


100-1121 2-4-2002

 <p>United States Environmental Protection Agency Washington, DC 20460</p>	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number NOTIFICATION
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**Application for Pesticide - Section I**

1. Company/Product Number 100-1121	2. EPA Product Manager Jim Tompkins	3. Proposed Classification  <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Touchdown® Pro Herbicide	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) Syngenta Crop Protection, Inc. P. O. Box 18300 Greensboro, NC 27419  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____  Product Name _____	

**Section - II**

<input type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other - Explain below.
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**NOTIFICATION**  
FEB - 4 2002

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)


This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. The following changes are being made via this notification:

Notification and copy of an amended Touchdown Pro Herbicide label. A statement directing users to refer to the Federal Supplemental Label for specific instructions, restrictions, and requirements for aerial application in California has been added at the request of CDRP. An "Applicator Exposure" statement in the General Information section of the label has been deleted at the request of Hawaii Dept. of Ag. Lastly, we have determined that a paragraph concerning maximum use rates for glyphosate and sulfosate containing products was inadvertently left off the previous final printed label and has been put back in.

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
*Certification must be submitted		If "Yes" Unit Packaging wgt.    No. per Container	If "Yes" Unit Packaging wgt.    No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Jerry Wells	Title Regulatory Product Manager, Herbicides	Telephone No. (Include Area Code) 336-632-6234
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Product Manager, Herbicides	
4. Typed Name Jerry Wells	5. Date January 24, 2002	

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**NOTIFICATION**

Touchdown® Pro Herbicide

FEB - 4 2002

Nonselective Foliar Systemic Herbicide for Weed Control

**Active Ingredient:**

\***Glyphosate: N-(phosphonomethyl) glycine**.....28.3%

**Other Ingredients:**.....71.7%

**Total:**.....100.0%

\*Contains 3 pounds of glyphosate acid in each gallon, in the diammonium salt form.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1121

EPA Est. 100-LA-001

Product of Belgium  
Formulated in the USA

\_\_\_\_\_ gallons  
U.S. Standard Measure

<b>FIRST AID</b>	
<b>If in eyes:</b>	<ul style="list-style-type: none"><li>• Flush eyes with plenty of water. Call a physician if irritation persists.</li></ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b> For 24 Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident), Call <b>1-800-888-8372</b>	

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**PRECAUTIONARY STATEMENTS**

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**Hazards to Humans and Domestic Animals**

**CAUTION**

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

**Personal Protective Equipment**

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

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, enclosed cabs, or aircraft 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 when cleaning equipment or disposing of equipment washwaters.

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**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

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**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 Syngenta Crop Protection, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Syngenta and Seller harmless for any claims relating to such factors.

Syngenta 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 Syngenta, and Buyer and User assume the risk of any such use. **SYNGENTA 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 Syngenta 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 SYNGENTA 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 SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Syngenta 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 Syngenta.

## DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for 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 12 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.

### NONAGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection 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.

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## **STORAGE AND DISPOSAL**

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

### **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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## GENERAL INFORMATION

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Touchdown Pro is a nonselective foliar systemic herbicide for control of a broad spectrum of emerged annual and perennial grass and broadleaf weeds and unwanted woody brush and trees.

Touchdown Pro is formulated as a liquid concentrate which contains 3 lbs. acid equivalent per gallon, in the diammonium salt form.

**Symptoms:** Touchdown Pro moves through the plant from the point of foliage contact to other areas of the plant including the root system. Visible effects will be seen on most annual weeds in 2-4 days and on most perennial weeds in 7 days or more. Extremely cool or cloudy weather following application may slow activity and delay development of visual symptoms. Effects are a gradual wilting and yellowing of the plant which becomes complete browning of above-ground growth and deterioration of underground plant parts.

**How It Works:** Touchdown Pro works by inhibiting an enzyme found only in plants.

**Cultural Considerations:** Application to annual or perennial weeds that have been mowed, grazed, or cut, and have not been allowed to regrow to the recommended stage for treatment may result in reduced control. Weeds covered with dust; weeds damaged by insects or disease may result in reduced weed control.

**Rainfastness:** Heavy rainfall or irrigation shortly after application may require retreatment.

**No Soil Activity:** Touchdown Pro does not provide soil residual control of weeds. Only emerged weeds at the time of application will be controlled. Weeds germinating from seed after application will not be controlled. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected.

**Nonvolatile:** Touchdown Pro is not volatile. After application, it cannot move as a vapor to affect nearby vegetation.

Deleted Applicator Exposure statement

**Note:**

- Apply this product only as specified on the label.
- Do not apply this product through any type of irrigation system.
- Do not apply this product by direct application (ground or air) to any body of water.
- Spray solutions of Touchdown Pro 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.



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- It is recommended that the spray system be thoroughly cleaned with water and a commercial tank cleaner after each use.
- Reduced results may occur if water containing soil, such as visibly muddy water from ponds and ditches is used.
- The annual maximum rate is 10.6 qts. of Touchdown Pro per acre.
- Avoid contact of herbicide with foliage, green stems, exposed nonwoody roots of crops, desirable plants, and trees because severe injury or destruction is likely to result.
- Avoid drift. Caution must be taken when applying Touchdown Pro nonselective foliar systemic herbicide to avoid drift or contact with nontarget plant species. Such contact may result in plant injury. Spray drift is enhanced by application when winds are gusty, as wind speeds increase, when wind direction is constantly shifting, or when weather conditions promote drift. Spraying during those times should be avoided.
- Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants, or other areas on which treatment was not intended. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. Avoid applying at excessive speed or pressure.

