

**QUALI-PRO®**

Doc. Id 566957

ACCEPTED  
FOR REGISTRATION

March 16, 2020

New York State Department  
of Environmental Conservation  
Division of Solid & Hazardous Materials  
Pesticide Product Registration



# Glyphosate Plus

## Herbicide

Non-selective, broad-spectrum weed control for many cropping systems, farmsteads, and Conservation Reserve Program acres; Selective broad-spectrum weed control in Roundup Ready® crops; Noncrop and Industrial Sites.

**ACTIVE INGREDIENT:** % BY WT.

\*Glyphosate, N-(phosphonomethyl)glycine,  
in the form of its isopropylamine salt: ..... **41.0%**

**OTHER INGREDIENTS:** ..... **59.0%**

**TOTAL:** ..... **100.0%**

\*Contains 480 grams per liter or 4 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 356 grams per liter or 3 pounds per U.S. gallon of the acid, glyphosate.

**KEEP OUT OF  
REACH OF CHILDREN  
CAUTION**

**EPA Reg. No. 53883-319**  
**EPA Est. No. 084840-LA-001**

**Net Contents: 2.5 GALLONS**



**ADAMA**

Manufactured for:

**Control  
Solutions Inc.**

A member of Adama  
Consumer and Professional Solutions  
5903 Genoa Red Bluff, Pasadena, TX 77507

EPA101812

FIRST AID	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>Have the product container or label with you when calling a poison control center or doctor or going for treatment.</b> You may also contact SafetyCall® International for emergency medical treatment at (866) 897-8050.	

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Causes moderate eye irritation. Harmful if swallowed or inhaled. Avoid contact with eyes, skin, or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling.

**DOMESTIC ANIMALS:** This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear

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

**ENGINEERING CONTROLS STATEMENT:** When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in 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.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, 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.

**PHYSICAL OR CHEMICAL HAZARDS**

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic, or plastic-lined steel containers.

**DO NOT MIX, STORE, OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS.** This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette, or other ignition source.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in any 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 regulations.

### 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
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

### NON-AGRICULTURAL 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.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS, FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY® CROPS), OR DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

Read the entire label before using this product, and only use according to label instructions. Read the "LIMITATION OF WARRANTY AND LIABILITY" statement at the end of this label before buying or using. If terms are not acceptable, return at once unopened.

### PRODUCT INFORMATION: How This Product Works

**Product Description:** This product is a postemergent systemic herbicide with no soil residual activity. It is generally non-selective and gives broad-spectrum control of many annual weeds, perennial weeds, woody brush, and trees. It is formulated as a water-soluble liquid. No additional surfactants, additives containing surfactant, buffering agents, or pH adjusting agents are needed. It may be applied through most standard industrial or field-type sprayers after dilution and thorough mixing with water or other carriers according to label instructions.

Do not add surfactants, additives containing surfactants, buffering agents, or pH adjusting agents to this product. Ammonium sulfate may be used. See the "MIXING" section of this label for instructions.

**Time to Symptoms:** This product moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual weeds occur within 2 to 4 days, but on most perennial weeds, may not occur for 7 days or more. Extremely cool or cloudy weather following treatment may slow activity of this product and delay development of visual symptoms. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of above-ground growth and deterioration of underground plant parts.

**Stage of Weeds:** Annual weeds are easiest to control when they are small. Best control of most perennial weeds is obtained when treatment is made at the late growth stages approaching maturity. Refer to the "ANNUAL WEEDS RATE TABLE," "PERENNIAL WEEDS RATE TABLE," and the "WOODY BRUSH AND TREES RATE TABLE" for recommendations for specific weeds.

Always use the higher rate of this product per acre within the specified range when weed growth is heavy or dense or weeds are growing in an undisturbed (noncultivated) area.

Do not treat weeds under poor growing conditions such as drought stress, disease, or insect damage, as reduced weed control may result. Reduced results may also occur when treating weeds heavily covered with dust.

**Cultural Considerations:** Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed, or cut, and have not been allowed to regrow to the labeled stage for treatment.

**Rainfastness:** Heavy rainfall soon after application may wash this product off of the foliage and a repeat application may be required for adequate control.

**Spray Coverage:** For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of runoff.

**Mode of Action:** The active ingredient in this product inhibits an enzyme found only in plants and microorganisms that is essential to formation of specific amino acids.

**No Soil Activity:** Weeds must be emerged at the time of application to be controlled by this product. 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 by the herbicide and will continue to grow.

**Biological Degradation:** Degradation of this product is primarily a biological process carried out by soil microbes.

**Tank Mixing:** This product does not provide residual weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive label directions for each product in the mixture.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly stated in this labeling. Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance.

**Annual Maximum Use Rate:** Except as otherwise specified in a food crop section of this label, the combined total of all treatments must not exceed 8 quarts of this product per acre per year. For applications in nonfood and/or noncrop sites, the combined total of all treatments must not exceed 10.6 quarts of this product per acre per year. The maximum use rate stated throughout this product's labeling apply to this product combined with the use of all other containing glyphosate or sulfosate as the active ingredient, whether applied as mixtures or separately.

**NOTE:** Use of this product in any manner not consistent with this label may result in injury to persons, animals, or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

#### MIXING

Clean sprayer parts immediately after using this product by thoroughly flushing with water.

**NOTE:** REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED SUCH AS VISIBLY MUDDY WATER OR WATER FROM PONDS AND DITCHES THAT IS NOT CLEAR.

#### Mixing with Water

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the specified amount of this product near the end of the filling process and mix well. Use caution to avoid siphoning back into the carrier source. Use approved anti-back-siphoning devices where required by state or local regulations. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, terminate by-pass and return lines at the bottom of the tank, and if needed, use an approved anti-foam or defoaming agent.

#### Tank Mixing Procedure

Mix labeled tank mixtures of this product with water as follows:

1. Place a 20- to 35-mesh screen or wetting basket over filling port.
2. Through the screen, fill the spray tank one-half full with water and start agitation.
3. If a wettable powder is used, make a slurry with the water carrier and add it SLOWLY through the screen into the tank. Continue agitation.
4. If a flowable formulation is used, premix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.
5. If an emulsifiable concentrate formulation is used, premix one part emulsifiable concentrate with two parts water. Add diluted mixture slowly through the screen into the tank. Continue agitation.
6. Continue filling the spray tank with water and add the required amount of this product near the end of the filling process.
7. Add individual formulations to the spray tank as follows: wettable powders, flowables, emulsifiable concentrates, drift control additives, and water-soluble liquids.

Maintain good agitation at all times until the contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near the bottom of the tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh.

Always predetermine the compatibility of labeled tank mixtures of this product with water carrier by mixing small proportional quantities in advance. Ensure that the specific tank mixture product is registered for application at the desired site.

#### 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:

##### Spray Solution

Desired Volume	0.5%	Amount of Quali-Pro Glyphosate Plus Herbicide					
		1%	1.5%	2%	5%	10%	
1 gal	0.7 oz	1.3 oz	2 oz	2.7 oz	6.5 oz	13 oz	
25 gal	1 pt	1 qt	1.5 qt	2 qt	5 qt	10 qt	
100 gal	2 qt	1 gal	1.5 gal	2 gal	5 gal	10 gal	

2 tablespoons = 1 fluid ounce

For use in knapsack sprayers, mix the specified amount of this product with water in a larger container. Fill sprayer with the mixed solution.

#### Ammonium Sulfate

The addition of 1- to 2-percent dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this product, particularly when tank mixed with certain residual herbicides on annual and perennial weeds. The equivalent rate of ammonium sulfate in a liquid formulation may also be used. Ensure that dry ammonium sulfate is completely dissolved in the spray tank before adding herbicides. Thoroughly rinse the spray system with clean water after use to reduce corrosion.

**NOTE:** When using ammonium sulfate, apply this product at rates specified in this label. Lower rates will result in reduced performance.

### Colorants or Dyes

Agriculturally-approved colorants or marking dyes may be added to this product. Colorants or dyes used in spray solutions of this product may reduce performance, especially at lower rates or dilutions. Use colorants or dyes according to the manufacturer's specifications.

### Drift Control Additives

Drift control additives may be used with all equipment types except wiper applicators, sponge bars, and Controlled Droplet Applicator (CDA) equipment. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label. Note: Drift control additives can affect spray coverage which may result in reduced performance.

### APPLICATION EQUIPMENT AND TECHNIQUES

**CHEMIGATION STATEMENT:** Do not apply this product through any type of irrigation system.

This product may be applied with the following application equipment:

**Aerial:** Fixed Wing and Helicopter

**Ground Broadcast Spray:** Boom or boomless systems, pull-type sprayer, floaters, pick-up sprayers, spray coupes, and other ground broadcast equipment.

**Hand-Held or High-Volume Spray Equipment:** Knapsack and backpack sprayers, pump-up pressure sprayers, handguns, handwands, mistblowers<sup>®</sup>, lances and other hand-held and motorized spray equipment used to direct the spray onto weed foliage. (\*This product is not registered in California or Arizona for use in mistblowers.)

**Selective Equipment:** Recirculating spray systems, shielded and hooded sprayers, wiper applicators, and sponge bars.

**Injection Systems:** Aerial or ground injection sprayers.

**Controlled Droplet Applicator (CDA):** Hand-held or boom-mounted applicators which produce a spray consisting of a narrow range of droplet sizes.

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES.

### SPRAY DRIFT MANAGEMENT

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

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. The likelihood of injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing, or when there are other meteorological conditions that favor spray drift. 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.

### AERIAL SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target movement from aerial applications to agricultural field crops and other labeled uses. These requirements do not apply to forestry applications, public health uses, or to applications using dry formulations.

1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward, parallel with the airstream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the "AERIAL DRIFT REDUCTION ADVISORY" section of this label.

### AERIAL DRIFT REDUCTION ADVISORY

This section is advisory in nature and does not supersede the mandatory label requirements.

#### Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see the "Wind", "Temperature and Humidity," and "Temperature Inversions" sections of this label).

#### Controlling Droplet Size

- **Volume:** Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with the higher rated flows produce larger droplets.
- **Pressure:** Do not exceed the nozzle manufacturer's specified pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of nozzles:** Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle orientation:** Orienting nozzles so that the spray is released backwards parallel to the airstream will produce larger droplets than other orientations and is the suggested practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle type:** Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid-stream nozzles oriented straight back produce the largest droplets and the lowest drift.

**Boom Length**

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

**Application Height**

Applications should not be made at a height greater than 10 feet above the top of the target plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces the exposure of the droplets to evaporation and wind.

**Swath Adjustment**

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

**Wind**

Drift potential is lowest between wind speeds of 2 to 10 miles per hour. However, many factors including droplet size and equipment type determine drift potential at any given speed. Application must be avoided below 2 miles per hour due to variable wind direction and high inversion potential.

**NOTE:** Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect drift.

**Temperature and Humidity**

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

**Temperature Inversions**

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

**Sensitive Areas**

The product should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

**AERIAL EQUIPMENT**

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL.

For aerial application in California and Arkansas, refer to specific instructions found elsewhere in this label.

This product plus dicamba tank mixtures may not be applied by air in California.

Use the specified rates of this herbicide in 3 to 15 gallons of water per acre unless otherwise specified on this label. Unless otherwise specified, do not exceed 1 quart per acre. Aerial applications of this product may be made in annual cropping conventional tillage systems, fallow and reduced tillage systems, and preharvest applications. Refer to the individual use area sections of this label for applicable volumes, application rates, and further instructions. Avoid direct application to any body of water.

AVOID DRIFT. DO NOT APPLY DURING LOW-LEVEL INVERSION CONDITIONS, WHEN WINDS ARE GUSTY, OR UNDER ANY OTHER CONDITION WHICH FAVORS DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED. Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Ensure uniform application. To avoid streaked, uneven, or overlapped application, use appropriate marking devices.

**AIRCRAFT MAINTENANCE**

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR IS MOST SUSCEPTIBLE. The maintenance of an organic coating (paint), which meets aerospace specification MIL-C-38413 may prevent corrosion.

**AERIAL APPLICATION IN CALIFORNIA ONLY**

Aerial applications of this product are allowed in the following situations:

1. In fallow and reduced tillage systems prior to the emergence or transplanting of labeled crops.
2. In alfalfa and pasture renovation applications.
3. Over-the-top applications in Roundup Ready® corn and cotton.
4. Preharvest in alfalfa, corn, cotton, wheat, Roundup Ready corn, and Roundup Ready cotton.

Do not plant subsequent crops other than those listed in the label booklet for 30 days following application.

When tank mixing this product with 2,4-D for aerial applications, only 2,4-D amine formulations may be used. This tank mixture may be used for fallow and reduced tillage systems and alfalfa and pasture renovation applications only. Do not exceed the following maximum rates when making applications by air in California:

1 quart per acre prior to harvest	2 quarts per acre
Alfalfa	Fallow
Corn	Reduced Tillage Systems
Roundup Ready corn*	Alfalfa and Pasture Renovation
Cotton	
Roundup Ready cotton*	
Wheat	

\* This restriction also applies to over-the-top applications in Roundup Ready corn and cotton.

#### **Aerial Equipment**

Use the specified rates of this product in 3 to 15 gallons of water per acre. Use the following guidelines when aerial applications are made near crops or desirable perennial vegetation after bud break and before total leaf drop and/or near other desirable vegetation or annual crops.

1. Do not apply within 100 feet of all desirable vegetation or crop(s).
2. If wind up to 5 miles per hour is blowing toward desirable vegetation or crop(s), do not apply within 500 feet of the desirable vegetation or crop(s).
3. Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crop(s) may require buffer zones in excess of 500 feet.
4. Do not apply when winds are in excess of 10 miles per hour or when inversion conditions exist.

#### **AERIAL APPLICATION IN FRESNO COUNTY, CALIFORNIA ONLY (From February 15 through March 31 Only)**

##### **Applicable Area**

This supplement only applies to the area contained inside the following boundaries within Fresno County, California.

North:	Fresno County line
South:	Fresno County line
East:	State Highway 99
West:	Fresno County line

#### **General Information**

Always read and follow the label directions and precautionary statements for all products used in the aerial application.

Observe the following directions to minimize off-site movement during aerial application of this product. Minimization of off-site movement is the responsibility of the grower, Pest Control Advisor, and aerial applicator.

#### **Written Recommendations**

A written recommendation MUST be submitted by or on behalf of the applicator to the Fresno County Agricultural Commissioner 24 hours prior to the application. This written recommendation MUST state the proximity of surrounding crops and that conditions of each manufacturer's product label and this label have been satisfied.

#### **Aerial Applicator Training and Equipment**

Aerial application of this product is limited to pilots who have successfully completed a Fresno County Agricultural Commissioner and California Department of Pesticide Regulation approved training program for aerial application of herbicides. All aircraft must be inspected, critiqued in flight, and certified at a Fresno County Agricultural Commissioner approved fly-in. Test and calibrate spray equipment at intervals sufficient to insure that proper rates of herbicides and adjuvants are being applied during commercial use. Applicator must document such calibrations and testing. Demonstration of performance at Fresno County Agricultural Commissioner approved fly-ins constitutes such documentation or other written records showing calculations and measurements of flight and spray parameters acceptable to the Fresno County Agricultural Commissioner.

#### **Applications at Night**

Do not apply this product by air earlier than 30 minutes prior to sunrise and/or later than 30 minutes after sunset without prior permission from the Fresno County Agricultural Commissioner.

**Note:** For aerial application from April 1 through February 14, refer to the "AERIAL APPLICATION IN CALIFORNIA ONLY" section of this label.

