

PM 25

10182-429

11/3/97

P 1236



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

10182-
429

Date of Issuance:

NOV 3 1997

NOTICE OF PESTICIDE:

X Registration
____ Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Touchdown BTU

Name and Address of Registrant (include ZIP Code):

Zeneca Agricultural Products
P.O. Box 15458
Wilmington, DE 19850-5458

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

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

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

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

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. 10182-429".
- b. In the precautionary statements (p.6), add the following immediately after the first paragraph:

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: long sleeved shirt and long pants, socks and shoes, and waterproof gloves.

- c. In the precautionary statements (p.6), delete the following from the first paragraph (because it is repeated elsewhere):

Signature of Approving Official:

Date:

11-3-97

Wear long-sleeved shirt and long pants, socks and shoes, and waterproof gloves. Wash thoroughly with soap and water after handling.

- d. Enclose the USER SAFETY RECOMMENDATIONS (p. 6) and the AGRICULTURAL USE REQUIREMENTS (p. 7) sections in a box.
- e. In the use directions, in the Spot Treatments section (p.11), change "(TOUCHDOWN BTU in water)" to "(volume TOUCHDOWN BTU/volume total solution)".
- f. In the use directions, in the **NONBEARING CROPS** section (p. 18), in the end note beginning "*TOUCHDOWN BTU can be used..." change "of harvest" to "prior to harvest".
- g. In the tank mixtures table for citrus and other crops(p.20), put an "X" in the lemons column for the following products: Devrinol 50-DF herbicide, Direx 4L herbicide, Karmex DF herbicide, Krovar (I or II) herbicide, Prowl or Prowl 3.3 EC herbicide, Sim-Trol 4L, Solicam DF, and Surflan (AS or 75W). Because all of these products are registered for use on all citrus, they are registered for use on lemons.

3. Submit two copies of the revised final printed label for the record.

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

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

TOUCHDOWN® BTU Herbicide

NONSELECTIVE FOLIAR SYSTEMIC HERBICIDE FOR WEED CONTROL

ACCEPTED
with COMMENTS
In EPA Letter Dated

COMPLETE DIRECTIONS FOR USE

NOV 3 1997
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

10182-429

CONDITIONS OF SALE
AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

Made in U.S.A.
ZENECA Ag Products
ZENECA Inc.
Wilmington, DE 19850-5458

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KEEP OUT OF REACH OF CHILDREN

CAUTION

ACTIVE INGREDIENT:

Sulfonium, trimethyl-salt with N-(phosphonomethyl)glycine (1:1)* 48.6%

INERT INGREDIENTS: 51.4%

Total 100.0%

*Sulfosate

Contains 5 pounds active ingredient per gallon.

EPA Reg. No. 10182-xxx

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

**CALL ZENECA'S MEDICAL EMERGENCY INFORMATION NETWORK AT
1-800-327-8633 (1-800-F-A-S-T-M-E-D) FOR 24-HOUR EMERGENCY MEDICAL
ASSISTANCE.**

**CALL CHEMTREC AT 1-800-424-9300 FOR A CHEMICAL EMERGENCY such as a spill,
leak, fire or accident.**

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wear long-sleeved shirt and long pants, socks and shoes, and waterproof gloves. Wash thoroughly with soap and water after handling.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
 - Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
 - Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
-

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

In case of spill, ISOLATE the spill. Absorb spill with inert absorbent material such as clay or Fuller's earth. Sweep up used absorbent and place in an appropriate chemical waste container. Flush spill area with water. Observe all local, State and Federal laws and regulations regarding disposal, spill, cleanup, removal or discharge.

DRIFT: Caution must be taken when applying TOUCHDOWN BTU to avoid drift or contact with nontarget plant species. Such contact may result in plant injury.

DIRECTIONS FOR USE

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

- Apply this product only as specified on the label.
- Do not apply this product through any type of irrigation system.
- Do not exceed a total of 6½ pints of TOUCHDOWN BTU per acre per year.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls.
 - Waterproof gloves.
 - Shoes plus socks.
-

GENERAL INFORMATION

TOUCHDOWN BTU 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;
- chemical fallow-ecofallow systems;
- corn;
- soybeans;
- bearing orange, grapefruit, lemon, lime, citron, kumquat, tangelo, and tangerine groves;
- any variety of bearing table, wine or raisin grapes;
- bearing almond, beechnut, Brazil nut, butternut, cashew, chestnut, chinquapin, filbert, hickory nut, macadamia nut, pecan, and walnut groves;
- bearing apricot, cherry, nectarine, peach, plum, plumcot, and prune;
- nonbearing groves, orchards, or vineyards up to 1 year of harvest; and
- certain noncrop areas around the farm

TOUCHDOWN BTU is formulated as a liquid concentrate which contains 5 pounds active ingredient per gallon.

Heavy rainfall or irrigation shortly after application may require retreatment.

NOTE: Stainless steel, plastic-lined steel, plastic or fiberglass containers are acceptable for mixing and storing TOUCHDOWN BTU. TOUCHDOWN BTU should not be mixed or stored in galvanized steel or unlined steel containers. TOUCHDOWN BTU is not compatible with carbon steel and neoprene or butyl rubber

APPLICATION DIRECTIONS

See CHEMICAL FALLOW-ECOFALLOW SYSTEMS Section for Use Directions specific for this use.

Timing

TOUCHDOWN BTU should be applied to actively growing emerged weeds. Annual weeds of 6 inches or less in height are typically the easiest to control. Generally, perennial weeds should be treated at the flowering or seedhead stage.

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.

Rates

Follow recommended rates for TOUCHDOWN BTU listed in the WEEDS CONTROLLED section. Use the higher label rates when weeds are dense or large. Also, use higher application volumes and pressures when weed vegetation is dense.

Tankmixes with Residual Herbicides

Refer to crop sections for recommended tankmixes. It is recommended that the compatibility of any tankmix combination be tested on a small scale such as a jar test before actual tank mixing. Tankmixes of TOUCHDOWN BTU with other pesticides, fertilizers, or any other additives except as specified on this label or other approved ZENECA supplemental labeling may result in tankmix incompatibility or unsatisfactory performance.

For Control of Annual Weeds with a Tankmix: Apply TOUCHDOWN BTU at 1½ pints for the control of annual weeds that are less than 12 inches tall and actively growing. When annual weeds are taller than 12 inches or under stress, use 2½ pints of TOUCHDOWN BTU herbicide.