#### **TANK MIXES FOR RESIDUAL WEED CONTROL**

Refer to use sections for recommended tank mixes. Tank mixes of Touchdown Pro with other pesticides, fertilizers, or any other additives except as specified on this label or other approved Syngenta supplemental labeling may result in tank mix incompatibility or unsatisfactory performance. It is recommended that the compatibility of any tank mix combination be tested on a small scale such as a jar test before actual tank mixing.

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.

## ANNUAL WEED CONTROL

Use Touchdown Pro at 2 pts./A if weeds are less than 6 inches in height or runner length. Use 3-8 pts./A if weeds are greater than 6 inches in height or runner length or when weeds are growing under stress.

For spray-to-wet applications, apply a 0.5% solution to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds. For annual weeds greater than 6 inches tall, use a 1% solution.

When plants are growing under stressed conditions, or where infestations are dense, Touchdown Pro may be used at 5-10.6 qts./A or a 1-2% solution for spot spray clean-up. Use the higher rate for tough-to-control species or for weeds over 24 inches tall.

**Table 1. Annual Weeds Controlled**

Anoda, spurred	Fleabane, annual <sup>1</sup>	Ragweed, common <sup>1</sup>
Barley	Fleabane, hairy ( <i>Conyza bonariensis</i> ) <sup>1</sup>	Ragweed, giant
Barnyardgrass <sup>1</sup>	Fleabane, rough	Red rice
Bittercress <sup>1</sup>	Florida pusley	Redweed
Black nightshade <sup>1</sup>	Foxtail <sup>1</sup>	Russian thistle
Bluegrass, annual <sup>1</sup>	Goatgrass, jointed <sup>1</sup>	Rye <sup>1</sup>
Bluegrass, bulbous <sup>1</sup>	Goosegrass	Ryegrass <sup>1</sup>
Brassica, fivehook	Goosefoot, nettleleaf	Sandbur, field <sup>1</sup>
Brome, downy <sup>1</sup>	Grain sorghum (milo) <sup>1</sup>	Shattercane <sup>1</sup>
Brome, Japanese <sup>1</sup>	Groundcherry <sup>1</sup>	Shepherdspurse <sup>1</sup>
Browntop panicum <sup>1</sup>	Groundsel, common <sup>1</sup>	Sicklepod
Buffalobur	Hemp sesbania	Signalgrass, broadleaf <sup>1</sup>
Buttercup <sup>1</sup>	Henbit	Smartweed, ladythumb <sup>1</sup>
Carolina foxtail <sup>1</sup>	Horseweed/Marestail ( <i>Conyza canadensis</i> )	Smartweed, Pennsylvania <sup>1</sup>
Carolina geranium	Itchgrass <sup>1</sup>	Sowthistle, annual
Cheat <sup>1</sup>	Johnsongrass, seedling	Spanishneedles
Cheatgrass	Junglerice	Speedwell, purslane <sup>1</sup>
Chervil <sup>1</sup>	Knotweed	Sprangletop <sup>1</sup>
Chickweed <sup>1</sup>	Kochia	Spurge, annual
Cocklebur <sup>1</sup>	Lambsquarters <sup>1</sup>	Spurge, prostrate <sup>1</sup>
Coffee senna	Little barley <sup>1</sup>	Spurge, spotted <sup>1</sup>
Copperleaf, hophornbeam	London rocket <sup>1</sup>	Spurry, umbrella <sup>1</sup>
Corn <sup>1</sup>	Mayweed	Starthistle, yellow
Corn speedwell <sup>1</sup>	Medusahead <sup>1</sup>	Stinkgrass
Cowpea	Morningglory ( <i>Ipomoea</i> spp.)	Sunflower <sup>1</sup>
Crabgrass <sup>1</sup>	Mustard, blue	Teaweed/Prickly sida
Croton, tropic	Mustard, tansy <sup>1</sup>	Texas panicum <sup>1</sup>
Dwarfdandelion <sup>1</sup>	Mustard, tumble <sup>1</sup>	Velvetleaf
Eastern mannagrass <sup>1</sup>	Mustard, wild <sup>1</sup>	Virginia copperleaf
Eclipta <sup>1</sup>	Oats	Virginia pepperweed <sup>1</sup>
Fall panicum <sup>1</sup>	Pigweed <sup>1</sup>	Waterhemp
Falsedandelion <sup>1</sup>	Plains/Tickseed coreopsis <sup>1</sup>	Wheat <sup>1</sup>
Falseflax, smallseed <sup>1</sup>	Poinsettia, wild <sup>1</sup>	Wild oats <sup>1</sup>
Fiddleneck	Prickly lettuce <sup>1</sup>	Witchgrass <sup>1</sup>
Field pennycress <sup>1</sup>	Purslane, common	Woolly cupgrass <sup>1</sup>
Filaree	Rabbitfootgrass	Yellow rocket

<sup>1</sup>When using broadcast equipment (aerial or ground boom sprayers with flat fan nozzles), these species will be controlled or partially controlled with 1 pt./A. Applications must be made using a minimum of 3 gals. of carrier volume per acre.