#### **AERIAL APPLICATION IN ARKANSAS ONLY**

AVOID DRIFT. DO NOT APPLY INTO STILL AIR WHERE THERE IS A TEMPERATURE INVERSION LAYER LOW ENOUGH FOR FINE SPRAY PARTICLES TO BECOME SUSPENDED AND MOVE OUTSIDE THE TARGET AREA WHEN THE INVERSION LAYER MOVES. DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION THAT FAVORS DRIFT. DRIFT IS LIKELY TO CAUSE DAMAGE TO ANY VEGETATION CONTACTED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Use the specified rate of this product in 3 to 15 gallons of water per acre. Use sufficient carrier volume and appropriate equipment to form droplets large enough to avoid drift potential. Coarse droplets in the 300 to 500 (VMD) micron range are required.

Applications should typically be made with the nozzle release point at 8 to 15 feet above the top of the target plants unless a greater height is required for aircraft safety.

The distance of the outermost nozzles on the boom must not exceed 75 percent of the length of the wingspan or rotor. In many cases, reducing this distance to 65 percent of the length of the wingspan or rotor will improve drift control without affecting the swath width.

Nozzles must always discharge backward parallel with the airstream and never discharge downwards more than 45 degrees on fixed-wing aircraft or forward of the prevailing airflow on rotary-winged aircraft. Avoid the use of nozzles with wide-angle discharge.

Do not apply this product when winds are in excess of 10 miles per hour.

Do not apply when there is a low-level inversion where fine spray particles could be suspended in still air and move outside the target area when the inversion layer moves. These conditions may occur when wind speeds are less than 2 miles per hour.

Use the following guidelines when applications are made near crops or other desirable vegetation:

1. Do not apply within 100 feet of any desirable vegetation or crops.
2. If wind up to 5 miles per hour is blowing toward desirable vegetation or crops, do not apply within 500 feet upwind of the desirable vegetation or crops.
3. Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crops will likely require buffer zones in excess of 500 feet.

#### **AERIAL APPLICATION IN ARKANSAS, LOUISIANA, MISSISSIPPI, MISSOURI, AND TENNESSEE ONLY**

This product controls annual and perennial weeds listed on this label prior to planting or emergence of corn, cotton, rice, sorghum, and soybeans; prior to the harvest of cotton and soybeans; and following the harvest of any crop in the fall via aerial applications in these locations.

Aerial applications of this product may be made in fallow systems and conventional, reduced, and zero tillage systems. For applications via aerial equipment, use the specified rates of this product in 3 to 10 gallons of water per acre. Do not exceed a rate of 3 quarts per acre. The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions including lesser velocities will allow spray drift to occur.

#### **GROUND BROADCAST EQUIPMENT**

Use the specified rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified. As density of weeds increases, spray volume should be increased within the labeled range to ensure complete coverage. Carefully select proper nozzles to avoid spraying a fine mist. For best results with ground application equipment, use flat spray nozzles. Check for even distribution of spray droplets.

#### **HAND-HELD OR HIGH VOLUME EQUIPMENT**

Apply to foliage of vegetation to be controlled. 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 the "ANNUAL WEEDS RATE TABLE," apply a 0.5-percent solution of this product 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 over 6 inches tall or unless otherwise specified, use a 1-percent solution.

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

When using application methods which result in less than complete coverage, use a 5-percent solution for annual and perennial weeds and a 5- to 10-percent solution for woody brush and trees.

#### **SELECTIVE EQUIPMENT**

This product may be applied through recirculating spray systems, shielded applicators, hooded sprayers, wiper applicators, or sponge bars after dilution and thorough mixing with water to listed weeds growing in any noncrop site specified on this label and only when specifically suggested in cropping systems.

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

Contact of the herbicide solution with desirable vegetation may result in damage or destruction. Applicators used above desirable vegetation should be adjusted 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 may result in discoloration, stunting, or destruction.

Applications made above the crops should be made when the weeds are a minimum of 6 inches above the desirable vegetation. 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. This may occur in dense clumps, severe infestations, or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatment may be necessary.

#### **Recirculating Spray System**

A recirculating spray system directs the spray solution onto weeds growing above desirable vegetation while spray solution not intercepted by weeds is collected and returned to the spray tank for reuse.

#### **Shielded and Hooded Applicators**

A hooded sprayer is a type of shielded applicator where the spray pattern is fully enclosed including top, sides, front, and back thereby shielding the crop from the spray solution. Use nozzles that provide uniform coverage within the treated area. Keep shields on these sprayers adjusted to protect desirable vegetation. **EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION.**



When applying to crops grown on raised beds, ensure that the hood is designed to completely enclose the spray solution. If necessary, extend the front and rear flaps of the hoods to reach the ground in deep furrows. **EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION.**

This equipment must be set up and operated in a manner that avoids bouncing or raising the hoods off the ground in any way. If the hoods are raised, spray particles may escape and come into contact with the crop causing damage or destruction of the crop. The spray hoods must be operated on the ground or skimming across the ground. Avoid operation on rough or sloping ground where the spray hoods might be raised off the ground.

These procedures will reduce the potential for crop injury:

- The spray hoods must be operated on the ground or skimming across the ground.
- Leave at least an 8-inch untreated strip over the drill row. For example, if the crop row width is 38 inches, the maximum width of the spray hood should be 30 inches.
- Maximum tractor speed: 5 miles per hour to avoid bouncing of the spray hoods.
- Maximum wind speed: 10 miles per hour.
- Use low-drift nozzles that provide uniform coverage within the treated area.

Crop injury may occur when the foliage of treated weeds comes into direct contact with leaves of the crop. Do not apply this product when the leaves of the crop are growing in direct contact with weeds to be treated. Droplets, mist, foam, or splatter of the herbicide solution may contact the crop and cause discoloration, stunting, or destruction.

#### **Wiper Applicators and Sponge Bars**

A wiper or sponge applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution. Wipers over the top of crops may be used only when specifically referred to in this product's labeling.

When applied under the conditions described in the following paragraphs, this product controls many weeds including volunteer corn, Texas panicum, common rye, shattercane, sicklepod, spanishneedles, and bristly starbur; and suppresses many weeds including Florida beggarweed, bermudagrass, hemp dogbane, dogfennel, guineagrass, johnsongrass, milkweed, silverleaf nightshade, redroot pigweed, common ragweed, giant ragweed, smutgrass, sunflower, Canada thistle, musk thistle, vaseygrass, and velvetleaf.

Wiper applicators are devices that physically wipe appropriate amounts of this product directly onto the weed. Equipment must be designed, maintained, and operated to prevent the herbicide solution from contacting desirable vegetation. Operate this equipment at ground speeds no greater than 5 miles per hour. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results will be obtained if two applications are made in opposite directions.

Avoid leakage or dripping onto desirable vegetation. Adjust height of applicator to ensure adequate contact with weeds. Keep wiping surfaces clean. Be aware that on sloping ground, the herbicide solution may migrate causing dripping on the lower end and drying of the wicks on the upper end of a wiper applicator.

Do not use wiper equipment when weeds are wet.

Mix only the amount of solution to be used during a 1-day period, as reduced activity may result from use of leftover solutions. Clean wiper parts immediately after using this product by thoroughly flushing with water.

Do not add surfactant to the herbicide solution.

**For Rope or Sponge Wick Applicators:** Mix 1 gallon of this product in 2 gallons of water to prepare a 33-percent solution. Apply this solution to weeds listed in this section.

**For Porous-Plastic Applicators:** Solutions ranging from 33 to 100 percent of this product in water may be used in porous-plastic wiper applications.

#### **INJECTION SYSTEMS**

This product 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 this product with the concentrate of other products when using injection systems.

#### **CDA EQUIPMENT**

The rate of this product applied per acre by vehicle-mounted CDA equipment must not be less than the amount specified in this label when applied by conventional broadcast equipment. For vehicle-mounted CDA equipment, apply 3 to 15 gallons of water per acre.

For the control of annual weeds with hand-held CDA units, apply a 20-percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 miles per hour (1 quart per acre). For the control of perennial weeds, apply a 20- to 40-percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 0.75 miles per hour (2 to 4 quarts per acre).

Controlled droplet application equipment produces a spray pattern that 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, as damage or destruction may result.

#### **1.0 ANNUAL AND PERENNIAL CROPS**

**NOTE:** THIS SECTION GIVES DIRECTIONS THAT APPLY TO ALL LISTED CROPS WITHIN SECTION 1 BELOW. SEE THE INDIVIDUAL CROP CATEGORIES FOR SPECIFIC INSTRUCTIONS, PREHARVEST INTERVALS, AND ADDITIONAL PRECAUTIONS AND RESTRICTIONS.

See the "ROUNDUP READY CROPS" section of this label or separately published supplemental labeling for instructions for treating Roundup Ready crops.

#### GENERAL USE INSTRUCTIONS:

Unless otherwise specified, applications may be made to control any of the weeds listed in the "ANNUAL WEEDS RATE TABLE," "PERENNIAL WEEDS RATE TABLE," and the "WOODY BRUSH AND TREES RATE TABLE." For any crop not listed in this label, applications must be made at least 30 days prior to planting.

For broadcast postemergent treatments, do not harvest or feed treated vegetation for 8 weeks following application unless otherwise specified.

Post-directed hooded sprayers and wiper equipment capable of preventing all crop contact with herbicide solutions may be used in mulched or unmulched row middles after crop establishment. Where specifically noted below, wipers may also be used above certain crops to control tall weeds. Refer to the "SELECTIVE EQUIPMENT" section of this label for essential precautions when using hooded sprayers or wipers to avoid crop injury caused by leakage of spray mists or dripping onto crops. Crop injury is possible with these applications and shall be the sole responsibility of the applicator.

When applying this product prior to transplanting crops into plastic mulch, residues may be removed from the plastic by 0.5 inches of water via sprinkler irrigation or natural rainfall.

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 stated maximum use rate.

#### 1.1 Cereal and Grain Crops

**LABELED CROPS:** Barley, Buckwheat, Millet (pearl, proso), Oats, Rice, Rye, Quinoa, Teff, Teosinte, Triticale, Wheat (all types), and Wild rice.

**PRECAUTIONS, RESTRICTIONS:** Do not treat rice fields or levees when field contains water.

**TYPES OF APPLICATIONS:** Preplant, Preemergence, At-Planting, Red Rice Control Prior To Planting Rice (Texas Only), Spot Treatment (Except Rice), Post-Harvest, Preharvest (Wheat Only), Wiper Applicators (Wheat Only).

##### **Preplant, Preemergence, At-Planting**

**USE INSTRUCTIONS:** This product may be applied before, during, or after planting of cereal crops. Applications must be made prior to emergence of the crop.

##### **Spot Treatment (Except Rice)**

**USE INSTRUCTIONS:** This product may be applied as a spot treatment in cereal crops. Apply this product before heading in small grains.

**PRECAUTIONS, RESTRICTIONS:** Do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

##### **Wiper Applicators (Wheat Only)**

**USE INSTRUCTIONS:** Wiper applications may be used in wheat. To control common rye or cereal rye, apply after the weeds have headed and achieved maximum growth and when the rye is at least 6 inches above the wheat crop.

**PRECAUTIONS, RESTRICTIONS:** Allow at least 35 days between application and harvest. Do not use roller applicators.

##### **Preharvest (Wheat Only)**

**USE INSTRUCTIONS:** This product provides weed control when applied prior to harvest of wheat. Apply after the hard-dough stage of grain (30 percent or less grain moisture) and at least 7 days prior to harvest. Wheat stubble may be grazed immediately after harvest.

This product may be applied using either aerial or ground spray equipment. For ground applications, apply this product in 10 to 20 gallons of water per acre. For aerial applications, apply this product in 3 to 10 gallons of water per acre.

**PRECAUTIONS, RESTRICTIONS:** Do not apply more than 1 quart of this product per acre. A reduction in germination or vigor can occur in preharvest application of wheat grown for seed.

##### **Post-Harvest**

**USE INSTRUCTIONS:** This product may be applied after harvest of cereal crops. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used.

**PRECAUTIONS, RESTRICTIONS:** For any crop not listed on this label, applications must be made at least 30 days prior to planting the next crop. Do not harvest or feed treated vegetation for 8 weeks following application.

##### **Red Rice Control Prior to Planting Rice (Texas Only)**

**USE INSTRUCTIONS:** Apply 1.5 quarts of this product in 5 to 10 gallons of water per acre. Flush fields prior to application to obtain uniform germination and stand of red rice. Make application when the majority of the red rice plants are in the 2-leaf stage and no more than 4 inches tall. Red rice plants with less than 2 true leaves may be only partially controlled.

**PRECAUTIONS, RESTRICTIONS:** Avoid spraying during low humidity conditions, as reduced control may result. Do not treat rice fields or levees when the fields contain floodwater. Do not re-flood treated fields for 8 days following application.

##### **Nonselective Control of Listed Annual Weeds in Small Grain Cropping Systems (South Dakota Only)**

**USE INSTRUCTIONS:** Apply by ground application in 5 to 10 gallons of water per acre. For aerial applications, apply in 2 to 3 gallons of water per acre.

**PRECAUTIONS, RESTRICTIONS:** The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions including lesser wind velocities will allow spray drift to occur. Adjust boom height on ground equipment to prevent streaked, overlapped, or uneven applications. Avoid spraying when weeds are subject to moisture stress, when dust is on foliage, or when straw canopy covers the weeds.

## 1.2 Corn

**TYPES OF CORN:** Field corn, Seed corn, Silage corn, Sweet corn, and Popcorn. For Roundup Ready corn, see the "ROUNDUP READY CROPS" section of this label.

**TYPES OF APPLICATIONS:** Preplant, Preemergence, At-Planting, Spot Treatment, Hooded Sprayers, Preharvest, Post-Harvest.

### Preplant, Preemergence, At-Planting

**USE INSTRUCTIONS:** This product may be applied alone or in a tank mixture before, during, or after planting corn. Applications must be made prior to emergence of the crop.

**TANK MIXTURES:** This product may be tank mixed with the following products provided that the specific product is registered for application before, during, or after planting corn in conventional tillage systems, into a cover crop, established sod, or in previous crop residue. Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre. For improved burndown, this product may be tank mixed with 2,4-D or dicamba.

2,4-D
acetochlor
Aim®, Aim EC
alachlor
atrazine
Axiom®
Balance®
Banvel®/Clarity®
Bicep® Magnum
Bicep II Magnum
Bicep Lite II Magnum
Bullet®
Define®
Degree®, Degree Extra
Distinct®
Dual® Magnum

Dual II Magnum
Epic®
Frontier®/Outlook®
Fultime®
Guardsman®/Guardsman Max/Leadoff®
Harness®
Harness Extra
Harness Extra 5.6L
Hornet®
Intrro®
Keystone®
Keystone LA
Lariat®
Linex®/Lorox®
Marksman®

Micro-Tech®
metolachlor
pendimethalin
Prowl®
Python®
Python 2
Radius®
Resolve®
Resource®
simazine
s-metolachlor
Stalwart® C
Stalwart Extra
Topnotch®

**Note:** Always be sure that the tank mix product is registered for the intended use and is registered in your state.

For difficult-to-control annual weeds such as fall panicum, barnyardgrass, crabgrass, shattercane, and broadleaf signalgrass up to 2 inches tall and Pennsylvania smartweed up to 6 inches tall, apply this product at 2 pints per acre in these tank mixtures. For other labeled annual weeds, apply 1 to 1.5 pints of this product per acre when weeds are less than 6 inches tall and 2 to 3 pints when weeds are over 6 inches tall.

**PRECAUTIONS, RESTRICTIONS:** Applications of 2,4-D or dicamba must be made at least 7 days prior to planting corn.

For Southern states, do not apply in nitrogen solutions to tough-to-control grasses such as barnyardgrass, fall panicum, broadleaf signalgrass, annual ryegrass and any perennial weeds. The area covered includes from Route 50 South in Illinois and Indiana and the following states: Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, New Jersey, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia. Refer to the map under "ANNUAL WEEDS RATE TABLE."