For Control of Perennial Weeds with a Tankmix: Apply TOUCHDOWN BTU at 2½ to 6½ pints for the control or suppression of perennial weeds. Refer to the **WEEDS CONTROLLED** section for application rates and timing for specific perennial weeds. Perennial weeds may require multiple applications for control. If multiple applications are required, then no more than 6½ pints of TOUCHDOWN BTU should be applied per year.

Add an agriculturally approved nonionic surfactant/wetting agent when tank mixing TOUCHDOWN BTU with residual herbicides. See the **SPRAY ADDITIVES** section of this label for recommendations.

In general, TOUCHDOWN BTU, should be tank mixed as follows:

1. Fill spray tank 1/2 full with clean water.
2. Begin tank agitation and continue throughout mixing and spraying.
3. Add dry formulations (WP, DF, etc.) to tank.
4. Add liquid formulations (SC, EC, L, etc.) to tank.
5. Add TOUCHDOWN BTU and nonionic surfactant/wetting agent to tank.
6. Fill remainder of spray tank.

Always refer to labels of other pesticide products for mixing directions and precautions which may differ from those outlined here. Use in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

SPRAY ADDITIVES

Surfactants/Wetting Agents

A nonionic surfactant or wetting agent (approved for use on growing crops) may be used at levels up to 0.25%. All nonionic surfactants or wetting agents should contain at least 75% active ingredient.

Ammonium Sulfate (Not for use in California)

Control of annual and perennial weeds with TOUCHDOWN BTU may be improved by adding dry ammonium sulfate at 1 - 2% by weight or 8.5 - 17 pounds per 100 gallons of water. Use ammonium sulfate in conservation compliance programs, in chemical fallow-ecofallow systems, in noncrop areas, in nonbearing crops, in citrus, and for preplant/preemergence applications. DO NOT reduce use rates of TOUCHDOWN BTU when using ammonium sulfate.

APPLICATION EQUIPMENT & TECHNIQUES

Broadcast Applications

Ground

Apply TOUCHDOWN BTU to actively growing weeds at the broadcast rates indicated in the WEEDS CONTROLLED section. Applications should be made in 10 to 30 gallons of water per acre with conventional spray equipment, or in 3 to 10 gallons per acre with low volume equipment and in chemical fallow-ecofallow systems. Use higher volumes if weed foliage is dense.

Flat-fan nozzles will result in the most effective application of TOUCHDOWN BTU. Flat fans should be used at 30 to 50 psi. Flood nozzles may result in reduced weed control due to inadequate coverage.

Air

Apply TOUCHDOWN BTU to actively growing weeds by air equipment in a minimum of 3 gallons of water per acre. Refer to the **WEEDS CONTROLLED** Section for rates and timing of application.

All aerial equipment must be properly maintained and washed to remove product residues after use.

Spray should be released at the lowest height consistent with 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 excessive spray boom pressure.

Drift control additives may be used with TOUCHDOWN BTU. Read and follow the manufacturer's directions for use.

Do not make aerial applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Do not apply when winds exceed 15 MPH or there are wind gusts as this could cause drift to adjacent nontarget vegetation.

Spot Treatments

For annual weeds less than 6 inches, use a 0.75% solution (TOUCHDOWN BTU plus nonionic surfactant/wetting agent in water). For annual weeds over 6 inches, use a 1¼% solution. Use a 2% solution for most perennials except as noted in the **SPOT TREATMENT OF HARD TO CONTROL WEEDS** table. When using motorized spot spray equipment (rider bar), use a 3% solution. Spray the solution on actively growing weeds until uniformly wet but not to the point of runoff. Retreat 14-21 days later if regrowth occurs.

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SPOT TREATMENT OF HARD TO CONTROL WEEDS

WEED SPECIES	SCIENTIFIC NAMES	HANDGUN % SOLUTION	APPLICATION TIMING AND REMARKS
Balsamapple*	<i>Momordica charantia</i>	1 - 1.25%	Actively growing
Guineagrass*	<i>Panicum maximum</i>	1 - 1.25%	Actively growing, 7-leaf stage
Lantana-largeleaf*	<i>Lantana camara</i>	1 - 1.25%	Actively growing, at or beyond bloom
Paragrass*	<i>Brachiaria mutica</i>	1.5 - 2%	Actively growing, seedhead
Pampasgrass*	<i>Erianthus ravennae</i>	1.5 - 2%	Actively growing, at or beyond boot
Sweet Potato, Wild*	<i>Ipomoea pandurata</i>	2%	Actively growing, at or beyond bloom
Torpedograss*	<i>Panicum repens</i>	1.75 - 2%	Actively growing at or beyond seedhead
Vaseygrass*	<i>Paspalum urvillei</i>	1.75 - 2%	Actively growing, at seedhead

* Repeat treatment may be required to provide control.

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

TOUCHDOWN BTU Herbicide Spot Spray Dilution Table

Solution Strength	To Make This Volume				
	1 gallon	2 gallons	10 gallons	25 gallons	100 gallons
0.75%	1 fl oz	2 fl ozs	9 fl ozs	1½ pints	3 quarts
1%	1½ fl ozs	2½ fl ozs	12½ fl ozs	2 pints	1 gallon
1.25%	1¾ fl ozs	3½ fl ozs	1 pint	2½ pints	5 quarts
1.5%	2 fl ozs	3¾ fl ozs	1¼ pints	3 pints	6 quarts
1.75%	2¼ fl ozs	4½ fl ozs	1½ pints	3½ pints	7 quarts
2%	2½ fl ozs	5½ fl ozs	1½ pints	4 pints	2 gallons
3%	4 fl ozs	8 fl ozs	2½ pints	8 pints	3 gallons

½ fl oz = 2 teaspoons

¼ fl oz = 1 tablespoon

1 fl oz = 2 tablespoons

8 fl ozs or ½ pint = 1 cup

16 fl ozs = 1 pint

1 gallon = 8 pints

Wiper Application

TOUCHDOWN BTU may be applied using a wiper or "wick" applicator for selective control or suppression of annual and perennial weeds which become taller than the crop or desirable vegetation. Mix 1 quart of TOUCHDOWN BTU in 1 gallon of water. Precautions should be taken to avoid contact with crops or desirable vegetation. Equipment should be operated at speeds of 5 mph or less. Use slower speeds where weeds are dense. For improved control, make two applications in opposite directions. Do not use wiper applications in corn or in bearing grape vineyards.