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Use nozzles that ensure thorough coverage of foliage and treat when weeds are in an early growth stage.

**PERENNIAL WEED CONTROL**

For best results, treat perennial weeds after they reach the reproductive stage of growth (seedhead initiation in grasses and bud formation in broadleaves). For nonflowering plants, best results are obtained when the plants reach a mature stage of growth. Treatment prior to these optimal growth stages reduces control. Under these conditions, use the higher application rate within the recommended range. Allow 7 or more days after application before tillage.

For spray-to-wet applications, ensure thorough coverage. In hand-held equipment for low volume directed spot treatments, apply a 5-10% solution of Touchdown Pro to the perennial weeds in the following table.

**Table 2. Perennial Weeds Controlled**

The following weeds are controlled with 1-3 quarts<sup>1</sup>

Alfalfa <sup>2</sup>	Nightshade, silverleaf
Bentgrass <sup>3</sup>	Orchardgrass
Bermudagrass, water (knotgrass) <sup>2</sup>	Quackgrass
Bluegrass, Kentucky	Redvine <sup>3</sup>
Bromegrass, smooth	Ryegrass, perennial
Canarygrass, reed	Thistle, Canada
Fescue, tall	Thistle, artichoke
Iceplant	Timothy
Johnsongrass	Trumpetcreeper <sup>3</sup>
Kikuyugrass	Wheatgrass, western
Muhly, wirestem	

The following weeds are controlled with 2-5 quarts<sup>1</sup>

Anise (fennel)	Milkweed, common
Brackenfern	Mullein, common
Bursage, woolly-leaf <sup>1</sup>	Napiergrass
Cattail	Nutsedge; purple, yellow
Clover; red, white	Pampasgrass
Cogongrass	Paragrass
Dallisgrass	Phragmites <sup>3</sup>
Dandelion	Poison hemlock
Dock, curly	Reed, giant
Fescue (except tall)	Smartweed, swamp
German ivy	Spurge, leafy <sup>3</sup>
Guineagrass	Sweet potato, wild <sup>3</sup>
Horsenettle	Torpedograss <sup>3</sup>
Jerusalem artichoke	Vaseygrass
Lantana	Velvetgrass
Lespedeza	

The following weeds are controlled with 3-5 quarts<sup>1</sup>

Alligatorweed <sup>1</sup>	Horseradish
Bahiagrass	Knapweed
Bermudagrass	Pepperweed, perennial
Bindweed, field	Reed, giant
Blueweed, Texas	Torpedograss <sup>3</sup>
Dogbane, hemp	

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<sup>1</sup> or use a 2% solution for spot spray clean-up

<sup>2</sup> use 1-2 qts.

<sup>3</sup> partial control

### WOODY BRUSH AND TREES

Apply Touchdown Pro after full leaf expansion, unless otherwise directed. Use the higher rate for larger plants and/or dense areas of growth. On vines, use the higher rate for plants that have reached the woody stage of growth. In most areas, best results are obtained when application is made in late summer or fall after fruit formation.

Applications after some autumn color are acceptable as long as no major leaf drop has occurred. Reduced performance may result if fall treatments are made following a frost.

In arid areas, best results are obtained when applications are made in the spring to early summer when brush species are at high moisture content and are flowering.

Symptoms may not appear prior to frost or senescence with fall treatments.

Allow 7 or more days after application before tillage, mowing, or removal. Repeat treatments may be necessary to control plants regenerating from underground parts or seed.

For spray-to-wet applications, ensure thorough coverage. In hand-held equipment for low volume directed spot treatments, apply a 5-10% solution of Touchdown Pro to the woody brush and trees in the following table.

#### Table 3. Woody Brush and Trees Controlled

The following are controlled with 1-2 quarts<sup>1</sup>

Birch	Rose, multiflora
Cherry; bitter, black, pin	Salmonberry
Elderberry	Sweetgum
Hawthorn	Thimbleberry
Hazel	Trumpet creeper
Oak, southern red	

The following are controlled with 3-4 quarts<sup>1</sup>

Alder	Honeysuckle
Blackberry	Oak, post
Coyote brush	Willow

The following are controlled with 4-5 quarts<sup>1</sup>

Kudzu
Poison ivy
Poison oak

**The following are controlled with 2-5 quarts<sup>1</sup>**

- |   |  |
|---|--|
| Ash <sup>2</sup>                                  | Monkey flower <sup>2</sup>                 |
| Aspen, quaking                                    | Oak, scrub <sup>2</sup>                    |
| Bearmat (Bearclover) <sup>2</sup>                 | Oak; black, white <sup>2</sup>             |
| Beech <sup>2</sup>                                | Oak; northern, pin                         |
| Blackgum  | Persimmon <sup>2</sup>                     |
| Bracken   | Pine                                       |
| Broom; French, Scotch                             | Poplar, yellow <sup>2</sup>                |
| Buckwheat, California <sup>2</sup>                | Redbud, eastern                            |
| Cascara <sup>2</sup>                              | Russian olive <sup>2</sup>                 |
| Ceanothus <sup>2</sup>                            | Sage, black                                |
| Chamise <sup>2</sup>                              | Sage, white <sup>2</sup>                   |
| Dogwood <sup>2</sup>                              | Sage brush, California                     |
| Elm <sup>2</sup>                                  | Saltcedar <sup>2</sup>                     |
| Eucalyptus  | Sassafras <sup>2</sup>                     |
| Florida holly (Brazilian peppertree) <sup>2</sup> | Sourwood <sup>2</sup>                      |
| Gorse <sup>2</sup>                                | Sumac; poison, smooth, winged <sup>2</sup> |
| Hasardia <sup>2</sup>                             | Swordfern <sup>2</sup>                     |
| Hickory <sup>2</sup>                              | Tobacco, tree <sup>2</sup>                 |
| Hornbeam, American <sup>2</sup>                   | Vine maple <sup>2</sup>                    |
| Locust, black <sup>2</sup>                        | Virginia creeper                           |
| Manzanita <sup>2</sup>                            | Waxmyrtle, southern <sup>2</sup>           |
| Maple, red  |  |