### Hooded Sprayers

**USE INSTRUCTIONS:** This product may be used through hooded sprayers for weed control between the rows of all types of corn (including field corn, sweet corn, and popcorn). Use only hooded sprayers that completely enclose the spray pattern. See additional instruction for the use of hooded sprayers in the "APPLICATION EQUIPMENT AND TECHNIQUES" and "SELECTIVE EQUIPMENT" sections of this label.

**PRECAUTIONS, RESTRICTIONS:** Corn must be at least 12 inches tall, measured without extending leaves. Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the applicator. Do not apply more than 1 quart of this product per acre for each application and no more than 3 quarts per acre per year for hooded sprayer applications. Do not graze or feed corn forage or fodder following applications of this product through hooded sprayers.

Leave at least an 8-inch untreated strip over the drill row. For example, if the crop row width is 38 inches, the maximum width of the spray hood should be 30 inches.

### **Spot Treatment**

USE INSTRUCTIONS: For spot treatments, apply this product prior to silking of corn.

PRECAUTIONS, RESTRICTIONS: Do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

### **Preharvest**

USE INSTRUCTIONS: Make applications at 35 percent grain moisture or less. Ensure that maximum kernel fill is complete and the corn is physiologically mature (black layer formed). For ground applications, apply up to 3 quarts of this product per acre. For aerial applications, apply up to 1 quart of this product per acre.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between application and harvest. Preharvest application is not recommended for corn grown for seed as a reduction in germination or vigor may occur.

### **Post-Harvest**

USE INSTRUCTIONS: This product may be applied after harvest of corn. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used.

PRECAUTIONS, RESTRICTIONS: Do not harvest or feed treated vegetation for 8 weeks following application.

### **1.3 Cotton**

TYPES OF APPLICATIONS: Preplant, Preemergence, At-Planting, Hooded Sprayer, Selective Equipment, Spot Treatment, Preharvest. For Roundup Ready cotton, see the "ROUNDUP READY CROPS" section of this label.

#### **Preplant, Preemergence, At-Planting**

USE INSTRUCTIONS: This product may be applied alone or in tank mixtures before, during, or after planting cotton. Applications must be made prior to emergence of the crop.

#### **Hooded Sprayer, Selective Equipment**

USE INSTRUCTIONS: This product may be applied through hooded sprayers, recirculating sprayers, shielded applicators, or wiper applicators in cotton. Allow at least 7 days between application and harvest.

PRECAUTIONS, RESTRICTIONS: See the "APPLICATION EQUIPMENT AND TECHNIQUES" and "SELECTIVE EQUIPMENT" sections of this label for information on proper use and calibration of this equipment.

### **Spot Treatment**

USE INSTRUCTIONS: For spot treatments, apply this product prior to boll opening of cotton.

PRECAUTIONS, RESTRICTIONS: Do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

### **Preharvest**

USE INSTRUCTIONS: This product provides weed control and cotton regrowth inhibition when applied prior to harvest of cotton. For weed control, apply at rates given in the "ANNUAL WEEDS RATE TABLE," "PERENNIAL WEEDS RATE TABLE," and the "WOODY BRUSH AND TREES RATE TABLE" of this label. For cotton regrowth inhibition, apply 1 pint to 2 quarts of this product per acre.

This product may be applied using either aerial or ground spray equipment. For ground applications, apply this product in 10 to 20 gallons of water per acre. For aerial applications, apply this product in 3 to 10 gallons of water per acre. Apply after sufficient bolls have developed to produce the desired yield of cotton. Applications made prior to this time could affect maximum yield potential.

TANK MIXTURES: This product may be tank mixed with Def® 6, Folex®, or Prep®/Setup® to provide additional enhancement of cotton leaf drop.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between application and harvest of cotton. Do not feed or graze treated cotton forage or hay following preharvest applications. Do not apply more than 1 quart of this product by air. Do not apply more than 2 quarts of this product per acre by ground. Preharvest application is not recommended for cotton grown for seed as a reduction in germination or vigor may occur.

### **1.4 Fallow Systems**

TYPES OF APPLICATIONS: Chemical Fallow, Preplant Fallow Beds, Aid-To-Tillage.

#### **Chemical Fallow**

USE INSTRUCTIONS: Apply this product during the fallow period prior to planting or emergence of any crop listed on this label. This product may be used as a substitute for tillage to control annual weeds in fallow fields. Also, broadcast or spot treatments will control or suppress many perennial weeds in fallow fields. Ground or aerial application equipment may be used. Tank mixtures with 2,4-D and dicamba may be used. Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures. Some crop injury may occur if dicamba is applied within 45 days of planting.

PRECAUTIONS, RESTRICTIONS: Do not apply dicamba tank mixtures by air in California. For any crop not listed on this label, applications must be made at least 30 days prior to planting.

### **Preplant Fallow Beds**

USE INSTRUCTIONS: This product may be applied to fallow beds prior to planting or emergence of any crop listed on this label. For any crop not listed on this label, applications must be made at least 30 days prior to planting. This product will control weeds listed in the "ANNUAL WEEDS RATE TABLE," "PERENNIAL WEEDS RATE TABLE," and the "WOODY BRUSH AND TREES RATE TABLE" sections of this label.

TANK MIXTURES: In addition, 12 fluid ounces of this product plus 2 to 3 fluid ounces of Goal® 2XL/Galigan® 2E per acre will control the following weeds with the maximum height or length indicated: 3": common cheeseweed, chickweed, groundsel; 6": London rocket, shepherds-purse.

16 fluid ounces of this product plus 2 to 3 fluid ounces of Goal 2XL/Galigan 2E per acre will control the following weeds with the maximum height or length indicated: 6": common cheeseweed, groundsel, mare's tail (*Conyza canadensis*); 12": chickweed, London rocket, shepherds-purse.

### **Aid-to-Tillage**

USE INSTRUCTIONS: This product may be used in conjunction with tillage practices in fallow systems or preplant to labeled crops to control downy brome, cheat, volunteer wheat, tansy mustard, and foxtail. For any crop not listed on this label, applications must be made at least 30 days prior to planting. Apply 8 fluid ounces of this product in 3 to 10 gallons of water per acre. Make applications before weeds are 6 inches in height. Application must be followed by conventional tillage practices no later than 15 days after treatment and before regrowth occurs. Allow at least 1 day after application before tillage.

PRECAUTIONS, RESTRICTIONS: Tank mixtures with residual herbicides may result in reduced performance.

### **1.5 Grain Sorghum (Milo)**

TYPES OF APPLICATIONS: Preplant, Preemergence, At-Planting, Spot Treatment, Wiper Applicators, Preharvest, Post-Harvest.

#### **Preplant, Preemergence, At-Planting**

USE INSTRUCTIONS: This product may be applied alone or in tank mixture before, during, or after planting grain sorghum. Applications must be made prior to emergence of the crop.

#### **Spot Treatment and Wiper Applications**

USE INSTRUCTIONS: This product may be applied as a spot treatment in grain sorghum. Make spot treatments before heading of milo. This product may be applied with wiper applicators to control or suppress the weeds listed under "WIPER AND SPONGE BARS" in the "SELECTIVE EQUIPMENT" section of this label.

PRECAUTIONS, RESTRICTIONS: For spot treatment, do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

For wiper applicators, allow at least 40 days between application and harvest. Do not use roller applicators. Do not feed or graze treated milo fodder. Do not ensile treated vegetation.

#### **Preharvest**

USE INSTRUCTIONS: Make applications at 30 percent grain moisture or less.

PRECAUTIONS, RESTRICTIONS: Do not apply more than 2 quarts of this product per acre. Allow a minimum of 7 days between application and harvest. A reduction in germination or vigor can occur when a preharvest application is made to sorghum grown for seed. The use of this product for preharvest grain sorghum (milo) is not registered in California.

#### **Post-Harvest**

USE INSTRUCTIONS: This product may be applied after harvest of grain sorghum. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used.

This product may be applied to grain sorghum (milo) stubble following harvest to suppress or control regrowth. Apply 1 quart of this product per acre for control or 1.5 pints of this product per acre for suppression.

PRECAUTIONS, RESTRICTIONS: Do not harvest or feed treated vegetation for 8 weeks following application.

### **1.6 Herbs and Spices**

LABELED CROPS: Allspice, Angelica, Star anise, Annatto (seed), Balm, Basil, Borage, Burnet, Camomile, Caper buds, Caraway, Black caraway, Cardamom, Cassia bark, Cassia buds, Catnip, Celery seed, Chervil (dried), Chive, Chinese chive, Cilantro (seed), Cinnamon, Clary, Clove buds, Coriander leaf (cilantro or Chinese parsley), Coriander seed (cilantro), Costmary, Culantro (leaf), Culantro (seed), Cumin, Curry (leaf), Dill (dillweed), Dill (seed), Epazote, Fennel seed (common and Florence), Fenugreek, White ginger flower, Grains of paradise, Horehound, Hyssop, Juniper berry, Lavender, Lemongrass, Lovage (leaf and seed), Mace, Marigold, Marjoram (including oregano), Mexican oregano, Mioga flower, Mustard (seed), Nasturtium, Nutmeg, Parsley (dried), Pennyroyal, Pepper (black and white), Pepper leaves, Peppermint, Perilla, Poppy (seed), Rosemary, Rue, Saffron, Sage, Savory (summer and winter), Spearmint, Stevia leaves, Sweet bay, Tansy, Tarragon, Thyme, Vanilla, Wintergreen, Woodruff, Wormwood.

TYPES OF APPLICATIONS: Those listed in "ANNUAL AND PERENNIAL CROPS" section of this label plus the following: Over-the-Top Wiper Application (Peppermint and Spearmint Only), Spot Treatment (Peppermint and Spearmint Only).

#### **Over-the-Top Wiper Application (Peppermint and Spearmint Only), Spot Treatment (Peppermint and Spearmint Only)**

USE INSTRUCTIONS: This product may be applied as a spot treatment or over the top of spearmint and peppermint with wiper applications. Apply spot treatments on a spray-to-wet basis with hand-held equipment such as backpack and knapsack sprayers, pump-up pressure sprayers, hand-guns, hand-

wands, or any other hand-held or motorized spray equipment used to direct the spray solution to a limited area. In wiper applications, the applicator should be adjusted so that the wiper contact point is at least 2 inches above the crop. Weeds should be a minimum of 6 inches taller than the crop.

**PRECAUTIONS, RESTRICTIONS:** This product could cause crop injury. When applying this product prior to transplanting or direct-seeding crops into plastic mulch, care must be taken to remove product residues from the plastic prior to planting. Residual product can be removed by a single 0.5-inch application of water either by natural rainfall or by irrigation. Care must be taken to ensure that the washwater flushes off the plastic mulch and does not enter transplant holes. Applications made at emergence will result in injury or death to emerged seedlings.

Allow at least 7 days between application and harvest. Further applications may be made in the same area at 30-day intervals. In spot treatment applications, no more than 10 percent of the total field area to be harvested should be treated at one time. The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside the target area for this reason. For wiper applications, contact of the herbicide solution with the crop may result in discoloration, stunting, or destruction.

## 1.7 Soybeans

**TYPES OF APPLICATIONS:** Preplant, Preemergence, At-Planting, Spot Treatment, Preharvest, Selective Equipment, Hooded Sprayers. For Roundup Ready soybeans, see the "ROUNDUP READY CROPS" section of this label.

### Preplant, Preemergence, At-Planting

**USE INSTRUCTIONS:** This product may be applied alone or in a tank mixture before, during, or after planting soybeans. Applications must be made prior to emergence of the crop. Tank mixtures of this product with any of the following products may be applied in conventional tillage systems, into a cover crop, established sod, or in previous crop residue.

Aim®
Assure II®
Authority®
Axiom®
Blanket®
Boundary®
Canopy®
Canopy XL
Command®
Command Xtra
Domain®
Dual®
Dual Magnum

Dual II Magnum
FirstRate®
Flexstar®
Frontier®/Outlook®
Fusion®
Gauntlet®
Intro®
Lexone®
Linex®
Lorox®/linuron
Lorox Plus
metolachlor
Micro-Tech®

Pendimax®/pendimethalin
Prowl®
Pursuit®
Pursuit Plus
Python®
Reflex®
Resource®
s-metolachlor
Scepter®
Sencor®
Squadron®
Steel®
Valor®

Note: Always be sure that the tank mix product is registered for the intended use and is registered in your state.

For improved burndown, this product may be tank mixed with 2,4-D or 2,4-DB. See the 2,4-D label for intervals between application and planting. For difficult-to-control annual weeds such as fall panicum, barnyardgrass, crabgrass, shattercane, and broadleaf signalgrass up to 2 inches tall and Pennsylvania smartweed up to 6 inches tall, apply this product at 2 pints per acre in these tank mixtures. For other labeled annual weeds, apply 1 to 1.5 pints of this product per acre when weeds are less than 6 inches tall and 2 to 3 pints when weeds are over 6 inches tall.

### Spot Treatment

**USE INSTRUCTIONS:** For spot treatments, apply this product prior to initial pod set in soybeans.

**PRECAUTIONS, RESTRICTIONS:** Do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

### Preharvest

**USE INSTRUCTIONS:** This product provides weed control when applied prior to harvest of soybeans.

Apply at rates given in the "ANNUAL WEEDS RATE TABLE," "PERENNIAL WEEDS RATE TABLE," and the "WOODY BRUSH AND TREES RATE TABLE." This product may be applied using either aerial or ground spray equipment. For ground applications, apply this product in 10 to 20 gallons of water per acre. For aerial applications, apply this product in 3 to 10 gallons of water per acre. Apply after pods have set and lost all green color. Care should be taken to avoid excessive seed shatter loss due to ground application equipment.

**PRECAUTIONS, RESTRICTIONS:** Do not apply more than 6 quarts per acre of this product for preharvest applications. Do not apply more than 1 quart per acre of this product by air. Allow a minimum of 7 days between application and harvest of soybeans. Do not graze or harvest treated crop for livestock feed within 25 days of last preharvest application. A reduction in germination or vigor can occur with preharvest application in soybeans grown for seed.

### **Selective Equipment**

USE INSTRUCTIONS: This product may be applied through recirculating sprayers, shielded applicators, hooded sprayers, over-the-top wiper applicators, or sponge bars in soybeans. Allow at least 7 days between application and harvest.

PRECAUTIONS, RESTRICTIONS: See the "SELECTIVE EQUIPMENT" part of the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for information on proper use and calibration of this equipment.

### **1.8 Sugarcane**

TYPES OF APPLICATIONS: Preplant, Preemergence, Spot Treatment, Fallow, Hooded Sprayers, Sugarcane Ripening.

#### **Preplant and Preemergence**

USE INSTRUCTIONS: This product may be applied in or around sugarcane fields or in fields prior to the emergence of plant cane.

PRECAUTIONS, RESTRICTIONS: Do not apply to vegetation in or around ditches, canals, or ponds containing water to be used for irrigation.

#### **Spot Treatment**

USE INSTRUCTIONS: This product may be applied as a spot treatment in sugarcane. For control of volunteer or diseased sugarcane, make a 1-percent solution of this product in water and spray-to-wet the foliage of vegetation to be controlled. Volunteer or diseased sugarcane should have at least 7 new leaves.

PRECAUTIONS, RESTRICTIONS: Avoid spray contact with healthy cane plants, since severe damage or destruction may result. Do not feed or graze treated sugarcane foliage following application.

#### **Fallow Treatments**

USE INSTRUCTIONS: This product may be used as a replacement for tillage in fields that are lying fallow between sugarcane crops. This product may also be used to remove the last stubble of ratoon cane. For removal of last stubble of ratoon cane, apply 4 to 5 quarts of this product in 10 to 40 gallons of water per acre to new growth having at least 7 new leaves. Allow 7 or more days after application before tillage.