GENERAL USE PRECAUTIONS

- TOUCHDOWN BTU requires actively growing green plant tissue to function. Application to drought-stressed weeds or weeds with little green foliage (i.e., mowed or cut weeds), may result in reduced weed control.
- Do not till or mow within 3 days following application.
- DO NOT spray if conditions of thermal inversion exist, or if wind direction and speed may cause spray to drift onto adjacent areas. Drift minimization is the responsibility of the applicator. Consult with local and State agricultural authorities for information regarding avoiding or minimizing spray drift.
- It is recommended that the spray system be thoroughly cleaned with water and a commercial tank cleaner after each use.
- Rotational crops may be planted back into TOUCHDOWN BTU treated areas 35 days after application.
- Do not exceed a total of 6½ pints of TOUCHDOWN BTU per acre per year.
- Do not graze or harvest treated cover crops for feed.

CONSERVATION COMPLIANCE

(For use in compliance with the Federal Conservation Compliance Programs)

- Apply for control of annual and perennial grass and broadleaf weeds. Refer to **WEEDS CONTROLLED** section for use rates.
- Prior to application, remove existing vegetation by grazing, mowing, burning, etc. Allow 3 to 4 inches of new growth before application of TOUCHDOWN BTU.
- TOUCHDOWN BTU may be tank mixed with other herbicides registered for this use.

FALLOWLAND AND POST HARVEST USE

TOUCHDOWN BTU may be applied to fallowland and to fields following harvest to control annual and perennial weeds. Refer to **WEEDS CONTROLLED** Section for use rates. Repeat applications may be necessary to control weeds emerging after application. Use the higher rate on heavy or sodded infestations. Allow sufficient time for regrowth to occur after harvest prior to application. Avoid application after plants have been exposed to severe frost. Rotational crops may be planted back into TOUCHDOWN BTU treated areas 35 days after application.

CORN (Field Corn, Popcorn, and Seed Corn)

MINIMUM OR NO-TILLAGE SYSTEMS

TOUCHDOWN BTU is a nonselective systemic herbicide for use as a broadcast spray to control emerged annual and perennial weeds in fields planted to minimum or no-till corn. Apply as a broadcast application before, during, or after planting, but before crop emergence. TOUCHDOWN BTU can also be applied to corn as a spot spray.

Follow the directions listed in the **APPLICATION DIRECTIONS**, **SPRAY ADDITIVES**, and **APPLICATION EQUIPMENT AND TECHNIQUES** sections. Refer to the **WEEDS CONTROLLED** section for rates.

GENERAL USE PRECAUTIONS FOR CORN

- Do not apply within 90 days of harvest of corn grain or corn fodder.
- Do not use on sweet corn.
- Do not apply more than 6½ pints per acre per year as a combination of broadcast sprays prior to crop emergence and as spot spray applications.

TANK MIXTURES FOR CORN

TOUCHDOWN BTU can be tank mixed with the following pesticides. Several of the herbicides listed provide preemergence control or suppression of annual weeds. UAN may be used as a carrier at 10 - 70 gallons per acre with 2,4-D, Banvel®, or any residual herbicides on the following list. AMBUSH®, KARATE®, and WARRIOR® are insecticides which can be tank mixed with TOUCHDOWN BTU for control of labelled pests.

TOUCHDOWN BTU plus:

AMBUSH	Hornet™
Atrazine	KARATE
Banvel	Lariat®
Bicep®	Lasso®
Bicep II®	Lightning™
Bladex®	Linex®
Broadstrike®	Lorox®
Bullet®	Marksman®
Clarity®	Micro-Tech®
Dual®	Prowl®
Dual II®	Simazine
Extrazine® II	SURPASS® EC
Frontier®	SURPASS 100
FULTIME™	TOPNOTCH™
Guardman®	WARRIOR
Harness®	2,4D
Harness Xtra	

Refer to individual product labels for precautionary statements, restrictions, rates, and a list of weeds controlled. Refer to the **WEEDS CONTROLLED** section for rates of TOUCHDOWN BTU to use in a tankmix.

SOYBEANS**MINIMUM OR NO-TILLAGE SYSTEMS**

TOUCHDOWN BTU is a nonselective systemic herbicide for use as a broadcast spray to control emerged annual and perennial weeds in minimum or no-till planted soybeans. Apply as a broadcast application before, during or after planting, but before crop emergence. TOUCHDOWN BTU can be applied to soybeans as a spot spray and by wiper or wick. Follow directions listed in the **APPLICATION DIRECTIONS**, **SPRAY ADDITIVES**, and **APPLICATION EQUIPMENT AND TECHNIQUES** sections. Refer to **WEEDS CONTROLLED** section for rates.

GENERAL USE PRECAUTIONS FOR SOYBEANS

- Spot application must be made at least 8 weeks before harvest.
- Wiper or wick application must be made at least 7 days before harvest.
- Avoid contact with soybean foliage.
- Do not apply more than 6½ pints per acre per year as a combination of broadcast sprays prior to crop emergence and as spot spray and wiper applications.

TANK MIXTURES FOR SOYBEANS

TOUCHDOWN BTU can be tank mixed with the following pesticides. Several of the herbicides listed provide preemergence control or suppression of annual weeds. WARRIOR is an insecticide which can be tank mixed with TOUCHDOWN BTU for control of labelled pests.

TOUCHDOWN BTU plus:

2,4-D	Linex
Authority™	Lorox
Authority Broadleaf	Lorox Plus
Broadstrike	Partner®
Canopy®	Preview®
Canopy XL	Prowl
Command®	Pursuit® Plus
Dual	Scepter®
Dual II	Sencor®
Frontier	Squadron®
FUSION®	Steel™
Gemini®	Turbo®
Lasso	WARRIOR
Lexone®	

Refer to individual product labels for precautionary statements, restrictions, rates, and a list of weeds controlled. Refer to the **WEEDS CONTROLLED** tables for rates of TOUCHDOWN BTU to use in a tankmix.