**The following are controlled with 5 qts.<sup>1</sup>**

- Cataclaw<sup>2</sup>
- Madrone resprouts<sup>2</sup>
- Maple, sugar
- Tallowtree, Chinese
- Tan oak resprouts<sup>2</sup>

<sup>1</sup>or use a 2% solution for spot spray clean-up  
<sup>2</sup>partial control

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**APPLICATION PROCEDURES**

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- Apply these spray solutions in properly maintained and calibrated equipment capable of delivering desired volumes.
- Avoid drift. Do not apply in low level inversion conditions, when winds are gusty or under any other conditions which favor drift. 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. Drift may cause damage to any vegetation contacted to which treatment is not intended.
- Drift control additives may be used with Touchdown Pro. Read and follow the manufacturer's directions for use.
- All equipment must be properly maintained and washed to remove product residues after use.

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### **Aerial Broadcast Equipment**

Use the recommended rates of Touchdown Pro in 3-25 gals. of water per acre as a broadcast spray unless otherwise specified.

Spray should be released at the lowest height consistent with effective weed control and flight safety. Applications more than 10 ft. 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 Pro herbicide initially and every year thereafter.

Prolonged exposure of this product to uncoated steel surfaces may result in corrosion and possible failure of the part. Thoroughly wash aircraft after spraying to remove residues to prevent corrosion of exposed parts. Landing gear is most susceptible.

For aerial application in California refer to the Federal Supplemental Label for aerial application for specific instructions, restrictions, and requirements. For aerial application, consult with state or local authorities regarding any additional requirements for aerial treatments. Banvel tank mixtures may not be applied by air in California.

Avoid direct application to any body of water.

### **CDA Equipment**

The rate of Touchdown Pro applied per acre by controlled droplets application (CDA) equipment must not be less than the amount recommended in this label when applied by conventional broadcast equipment. For vehicle-mounted CDA equipment, apply 3-15 gals. of water per acre.

CDA equipment produces a spray pattern which is not easily visible. Extreme care must be exercised to avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation.

### **Ground Broadcast Equipment**

Use the recommended rates of Touchdown Pro in 3-40 gals. of water per acre as a broadcast spray unless otherwise specified. As density of weeds increases, spray volume should be increased within the recommended range to ensure complete

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coverage. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

### **Hand-Held and High-Volume Equipment**

For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff. Use coarse sprays only.

For control of weeds listed in Table 1 (**Annual Weeds Controlled**), apply a 0.5% solution of Touchdown Pro to weeds less than 6 inches in height or runner length. For annual weeds over 6 inches tall, or unless otherwise specified, use a 1% solution. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds.

For harder-to-control perennials, such as bermudagrass, Canada thistle, dock, field bindweed, hemp dogbane, and milkweed, use a 2% solution.

For low volume directed spray applications, use a 5-10% solution of Touchdown Pro for control or partial control of annual weeds, perennial weeds, or woody brush and trees. Spray coverage should be uniform with at least 50 percent of the foliage contacted. When spraying large woody brush and trees with dense and thick foliage or multiple sprouts, spray both sides to ensure adequate coverage.

### **Injection Systems**

Touchdown Pro may be used in aerial or ground injection spray systems. It may be used as a liquid concentrate or diluted prior to injecting into the spray stream. Do not mix Touchdown Pro with the undiluted concentrate of other products when using injection systems unless specifically recommended.

### **Selective Equipment**

#### **AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION .**

Touchdown Pro may be applied through recirculating spray systems, shielded applicators, hooded sprayers, wiper applicators, or sponge bars to listed weeds growing in any noncrop site specified on this label. A recirculating spray system directs the spray solution onto weeds growing above desirable vegetation. Spray solution not intercepted by weeds is collected and returned to the spray tank for reuse. Shielded or hooded sprayers direct the herbicide solution onto weeds, while shielding desirable vegetation from the herbicide.

Adjust selective applicators so that the lowest spray stream or wiper contact point is at least 2 inches above the desirable vegetation. Droplets, mist, foam, or splatter of the herbicide solution settling on desirable vegetation is likely to result in discoloration, stunting, or destruction.

Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. In dense clumps, severe infestations, or when the height of the weeds varies so that not all weeds are contacted, repeat treatment may be necessary.

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**Shielded and Hooded Applicators**

For shielded and hooded applicators, use nozzles that provide uniform coverage within the treated area. Keep shields on these sprayers adjusted to protect desirable vegetation.