#### **Hooded Sprayers**

USE INSTRUCTIONS: This product may be used through hooded sprayers for weed control between the rows of sugarcane. See the "SELECTIVE EQUIPMENT" part of the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for additional use instructions.

PRECAUTIONS, RESTRICTIONS: Do not allow treated weeds to come into contact with the crop. Droplets, mist, foam, or splatter of the herbicide solution settling on the crop may result in discoloration, stunting, or destruction. Such damage shall be the sole responsibility of the applicator.

#### **Sugarcane Ripening**

This product may be applied to foliage as a plant growth regulator to hasten ripening and increase the level of sucrose in sugarcane. It is effective in both low- and high-tonnage sugarcane.

When applied as directed under the conditions described, this product will hasten ripening and extend the period of high sucrose level in sugarcane.

As a result of leaf desiccation, improved trash burn can be expected.

Most of the sucrose increase is concentrated in the top nodes of the treated sugarcane stalk. In order to maximize sugar where topping is practiced during harvest, top at the base of the fourth leaf.

Prior to application, consult your state sugarcane authority regarding the degree of sucrose response anticipated from the variety of sugarcane to be treated.

PRECAUTIONS: Application of this product may initiate development of shooting eyes. This product may not increase the sucrose content of sugarcane under conditions of good natural ripening. Within 2 to 3 weeks after application, this product may produce a slight yellowing to pronounced browning and drying of leaves and a shortening of upper internodes. Spindle death may occur. Rainfall within 6 hours after application may reduce effectiveness.

Do not use on sugarcane grown for seed, as a reduction in germination or vigor may occur.

RESTRICTIONS: Do not feed or graze treated sugarcane forage following application. Do not plant subsequent crops in treated fields other than the following for 30 days after application: alfalfa or other forage legumes, beans (all types), corn (all types), cotton, melons (all types), pasture grasses, peanuts, potatoes (Irish or sweet), sorghum (milo), soybeans, squash (all types), or wheat. Do not apply for enhanced ripening to any crops other than sugarcane.

Application Rates :Use the following application rates and timing instructions according to the state in which the sugarcane is grown. **NOTE:** Use the higher rate within the specified range when treating sugarcane under adverse ripening conditions or when less responsive varieties are to be treated.

FLORIDA: Apply 7 to 16 fluid ounces of this product per acre 3 to 5 weeks before harvest of LAST RATOON CANE ONLY.

HAWAII: Apply 12 to 28 fluid ounces of this product per acre 4 to 10 weeks before harvest.

LOUISIANA: Apply 5 to 16 fluid ounces of this product per acre 3 to 7 weeks before harvest of RATOON CANE ONLY.

PUERTO RICO: Apply 7 fluid ounces of this product per acre 3 to 5 weeks before harvest of RATOON CANE ONLY.

TEXAS: Apply 7 to 16 fluid ounces of this product per acre 3 to 5 weeks before harvest of RATOON CANE ONLY.

## 2.0 VEGETABLE CROPS

**NOTE:** THIS “VEGETABLE CROPS” SECTION GIVES GENERAL INSTRUCTIONS THAT APPLY TO ALL LISTED VEGETABLE CROPS WITHIN THIS SECTION. SEE THE INDIVIDUAL CROP CATEGORIES FOR SPECIFIC INSTRUCTIONS, PREHARVEST INTERVALS, PRECAUTIONS, AND RESTRICTIONS.

**USE DIRECTIONS:** This product may be applied prior to the emergence of direct seeded vegetables or prior to transplanting vegetables. For the following crops, apply only prior to planting and allow at least 3 days between application and planting: cantaloupe, casaba melon, crenshaw melon, cucumber, eggplant, garlic, gherkin, gourds, ground cherry, honeydew melon, honey ball melon, mango melon, melons (all), muskmelon, pepino, pepper (all), Persian melon, pumpkin, squash (summer, winter), tomatillo, tomato, watercress, and watermelon.

**TYPES OF APPLICATIONS FOR ALL CROPS LISTED IN “2.0 VEGETABLE CROPS” SECTION OF THIS LABELING:** Chemical Fallow, Preplant Fallow Beds, Preplant, At-Planting, Preemergence, Prior to Transplanting Vegetables, Hooded Sprayers in Row Middles, Shielded Sprayers in Row Middles, Wiper Application in Row Middles, Post-Harvest, Selective Equipment Applications (Nonbearing Ginseng), Over-the-Top Wiper Application (Rutabagas Only), Spot Treatment or Preharvest (Dry Beans, Peas, Lentils, and Chickpeas only).

**GENERAL USE INSTRUCTIONS:** Refer to the section of this label entitled “1.0 ANNUAL AND PERENNIAL CROPS” for additional use directions, precautions, and restrictions.

**PRECAUTIONS, RESTRICTIONS:** When applying this product prior to transplanting or direct seeding crops into plastic mulch, care must be taken to remove residues of this product from the plastic prior to transplanting. Residues can be removed by a single 0.5-inch application of water either by natural rainfall or via a sprinkler system. Care must be taken to ensure that the washwater flushes off the plastic mulch and does not enter transplant holes. Applications made at emergence will result in injury or death to emerged seedlings.

Avoid contact of herbicide with foliage, green shoots or stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops because severe crop injury or destruction may result. When making preemergence and at-planting applications, applications must be made before crop emergence to avoid severe crop injury. Apply before seed germination in coarse sandy soils to further minimize the risk of crop injury. In crops with vines, hooded sprayer, shielded sprayer, and wiper applications to row middles must be made prior to vine development; otherwise, severe injury or destruction may result. Unless otherwise specified in this product’s labeling, treatments with selective equipment including wipers and hooded sprayers must be made at least 14 days prior to harvest. Post-harvest or fallow applications must be made at least 30 days prior to planting any non-labeled crop. See “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label for additional information.

### 2.1 Brassica Vegetables

**LABELLED CROPS:** Broccoli; Broccoli, Chinese (gai lon); Broccoli raab (rapini); Brussels sprouts; Cabbage; Cabbage, Chinese (bok choy and napa); Cabbage, Chinese mustard (gai choy); Cauliflower; Cavalo broccolo; Collards; Kale; Kohlrabi; Mizuna; Mustard greens; Mustard spinach; Rape greens.

### 2.2 Bulb Vegetables

**LABELLED CROPS:** Garlic; Garlic, Great-headed; Leek; Onion, dry bulb and green; Onion, Welsh; Shallot

### 2.3 Cucurbit Vegetables and Fruits

**LABELLED CROPS:** Chayote (fruit), Chinese waxgourd, citron melon, Cucumber, Gherkin, Gourds (including edible), Melons (all), cantaloupe, casaba, crenshaw melon, honeydew melon, honey ball melon, mango melon, muskmelon, Okra, Persian melon, Pumpkin, Summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash), Watermelon.

### 2.4 Leafy Vegetables

**LABELLED CROPS:** Amaranth, Arugula (rocket), Beet greens, Cardoon, Celery, Chinese celery, Celtuce, Chaya, Chervil, Chrysanthemum (edible leaved, Garland), Corn salad, Cress, Dandelion, Dock (sorrel), Dokudami, Endive, Florence fennel, Gow kee, Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radicchio (red chicory), Rhubarb, Spinach (all), Swiss chard, Watercress (upland), Water spinach.

For watercress, avoid application within 3 days prior to seeding and during the period between seeding and emergence to minimize the risk of injury.

### 2.5 Fruiting Vegetables

**LABELLED CROPS:** Eggplant, Groundcherry (*Physalis* spp.), Pepino, Pepper (all), Tomatillo, Tomato.

For tomato, hooded or shielded sprayer applications in row middles are not suggested.

### 2.6 Legume Vegetables (Succulent or Dried)

**LABELLED CROPS:** Beans (all: *Lupinus*: includes grain lupin, sweet lupin, white lupin, and white sweet lupin), Bean (*Phaseolus*: includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean), Bean (*Vigna*: includes adzuki bean, asparagus bean, blackeye pea, catjang, Chinese longbean, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean), Broad bean (fava), Chickpea (garbanzo), Guar, Jackbean, Lablab bean, Lentil, Peas (all: *Pisum*: includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea), Pigeon pea, Soybean (immature seed), Sword bean.

### Preharvest Broadcast Spray (Dry Beans, Dry Peas, Lentils, and Chickpeas only)

This product may be applied as an over-the-top broadcast spray to control labeled weeds prior to harvest. For dry beans, apply up to 32 fluid ounces in 3 to 20 gallons of water per acre at the hard dough stage of the legume seed (30 percent grain moisture or less). Apply up to 64 fluid ounces in 3 to 20 gallons of water per acre for dry peas, lentils, and chickpeas at the hard dough stage of the legume seed (30 percent grain moisture or less). Either ground broadcast or aerial applications may be made. Apply at least 7 days before harvest for dry beans, dry peas, lentils, and chickpeas. Only one



application per year may be made; do not combine a preharvest spray with a spot treatment on the same crop area. A reduction in germination or vigor may occur if preharvest application is applied in dry beans, dry peas, lentils, and chickpeas grown for seed.

**RESTRICTIONS:** Follow the rate limitations listed above. Only one application per year may be made; do not combine a preharvest spray with a spot treatment on the same crop area. Do not feed treated vines and hay from these crops to livestock. Do not treat field (feed) peas, since these are considered to be grown as livestock feed.

#### **Spot Treatment (Dry Beans, Dry Peas, Lentils, and Chickpeas only)**

To control troublesome weeds such as Canada thistle, quackgrass, mayweed (dog fennel), and milkweed, apply up to 26 fluid ounces in 10 to 20 gallons of water per acre through ground spray equipment or use a 2-percent solution in a hand-held sprayer. Applications should be made at or beyond the bud stage of growth. The crop receiving spray in treated areas will be killed. Apply at least 14 days before harvest. A reduction in germination or vigor may occur if preharvest application is applied in dry beans, dry peas, lentils, and chickpeas grown for seed.

**RESTRICTIONS:** Follow the rate limitations listed above. Only one application per year may be made; do not combine a preharvest spray with a spot treatment on the same crop area. Do not feed treated vines and hay from these crops to livestock. Do not treat field cowpeas, since these are considered to be grown as livestock feed.

#### **2.7 Root and Tuber Vegetables**

**LABELLED CROPS:** Arracacha, Arrowroot, Chinese artichoke, Jerusalem artichoke, Beet (garden), Burdock, Canna, Carrot, Cassava (bitter and sweet), Celeriac, Chayote (root), Chervil (turnip-rooted), Chicory, Chufa, Dasheen (taro), Galangal, Ginger, Ginseng, Horseradish, Leren, Kava (turnip-rooted), Parsley (turnip rooted), Parsnip, Potato, Radish, Oriental radish, Rutabaga, Salsify, Black salsify, Spanish salsify, Skirret, Sweet potato, Tanier, Turmeric, Turnip, Wasabi, Yacon, Yam, Yam bean, True yam.

#### **Directed Applications (Non-bearing Ginseng Only)**

**USE INSTRUCTIONS:** This product may be used for general weed control in established non-bearing ginseng. Direct applications so that there is no contact of this product with the ginseng plant. Applications may be made with boom equipment, CDA, shielded sprayers, hand-held and high-volume wands, lances, and orchard guns, or with wiper application equipment.

**PRECAUTIONS, RESTRICTIONS:** Allow one year to elapse between application and harvest. Extreme care must be exercised to avoid contact of herbicide solution, spray, drift, or mist with foliage or green bark of trunk, branches, suckers, fruit, or other parts of desirable plants. Contact of this product with other than matured brown bark can result in serious crop damage.

#### **Over-the-top Wiper Applications (Rutabagas Only)**

**USE INSTRUCTIONS:** Wiper applications may be used over the top of rutabagas.

**PRECAUTIONS, RESTRICTIONS:** Allow at least 14 days between application and harvest of rutabagas.

#### **2.8 Asparagus**

**TYPES OF APPLICATIONS:** Preplant, Preemergence, Spot Treatment, Postharvest.

##### **Preplant and Preemergence**

**USE INSTRUCTIONS:** This product may be applied prior to emergence of asparagus.

**PRECAUTIONS, RESTRICTIONS:** Do not apply within a week before the first spears emerge.

##### **Spot treatment**

**USE INSTRUCTIONS:** This product may be applied immediately after cutting but prior to the emergence of new spears.

**PRECAUTIONS, RESTRICTIONS:** Do not treat more than 10 percent of the total field area to be harvested. Do not harvest within 5 days of treatment.

##### **Postharvest**

**USE INSTRUCTIONS:** This product may be applied after the last harvest and all spears have been removed. If spears are allowed to regrow, delay application until ferns have developed. Delayed treatments should be applied as a directed or shielded spray in order to avoid contact of the spray with ferns, stems or spears.

**PRECAUTIONS, RESTRICTIONS:** Direct contact of the spray with the asparagus may result in serious crop injury. Select and use recommended types of spray equipment for postemergence postharvest applications. A directed spray is any application where the spray pattern is aligned in such a way as to avoid direct contact of the spray with the crop. A shielded spray is any application where a physical barrier is positioned and maintained between the spray and the crop to prevent contact of spray with the crop.

#### **2.9 Peanuts.**

**TYPES OF APPLICATIONS:** Preplant, Preemergence, At-Planting.

**USE INSTRUCTIONS:** This product may be applied before, during or after planting peanuts. Applications must be made prior to the emergence of the crop.

#### **2.10 Sunflowers.**

**TYPES OF APPLICATIONS:** Preplant, Preemergence.

**USE INSTRUCTIONS:** This product may be applied before, during or after planting sunflowers. Applications must be made prior to emergence of the crop.

PRECAUTIONS, RESTRICTIONS: Do not apply more than 1 quart of this product per acre for sunflowers. Make only one preplant or preemergent application per year. Do not feed or graze sunflower forage following application of this product.

### 3.0 TREE, NUT, AND VINE CROPS

**NOTE:** THIS SECTION GIVES GENERAL DIRECTIONS THAT APPLY TO ALL LISTED TREE, NUT, AND VINE CROPS WITHIN THIS SECTION. SEE THE INDIVIDUAL CROP CATEGORIES FOR SPECIFIC INSTRUCTIONS, PREHARVEST INTERVALS, PRECAUTIONS, AND RESTRICTIONS.

**TYPES OF APPLICATIONS:** General Weed Control, Middles (Between Rows), Strips (Within Rows), Selective Equipment (Shielded Sprayers, Wiper Applications), Perennial Grass Suppression, Cut Stumps (Tree Crops).

**GENERAL USE INSTRUCTIONS:** Applications may be made with boom equipment, CDA equipment, shielded sprayers, hand-held and high-volume wands, lances, orchard guns, or with wiper applicator equipment except as specified.

This product may be applied in middles, strips, and for general weed control in established tree fruit and nut groves, orchards, berries, and vineyards. It may also be used for site preparation prior to transplanting these crops. Allow a minimum of 3 days between application and transplanting. Apply 1 pint to 5 quarts per acre according to the "ANNUAL WEEDS RATE TABLE" and "PERENNIAL WEEDS RATE TABLE" sections of this label. Repeat applications may be made up to a maximum of 10.6 quarts per acre per year.

#### Middles (Between Rows)

**USE INSTRUCTIONS:** This product will control or suppress annual and perennial weeds and ground covers growing between the rows of labeled tree fruits, tree nuts, and vine crops. If weeds are under drought stress, irrigate prior to application. Reduced control may result if weeds have been mowed prior to application.