BEARING AND NONBEARING CROPS

TOUCHDOWN BTU can be used to control annual and perennial weeds in the following bearing crops:

BEARING CROPS

Almonds	Lemon
Apricot	Lime
Beech Nuts	Macadamia Nuts
Brazil Nuts	Nectarine
Butternuts	Orange
Cashews	Peach
Cherry, Sweet	Pecans
Cherry, (Sour, Tart)	Plum (<i>Prunus domestica</i> , <i>Prunum spp.</i>)
Chestnuts	Plum, Chickasaw
Chinquapins	Plum, Damson
Citron	Plum, Japanese
Filberts (Hazelnuts)	Plumcot
Grapefruit	Prune (Fresh)
Grapes, (All)	Tangelo
Hickory Nuts	Tangerine
Kumquat	Walnuts, Black and English

NONBEARING CROPS*

TOUCHDOWN BTU can be used to control annual and perennial weeds in the following nonbearing groves, orchards, or vineyards:

Acerola (West Indian Cherry)	Jojoba
Almonds	Kiwi
Apple	Lemons
Apricots	Limes
Artichokes	Loganberry
Asparagus	Macadamia
Avocados	Mango
Bananas	Nectarines
Blackberry	Olives
Blueberry	Oranges
Boysenberry	Papayas
Cherries	Passion Fruit
Coffee	Peaches
Crabapple	Pears
Cranberry	Pecans
Dates	Persimmons
Dewberry	Pistachios
Elderberry	Plantains
Figs	Plums
Filberts	Pomegranates
Ginseng	Prunes
Gooseberry	Raspberry
Grapes	Tangelos
Grapefruit	Tangerines
Guava	Walnuts
Huckleberry	

* TOUCHDOWN BTU can be used during site preparation prior to planting and up to 1 year of harvest.

APPLICATION DIRECTIONS FOR BEARING CITRUS, GRAPES, NUTS, STONE FRUIT AND NONBEARING CROPS

Applications may be made with boom equipment, shielded sprayers, hand-held and high-volume wands, lances, orchard sprayers, or with wiper application equipment. Follow directions listed in the **APPLICATION DIRECTIONS, SPRAY ADDITIVES, and APPLICATION EQUIPMENT AND TECHNIQUES** sections of this label. Refer to the **WEEDS CONTROLLED** section for application rates and timing. For hard to control weeds, refer to **SPOT TREATMENT** section.

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

Multiple applications may be necessary to control certain perennial weeds, and weeds originating from underground parts (rhizomes, stolons, tubers) that are initially untreated, but do not apply more than 6½ pints of TOUCHDOWN BTU per acre per year. TOUCHDOWN BTU does not provide residual weed control, and as such, weeds emerging after application will not be controlled. For residual weed control, tank mix TOUCHDOWN BTU with residual herbicides as prescribed in the **TANK MIXTURES FOR BEARING CITRUS, GRAPES, NUTS, STONE FRUIT AND NONBEARING CROPS** section, or make multiple applications.

TANK MIXTURES WITH RESIDUAL HERBICIDES FOR BEARING CITRUS, GRAPES, NUTS, STONE FRUIT AND NONBEARING CROPS

TOUCHDOWN BTU can be tank mixed with herbicides listed in the following table for control or suppression of emerged annual and perennial weeds. The following residual herbicides provide preemergence control of weeds listed on the individual product labels. The "X" denotes in which bearing crops certain tankmixes can be used. All tankmixes listed can be used in the nonbearing crops listed on this label. Refer to the individual product labels for precautionary statements, restrictions, recommended rates and a list of weeds controlled.

Refer to the Tankmixes with Residual Herbicides section of the label for TOUCHDOWN BTU rates and timing information.

TOUCHDOWN BTU plus:	LEMONS	CITRUS (ALL)	GRAPES (ALL)	NUTS (ALL)	ORANGES/ GRAPEFRUIT (ALL)	STONE FRUIT (ALL)	PEACHES
DEVIRINOL [®] 50-DF herbicide		X	X	X	X	X	
Direx [®] 4L herbicide		X	X	X	X		
Goal [®] 1.6E herbicide			X	X		X	
Karmex [®] DF herbicide		X	X	X	X		X
Krovar [®] (I or II) herbicide		X		X	X		
Prowl or Prowl 3.3 EC herbicide		X		X	X		
Simazine (4L, 80W, or Caliber [®]) herbicide	X		X		X		
Sim-Trol [®] 4L		X		X	X		
Solicam [®] DF		X	X	X	X	X	
Surflan (AS or 75W)		X		X	X	X	
Simazine (4L, 80W, or Caliber 90) plus Surflan (AS or 75W)	X		X		X		
Goal 1.6E plus Surflan (AS or 75W)				X		X	
Goal 1.6E plus Simazine (80W, 4L, or Caliber 90)			X				
Goal 1.6E plus Surflan (AS or 75W) plus Simazine (80W, 4L, or Caliber 90)				X		X	

PERENNIAL GRASS SUPPRESSION OF ORCHARD FLOORS**BAHIAGRASS**

TOUCHDOWN BTU can be used to inhibit seedhead emergence and suppress vegetative growth for approximately 40 to 50 days with a single application. By using a sequential application, suppression of vegetative growth and inhibition of seedhead emergence can be extended to 120 days. Applications must be made prior to seedhead emergence. Apply TOUCHDOWN BTU at 20 to 30 days after complete green-up or after mowing to 4 inches tall. When a single application is planned, use 5 fluid ounces of TOUCHDOWN BTU per acre in 10 to 20 gallons of water. When a sequential application is planned, use 3½ fluid ounces per acre for the first application followed by another application of 3½ fluid ounces per acre 40 to 50 days later.

BERMUDAGRASS**For Suppression Only:****East of the Rocky Mountains:**

Apply 5 to 12 fluid ounces of TOUCHDOWN BTU in 3 to 20 gallons of water per acre. Make the application 2 weeks after complete green-up or after 3 to 4 inches of regrowth following mowing. Use 5 to 8 fluid ounces per acre if a lesser degree of suppression is desired. A sequential application can be used when regrowth occurs.

West of the Rocky Mountains:

Apply 12 fluid ounces of TOUCHDOWN BTU plus a nonionic surfactant/wetting agent per acre in 3 to 10 gallons of water per acre. Make the application 2 weeks after complete green-up or after 3 to 4 inches of regrowth following mowing. A sequential application can be used when regrowth occurs. See the **SPRAY ADDITIVES** section for recommendations for surfactants and wetting agents.