**Wiper Applicators and Sponge Bars**

Equipment must be designed, maintained, and operated to prevent the herbicide solution from contacting desirable vegetation. Apply at ground speeds of 5 mph or less. Use slower speeds where weeds are dense. For improved control, make 2 applications in opposite directions.

Do not use wiper equipment when weeds are wet.

Use the spray solution within 24 hrs. of mixing.

**For Rope or Sponge Wick Applicators:** Mix 1-2 gals. of Touchdown Pro in 2 gals. of water to prepare a 33-75 % solution. Apply this solution to weeds listed in this section.

**For Porous Plastic Applicators and Pressure Feed Systems:** Mix 1 gal. of Touchdown Pro in 2 gals. of water to prepare a 33% solution up to using the product undiluted as a 100% solution. Apply this solution to weeds listed in this section.

When applied as recommended, Touchdown Pro controls the following weeds:

- |                 |                  |
|-----------------|------------------|
| Corn, volunteer | Sicklepod        |
| Panicum, Texas  | Spanishneedles   |
| Rye, Common     | Starbur, bristly |
| Shattercane     |                  |

When applied as recommended, Touchdown Pro suppresses the following weeds:

- |                     |                        |                 |
|---------------------|------------------------|-----------------|
| Beggarweed, Florida | Milkweed               | Sunflower       |
| Bermudagrass        | Nightshade, silverleaf | Thistle, Canada |
| Dogbane, hemp       | Pigweed, redroot       | Thistle, musk   |
| Dogfennel           | Ragweed, common        | Vaseygrass      |
| Guineagrass         | Ragweed, giant         | Velvetleaf      |
| Johnsongrass        | Smutgrass              |                 |

**SITE AND USE RECOMMENDATIONS**

Unless otherwise specified, applications may be made to control any weeds listed in the annual, perennial, and woody brush tables (Table 1, 2, and 3). Refer to the **APPLICATION PROCEDURES** section for additional rate information.



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**MIXING PROCEDURES**

1. Fill the mixing or spray tank ½ 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 Pro.
6. Add nonionic surfactant/wetting agent (if used).
7. Fill remainder of spray tank.
8. Use appropriate practices to avoid siphoning back into the carrier source. If states or local authorities require them, use approved anti-back siphoning devices.

**Mixing for Hand-Held Sprayers**

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

<b>Spray Solution</b>						
<b>Amount of Touchdown Pro</b>						
<b>To Make This Volume</b>	<b>0.5%</b>	<b>1%</b>	<b>1.5%</b>	<b>2%</b>	<b>5%</b>	<b>10%</b>
1 gal.	0.6 fl. ozs.	1.3 fl. ozs.	2 fl. ozs.	2.6 fl. ozs.	6.5 fl. ozs.	13 fl. ozs.
25 gals.	1 pt.	2 pts.	3 pts.	2 qts.	5 qts.	10 qts.
50 gals.	1 qt.	2 qts.	3 qts.	4 qts.	10 qts.	5 gals.
100 gals.	2 qts.	4 qts.	6 qts.	2 gals.	5 gals.	10 gals.

**For use in knapsack sprayers, it is suggested that the recommended amount of Touchdown Pro be mixed with water in a large container. Fill sprayer with the mixed solution.**

**SPRAY ADDITIVES**

**Surfactants/Wetting Agents**

A nonionic surfactant (NIS) or wetting agent (approved for use on growing crops) may be used at levels up to 0.25% v/v (1 qt. NIS or wetting agent/100 gals.) of finished spray volumes, unless specified otherwise elsewhere on this label. All nonionic surfactants or wetting agents should contain at least 75% active ingredient.

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### **Ammonium Sulfate (AMS)**

Control of annual and perennial weeds with Touchdown Pro may be improved by adding dry ammonium sulfate at 0.5% by weight or 4.25-17 lbs./100 gals. of water. Liquid formulations of AMS may be used at an equivalent rate. Do not reduce use rates of Touchdown Pro when using AMS.

### **Drift Control Agents**

Drift control agents may be used with Touchdown Pro.

### **Dyes/Colorants**

Dyes or colorants approved for agricultural use can be used in spray solutions of Touchdown Pro. Use according to manufacturer's direction. Addition of these dyes/colorants may reduce performance, especially at low dilution rates.

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## **CROP USE DIRECTIONS**

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### **GENERAL USE AREAS**

Use in areas such as airports, apartment complexes, Christmas tree farms, ditch banks, dry ditches, dry canals, fencerows, golf courses, industrial sites, lumber yards, manufacturing sites, office complexes, ornamental nurseries, parks, parking areas, petroleum tank farms and pumping installations, railroads, recreational areas, residential areas (commercial applicators only), roadsides, schools, storage areas, utility substations, warehouse areas, other public areas, and similar industrial and noncrop sites.

Follow the directions listed in the **SPRAY ADDITIVES** and **APPLICATION PROCEDURES** sections. Refer to the **WEEDS, WOODY BRUSH, AND TREES CONTROLLED** sections, for application rates.

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.

### **Turfgrass Uses**

Touchdown Pro may be used on turf in any areas described in **General Use Areas**.

### **Chemical Mowing**

Touchdown Pro, at 6 ozs. in 10-40 gals. of water per acre, will suppress Kentucky bluegrass and serve as a substitute for mowing.

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Touchdown Pro, at 0.5 pts. in 10-40 gals. of water per acre, will suppress fine fescue, orchardgrass, quackgrass, or tall fescue and serve as a substitute for mowing.