**TANK MIXTURES:** A tank mixture of this product plus Goal 2XL/Galigan 2E may be used for annual weeds in middles between rows of citrus crops, tree fruits, tree nuts, and vine crops. Use this mixture when weeds are stressed or growing in dense populations. 16 to 32 fluid ounces per acre of this product plus 3 to 12 fluid ounces per acre of Goal 2XL/Galigan 2E will control annual weeds with a maximum height or diameter of 6 inches including crabgrass, hairy fleabane (*Conyza bonariensis*), common groundsel, junglerice, common lambsquarters, redroot pigweed, London rocket, common ryegrass, shepherdspurse, annual sowthistle, common cheeseweed (malva), filaree (suppression), horseweed/marestail (*Conyza canadensis*), stinging nettle, and common purslane (suppression). 12 to 32 oz/A of this product plus 3 to 12 fluid ounces per acre of Goal 2XL/Galigan 2E will control common cheeseweed (malva) with a maximum height or diameter of 3 inches.

#### Strips (Within Rows)

**TANK MIXTURES:** This product may be applied in rows of tree, nut, or vine crops in tank mixtures with the following products:

Devrinol® 50 DF
Direx® 4L/Diuron 4L
Goal® 2XL/Galigan® 2E
Karmex® DF
Krovar® I/Krovar II
Prowl®
Princep® Caliber 90
Simazine 4L/Simazine 80W
Sim-Trol® 4L
Solicam® DF
Surflan® AS/Surflan 75W

Note: Always be sure that the tank mix product is registered for the intended use and is registered in your state. Do not apply these tank mixtures in Puerto Rico.

Refer to the individual product labels for specific crops, rates, geographic restrictions, and precautionary statements. Apply 1 pint to 5 quarts of this product per acre in these tank mixtures. Use rates at the higher end of the specified rate range when weeds are stressed, growing in dense populations, or are greater than 12 inches tall.

#### Selective Equipment (Shielded Sprayers, Wiper Applications)

Shielded and wiper applicators may be used in tree crops and grapes. Refer to the individual crop section for time interval between application and harvest.

**GENERAL PRECAUTIONS, RESTRICTIONS:** For all uses in this section, extreme care must be exercised to avoid contact of herbicide solution, spray, drift, or mist with foliage or green bark of trunk, branches, suckers, fruit or other parts of trees, canes, and vines. Contact of this product with other than matured brown bark can result in serious crop damage or destruction. Avoid painting cut sumps with this product as injury resulting from root grafting may occur in adjacent trees.

#### Perennial Grass Suppression

This product will suppress perennial grasses such as bahiagrass, bermudagrass, tall fescue, orchardgrass, Kentucky bluegrass, and quackgrass that are grown as ground covers in tree and vine crops.

For suppression of tall fescue, fine fescue, orchardgrass, and quackgrass, apply 8 fluid ounces of this product in 10 to 20 gallons of water per acre.

For suppression of Kentucky bluegrass covers, apply 6 fluid ounces of this product per acre. Do not add ammonium sulfate.

For best results, mow cool-season grass covers in the spring to even their height and apply this product 3 to 4 days after mowing.

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days, apply 6 fluid ounces of this product in 10 to 25 gallons of water per acre. Apply 1 to 2 weeks after full greenup or after mowing to a uniform height of 3 to 4 inches. This application must be made prior to seedhead emergence.

For suppression up to 120 days, apply 4 fluid ounces of this product per acre followed by an application of 2 to 4 fluid ounces per acre about 45 days later. Make no more than 2 applications per year.

For burndown of bermudagrass, apply 1 to 2 quarts of this product in 3 to 20 gallons of water per acre. Use this treatment only if reduction of the bermudagrass stand can be tolerated. When burndown is required prior to harvest, allow at least 21 days to elapse to ensure sufficient time for burndown to occur.

For suppression of bermudagrass, apply 6 to 16 fluid ounces of this product per acre east of the Rocky Mountains and 16 fluid ounces of this product per acre west of the Rocky Mountains. Apply in a total spray volume of 3 to 20 gallons per acre no sooner than 1 to 2 weeks after full greenup. If the bermudagrass is mowed prior to application, maintain a minimum of 3 inches in height. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated. East of the Rocky Mountains, use rates of 6 to 10 fluid ounces of this product per acre in shaded conditions or where a lesser degree of suppression is desired.

### **Cut Stumps (Tree Crops)**

Cut stump applications of this product may be made during site preparation or site renovation prior to transplanting tree crops. This product will control regrowth of cut stumps and resprouts of many types of tree species, some of which are listed below.

**Citrus Trees:** Calamondin, Chironja, Citron, Citrus hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (Tangerine), Orange (all), Pummelo, Tangelo (Ugli), Tangor.

**Fruit Trees:** Apple, Apricot, Cherry (sweet, sour), Crabapple, Loquat, Mayhaw, Nectarine, Olive, Peach, Pear, Plum/Prune (all), Quince.

**Nut Trees:** Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory Nut, Macadamia, Pecan, Pistachio, Walnut (black, English).

Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut trees or resprouts close to the soil surface. Apply a 50- to 100-percent solution of this product to the freshly cut surface immediately after cutting. Delays in application may result in reduced performance. For best results, applications must be made during periods of active growth and full leaf expansion.

**RESTRICTIONS: DO NOT MAKE CUT STUMP APPLICATIONS WHEN THE ROOTS OF ADJACENT DESIRABLE TREES MAY BE GRAFTED TO THE ROOTS OF THE CUT STUMP. INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR IN ADJACENT TREES.** Some sprouts, stems, or trees may share the same root system. Adjacent trees having a similar age, height, and spacing may signal shared roots. Whether grafted or shared, injury is likely to occur to non-treated stems/trees when one or more trees sharing common roots are treated.

### **3.1 Berry Crops**

**LABELLED CROPS:** Blackberry (including bingleberry, black satin berry, boysenberry, Cherokee blackberry, chesterberry, Cheyenne blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, Himalayaberry, hullberry, juneberry, lavacaberry, lowberry, lucetia berry, marionberry, nectarberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, and youngberry), Blueberry, Cranberry, Currant, Elderberry, Gooseberry, Huckleberry, Loganberry, Raspberry (black, red), Salal

**TYPES OF APPLICATIONS:** Preplant, Preemergence, Directed Spray (Except Cranberry), Wiper Application.

**USE INSTRUCTIONS:** This product may be applied as a preplant or preemergence broadcast application or as a wiper application for crops listed in this section. Directed sprays may be applied to any crop except cranberries. For wick or wiper applications, mix 1 gallon of this product in 4 gallons of water to prepare a 20-percent solution. In severe infestations, reduce equipment ground speed to ensure that adequate amounts of this product are wiped on the weeds. A second treatment in the opposite direction may be beneficial.

**PRECAUTIONS, RESTRICTIONS:** To avoid damage, herbicide sprays must not be allowed to contact desirable vegetation including green shoots, canes, or foliage. Allow a minimum of 30 days between last application and harvest in cranberries. Allow a minimum of 14 days between last application and harvest in other berry crops.

### **3.2 Citrus Crops**

**LABELLED CROPS:** Calamondin, Chironja, Citron, Citrus Hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (all), Pummelo, Tangelo (ugli), Tangor.

**TYPES OF APPLICATIONS:** General Weed Control, Middles (Between Rows of Trees), Strips (Within Rows of Trees), Selective Equipment (Shielded Sprayers, Wiper Applications).

**USE INSTRUCTIONS:** For general use directions, see the "TREE, NUT AND VINE CROPS; GENERAL USE INSTRUCTIONS" section of this label. The directions below pertain to applications in Florida and Texas.

**FLORIDA AND TEXAS ONLY:** For burndown or control of the weeds listed below, apply the specified rates of this product in 3 to 40 gallons of water per acre. Where weed foliage is dense, use 10 to 30 gallons of water per acre. For citron, apply as a directed spray only.

For goatweed, apply 2 to 3 quarts of this product per acre. Apply in 20 to 30 gallons of water per acre when plants are actively growing. Use 2 quarts per acre when plants are less than 8 inches tall and 3 quarts per acre when plants are greater than 8 inches tall. If goatweed is greater than 8 inches tall, the addition of Krovar® II or Karmex®/diuron may improve control. Refer to the individual product labels for specific crops, rates, geographic restrictions, and precautionary statements.

**Perennial weeds:**

<b>WEED SPECIES</b>	<b>QUALI-PRO GLYPHOSATE PLUS RATE PER ACRE</b>			
	<b>1 Qt</b>	<b>2 Qt</b>	<b>3 Qt</b>	<b>5 Qt</b>
Bermudagrass	B	--	PC	C
Guineagrass				
Texas and Florida Ridge	B	C	C	C
Florida Flatwoods	--	B	C	C
Paragrass	B	C	C	C
Torpedograss	S	--	PC	C

S = Suppression

B = Burndown

PC = Partial control

C = Control

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 1 day between last application and harvest in citrus crops.

**3.3 Pome Fruit, Stone Fruit, and Olives**

**LABELED CROPS:** Apple, Crabapple, Loquat, Mayhaw, Pear, Quince, Apricot, Cherry (sweet, tart), Nectarine, Olive, Peach, Plum/Prune (all types), Plumcot.

**TYPES OF APPLICATIONS:** General Weed Control, Middles (Between Rows of Trees), Strips (In Row of Trees), Selective Equipment.

**USE DIRECTIONS:** FOR GENERAL USE DIRECTIONS, SEE THE "TREE, NUTS AND VINE CROPS; GENERAL USE INSTRUCTIONS" section. The following directions are specific to tree fruits.

**EQUIPMENT RESTRICTIONS:** For cherries, any application equipment listed in this section may be used in all states. For olives, apply as a post-directed spray only. Any application equipment listed in this section may be used in apricots, nectarines, peaches and plums/prunes growing in Arizona, California, Colorado, Idaho, Kansas, Kentucky, New Jersey, North Dakota, Oklahoma, Oregon, Texas, Utah, and Washington, except for peaches grown in the states specified in the following paragraph. In all other states, use wiper equipment only.

For peaches grown in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, and Tennessee only, apply with a shielded boom sprayer or shielded wiper applicator which prevents any contact of this product with the foliage or bark of trees. Apply no later than 90 days after first bloom. Applications made after this time may result in severe damage. Remove suckers and low-hanging limbs at least 10 days prior to application. Avoid applications near trees with recent pruning wounds or other mechanical injury. Apply only near trees that have been planted in the orchard for 2 or more years. **EXTREME CARE MUST BE TAKEN TO ENSURE THAT NO PART OF THE PEACH TREE IS CONTACTED.**

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 1 day between last application and harvest for pome fruits (apple, crabapple, loquat, mayhaw, pear, and quince). Allow a minimum of 17 days between last application and harvest in stone fruit crops (apricot, cherry (sweet, tart), nectarine, olive, peach, plum/prune, plumcot). For olive groves, apply as directed sprays only.

**3.4 Tree Nuts**

**LABELED CROPS:** Almond, Beechnut, Betelnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Coconut, Filbert (hazelnut), Hickory nut, Macadamia, Pecan, Pine nut, Pistachio, Walnut (black, English).

**TYPES OF APPLICATIONS:** General Weed Control, Middles (Between Rows of Trees), Strips (In Row of Trees), Selective Equipment.

**USE DIRECTIONS:** FOR GENERAL USE DIRECTIONS, SEE THE "TREE, NUT AND VINE CROPS; GENERAL USE INSTRUCTIONS" section of this label. The following directions are specific to tree nuts.

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 3 days between last application and harvest of tree nuts, except coconut. Allow 14 days between application and harvest of coconuts.

**3.5 Tropical and Subtropical Trees and Fruits**

**LABELED CROPS:** Ambarella, Atemoya, Avocado, Banana, Barbados cherry acerola), Biriba, Blimbe, Breadfruit, Cacao (cocoa) bean, Canistel, Carambola (starfruit), Cherimoya, Coffee, Custard apple, Dates, Durian, Feijoa, Figs, Governor's plum, Guava, Illama, Imbe, Imbu, Jaboticaba, Jackfruit, Longan, Lychee, Mamey apple, Mango, Mangosteen, Marmaladebox (genip), Mountain papaya, Papaya, Pawpaw, Plantain, Persimmon, Pomegranate, Pulasan, Rambutan, Rose apple, Sapodilla, Sapote (black, mamey, white), Spanish lime, Soursoy, Star apple, Sugar apple, Surinam cherry, Tamarind, Tea, Ti (roots and leaves), Wax jambu.

**TYPES OF APPLICATIONS:** General Weed Control, Middles (Between Rows of Trees), Strips (In Row of Trees), Selective Equipment Plus Bananacide (Banana Only).

**USE DIRECTIONS:** This product may be applied for general weed control or for site preparation prior to transplanting crops listed in this section.

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 1 day between the last application and harvest in banana, coffee, guava, papaya, and plantain crops. Allow a minimum of 14 days between last application and harvest for any other tropical or subtropical tree fruit crop listed above. In coffee and banana, delay applications 3 months after transplanting to allow the new coffee or banana plant to become established. Do not feed or graze treated pineapple forage following application.

#### **Bananacide (Bananas Only)**

**USE INSTRUCTIONS:** This product may be used to destroy banana plants infected with the Banana Bunchy Top Virus, as well as non-infected banana plants in order to establish disease-free buffers around plantations. Remove all fruit from the plants within the treatment area prior to treatment. Inject 1/25 fluid ounce (1 mL) of this product's concentrate per 2 to 3 inches of pseudostem diameter. Make the injection at least one foot above the ground, except for very small plants, which must be injected vertically into the top. Any subsequent regrowth must also be destroyed. All plants and mats (or units) within a 4-foot radius around a treated mat must be mechanically destroyed.

For control of the Banana Bunchy Top Virus, it is critical that the grower follow a strict control program involving monitoring for diseased plants, spraying to control the aphid vector, and destruction of all infected mats (or units). An infected plant may not show symptoms of the disease for up to 125 days; therefore, it is critical that the entire mat (or unit) containing the diseased plant be destroyed immediately.

**RESTRICTIONS:** Do not apply more than 1/2 fluid ounce (15 mL) of this product per mat (or unit). Remove all fruit from plants and mats (or units) prior to treatment. Do not harvest any fruit or plant materials from treated mats (or units) following injection. Do not allow livestock to consume treated plant materials. Following transplant of new banana plants into treated areas, allow plants to become established for 3 months before applying this product for weed control.

#### **3.6 Vine Crops**

**LABELED CROPS:** Grapes (raisin, table, wine), Hops, Kiwi, Passion fruit.

**TYPES OF APPLICATIONS:** General Weed Control, Middles (Between Rows), Strips (In Row), Selective Equipment.

**USE DIRECTIONS:** FOR GENERAL USE DIRECTIONS, SEE THE "TREE, NUT AND VINE; GENERAL USE DIRECTIONS" section of this label. The following directions are specific to vine crops. Applications should not be made when green shoots, canes, or foliage are in the spray zone. In the northeast and Great Lakes regions, applications must be made prior to the end of bloom stage of grapes to avoid injury or make applications with shielded sprayers or wiper equipment.

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 14 days between last application and harvest. Do not use selective equipment in kiwi.

### **4.0 PASTURE GRASSES, FORAGE LEGUMES, AND RANGELANDS**

#### **4.1 Alfalfa, Clover, and Other Forage Legumes**

**LABELED CROPS:** Alfalfa, Clover, Kenaf, Kudzu, Lespedeza, Lupin, Leucaena, Sainfoin, Trefoil, Velvet bean, Vetch (all types).

**TYPES OF APPLICATIONS:** Dormant (Alfalfa Only), Preplant, Preemergence, At-Planting, Spot Treatment (Alfalfa and Clover Only), Wiper Applicators (Alfalfa and Clover Only), Renovation, Preharvest (Alfalfa Only).