For Partial Control and Burndown:

TOUCHDOWN BTU can be used for burndown and partial control of bermudagrass at 1½ to 3½ pints in 3 to 20 gallons of water per acre. Use 1½ pints east of the Rocky Mountains and 3½ pints plus a nonionic surfactant/wetting agent west of the Rocky Mountains. See the **SPRAY ADDITIVES** section for recommendations for surfactants and wetting agents.

Use this treatment only if reduction of the bermudagrass stand can be tolerated. Allow at least 21 days for complete burndown.

COOL SEASON GRASS COVERS

For suppression of orchardgrass, fine fescue, tall fescue, and quackgrass apply 6 fluid ounces of TOUCHDOWN BTU in 10 to 20 gallons of water per acre. Add ammonium sulfate at 1 - 2% by weight or 8.5 - 17 pounds per 100 gallons of spray mix.

For suppression of Kentucky bluegrass, use 5 fluid ounces of TOUCHDOWN BTU. Do not add ammonium sulfate for suppression of Kentucky bluegrass.

LOW VOLUME APPLICATION (FLORIDA AND TEXAS ONLY)

To control or suppress the perennial weeds listed in the following table, apply the recommended rate of TOUCHDOWN BTU in 3 to 20 gallons of water per acre. Use 10-20 gallons per acre if weed foliage is dense. Apply when weeds are actively growing. Refer to the **WEEDS CONTROLLED** section for application timing for specific perennial weeds. If perennial weeds have been mowed or grazed, allow new growth to reach recommended growth stage prior to application.

USES FOR TOUCHDOWN BTU IN LOW VOLUME APPLICATIONS IN FLORIDA AND TEXAS ONLY

Weed Species	Rate of TOUCHDOWN BTU (Pints per Acre)			
	1½	3½	4½	6½
Bermudagrass	B	B	PC	C
Guineagrass				
Texas and Florida Ridge	B	C	C	C
Florida Flatwoods	NR	B	C	C
Paragrass	B	C	C	C
Torpedograss	NR	S	PC	PC

S = Suppression

B = Burndown

PC = Partial Control

C = Control

NR = Not Recommended

GENERAL USE PRECAUTIONS FOR BEARING CITRUS, GRAPES, NUTS, STONE FRUIT AND NONBEARING CROPS

- Do not allow the spray, spray drift, or mist to contact foliage, fruit, branches, canes, suckers, open wounds or green bark or other green parts of trees and vines. Contact with any tree or vine part other than mature brown woody bark can result in severe crop injury.
- Avoid contact with stumps as injury to adjacent trees may occur from root grafting.
- For peaches grown in the south and southeast regions: Apply with a shielded applicator which prevents contact with foliage, suckers, or bark of trees. SEVERE INJURY WILL OCCUR IF ANY PORTION OF THE PEACH TREE IS CONTACTED WITH SPRAY OR SPRAY DRIFT.
- For grapes grown in the Great Lakes and northeast regions: Apply prior to the end of bloom stage to avoid injury or apply with shielded equipment.
- Allow at least 13 days from the last application to harvest of citrus and stone fruit.
- Allow at least 14 days from the last application to harvest of grapes.
- Allow at least 20 days from the last application to harvest of nuts.

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WEEDS CONTROLLED

All weeds listed below are controlled by spray and hand-directed spot applications of TOUCHDOWN BTU. For spray application use the indicated rates. See DIRECTIONS FOR USE for mixing and application instructions.

TABLE 1
ANNUAL WEED CONTROL - TOUCHDOWN BTU RATES

WEED SPECIES	SCIENTIFIC NAMES	MAXIMUM HEIGHT/ LENGTH	PINTS PER ACRE
Foxtails	<i>Setaria</i> sp.	12"	2/3
Mustard, blue Mustard, tansy Mustard, tumble Mustard, wild	<i>Chorispora tenella</i> <i>Descurainia pinnata</i> <i>Sisymbrium altissimum</i> <i>Brassica kaber</i>	6"	2/3
Barley Rye Sandbur, field Shattercane Stinkgrass	<i>Hordeum vulgare</i> <i>Secale cereale</i> <i>Cenchrus incertus</i> <i>Sorghum bicolor</i> <i>Eragrostis ciliaris</i>	12"	2/3
Bluegrass, annual Bluegrass, bulbous Brome, downy Brome, Japanese Cheat Chickweed, common Chickweed, mouseear Cocklebur, common Corn Goatgrass, jointed Groundsel, common Henbit Horseweed/Marestail Kochia Lambsquarters, common Pennycress, field Rocket, London Spurge, annual Woolly cupgrass	<i>Poa annua</i> <i>Poa bulbosa</i> <i>Bromus tectorum</i> <i>Bromus japonicus</i> <i>Bromus secalinus</i> <i>Stellaria media</i> <i>Cerastium vulgatum</i> <i>Xanthium strumarium</i> <i>Zea mays</i> <i>Aegilops cylindrica</i> <i>Senecio vulgaris</i> <i>Lamium amplexicaule</i> <i>Conyza canadensis</i> <i>Kochia scoparia</i> <i>Chenopodium album</i> <i>Thlaspi arvense</i> <i>Sisymbrium irio</i> <i>Euphorbia</i> sp. <i>Eriochloa villosa</i>	6"	3/4
Crabgrass Johnsongrass, seedling Oats, wild Panicum, Texas Pigweed, redroot Pigweed, smooth Waterhemp, common Waterhemp, tall Witchgrass	<i>Digitaria</i> sp. <i>Sorghum halepense</i> <i>Avena fatua</i> <i>Panicum texanum</i> <i>Amaranthus retroflexus</i> <i>Amaranthus hybridus</i> <i>Amaranthus rudis</i> <i>Amaranthus tuberculatus</i> <i>Panicum capillare</i>	12"	3/4