Touchdown Pro, at 4-5 ozs. in 10-40 gals. of water per acre, will suppress some annual grasses such as ryegrass, wild barley, and wild oats growing in coarse turf on roadsides or other industrial areas. Make applications while the annual grasses are actively growing and before the seedheads reach the boot stage of development. Treatment may cause injury to the desired grasses.

**Bermudagrass**

**Dormant**

Touchdown Pro may be used to control or partially control many winter annual weeds and tall fescue for effective release in dormant bermudagrass. Treat only when turf is dormant and prior to spring greenup. Apply 0.5-4 pts. of Touchdown Pro in 10-40 gals. of water per acre to control winter annuals less than 6 inches in height and tall fescue at or beyond the 4-6 leaf stage.

**Tank Mix with Oust® - Dormant Bermudagrass**

Touchdown Pro can be tank mixed with Oust for residual control. Apply 0.5-4 pts. of Touchdown Pro with 0.25-1 oz. of Oust per acre. Use where some temporary injury or discoloration to a desirable bermudagrass stand can be tolerated. Use a maximum of 1 oz. of Oust to minimize injury and avoid delays in greenup.

**Actively Growing**

Touchdown Pro may be used to control or partially control many annual and perennial weeds for effective release in actively growing bermudagrass. Apply 1-3 pts. of Touchdown Pro in 10-40 gals. of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height or runner length. Use the higher rate as weeds increase in size or as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

- |                  |                |
|------------------|----------------|
| Bahiagrass       | Johnsongrass   |
| Bluestem, silver | Trumpetcreeper |
| Fescue, tall     | Vaseygrass     |

**Tank Mix with Oust - Actively Growing Bermudagrass**

Touchdown Pro can be tank mixed with Oust for residual control. Apply 1-2 pts. of Touchdown Pro with 1-2 ozs. of Oust per acre. Use lower rates of both products when treating annual weeds below 6 inches in height or runner length. Use the higher rates of both products as weeds increase in size or as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

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Bahiagrass	Dallisgrass	Fescue, tall	Trumpet creeper
Bluestem, silver	Dock, curly	Johnsongrass	Vaseygrass
Broomsedge	Dogfennel	Poorjoe	Vervain, blue

Use only on well-established bermudagrass. Bermudagrass injury may occur but regrowth will occur under moist conditions. Repeat applications are not recommended in the same season.

**Bahiagrass**

**Dormant**

Touchdown Pro may be used to control or partially control many winter annual weeds and tall fescue for effective release of dormant bahiagrass. Treat only when turf is dormant and prior to spring greenup. Apply 0.5-4 pts. of Touchdown Pro in 10-40 gals. of water per acre to control winter annuals less than 6 inches in height and tall fescue at or beyond the 4-6 leaf stage.

**Tank Mix with Oust - Dormant Bahiagrass**

Touchdown Pro can be tank mixed with Oust for residual control. Apply 0.5-4 pts. of Touchdown Pro with 0.25-0.5 oz. of Oust per acre. Use where some temporary injury or discoloration to a desirable bahiagrass stand can be tolerated.

**Actively Growing**

Touchdown Pro, at 6 ozs. in 10-40 gals. of spray solution per acre, may be used to suppress vegetative growth and inhibit seedhead formation of actively growing bahiagrass for approximately 45 days. Make applications 1-2 weeks after green-up or after mowing to a height of 3-4 inches. Applications must be made before seedhead emergence. Suppression can be extended to 120 days with an application of Touchdown Pro at 4 ozs., followed in 45 days with an application at 2-4 ozs. Do not make more than 2 applications per year.

**Tank Mix with Oust - Actively Growing Bahiagrass**

Touchdown Pro can be tank mixed with Oust for residual control. One to 2 weeks following an initial spring mowing, apply 6 ozs. of Touchdown Pro with 0.25 ozs. of Oust. Do not make more than one application per year.

**Renovation; Seed or Sod Production**

Touchdown Pro may be used to renovate turf in any areas described in **General Use Areas**.

Touchdown Pro controls most existing vegetation prior to renovating turfgrass areas or establishing turfgrass grown for seed or sod. For maximum control of existing vegetation, delay planting or sodding to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient

regrowth must be attained prior to application. For warm season grasses such as bermudagrass, summer or fall applications provide the best control where existing vegetation is growing under mowed turfgrass management. Apply Touchdown Pro after omitting at least one regular mowing to allow sufficient growth for good interception of the spray.

Do not disturb soil or underground plant parts before treatment. Tillage or renovation techniques such as vertical mowing, coring, or slicing should be delayed for 7 days after application to allow translocation into underground plant parts.

Desirable turfgrasses may be planted following the above procedures. Hand-held equipment may be used for spot treatment of unwanted vegetation growing in existing turfgrass. Broadcast or hand-held equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested.