##### **Dormant (Alfalfa Only)**

**USE INSTRUCTIONS:** This product will control or suppress many weeds including quackgrass, downy brome, and cheatgrass in dormant alfalfa. Apply 8 to 12 ounces per acre of this product. Apply in the spring to alfalfa that is dormant. Applications should be made after spring temperatures have warmed enough to encourage resumption of weed growth but prior to initiation of trifoliate leaf expansion of the alfalfa. Applications made after expansion of the first trifoliate leaf of the alfalfa will cause growth reduction and reduced crop yield.

**PRECAUTIONS, RESTRICTIONS:** Do not use ammonium sulfate when spraying dormant alfalfa with this product. Do not use this product where a slight yield reduction in the first cutting of alfalfa cannot be tolerated. Do not make more than one application per year. Allow 36 hours after application before grazing livestock or harvesting. Slight discoloration of the alfalfa may occur, but the alfalfa will regreen and regrow under moist soil conditions as effects of this product wear off. Application of this product can cause crop injury. Any crop injury is the sole responsibility of the applicator.

##### **Preplant, Preemergence, and At-Planting**

**USE INSTRUCTIONS:** This product may be applied before, during, or after planting labeled crops. Applications must be made prior to emergence of the crop. Make applications according to the rates listed in "ANNUAL WEEDS," "PERENNIAL WEEDS," and "WOODY BRUSH AND TREES" rate tables in this label. If a single application is made at rates of 2 quarts per acre or less, no waiting period between treatment and feeding or grazing is required. If application rates greater than 2 quarts per acre are made, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

##### **Preharvest (Alfalfa Only)**

**USE INSTRUCTIONS:** This product may be used in declining alfalfa stands or any stand of alfalfa where crop destruction is acceptable. This application will severely injure or destroy the stand of alfalfa. This product will control annual and perennial weeds including quackgrass when applied prior to the harvest of alfalfa. The treated crop and weeds can be harvested and fed to livestock after 36 hours. Allow a minimum of 36 hours between application and harvest. Use up to 1 quart of this product per acre. Applications may be made at any time of the year. Make only one application to an existing stand of alfalfa per year. For control of quackgrass, apply in the spring, late summer, or fall when quackgrass is actively growing. Treatments for quackgrass must be followed by deep tillage for complete control.

**PRECAUTIONS, RESTRICTIONS:** Do not apply more than 2 quarts of this product per acre as a preharvest treatment. Do not use for alfalfa grown for seed, as a reduction in germination or vigor may occur.

#### **Spot Treatment and Wiper Applications (Alfalfa and Clover Only)**

**USE INSTRUCTIONS:** This product may be applied as a spot treatment in alfalfa or clover. This product may be applied with wiper applicators to control or suppress the weeds listed under "WIPER AND SPONGE BARS" in the "SELECTIVE EQUIPMENT" section of this label. Applications may be made in the same area at 30-day intervals.

**PRECAUTIONS, RESTRICTIONS:** For spot treatment and wiper applications, apply in areas where the movement of domestic livestock can be controlled. No more than 10 percent of the total field area should be treated at one time. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

#### **Renovation**

**USE INSTRUCTIONS:** This product may be applied as a broadcast spray to renovate existing stands of alfalfa, clover, and other labeled forage legumes. Labeled crops may be planted into the treated area. Make applications according to the rates listed in "ANNUAL WEEDS," "PERENNIAL WEEDS," and "WOODY BRUSH AND TREES" rate tables in this label.

**PRECAUTIONS, RESTRICTIONS:** Remove domestic livestock before application.

If application rates of 2 quarts per acre or less are used, wait 36 hours after application before grazing or harvesting. If application rates greater than 2 quarts per acre are used, wait 8 weeks after application before grazing or harvesting.

#### **4.2 Conservation Reserve Program (CRP)**

**TYPES OF APPLICATIONS:** Renovation (Rotating out of CRP), Site Preparation, Postemergence Weed Control In Dormant CRP Grasses, Over-the-Top Wiper Applications.

##### **Renovation (Rotating Out of CRP), Site Preparation**

**USE INSTRUCTIONS:** This product may be used to prepare CRP land for crop production. Refer to Federal, state, or local use guides for CRP renovation recommendations. Make applications according to the rates listed in "ANNUAL WEEDS," "PERENNIAL WEEDS," and "WOODY BRUSH AND TREES" rate tables in this label. For any crop not listed in the "CROPS" sections of this label, applications must be at least 30 days to planting.

##### **Postemergence Weed Control in Dormant CRP Grasses, Over-the-Top Wiper Applications**

**USE INSTRUCTIONS:** This product may be used to suppress competitive growth and seed production of undesirable vegetation in CRP acres. Such applications may be made with wiper application equipment or as a broadcast or spot treatment to dormant CRP grasses. For selective applications with broadcast spray equipment, apply 12 to 16 fluid ounces of this product per acre in early spring before desirable CRP grasses such as crested and tall wheatgrass break dormancy and initiate green growth. Late fall applications can be made after desirable perennial grasses have reached dormancy.

**PRECAUTIONS, RESTRICTIONS:** Some stunting of CRP perennial grasses will occur if broadcast applications are made when plants are not dormant. Do not apply more than 3 quarts per acre per year onto CRP grasses.

#### **4.3 Grass or Turfgrass Seed Production**

**LABELED CROPS:** Any grass (*Gramineae* family) except corn, sorghum, sugarcane, and those listed above under "Cereal and Grain Crops".

**TYPES OF APPLICATIONS:** Preplant, Preemergence, Renovation, Site Preparation, Shielded Sprayers, Over-the-Top Wiper Applications, Spot Treatments, Creating Rows in Annual Ryegrass.

##### **Preplant, Preemergence, Renovation, and Site Preparation**

**USE INSTRUCTIONS:** This product may be applied before, during, or after planting or for renovation of turf or forage grass areas grown for seed production. Make applications according to the rates listed in "ANNUAL WEEDS," "PERENNIAL WEEDS," and "WOODY BRUSH AND TREES" rate tables in this label. Applications must be made before emergence of the crop to avoid injury.

For maximum control of existing vegetation, delay planting 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 best control.

**PRECAUTIONS, RESTRICTIONS:** 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 proper translocation into underground plant parts. If application rates total 3 quarts per acre or less, no waiting period between treatment and feeding or livestock grazing is required. If the rate is greater than 3 quarts per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting. For any crop not listed for treatment in this label, applications must be made at least 30 days prior to planting.

##### **Shielded Sprayers**

**USE INSTRUCTIONS:** Apply 1 to 3 quarts of this product as a broadcast spray in 10 to 20 gallons of total spray volume per acre to control weeds in the rows. Uniform planting in straight rows aids in shielded sprayer applications. Best results are obtained when the grass seed crop is small enough to easily pass by or through the protective shields.

**PRECAUTIONS, RESTRICTIONS:** Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the applicator.

### Over-the-Top Wiper Applications

This product may be applied over the top of desirable grasses using wiper applicators for the control of tall weeds. See additional instructions on the use of wiper applicators in the "APPLICATION EQUIPMENT AND TECHNIQUES" section.

**PRECAUTIONS:** Droplets, mist, foam, or splatter of the herbicide solution settling onto desirable vegetation may result in discoloration, stunting, or destruction. To the extent permitted by law, such damage shall be the sole responsibility of the applicator.

### Spot Treatments

Apply a 1- to 1.5-percent solution of this product using hand-held spray equipment to control weeds within established vegetation prior to heading of grasses grown for seed. Hand-held equipment may also be used to control sod remnants or other unwanted vegetation after sod is harvested.

**PRECAUTIONS:** Crop sprayed in treated area will be killed. Take care not to spray or allow spray to drift outside the target area to avoid unwanted crop destruction.

**RESTRICTIONS:** Apply this product prior to heading of grasses. Do not treat more than 10 percent of the total field area.

### Creating Rows in Annual Ryegrass

Apply 16 to 32 fluid ounces of this product per acre. Best results are obtained when applications are made before ryegrass reaches 6 inches in height. Use the higher rate when the ryegrass is greater than 6 inches in height. Set nozzle heights to allow the establishment of the desired row spacing. Use low-pressure nozzles or drop nozzles designed to target the application over a narrow band.

**PRECAUTIONS:** Take care not to spray or allow droplets, spray fines, or drift to settle outside the treatment area to avoid unwanted crop destruction. Grower assumes all responsibility for crop losses from misapplication of this product.

### 4.4 Pastures

**LABELED CROPS:** Any grass (*Gramineae* family) except corn, sorghum, sugarcane, and those listed above under "Cereal and Grain Crops" including Bahiagrass, Bermudagrass, Bluegrass, Bromegrass, Fescue, Guinea grass, Kikuyugrass, Orchardgrass, Pangola grass, Ryegrass, Timothy, Wheatgrass, Alfalfa, Clover.

**TYPES OF APPLICATIONS:** Spot Treatment, Over-the-Top Wiper Application, Preplant, Preemergence, Pasture Renovation, Stand Removal

#### Spot Treatment and Over-the-Top Wiper Application

**USE INSTRUCTIONS:** This product may be applied as a spot treatment or with wiper applicators in pastures. Applications may be made in the same area at 30-day intervals.

**PRECAUTIONS, RESTRICTIONS:** For spot treatment and wiper applications using rates of 3 quarts per acre or less, the entire field or any portion of it may be treated. When spot treatment or wiper applications are made using rates above 3 quarts per acre, no more than 10 percent of the total pasture area should be treated at any one time. Remove domestic livestock before application and wait 7 days after application before grazing livestock or harvesting.

#### Preplant, Preemergence, Pasture Renovation, Stand Removal

**USE INSTRUCTIONS:** This product may be applied prior to planting or emergence of forage grasses and legumes. In addition, this product may be used to control perennial pasture species listed on this label prior to re-planting. Make applications according to the rates listed in "ANNUAL WEEDS," "PERENNIAL WEEDS," and "WOODY BRUSH AND TREES" rate tables in this label.

**PRECAUTIONS, RESTRICTIONS:** If application rates total 3 quarts per acre or less, no waiting period between treatment and feeding or livestock grazing is required. If the rate is greater than 3 quarts per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

**Colorado, Idaho, Iowa, Kansas, Montana, Nebraska, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming Only:** Bromus Species: This product may be used to treat downy brome (*Bromus tectorum*), Japanese brome (*Bromus Japonicus*), soft chess (*Bromus mollis*), and cheatgrass (*Bromus secalinus*) found in industrial, rangeland, and pasture sites. Apply 8 to 16 fluid ounces of product per acre on a broadcast basis. Treatment should coincide with early seedhead emergence of the most mature plants. Delaying application until this growth stage will maximize the emergence of other weedy grass flushes. Applications should be made to the same site each year until seed banks are depleted and the desirable perennial grasses are able to become reestablished on the site.

For medusahead, apply 16 fluid ounces of this product per acre as soon as plants are actively growing and prior to the 4-leaf stage. Applications may be made using ground or aerial application equipment. Aerial applications for these uses may be made using fixed-wing or helicopter equipment. For aerial applications, apply in 2 to 10 gallons of water per acre. For applications using ground equipment, apply in 10 to 20 gallons of water per acre. When applied as directed, there are no grazing restrictions.

### 4.5 Rangelands

**TYPES OF APPLICATIONS:** Postemergence.

This product will control or suppress many annual weeds growing in perennial cool- and warm-season grass rangelands.

Preventing viable seed production is key to the successful control and invasion of annual grassy weeds in rangelands. Follow-up applications in sequential years should eliminate most of the viable seeds.

Grazing of treated areas must be delayed to encourage growth of desirable perennials. Allowing desirable perennials to flower and reseed in the treated area will encourage successful transition.

Apply 12 to 16 fluid ounces of this product per acre to control or suppress many weeds including downy brome, cheatgrass, cereal rye, and jointed goatgrass in rangelands. Apply when most mature brome plants are in early flower and before the plants, including seedheads, turn color. Allowing for secondary weed flushes to occur in the spring following rain events further depletes the seed reserve and encourages perennial grass conversion on weedy sites. Make fall applications where spring moisture is usually limited; fall germination allows for good weed growth.

For medusahead, apply 16 fluid ounces of this product per acre at the 3-leaf stage. Delaying applications beyond this stage will result in reduced or unacceptable control. Fire may be useful in eliminating the thatch layer produced by slow decaying culms prior to application. Allow new growth to occur before spraying after a burn.

Repeat applications in subsequent years may be necessary to eliminate the seedbank before reestablishing desirable perennial grasses in medusahead-dominated rangelands.

PRECAUTIONS: Slight discoloration of the desirable grasses may occur, but they will regreen and regrow under moist soil conditions as effects of this product wear off.

RESTRICTIONS: Do not use ammonium sulfate when spraying rangeland grasses with this product. No waiting period between treatment and feeding or livestock grazing is required. Do not apply more than 3 quarts of this product per acre per year.

### 5.0 ROUNDUP READY® CROPS

The following instructions include all applications which can be made to the specified Roundup Ready crops during the complete cropping season. Do not combine these instructions with other directions for crop varieties that do not contain the Roundup Ready gene in the "ANNUAL AND PERENNIAL CROPS" section of this label.

USE THIS PRODUCT FOR POSTEMERGENCE APPLICATION ONLY ON CROP VARIETIES DESIGNATED AS THOSE CONTAINING THE ROUNDUP READY® GENE.

Applying this product to crop varieties that are not designated as Roundup Ready will result in severe crop injury and yield loss. Avoid contact with foliage, green stems, fruit of crops, or any desirable plants that do not contain the Roundup Ready gene, since severe injury or destruction will result.

The Roundup Ready designation indicates that the crop variety contains a patented gene that provides tolerance to this product. Information on Roundup Ready crop varieties may be obtained from your seed supplier. Roundup Ready crop varieties must be purchased from an authorized licensed seed supplier. Roundup Ready seed and the method of selectivity controlling weeds using glyphosate on a Roundup Ready crop may be protected under several US patents. Check with your seed supplier to determine if a license to use Roundup Ready seed must be obtained prior to use.

For ground applications with broadcast equipment, apply this product in 5 to 20 gallons of spray solution per acre. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment, use flat spray nozzles. Check for even distribution of spray droplets.

For aerial applications, apply this product in 3 to 15 gallons of water per acre. See the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for procedures to avoid spray drift that may cause injury to any vegetation not intended for treatment. Use of appropriate buffer zones will help prevent injury to adjacent vegetation.

**ATTENTION: AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP READY GENE.**

See the "MIXING" and "APPLICATION EQUIPMENT AND TECHNIQUES" sections of this label for additional directions and restrictions on the application of this product.

Sprayer Preparation: It is important that sprayer and mixing equipment be clean and free of pesticide residue before making applications of this product. Follow the cleaning procedures specified on the label of the product(s) previously used. **THOROUGHLY CLEAN THE SPRAY TANK AND ALL LINES AND FILTERS TO ELIMINATE POTENTIAL CONTAMINATION FROM OTHER HERBICIDES PRIOR TO MIXING AND APPLYING THIS PRODUCT.**

TANK MIXTURES: Tank mixes of this product with other herbicides, insecticides, fungicides, micronutrients, or fertilizers may result in reduced weed control or crop injury and are not recommended for over-the-top applications of this product unless otherwise noted in this label, supplemental labeling, or fact sheets issued by Control Solutions Inc. Ammonium sulfate may be mixed with this product for applications to Roundup Ready crops. Refer to the "MIXING" section for use directions when using ammonium sulfate. Some weeds with multiple germination times or suppressed (stunted) weeds may require sequential applications of this product for control. The second application should be made after some regrowth has occurred and at least 10 days after a previous application of this product. This product will control or suppress most perennial weeds.