Barnyardgrass Black nightshade Lettuce, prickly Ryegrass, Italian Shepherdspurse Sicklepod Signalgrass, broadleaf Smartweed (ladythumb) Smartweed, Pennsylvania Wheat	<i>Echinochloa crus-galli</i> <i>Solanum</i> sp. <i>Lactuca scariola</i> <i>Lolium multiflorum</i> <i>Capsella bursa-pastoris</i> <i>Cassia obtusifolia</i> <i>Brachiaria platyphylla</i> <i>Polygonum persicaria</i> <i>Polygonum pensylvanicum</i> <i>Triticum aestivum</i>	6"	1 1/4
Amaranth, livid Amaranth, slender Amaranth, spiny Horseweed/Marestail Lambsquarters, common	<i>Amaranthus lividus</i> <i>Amaranthus viridis</i> <i>Amaranthus spinosus</i> <i>Conyza canadensis</i> <i>Chenopodium album</i>	12"	1 1/4
Morningglory Sicklepod	<i>Ipomoea</i> sp. <i>Cassia obtusifolia</i>	2"	1 1/2
Hophornbeam copperleaf Prickly sida (Teaweed) Red rice	<i>Acalypha ostryifolia</i> <i>Sida spinosus</i> <i>Oryza sativa</i>	4"	1 1/2
Fall Panicum Fleabane, rough Pusley, Florida Sowthistle, annual Sprangletop Sunflower, common Thistle, Russian	<i>Panicum dichotomiflorum</i> <i>Erigeron strigosus</i> <i>Richardia scabra</i> <i>Sonchus oleraceus</i> <i>Leptochloa</i> sp. <i>Helianthus annuus</i> <i>Salsola iberica</i>	6"	1 1/2
Goosegrass Sicklepod Spanishneedles Spurge, annual	<i>Eleusine indica</i> <i>Cassia obtusifolia</i> <i>Biddens bipinnata</i> <i>Euphorbia</i> sp.	6-12"	1 1/2
Ragweed, common Ragweed, giant	<i>Ambrosia artemisiifolia</i> <i>Ambrosia trifida</i>	12"	1 1/2
Wheat	<i>Triticum aestivum</i>	12"	1 3/4
Camphorweed	<i>Heterotheca subaxillans</i>	6"	2 1/3
Velvetleaf	<i>Abutilon theophrasti</i>	6"	2 1/3
Fleabane, rough Kochia Sowthistle, annual Sunflower, common Thistle, Russian	<i>Erigeron strigosus</i> <i>Kochia scoparia</i> <i>Sonchus oleraceus</i> <i>Helianthus annuus</i> <i>Salsola iberica</i>	6-12"	2 1/3
Fall Panicum Filaree Sprangletop	<i>Panicum dichotomiflorum</i> <i>Erodium</i> sp. <i>Leptochloa</i> sp.	12"	2 1/3
Cutleaf eveningprimrose Carolina geranium	<i>Oenothera lacinata</i> <i>Geranium carolinianum</i>	6"	2 1/2 - 4 1/2

TABLE 2
ANNUAL WEED CONTROL - TOUCHDOWN BTU RATES IN A TANKMIX
WITH 0.25 LBS AI/A OF BANVEL OR 0.5 LBS AI/A OF 2,4-D

Weed Species	Scientific Names	Maximum Height/Length	TOUCHDOWN BTU PINTS PER ACRE
Lettuce, prickly Morningglory Ragweed, common Ragweed, giant Smartweed, Pennsylvania Velvetleaf	<i>Lactuca serriola</i> <i>Ipomoea</i> sp. <i>Ambrosia artemisiifolia</i> <i>Ambrosia trifida</i> <i>Polygonum pennsylvanicum</i> <i>Abutilon theophrasti</i>	6"	3/4
Cocklebur, common Fleabane, rough Horseweed/Marestail Kochia Lambsquarters, common Sunflower, common Thistle, Russian	<i>Xanthium strumarium</i> <i>Erigeron strigosus</i> <i>Conyza canadensis</i> <i>Kochia scoparia</i> <i>Chenopodium album</i> <i>Helianthus annuus</i> <i>Salsola iberica</i>	12"	

Read and follow Banvel and 2,4-D labels

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TABLE 3
PERENNIAL WEED CONTROL - TOUCHDOWN BTU RATES

WEED SPECIES	SCIENTIFIC NAMES	PINTS PER ACRE	APPLICATION TIMING AND REMARKS
Alfalfa	<i>Medicago sativa</i>	2 1/3	At 6 to 8" or more after final cutting in fall. Deep till after 7 days
Artichoke, Jerusalem*	<i>Helianthus tuberosus</i>	6 1/3	Actively growing, at or after flowering
Bahiagrass	<i>Paspalum notatum</i>	4 2/3	Actively growing, seed head stage
Bermudagrass	<i>Cynodon dactylon</i>	6 1/3	Actively growing, seed heads present
Bindweed, field	<i>Convolvulus arvensis</i>	6 1/3	Actively growing, at or after flowering
Bluegrass, Kentucky	<i>Poa pratensis</i>	3 1/3	Actively growing, boot to early seed head
Brackenfern	<i>Pteridium aquilinum</i>	6 1/3	Fronds fully expanded and at least 18" long
Bromegrass, smooth	<i>Bromus inermis</i>	3 1/3 - 4 2/3	Actively growing, boot to early seed head
Canarygrass, reed	<i>Phalaris arundinacea</i>	4 2/3	Actively growing, boot to head
Cattail	<i>Typha</i> sp.	6 1/3	Actively growing, early head to early bud
Clover, red	<i>Trifolium pratense</i>	6 1/3	Actively growing, early head to early bud
Clover, white	<i>Trifolium repens</i>	6 1/3	Actively growing, early head to early bud
Cogongrass*	<i>Imperata cylindrica</i>	6 1/3	Actively growing, late summer/fall greater than 18"
Crowfootgrass	<i>Dactyloctenium aegyptium</i>	2 1/3	Actively growing, less than 6"
Dandelion	<i>Taraxacum officinale</i>	3 2/3	Actively growing, early bud
Dayflowers*	<i>Commelina</i> sp.	5	Actively growing, less than 4 inches in height
Dock, curly	<i>Rumex crispus</i>	3 2/3	Actively growing, early bud
Dogbane, hemp	<i>Apocynum cannabinum</i>	6 1/3	Actively growing, late bud to flower
Dogfennel	<i>Eupatorium capillifolium</i>	3 1/3	Actively growing, less than 12 inches in height
Fescue	<i>Festuca</i> sp.	4 2/3	Actively growing, boot to early seedhead
Goatweed	<i>Scoparia dulcis</i>	4 2/3	Actively growing, less than 7" tall
Guineagrass	<i>Panicum maximum</i>	4 2/3	Actively growing, 7 leaf
Horsenettle	<i>Solanum carolinense</i>	6 1/3	Actively growing, early head to early bud
Johnsongrass	<i>Sorghum halepense</i>	2 1/3	Actively growing, boot to head or prior to frost
Milkweed, common	<i>Asclepias syriaca</i>	4 2/3	Actively growing, late bud to flower
Muhly, wirestem	<i>Muhlenbergia frondosa</i>	3 1/3	Actively growing, 8" in height or more, actively growing
Mullein, common	<i>Verbascum thapsus</i>	6 1/3	Early head to early bud