### **Note for Turfgrass Uses**

- Application of rates greater than 1 pt./A of Touchdown Pro may result in injury or delayed green-up in highly maintained areas, such as golf courses and lawns.
- Oust tank mixes should not be used in highly maintained turfgrass.
- Do not feed or graze turfgrass grown for seed or sod production for 8 weeks following application.
- Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

### **General Habitat Management**

Touchdown Pro may be used to control exotic and other undesirable vegetation in habitat management and natural areas, including rangeland and wildlife refuges. Applications can be made to allow recovery of native plant species, prior to planting desirable native species, and for similar broad spectrum vegetation control requirements in habitat management areas. Spot treatments can be made to selectively remove unwanted plants for habitat maintenance and enhancement. Touchdown Pro can be tank mixed with the following products:

Banvel®	Simazine
Direx®	Surflan®
Diuron	2,4-D
Princep®	Caliber 90®

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

**Wildlife Food Plots**

Touchdown Pro may be used for site preparation for control of annual and perennial weeds prior to planting wildlife food plots. Any wildlife food species may be planted or native species may be allowed to repopulate the area after applying Touchdown Pro. If tillage is needed to prepare a seedbed, wait 7 days after application before tillage.

**Ornamental and Plant Nursery Uses; Christmas Trees; Noncrop Areas; Industrial Sites; Parks; Residential, and Recreational**

**General**

Touchdown Pro may be used in general noncrop areas. It may be applied with any application equipment described in this label. Touchdown Pro may be used to trim-and-edge around objects in noncrop sites, for spot treatment of unwanted vegetation, and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. Touchdown Pro may be used prior to planting an area to ornamentals, flowers, turfgrass (sod or seed), or prior to laying asphalt or beginning construction projects.

**Noncrop Areas and Industrial Sites**

Repeated applications of Touchdown Pro may be used, as weeds emerge, to maintain bare ground.

**Tank Mixtures for Noncrop Areas and Industrial Sites**

Touchdown Pro can be tank mixed with the following herbicides for control of emerged annual weeds and control or partial control of perennial weeds, woody brush, and trees.

Arsenal <sup>®</sup>	Karmex <sup>®</sup>	Sahara <sup>™</sup>
Banvel	Krovar <sup>®</sup>	Simazine
Barricade <sup>®</sup>	Pendulum <sup>®</sup>	Surflan
Diuron	Plateau <sup>®</sup>	Telar <sup>®</sup>
Endurance <sup>®</sup>	Princep <sup>®</sup>	Vanquish <sup>®</sup>
Escort <sup>®</sup>	Ronstar <sup>®</sup>	2,4-D

**Tank Mix with Oust - Perennial Weed Control**

Touchdown Pro, applied at 2-4 pts. in a tank mix with Oust at 2-4 ozs. per acre, will provide control or suppression of the following perennial weeds:

Bahiagrass	Fescue, tall
Bermudagrass	Johnsongrass
Broomsedge	Poorjoe
Dallisgrass	Quackgrass
Dock, curly	Vaseygrass
Dogfennel	Vervain, blue

Refer to individual product labels for precautionary statements, restrictions, rates, approved uses, and a list of weeds controlled.

## **Ornamental and Plant Nursery Uses; Christmas Trees**

Touchdown Pro may be postdirected around established woody ornamental species such as arborvitae, azalea, boxwood, crabapple, euonymus, fir, Douglas fir, jojoba, hollies, lilac, magnolia, maple, oak, privet, pine, spruce, and yew. Touchdown Pro may also be used to trim-and-edge around trees, buildings, greenhouses, shadehouses, sidewalks and roads, potted plants, and other objects in a nursery setting.

Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material. **TOUCHDOWN PRO IS NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN ORNAMENTALS AND CHRISTMAS TREE SPECIES.** Care must be exercised to avoid contact of spray, drift, or mist with foliage or green bark of established ornamentals.

When applying Touchdown Pro to control weeds in and around shadehouses and greenhouses, desirable vegetation must not be present and air circulation fans must be off.

### **Christmas Trees**

**Method of Application:** Postdirected spray; site preparation; and spot spray.

Touchdown Pro may be used prior to planting Christmas trees; or as a postdirected spray and spot treatment around established Christmas trees.

Follow the directions listed in the **SPRAY ADDITIVES** and **APPLICATION PROCEDURES** sections. Refer to the **WEEDS, WOODY BRUSH, AND TREES CONTROLLED** sections for application rates.

### **General Use Precautions for Christmas Trees**

- Avoid contact of spray, drift, or mist with foliage or green bark of established Christmas trees.
- This product is not recommended for broadcast applications over the top of Christmas trees.

### **Railroads**

Touchdown Pro may be used to maintain bare ground on railroad ballast and shoulders. Repeat applications of Touchdown Pro may be used, as weeds emerge, to maintain bare ground. Touchdown Pro may be used to control tall-growing weeds to improve line-of-sight at railroad crossings and reduce the need for mowing along rights-of-way. For crossing applications, up to 80 gals. of spray solution per acre may be used. Touchdown Pro may be tank mixed with the following products for ballast, shoulder, spot, bare ground, and crossing treatments.

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Arsenal	Escort	Krovar	Spike®	2,4-D
Banvel	Garlon®	Oust	Telar	
Diuron	Hyvar®	Sahara	Vanquish	

**Roadsides**

Touchdown Pro may be used on road shoulders. It may be applied with boom sprayers, shielded boom sprayers, high-volume off-center nozzles, hand-held equipment, and similar equipment.

Touchdown Pro may be used to control weeds growing under guardrails and around signposts and other objects along the roadside.

Touchdown Pro may be used as a spot treatment to control unwanted vegetation growing along roadsides.