NOTE: The following instructions are based on a clean start at planting by using a burn-down application or tillage to control existing weeds before crop emergence. In no-till and stale seedbed systems, a preplant burn-down treatment of this product is specified to control existing weeds prior to crop emergence. Some weeds such as black nightshade, broadleaf signalgrass, sicklepod, Texas panicum, sandbur, annual morningglory, woolly cupgrass, shattercane, wild proso millet, burcumber, and giant ragweed with multiple germination times or suppressed (stunted) weeds may require a second application of this product for complete control. The second application must be made after some regrowth has occurred and at least 10 days after a previous application of this product.



Rates of this product specified in the following sections or in separate supplemental labeling for this product supersede the rates specified in the "ANNUAL WEEDS RATE" and the "PERENNIAL WEEDS RATE" section of this label.

#### **5.1 Spring Canola with the Roundup Ready Gene**

Roundup Ready spring canola is defined as those Roundup Ready canola varieties that are seeded in the spring and harvested in the fall and do not enter a winter dormancy period.

**SEVERE INJURY OR DEATH WILL RESULT IF CANOLA VARIETIES WHICH DO NOT CONTAIN THE ROUNDUP READY GENE ARE SPRAYED WITH THIS PRODUCT.**

**DO NOT USE THIS PRODUCT ON SPRING CANOLA WITH THE ROUNDUP READY GENE PLANTED IN THE FOLLOWING STATES: ALABAMA, DELAWARE, FLORIDA, GEORGIA, KENTUCKY, MARYLAND, NEW JERSEY, NORTH CAROLINA, SOUTH CAROLINA, TENNESSEE, VIRGINIA, AND WEST VIRGINIA, EXCEPT FOR USES IN WILDLIFE FOOD PLOTS THAT WILL NOT BE FOR HUMAN OR LIVESTOCK FOOD.**

TYPES OF APPLICATIONS: Preplant, At Planting, Preemergence, Postemergence (In-crop)

##### **Preplant, At-planting, Preemergence**

This product may be applied before, during, or after planting up to a maximum of 2 quarts per acre per season.

##### **Postemergence (In-crop)**

Apply this product postemergence to Roundup Ready spring canola from emergence through the 6-leaf stage of development. Applications made during bolting or flowering may result in crop injury and yield loss. To maximize yield potential, make applications early to eliminate competing weeds.

**Single Application** - Apply 16 to 24 fluid ounces of this product per acre no later than the 6-leaf stage for the control of annual weeds. Avoid overlapping applications, as this may result in temporary yellowing, delayed flowering, and/or growth reduction. Similar crop injury may result when applications of more than 16 fluid ounces per acre are applied after the 4-leaf stage.

**Sequential Application** - Apply 16 fluid ounces per acre to 1- to 3-leaf canola followed by a sequential application at a minimum interval of 10 days but no later than the 6-leaf stage. Sequential applications are specified for early emerging annual weeds and perennial weeds such as Canada thistle and quackgrass or when multiple applications are needed for adequate weed control.

**RESTRICTIONS:** The total of all preplant, at-planting, and preemergence applications must not exceed 64 fluid ounce (2 quarts) per acre per season. No more than two in-crop (over-the-top) broadcast applications may be made from crop emergence through the 6-leaf stage of development and the total of all in-crop applications must not exceed 32 fluid ounces (1 quart) per acre per season. Allow a minimum of 60 days between last application and canola harvest.

#### **5.2 Fall and Winter Canola with the Roundup Ready Gene**

Roundup Ready winter canola is defined as those Roundup Ready canola varieties that are seeded in early fall and harvested the following spring or summer. Winter canola varieties are intended to enter a cold period dormancy in the winter.

TYPES OF APPLICATIONS: Preplant, At-Planting, Preemergence, Postemergence (In-crop).

##### **Preplant, At-Planting, Preemergence**

This product may be applied before, during, or after planting up to a maximum of 2 quarts per acre per season.

##### **Postemergence (In-crop)**

Apply this product to Roundup Ready winter canola varieties from emergence to canopy closure in the fall and prior to bolting in the spring. Applications made during or after bolting may result in crop injury and yield loss. To maximize yield potential, make applications early to eliminate competing weeds.

Some weeds with multiple germination times, suppressed (stunted) weeds, or weeds that have overwintered may require sequential applications of this product for control. Make the second application after some regrowth has occurred and at least 60 days after a previous application of this product.

**Single Application:** Apply 24 to 32 fluid ounces of this product per acre in the fall. Applications in the fall must be made when weeds are small and actively growing. Use the higher rate in the rate range when weed densities are high, when weeds have overwintered, or when weeds become large and well established. Applications of greater than 16 fluid ounces per acre prior to the 6-leaf stage may result in reduced crop growth in the fall. Avoid spray overlaps. Spray overlaps may result in temporary yellowing and/or growth reduction.

**Sequential Applications:** Apply 16 to 32 fluid ounces of this product per acre to 2-leaf or larger canola in the fall followed by a sequential application at the same rate and at a minimum interval of 60 days but before bolting in the spring. Sequential applications are specified for early emerging annual weeds and winter emerging weeds such as downy brome, jointed goatgrass, ryegrass, and for weeds that have overwintered. This product will control or suppress most perennial weeds. For some perennial weeds, sequential applications may be required to reduce competition with the crop.

**PRECAUTIONS AND RESTRICTIONS:** The total of all preplant, at-planting, and preemergence applications must not exceed 64 fluid ounces (2 quarts) per acre per season. No more than two over-the-top broadcast applications may be made from crop emergence up to the onset of bolting, and the total in-crop application must not exceed 64 fluid ounces (2 quarts) of this product per acre per season. Applications of greater than 24 fluid ounces per acre prior to the 6-leaf stage may result in reduced crop growth in the fall. Allow a minimum of 60 days between last application and harvest of canola grain. No waiting period is required between application and open grazing of livestock.

### 5.3 Corn with the Roundup Ready Gene

TYPES OF APPLICATIONS: Preplant, Preemergence, At-Planting, Postemergence (In-crop), Preharvest, Post-harvest

#### Preplant, Preemergence, At-planting

This product may be applied alone or in a tank mixture before, during, or after planting corn.

**TANK MIXTURES:** This product may be tank mixed with Bullet®, Degree®, Degree Xtra, Harness®, Harness Xtra, Harness Xtra 5.6L, Lariat®, Lasso®, and Micro-Tech® at 50 to 100% of the labeled rate. Ensure that the specific product used is labeled for application prior to emergence of corn. Read and follow all label directions, restrictions, and precautions for all products in the tank mixture.

**NOTE:** For maximum weed control, a postemergence (in-crop) application of this product must be applied following the use of less than labeled rates of the preemergence residual products listed above.

Make applications according to the rates listed in “ANNUAL WEEDS,” “PERENNIAL WEEDS,” and “WOODY BRUSH AND TREES” rate tables in this label.

#### **SEVERE INJURY OR DEATH WILL RESULT IF CORN VARIETIES WHICH DO NOT CONTAIN THE ROUNDUP READY GENE ARE SPRAYED WITH THIS PRODUCT.**

Avoid drift. Extreme care must be used when applying this product to prevent injury to desirable plants and crops which do not contain a glyphosate-tolerant gene.

See the “MIXING” and “APPLICATION EQUIPMENT AND TECHNIQUES” sections of this label for additional directions and restrictions on the application of this product.

#### Postemergence (In-crop)

This product may be applied alone or in tank mixtures over-the-top of corn hybrids designated as Roundup Ready corn from emergence through the V8 stage (8 leaves with collars) or until corn height reaches 30 inches (free standing), whichever comes first.

When applied as directed, this product controls annual grass and broadleaf weeds listed on this label. Many perennial grasses and broadleaf weeds will be controlled or suppressed with one or more application of this product. A postemergence application of this product at 24 to 32 ounces per acre must be made before the weeds reach a height of 4 inches or before they become competitive with the crop. If new flushes of weeds occur, a sequential application of this product at 24 to 32 fluid ounces will control the labeled grasses and broadleaf weeds.

**TANK MIXTURES:** This product may be tank mixed with the following products. Bullet®, Degree®, Degree Xtra, Harness®, Harness Xtra, Harness Xtra 5.6L, and Micro-Tech® at 50 to 100% of the labeled rate. This product may be applied in a tank mixture with Permit® and atrazine at labeled rate. Ensure that the specific product used is labeled for postemergence (in-crop) application of corn. Read and follow all label directions, restrictions, and precautions for all products in the tank mixture.

Tank Mix Partner	Maximum Height of Corn for Application
Degree Degree Xtra Harness Harness Xtra Harness Xtra 5.6L	11 inches
Bullet* Micro-Tech*	5 inches
Atrazine	12 inches

\*Bullet and Micro-Tech are not registered for use as a postemergence application in Texas.

**PRECAUTIONS AND RESTRICTIONS:** See the Roundup Ready crops section of this label for general precautionary instructions for use of this product in Roundup Ready crops. Single in-crop applications of this product must not exceed 32 fluid ounce (1 quart) per acre per growing season. Sequential in-crop applications of this product from emergence through the V-8 stage or 30 inches must not exceed 64 fluid ounces (2 quarts) per acre per growing season. Allow a minimum of 10 days between in-crop applications of this product. Allow a minimum of 50 days between application of this product and harvest of corn forage or grain.

#### Preharvest

A single preharvest application of up to 32 fluid ounces (1 quart) per acre of this product may be applied for annual and perennial weed control prior to crop harvest. Make application at 35 percent grain moisture or less. Ensure that maximum kernel fill is complete and the corn is physiologically mature (black layer formed).

**RESTRICTIONS:** Do not make a preharvest application of this product if more than a combined total of 64 fluid ounces of this product has been previously applied in over-the-top or drop nozzle applications. Allow a minimum of 7 days between a preharvest application and harvest or feeding of corn stover or grain.

#### Postharvest

Apply this product for weed control after corn harvest. Higher rates may be required for control of large weeds that were growing in the crop at the

time of harvest. Tank mixtures with 2,4-D or dicamba may be used. Ensure that the specific product being used is labeled for postharvest application to corn. Read and follow label restrictions and use directions for all products in the tank mix.

**RESTRICTIONS:** Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation and do not exceed the maximum allowable application rates in the table below.

<b>Maximum Allowable Application Rates</b>	
Combined Total Per Year for All Types of Applications	8 quarts per acre
Preplant, Preemergence, At-Planting Applications	5 quarts per acre
Total In-crop Applications from Emergence Through the V-8 Stage or 30 Inches	2 quarts per acre
Maximum Preharvest Application Rate After Maximum Kernel Fill is Complete and the Corn Is Physiologically Mature (Black Layer Formed)(7 Days Before Harvest)	1 quart per acre

#### **5.4 Cotton with the Roundup Ready Gene**

Note: Use of this product in accordance with the label directions is expected to result in normal growth of Roundup Ready cotton. However, various environmental conditions, agronomic practices, and other factors make it impossible to eliminate all risks associated with this product, even when applications are made in conformance with the label specifications. In some case, these factors can result in boll loss, delayed maturity, and/or yield loss.

**TYPES OF APPLICATIONS:** Preplant, Preemergence, At-Planting, Postemergence (Over the Top), Selective Equipment, Preharvest

#### **Preplant, At-Planting, Preemergence**

Apply this product before, during, or after planting cotton.

Make applications according to the rates listed in "ANNUAL WEEDS," "PERENNIAL WEEDS," and "WOODY BRUSH AND TREES" rate tables in this label.

See the "ROUNDUP READY CROPS" section of this label for general precautionary instructions for use in Roundup Ready crops.

#### **Postemergence (Over the Top)**

This product may be applied by aerial or ground application equipment at rates up to 32 fluid ounces (1 quart per acre) of this product postemergence to Roundup Ready cotton from the ground cracking stage until the four leaf (node) stage of development (until the fifth true leaf reaches the size of a quarter). Over-the-top applications made after the four leaf (node) stage of development may result in boll loss, delayed maturity, and/or yield loss.

Salvage Treatment: This treatment may be used after the 4-leaf stage of development and should only be used where weeds threaten to cause the loss of the crop. One quart per acre may be applied either as an over-the-top application or as a post-directed treatment sprayed higher on the cotton plants and over the weeds. NOTE: Salvage treatments will result in significant boll loss, delayed maturity, and/or yield loss. Make no more than one salvage treatment per growing season.

See the "ROUNDUP READY CROPS" section of this label for general precautionary instructions for use in Roundup Ready Soybeans. The combined total application of this product from cotton emergence to harvest must not exceed 6 quarts per acre.

No more than two over-the-top broadcast applications may be made from crop emergence through the 4-leaf (node) stage of development. No more than two applications may be made from the 5-leaf stage through layby. Sequential, in-crop, over-the-top, or post-directed applications of this product must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications. Allow a minimum of 7 days between application and harvest.

#### **Selective Equipment**

This product may be applied using precision post-directed or hooded sprayers at rates up to 32 fluid ounces (1 quart) per acre per application to Roundup Ready cotton through layby. At this stage, post-directed equipment must be used which directs the spray to the base of the cotton plants. Contact of the spray with cotton leaves must be avoided to the maximum extent possible. Place nozzles in a low position directing a horizontal spray pattern under the cotton leaves to contact weeds in the row. For best results, make applications while weeds are small (less than 3 inches). Minimize spray drift onto the leaves of the cotton plants by maintaining low spray pressure (less than 30 PSI). Applications that contact the cotton leaves may result in boll loss, delayed maturity, and/or yield loss. Any single post-directed application should not exceed 32 fluid ounces (1 quart) per acre of this product. No more than two applications should be made from the fifth leaf through layby. Sequential in-crop applications of this product must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications.

See the "SELECTIVE EQUIPMENT" part of the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for information on proper use and calibration of this equipment.

#### **Preharvest**

Apply this product for preharvest annual and perennial weed control as a broadcast treatment to Roundup Ready cotton prior to crop harvest after 20 percent boll crack. Apply up to 2 quarts of this product per acre using either aerial or ground spray equipment. This product may be tank mixed with Def® 6, Folex®, Ginstar®, or Prep® (or generic equivalents). NOTE: This product will not enhance the performance of these harvest aids when applied to Roundup Ready cotton.

**RESTRICTIONS:** Allow a minimum of 7 days between application and harvest of cotton. Do not apply this product to cotton grown for seed, as a

reduction in germination or vigor may occur. Refer to manufacturers' labels for use of additives such as surfactants, stickers, and spreaders for preharvest application to cotton.

Maximum Allowable Application Rates	
Combined Total Per Year for All Types of Applications	8 quarts per acre
Preplant, Preemergence, At-Planting Applications	5 quarts per acre
Total In-crop Applications from Ground Cracking to Layby	4 quarts per acre
Maximum Preharvest Application Rate	2 quarts per acre

### 5.5 Soybeans with the Roundup Ready Gene

TYPES OF APPLICATIONS: Preplant, Preemergence, At-Planting, Postemergence (In-crop), Preharvest, Post-Harvest.

#### Preplant, At-Planting, Preemergence

This product may be applied before, during, or after planting.

Make applications according to the rates listed in "ANNUAL WEEDS," "PERENNIAL WEEDS," and "WOODY BRUSH AND TREES" rate tables in this label.

See the "ROUNDUP READY CROPS" section of this label for general precautionary instructions for use in Roundup Ready crops.

#### Postemergence (In-crop)

When applied as directed, this product will control annual grasses and broadleaf weeds listed on this label in Roundup Ready soybeans. Applications of this product can be made from emergence (cracking) throughout flowering (R2 stage soybeans). R2 stage soybeans ends when a pod reaches 5 millimeters (3/16 inch) in length at one of the four uppermost nodes on the main stem with a fully developed leaf. Refer to the "ANNUAL WEEDS RATE SECTION" in this label for specified rates for specific annual weeds. In general, an initial application of 32 fluid ounces (1 quart) per acre on 2- to 8-inch tall weeds is specified. Weeds will generally be 2- to 8-inches tall, 2 to 5 weeks after planting. If the initial application is delayed and weeds are larger, apply a higher rate of this product. This product may be used up to 2 quarts per acre in any single in-crop application for control of annual weeds and where dense weed populations exist.