Nutsedge, purple Nutsedge, yellow	<i>Cyperus rotundus</i> <i>Cyperus esculentus</i>	4 2/3	Actively growing, flower
		2 1/3 + 2 1/3	Make sequential applications when actively growing, 3-5 leaf, less than 6" tall
Orchardgrass	<i>Dactylis glomerata</i>	3 1/3 - 4 2/3	Actively growing, minimum height of 12" in spring, 6" in fall
Paragrass	<i>Brachiaria mutica</i>	3 1/3	Actively growing, seedhead stage
Phaseybean*	<i>Phaseolus lathyroides</i>	6 1/3	Actively growing, less than 8" tall
Quackgrass	<i>Agropyron repens</i>	1 1/2	Actively growing, less than 5" tall - retreatment may be required
		4	Actively growing, greater than 5" tall
Redvine*	<i>Brunnichia ovata</i>	2 1/3	Actively growing, greater than 18" tall in September/October
Ryegrass, perennial	<i>Lolium perenne</i>	2 1/3	Actively growing, boot to head or prior to frost
Smallflowered Alexandergrass	<i>Bracharia subquadrifera</i>	3 1/3 - 4 2/3	Actively growing, less than 4 inches in height
Smartweed, swamp	<i>Polygonum coccineum</i>	2 1/3	Actively growing, early bud
Spurge, leafy	<i>Euphorbia esula</i>	3 2/3	Actively growing, greater than 12" tall in late summer or fall
Switchgrass	<i>Panicum virgatum</i>	2 1/3	Actively growing, boot to head stage
Thistle, Canada	<i>Cirsium arvense</i>	4 2/3	Actively growing beyond bud stage
Timothy	<i>Phleum pratense</i>	4 2/3	Actively growing boot to head
Torpedograss*	<i>Panicum repens</i>	6 1/3	Actively growing at or beyond seedhead
Trumpetcreeper*	<i>Campsis radicans</i>	3 1/3	Actively growing late September/October
Vaseygrass	<i>Paspalum urvillei</i>	2 1/3	Actively growing, less than 12 inches in height
Virginia Creeper	<i>Parthenocissus quinquefolia</i>	6 1/3	Actively growing, full leaf expansion
Wheatgrass, Western	<i>Agropyron smithii</i>	4 2/3	Actively growing, boot to head

*Partial Control

TABLE 4
PERENNIAL WEED CONTROL - TOUCHDOWN BTU RATES IN A TANKMIX WITH
0.25 LBS A/A OF BANVEL OR 0.5 LBS A/A OF 2,4-D

WEED SPECIES	SCIENTIFIC NAMES	PINTS PER ACRE	APPLICATION TIMING AND REMARKS
Bindweed, field	<i>Convolvulus arvensis</i>	1 1/2	Actively growing, at or after flowering
Dandelion	<i>Taraxacum officinale</i>	3/4	Actively growing, early bud
Dock, curly	<i>Rumex crispus</i>	3/4	Actively growing, early bud
Dogbane, hemp	<i>Apocynum cannabinum</i>	1 1/2	Actively growing, late bud to flower
Milkweed, common	<i>Asclepias syriaca</i>	1 1/2	Actively growing, late bud to flower
Milkweed, honeyvine	<i>Ampelamus albidus</i>	3 1/3	Actively growing, late bud to flower
Smartweed, swamp	<i>Polygonum coccineum</i>	3/4	Actively growing, early bud
Spurge, leafy*	<i>Euphorbia esula</i>	3/4	Actively growing, greater than 12" tall in late summer or fall

*Partial Control
Read and follow Banve and 2,4-D labels

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CHEMICAL FALLOW - ECOFALLOW SYSTEMS

TOUCHDOWN BTU may be used in chemical fallow and ecofallow systems for control of grasses and broadleaf weeds. Refer to the **CHEMICAL FALLOW-ECOFALLOW WEEDS CONTROLLED** tables for use rates. Apply to actively growing weeds only after maximum germination period. Weeds emerging after application will not be controlled. Repeat treatments may be necessary to control late germinating weeds. Reduced control may result from applications made to drought stressed or dust covered plants. Allow a minimum of 3 days after application before tillage.

CHEMICAL FALLOW - ECOFALLOW WEEDS CONTROLLED TOUCHDOWN RATES

Weed Species		Maximum Plant Height (inches)	TOUCHDOWN BTU Rate (pints/acre)
Foxtails	<i>Setaria</i> spp.	12	½
Barley	<i>Hordeum vulgare</i>	12	¾ - 1
Barnyardgrass	<i>Echinochloa crus-galli</i>	6	
Bluegrass, annual	<i>Poa annua</i>	6	
Bluegrass, bulbous	<i>Poa bulbosa</i>	6	
Brome, downy	<i>Bromus tectorum</i>	6	
Brome, Japanese	<i>Bromus japonicus</i>	6	
Chickweed	<i>Stellaria media</i>	6	
Mustard, blue	<i>Chorispora tenella</i>	6	
Mustard, tansy	<i>Descurainia pinnata</i>	6	
Mustard, tumble	<i>Sisymbrium altissimum</i>	6	
Mustard, wild	<i>Brassica kaber</i>	6	
Rye	<i>Secale cereale</i>	12	
Ryegrass, Italian	<i>Lolium multiflorum</i>	12	
Sandbur, field	<i>Cenchrus incertus</i>	12	
Stinkgrass	<i>Eragrostis cillanensis</i>	6	
Wheat	<i>Triticum aestivum</i>	18	
Witchgrass	<i>Panicum capillare</i>	12	
Cheat	<i>Bromus secalinus</i>	6	1 - 1¼
Cocklebur	<i>Xanthium strumarium</i>	12	
Corn	<i>Zea mays</i>	6	
Crabgrass	<i>Digitaria</i> spp.	12	
Field pennycress	<i>Thalspi arvense</i>	6	
Falseflax, smallseed	<i>Camella microcarpa</i>	12	
Goatgrass, Jointed	<i>Aegilops cylindrica</i>	6	
Henbit	<i>Lamium amplexicaule</i>	6	
Kochia	<i>Kochia scoparia</i>	6	
Lambsquarters, common	<i>Chenopodium album</i>	6	
Oats, Wild	<i>Avena fatua</i>	12	
Panicum, Fall	<i>Panicum dichotomiflorum</i>	12	
Shepherdspurse	<i>Capsella bursa-pastori</i>	6	
Sowthistle, annual	<i>Sonchus oleraceus</i>	6	