Touchdown Pro may be tank mixed with the following products for shoulder, guardrail, spot, and bare ground treatments:

Banvel	Escort	Pendulum	Sahara	Telar
Diuron	Krovar	Princep	Simazine	Vanquish
Endurance	Oust	Ronstar	Surflan	2,4-D

**Utility Rights-of-Way**

Touchdown Pro is recommended for the control or partial control of woody brush, trees, annual, and perennial weeds. Touchdown Pro is also recommended in preparing or establishing wildlife openings within these sites and for side trimming along utility rights-of-way, including electrical power; pipeline and telephone rights-of-way; and utility sites such as substations.

Broadcast applications can be made at 2-10 qts./A in 5-30 gals./A by air; and 10-60 gals./A by ground.

Spray to wet applications can be made with a handgun, backpack, or mistblower applicator with a 0.75-2% spray solution. For low volume directed spray applications, use a 5-10% solution of Touchdown Pro. Handguns, backpack, or mistblower applicators can be used. For low volume directed spray applications, coverage should be uniform with at least 50 percent of the foliage contacted. Coverage of the top one-half of the plant is important for best results.

Use of 0.5-1% NIS is recommended. Mix 2-4 qts. of NIS per 100 gals. of spray solution.

Refer to the **WEEDS, WOODY BRUSH, AND TREES CONTROLLED** sections for use rates. For best results, apply to actively growing woody brush and trees after full leaf expansion and before fall color and leaf drop. Increase rates within the recommended range for control of perennial weeds any time after emergence and before seedheads, flowers, or berries appear.



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Use the lower rates of Touchdown Pro within the recommended range for control of annual weeds and actively growing perennial weeds after seedheads, flowers, or berries appear.

### **Tank Mixtures for Use in Utility Rights-of-Way**

Tank mixtures of Touchdown Pro may be used to increase the spectrum of vegetation controlled. Any recommended rate of Touchdown Pro may be used in a tank mix.

Arsenal  
Garlon 3A  
Garlon 4  
Oust

- Only use Garlon 4 tank mixes or use Touchdown Pro alone at recommended rates in utility side trimming.
- Ensure that Garlon 3A is thoroughly mixed with water according to label directions before adding to tank mixture. Ensure adequate agitation at the time Garlon 3A is added to avoid spray compatibility problems.

Refer to individual product labels for precautionary statements, restrictions, rates, approved uses, and a list of weeds controlled.

### **Woody Brush and Tree Management**

Touchdown Pro may be used to control woody brush and tree weeds in any area described in **General Use Areas**.

Apply 4-10.6 qts. Touchdown Pro per acre as a broadcast spray, using boom-type or boomless nozzles.

Apply a 0.75-2% solution of Touchdown Pro when using high-volume spray-to-wet applications. Use a 5-10% solution of Touchdown Pro when using low volume directed sprays for spot treatment.

For weeds that have been mowed, grazed, or cut; allow regrowth to occur prior to treatment. Reduced results may occur when treating weeds heavily covered with dust.

### **Tank Mixtures for Woody Brush Control on Railroad Rights-of Way**

Touchdown Pro can be tank mixed with the following products for enhanced control of woody brush and trees.

Arsenal      Garlon  
Escort      Tordon®

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### Cut Stumps

Touchdown Pro will control regrowth of cut stumps and resprouts of many types of woody brush and tree species, some of which are listed. Apply Touchdown Pro using suitable equipment to ensure coverage of the entire cambium. Cut trees or resprouts close to the soil surface. Apply a 50-100% solution of Touchdown Pro completely covering the freshly-cut surface immediately after cutting. Application delay may result in reduced performance. For best results, applications should be made during periods of active growth and full leaf expansion. Avoid applications during peak sap flow in spring.

- |             |            |
|-------------|------------|
| Alder       | Salt-cedar |
| Eucalyptus  | Sweetgum   |
| Madrone     | Tan oak    |
| Oak         | Willow     |
| Reed, giant |            |

**Note:** Avoid making cut stump applications when roots of desirable adjacent trees may have grafted onto the roots of the cut stump.

### Tree Injections and Frill Applications

Touchdown Pro may be used to control woody brush and trees by using injection and frill applications in any areas described in General Use Areas.

Apply the equivalent of 1 ml of this product per each 2-3 inches of trunk diameter at breast height (DBH). For best results, apply a 25-100% solution of Touchdown Pro to a continuous frill or to evenly spaced cuts around the tree below all branches. In larger diameter trees, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings.

Avoid runoff in species that exude sap freely by making frills or cuts at an oblique angle, producing a cupping effect. Use Touchdown Pro in an undiluted form. For best results, avoid applications during peak sap flow in the spring. Make applications during periods of active growth and after full leaf expansion.

Following is a partial list of species that can be controlled using this technique.

- |                         |          |
|-------------------------|----------|
| Black gum <sup>1</sup>  | Oak      |
| Dogwood <sup>1</sup>    | Poplar   |
| Hickory <sup>1</sup>    | Sweetgum |
| Maple, red <sup>1</sup> | Sycamore |

<sup>1</sup>Partial Control

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Barricade<sup>®</sup>, Endurance<sup>®</sup>, Princep<sup>®</sup>, Princep<sup>®</sup> Caliber 90<sup>®</sup>, Touchdown<sup>®</sup>, Vanquish<sup>®</sup> and the Syngenta logo are trademarks of a Syngenta Group Company.

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U. S. Patent No. 5,468,718.

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