF requires actively growing green plant tissue to function. Application to drought stressed weeds or weeds with little green foliage (i.e. mowed, cut, or haled on weeds); weeds covered with dust; weeds damaged by insects or diseases may result in reduced weed control.
- Touchdown CF does not provide soil residual control of weeds. Weeds emerging after application will require retreatment.
- Heavy rainfall or irrigation shortly after application may require retreatment.
- Tillage or mowing within 3 days following application may reduce weed control.
- Do not apply this product through any type of irrigation system.
- Do not spray if conditions of thermal inversion exist, or if wind direction and speed may cause spray to drift onto adjacent nontarget areas. Drift minimization is the responsibility of the applicator.

Consult with local and State agricultural authorities for information regarding

avoiding or minimizing spray drift.

- Touchdown CF is not volatile and cannot move as a vapor after application onto nontarget vegetation.
- It is recommended that the spray system be thoroughly cleaned with water and a commercial tank cleaner after each use.
- Spray solutions of Touchdown CF should be mixed, stored, and applied using only plastic, plastic lined steel, stainless steel, aluminum, or fiberglass containers. Concentrate should not be stored in galvanized steel, carbon steel, aluminum, or unlined steel containers.
- There are no rotational crop restrictions following application of this product.
- Damage may be caused by contact of Touchdown CF to any vegetation to which treatment is not intended.
- In crop areas, do not exceed a total of 6 lbs. a.i. glyphosate (8 qts. of Touchdown CF) per acre per year. In noncrop areas, do not exceed a total of 7.95 lbs. a.i. of glyphosate (10.6 qts. Of Touchdown CF) per acre per year.
- Do not exceed 0.75 lbs. a.i. of glyphosate (1 qt. of Touchdown CF) per acre by air unless otherwise specified on the label.
- For broadcast postemergence treatments, do not harvest or feed treated vegetation for 8 weeks following application, unless otherwise specified.
- The maximum use rates stated throughout this product's labeling apply to this product combined with the use of all other herbicides containing glyphosate or sulfosate as the active ingredient, whether applied as mixtures or separately. Calculate the application rates and ensure that the total use of this and other glyphosate or sulfosate containing products does not exceed maximum use rate.

## APPLICATION PROCEDURES

### TIMING

Touchdown CF should be applied to actively growing emerged weeds. Annual weeds of 6 inches or less in height are typically the easiest to control. Generally, more effective control of perennial weeds is achieved at the flowering or seedhead stage.

Refer to the WEEDS CONTROLLED section for specific application timing.

When annual weeds have been mowed or grazed, wait for 3-4 inches of new growth to appear prior to application. When perennial weeds have been mowed or grazed, allow new growth to reach recommended stage prior to application.

Visible effects on annual weeds occurs within 2-4 days after application; effects on perennial weeds may take 7 days or longer. Extremely cool or cloudy weather following treatment may slow activity.

## BROADCAST APPLICATIONS

Ground: Applications should be made in 3-40 gallons of water per acre.

When foliage is dense, spray volume should be increased to ensure coverage of the target weeds. Flatfan nozzles will result in the most effective application of Touchdown CF. Spray boom and nozzle heights must be adjusted to provide coverage of target weed. Flood nozzles may result in reduced weed control due to inadequate coverage.

Air: Applications should be made in 3-15 gallons of water per acre.

Spray should be released at the lowest height consistent with effective weed control and flight safety.

Applications more than 10 feet above the canopy should be avoided.

Use the largest droplet size consistent with good weed control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding inappropriate spray boom pressure. Solid stream or low shear nozzles may be utilized to reduce small droplet formation. These nozzles direct the fluid parallel to the existing airflow to reduce shear effects. Other techniques may include reducing the fan angle of flat fan nozzles if used, or reducing the deflector plate angle if deflector type nozzles are used. Ensure the spray is released at an appropriate distance below the airfoil.

For best results, each specific aerial application vehicle used should be quantifiably pattern tested for aerial application of Touchdown CF herbicide initially and every year thereafter. To minimize drift, it is suggested aerial application equipment

produce the following minimum spray deposition characteristics:

Volume Median Diameter (VMD) > 400 microns

Volume Diameter (VD) {0.9} > 200 microns

Prolonged exposure of Touchdown CF to uncoated steel surfaces may result in corrosion and possible failure of the part. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion. To prevent corrosion of exposed parts, thoroughly wash aircraft after each day of spraying to remove residues of Touchdown CF accumulated during spraying or from spills. Landing gear are most susceptible.

#### SHIELDED/HOODED APPLICATION

Use shielded/hooded sprayers to control weeds between rows while protecting the crop from the herbicide. Keep shields/hoods as close to the ground as possible and avoid ground speed in excess of 5 mph. Use appropriate nozzles, spacing, and pressure to achieve coverage without allowing spray to touch or drift onto the crop. Maintain equipment in good operating condition to prevent leakage or dripping onto the crop. Refer to state extension service recommendations and equipment manufacturers' guidelines for more information on proper operation of shielded/hooded sprayers.

#### CDA EQUIPMENT

For control of annual weeds with hand held equipment, apply a 20% solution of Touchdown CF at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 mph (1 qt./A ). For perennial weeds, use a 20-40% solution of Touchdown CF at a flow rate of 2 ounces per minute and a walking speed of 0.75 mph (2-4 qts./A). For vehicle mounted equipment, apply in 3-15 gallons of water per acre.

Refer to the WEEDS CONTROLLED section for application rates and timing.

Precautions should be taken to avoid contact with crops or desirable vegetation.

Limitations, Restrictions, and Exceptions

#### PERENNIAL WEEDS

## SPURGE LEAFY

### Application Timing and Remarks

For suppression: greater than 12 inches tall in late summer.

Can be tank mix with 2,4-D na dicamba.

### Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Spot treatment](#)

### Rates

[field\\_rates 0](#)

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### Restricted Entry Interval

12 hours

### Timings

[Postemergence \(Weed\)](#)