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**CHEMICAL FALLOW-ECOFALLOW WEEDS CONTROLLED
TOUCHDOWN RATES IN A TANKMIX**

Weed Species		Maximum Plant Height (Inches)	TOUCHDOWN BTU Rate (pints/acre)
Kochia	<i>Kochia scoparia</i>	6	$\frac{3}{4}$ + Banvel
Cocklebur	<i>Xanthium strumarium</i>	12	$\frac{3}{4}$ + 2,4-D or Banvel ¹
Horseweed/Marestail	<i>Conyza canadensis</i>	6	
Lambsquarters, common	<i>Chenopodium album</i>	6	
Lettuce, prickly	<i>Lactuca serriola</i>	6	
Pigweed, redroot	<i>Amaranthus retroflexus</i>	6	
Sunflower, Wild	<i>Helianthus annuus</i>	12	
Thistle, Russian	<i>Salsola kali</i>	6	$\frac{3}{4}$ to 1 + Atrazine or Bladex ¹
Barnyardgrass	<i>Echinochloa crus-galli</i>	6	
Brome, downy	<i>Bromus tectorum</i>	6	
Cocklebur	<i>Xanthium strumarium</i>	12	
Foxtail, green	<i>Setaria viridis</i>	12	
Kochia	<i>Kochia scoparia</i>	6	
Lambsquarters, common	<i>Chenopodium album</i>	6	
Lettuce, prickly	<i>Lactuca serriola</i>	6	
Mustard, tansy	<i>Descurainia pinnata</i>	6	
Pigweed, redroot	<i>Amaranthus retroflexus</i>	6	
Sandbur, Field	<i>Cenchrus spp.</i>	12	
Stinkgrass	<i>Eragrostis cilianensis</i>	12	
Thistle, Russian	<i>Salsola kali</i>	6	
Wheat	<i>Triticum aestivum</i>	18	
Witchgrass	<i>Panicum capillare</i>	12	

¹See the TANK MIXTURES FOR CHEMICAL FALLOW - ECOFALLOW SYSTEMS section for rates of tankmix partners.

Winter Wheat or Winter Wheat - Row Crop Rotations

1) Post-Harvest Application; 2 to 3 Month Recropping Interval

Apply TOUCHDOWN BTU post-harvest to wheat stubble (June to September) for control of actively growing emerged weeds. Weeds should be allowed to regrow after harvest. Best control will occur when grasses are treated before the heading stage and broadleaf weeds do not exceed 18 inches in height. Tankmixes with Banvel or 2,4-D are recommended for enhanced broadleaf weed control. Refer to the **CHEMICAL FALLOW-ECOFALLOW WEEDS CONTROLLED** section for rates.

2) Post-Harvest Application; 12 to 14 Month Recropping Interval

Apply TOUCHDOWN BTU post-harvest to wheat stubble (June to September) for control of actively growing emerged weeds and volunteer wheat. Weeds should be allowed to regrow after harvest. Repeat applications may be necessary for fall germinating downy brome, winter wheat, and winter annual broadleaf weeds. Tankmixes with atrazine or Bladex are recommended for residual control of many weeds.

3) Spring Application

Apply TOUCHDOWN BTU to actively growing downy brome and volunteer wheat prior to seedhead formation. Early applications will improve moisture conservation. Tank mix with Banvel or 2,4-D to improve control of winter annual and spring germinating broadleaf weeds. Repeat applications may be necessary throughout the summer months to control newly germinating weeds prior to crop seeding. Refer to the **CHEMICAL FALLOW-ECOFALLOW WEEDS CONTROLLED** section for rates.

Spring Grain Rotations and Spring Grain - Row Crop Rotations

1) Post-Harvest Application

Apply TOUCHDOWN BTU to actively growing grasses and volunteer grain. Tankmix with Banvel or 2,4-D to improve control of large kochia, redroot pigweed, Russian thistle and lambsquarters. Refer to the **CHEMICAL FALLOW-ECOFALLOW WEEDS CONTROLLED** section for rates.

2) Alternate Year Application

Apply TOUCHDOWN BTU in the spring of the fallow year after germination of foxtail species and volunteer grain. Tankmixes of Banvel or 2,4-D will improve control of spring and winter annual broadleaf weeds. Repeat applications may be necessary as new weeds germinate. Refer to the **CHEMICAL FALLOW-ECOFALLOW WEEDS CONTROLLED** section for rates.

TANK MIXTURES FOR CHEMICAL FALLOW - ECOFALLOW SYSTEMS

Tankmixes of TOUCHDOWN BTU with other herbicides may improve control of some emerged weeds. Tankmixes with some residual herbicides provide preemergence control of weeds listed on the individual product labels. The following herbicides may be tankmixed with TOUCHDOWN BTU at rates indicated.

Product	Rate/Acre
Banvel	0.25 lb ai
2,4-D	0.5 lb ai
Atrazine	1 to 3 lb ai
Bladex	2.4 to 4 lb ai

Refer to individual product labels for precautionary statements, restrictions, recropping intervals and a list of weeds controlled.

The requirements in this box apply to uses of this product that are **NOT** within the scope of the Worker Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep people and pets off treated areas until spray solution has dried.

FARMSTEAD (NONCROP)

- Applications can be made in noncrop areas around the farm such as:

Farmyards	Rights-of-way
Soil Bank Land	Barrier Strips
Farm Buildings	Equipment Areas
Fuel Storage Areas	Fence Rows
- Apply to annual and perennial grass and broadleaf weeds according to the **WEEDS CONTROLLED** section of this label.
- Avoid contact with the foliage of ornamentals or other desirable plants.
- Repeat applications may be necessary.

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Do not contaminate water, food, or feed by storage and disposal. Keep container tightly closed when not in use. For help with any spill, leak, fire, or accident involving this material, call CHEMTREC 1-800-424-9300.

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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

FOR RECYCLABLE/REFILLABLE CONTAINERS:

Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container.

Container Disposal: Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

Container Is Not Safe for Food, Feed, or Drinking Water!

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