A 32 to 64 fluid ounces (1 to 2 quarts) per acre rate (single or multiple applications) of this product will control or suppress perennial weeds such as bermudagrass, Canada thistle, common milkweed, field bindweed, hemp dogbane, horsenettle, marestalk (horseweed), nutsedge, quackgrass, rhizome johnsongrass, redvine, trumpet creeper, swamp smartweed, and wirestem muhly. For best results, allow perennial weed species to achieve at least 6 inches of growth before spraying with this product.

Under adverse growing conditions such as drought, hail, wind damage, or a poor soybean stand that slows or delays canopy closure, a sequential application of this product may be necessary to control late flushes of weeds. IN THE SOUTHERN STATES, A SEQUENTIAL APPLICATION OF THIS PRODUCT WILL BE REQUIRED TO CONTROL NEW FLUSHES OF WEEDS IN THE ROUNDUP READY SOYBEAN CROP. To control giant ragweed, use 32 fluid ounces (1 quart) per acre of this product when the weed is 8- to 12-inches tall to increase control and possibly avoid the need for a sequential application.

RESTRICTIONS: The combined total application from crop emergence through harvest must not exceed 96 fluid ounces (3 quarts) of this product per acre. The maximum rate for any single in-crop application is 64 fluid ounces (2 quarts) of this product per acre. The maximum combined total of this product that can be applied during flowering is 64 fluid ounces (2 quarts) per acre.

#### Preharvest

This product provides weed control when applied prior to harvest of soybeans. Up to 32 fluid ounces (1 quart) of this product per acre can be applied by aerial or ground application.

PRECAUTIONS AND RESTRICTIONS: Care must be taken to avoid excessive seed shatter loss due to ground application equipment. Allow a minimum of 14 days between final application and harvest of soybean grain or feeding of soybean grain, forage, or hay.

#### Post-Harvest

This product may be applied after harvest of Roundup Ready soybeans. Higher rates may be required for control of large weeds that were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used.

Note: The use of this product for in-crop applications over Roundup Ready soybeans may not be practiced in California unless the applicator has, at the time of application, a California-approved supplemental label specifying the accepted Directions for Use.

Maximum Allowable Application Rates	
Combined Total Per Year for All Types of Applications	8 quarts per acre
Preplant, Preemergence, At-Planting Applications	5 quarts per acre
Total In-crop Applications from Cracking Throughout Flowering	3 quarts per acre
Maximum Preharvest Application Rate	1 quart per acre

## 5.6 Sugar Beets with the Roundup Ready Gene

Note: Do not combine the instructions in this section of the labeling with any other instructions for crop varieties that do not contain a Roundup Ready gene listed in the "ANNUAL AND PERENNIAL CROPS" section of this label.

TYPES OF APPLICATIONS: Preplant, At-Planting, Preemergence, Postemergence (In-Crop).

### Preplant, At-Planting, Preemergence

This product may be applied before, during, or after planting.

Make applications according to the rates listed in "ANNUAL WEEDS," "PERENNIAL WEEDS," and "WOODY BRUSH AND TREES" rate tables in this label.

PRECAUTIONS, RESTRICTIONS: The maximum quantity of this product that may be applied for all preplant, at-planting and preemergence applications combined is 5 quarts per acre per season.

### Postemergence (In-Crop)

To control annual grasses and broadleaf weeds, this product may be applied postemergent over-the-top to Roundup Ready sugar beets from emergence to 30 days prior to harvest. To maximize yield potential, spray sugar beets early to eliminate competing weeds. Up to 4 sequential applications of this product may be made with at least 10 days between applications. Refer to the "ANNUAL WEEDS RATE TABLE" in this label for application rates for specific annual weeds. This product will control or suppress most perennial weeds. For some perennial weeds, repeat applications may be required to eliminate crop competition throughout the growing season.

PRECAUTIONS AND RESTRICTIONS: Allow a minimum of 30 days between last application and sugar beet harvest. For any crop not listed in the "CROPS" section of this label booklet, applications must be at least 30 days prior to planting. Do not exceed the maximum allowable application rates found in the table below when making any applications to Roundup Ready sugar beets.

Maximum Allowable Application Rates	
Combined Total Per Year for All Types of Applications	8 quarts per acre
Preplant, At-Planting, Preemergence Applications	5 quarts per acre
Combined Total From Crop Emergence Through Harvest	4 ½ quarts per acre
Maximum Single Rate Application Between Emergence to the 8-leaf Stage	1 ½ quarts per acre
Maximum Single Rate Application Between 8-leaf Stage and Canopy Closure	1 quart per acre
Emergence to 8-leaf Stage	2 ½ quarts per acre
Between 8-leaf Stage and Canopy Closure	2 quarts per acre

## 6.0 NONCROP USES AROUND THE FARMSTEAD

Labeled Sites: Noncrop areas including building foundations, along and in fences, in dry ditches and canals, along ditchbanks, farm roads, shelterbelts, prior to landscape plantings, and equipment storage areas.

TYPES OF APPLICATIONS: General Non-Selective Weed Control, Trim-and-Edge, Chemical Mowing, Cut Stumps, Habitat Restoration and Management, Wildlife Food Plots, and Rangelands (Dormant).

### General Non-Selective Weed Control, Trim-And-Edge

USE INSTRUCTIONS: This product may be used to control annual weeds, perennial weeds, and woody brush which are found in any part of the farmstead, including building foundations, along and in fences, in dry ditches and canals, along ditchbanks, farm roads, shelterbelts, prior to landscape plantings, and equipment storage areas.

TANK MIXTURES: This product may be tank mixed with the following products (or generic equivalents). Refer to the product labels in the tank mix for instructions, precautions, and restrictions. Ensure that the tank mix partner is registered for the intended application. For annual weeds, use 1 quart per acre of this product when weeds are less than 6 inches tall, 1 ½ quarts per acre when weeds are greater than 6 inches tall. For perennial weeds, apply 2 to 5 quarts per acre in these tank mixes. For tank mixtures with these products through backpack sprayers, handguns, or other high-volume spray-to-wet applications, see "Hand-Held or High-Volume Spray Equipment" under the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for specified rates.

Arsenal®
Barricade® 65WG
Dicamba*
Diuron
Endurance®
Escort®
Karmex® DF
Krovar® I DF

Oust®
Pendimethalin
Pendulum® 3.3 EC
Pendulum WDG
Plateau®
Princep® DF
Princep 4L
Ronstar® 50 WP

Sahara®
Simazine
Surflan® AS
Surflan WDG
Telar®
Vanquish®
2,4-D

\*This product plus dicamba may not be applied by air in California.

### Chemical Mowing

USE INSTRUCTIONS: This product will suppress perennial grasses listed in this section to serve as a substitute for mowing. Use 6 to 8 fluid ounces of this product per acre. Use 6 fluid ounces of this product per acre when treating Kentucky bluegrass. Use 8 fluid ounces of this product per acre when treating tall fescue, fine fescue, orchardgrass, or quackgrass covers. Apply treatments in 10 to 20 gallons of spray solution per acre. Chemical mowing applications may be made along farm ditches and other parts of farmsteads.

PRECAUTIONS, RESTRICTIONS: Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

### Cut Stumps

TYPES OF APPLICATION: Treating cut stumps in any noncrop site listed on this label.

USE INSTRUCTIONS: This product will control regrowth of cut stumps and resprouts of many types of woody brush and tree species, some of which are listed below. Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut trees or resprouts close to the soil surface. Apply a 50 to 100 percent solution of this product to the freshly cut surface immediately after cutting. Delays in application may result in reduced performance. For best results, applications should be made during periods of active growth and full leaf expansion

Alder	Reed, giant
Eucalyptus	Saltcedar
Madrone	Sweetgum
Oak	Tan oak
	Willow

PRECAUTIONS, RESTRICTIONS: Do not make cut stump applications when the roots of desirable woody brush or trees may be grafted to the roots of the cut stump. Injury resulting from root grafting may occur in adjacent woody brush or trees.

### Habitat Restoration and Management

TYPES OF USES: Habitat restoration and maintenance, wildlife food plots.

USE INSTRUCTIONS: This product may be used to control exotic and other undesirable vegetation in habitat management areas. 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. The tank mixtures listed in this section of the label may be used for habitat restoration and maintenance.

#### Wildlife Food Plots

USE INSTRUCTIONS: This product may be used as a site preparation treatment to control annual and perennial weeds prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after application before tillage.

#### Rangelands (Dormant)

USE DIRECTIONS: This product will control or suppress many weeds, including downy brome, cheatgrass, cereal rye, medusahead rye, and jointed goatgrass in dormant rangelands. Apply 8 to 16 fluid ounces of this product per acre in the early spring when the weeds have greened up, but desirable grasses, such as crested and tall wheatgrass, are still truly dormant. Slight discoloration of the desirable grasses may occur, but they will regreen and regrow under most soil conditions as effects of this product wear off.

PRECAUTIONS, RESTRICTIONS: Do not use ammonium sulfate when spraying dormant rangeland grasses with this product. Do not make more than one application per year.

## 7.0 CHRISTMAS TREES

TYPES OF APPLICATION: Post-Directed, Spot Treatment, Site Preparation.

### Post-directed, Spot Treatment

USE INSTRUCTIONS: This product may be used as a post-directed spray and spot-treatment around established Christmas trees.

PRECAUTIONS, RESTRICTIONS: Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material. THIS PRODUCT IS NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN CHRISTMAS TREES. Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of established Christmas trees.

### Site Preparation

USE INSTRUCTIONS: This product may be used prior to planting Christmas trees.

PRECAUTIONS, RESTRICTIONS: Precautions should be taken to protect non-target plants during site preparation applications.

## 8.0 NONCROP AND INDUSTRIAL SITES

Use in areas including 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, roadsides, sod or turf seed farms, schools, storage areas, utility substations, warehouse areas, and other public areas.

#### TYPES OF APPLICATIONS: Weed control, Trim-and-edge, and Bare ground

This product may be used in noncrop areas. It may be applied with any application equipment described in this supplemental label and the Quali-Pro Glyphosate Plus Herbicide label. This product 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. This product may be used prior to planting an area to ornamentals, flowers, turfgrass (sod or seed), or prior to laying asphalt or beginning construction projects.

Repeated applications of this product may be used, as weeds emerge, to maintain bare ground.

This product may be tank mixed with the following products. Refer to these products' labels for approved noncrop sites and application rates.

ARSENAL®	PLATEAU®
BANVEL®	PRINCEP® DF
BARRICADE® 65 WG	PRINCEP® LIQUID
DIURON	RONSTAR® 50 WP
ENDURANCE®	SAHARA®
ESCORT®	SIMAZINE
KARMEX® DF	SURFLAN®
KROVAR® DF	TELAR®
OUST®	VANQUISH®
PENDULUM® 3.3 EC	2,4-D
PENDULUM® WDG	

This product plus dicamba tank mixtures may not be applied by air in California.

When applied as a tank mixture for bare ground, this product provides control of the emerged annual weeds and control or partial control of emerged perennial weeds, woody brush and trees.

For control or partial control of the following perennial weeds, apply 1 to 2 quarts of this product plus 2 to 4 ounces of Oust® per acre.

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

#### Chemical mowing – Perennials

This product will suppress perennial grasses listed in this section to serve as a substitute for mowing. Use 8 fluid ounces of this product per acre when treating tall fescue, fine fescue, orchardgrass or quackgrass covers. Use 6 fluid ounces of this product per acre when treating Kentucky bluegrass. Apply treatments in 10 to 40 gallons of spray solution per acre.

Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

#### Chemical mowing – Annuals

For growth suppression of some annual grasses including annual ryegrass, wild barley and wild oats growing in coarse turf on roadsides or other industrial areas, apply 4 to 5 fluid ounces of this product in 10 to 40 gallons of spray solution per acre. Applications should be made when annual grasses are actively growing and before the seedheads are in the boot stage of development. Treatments may cause injury to the desired grasses.

#### Dormant Turfgrass

This product may be used to control or suppress many winter annual weeds and tall fescue for effective release of dormant bermudagrass and bahiagrass turf. Treat only when turf is dormant and prior to spring greenup.

Apply 8 to 64 fluid ounces of this product per acre. Apply rates in 10 to 40 gallons of water per acre. Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated.

Treatments in excess of 16 fluid ounces per acre may result in injury or delayed greenup in highly maintained areas including golf courses and lawns. DO NOT apply tank mixtures of this product plus Oust® in highly maintained turfgrass areas. For further uses, refer to the "ROADSIDES" section of this label which gives rates for dormant bermudagrass and bahiagrass treatments.

#### Actively growing bermudagrass

This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. DO NOT apply more than 16 fluid ounces of this product per acre in highly maintained turfgrass areas. DO NOT apply tank mixtures of this product plus Oust® in highly maintained turfgrass areas. For further uses, refer to the "ROADSIDES" section of this label which gives rates for actively growing bermudagrass treatments. Use only in areas where some temporary injury or discoloration can be tolerated.

## **Turfgrass renovation, seed, or sod production**

TYPES OF APPLICATION: Preplant, Preemergence, Renovation, Site Preparation, Spot Treatment, Turfgrass Renovation for Sod Production

### **Preemergence, Renovation, Site Preparation**

This product controls most existing vegetation prior to renovating turfgrass areas or establishing turfgrass grown for seed or sod. Broadcast or hand-held equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested.

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 including bermudagrass, summer or fall applications provide the best control. Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray.

Make applications according to the rates listed in "ANNUAL WEEDS," "PERENNIAL WEEDS," and "WOODY BRUSH AND TREES" rate tables in this label. Desirable turfgrass may be planted following the above procedures.

### **Spot Treatment**

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.

PRECAUTIONS, RESTRICTIONS: 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 proper translocation into underground plant parts. If application rates total 3 quarts per acre or less, no waiting period between treatment and feeding or livestock grazing is required. If the rate is greater than 3 quarts per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting. For any crop not listed for treatment in this label, applications must be made at least 30 days prior to planting.

## **9.0 HABITAT MANAGEMENT**

### **Habitat Restoration and Management**

This product 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. Spot treatments can be made to selectively remove unwanted plants for habitat management and enhancement.

### **Wildlife Food Plots**

This product may be used as a site preparation treatment prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after application before tillage to allow translocation into underground plant parts.

## **10.0 INJECTION AND FRILL (WOODY BRUSH AND TREES)**

This product may be used to control woody brush and trees by injection or frill applications. Apply this product using suitable equipment which must penetrate into the living tissue. Apply the equivalent of 1 mL of this product per each 2 to 3 inches of trunk diameter at breast height (DBH). This is best achieved by applying a 50 to 100 percent concentration of this product either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow runoff to occur from frilled or cut areas in species that exude sap freely. In species such as this, make the frill or cuts at an oblique angle to produce a cupping effect and use a 100 percent concentration of this product. For best results, application should be made during periods of active growth and after full leaf expansion. This product will control many species, some of which are listed below:

<b>Control</b>	<b>Partial Control</b>
Oak	Black gum
Poplar	Dogwood
Sweetgum	Hickory
Sycamore	Maple, red

## **11.0 ORNAMENTALS AND PLANT NURSERIES, CHRISTMAS TREES**

### **Post-directed, Trim-and-edge**

This product may be used as a post-directed spray around established woody ornamental species including arborvitae, azalea, boxwood, crabapple, euonymus, fir, Douglas fir, jojoba, hollies, lilac, magnolia, maple, oak, privet, pine, spruce and yew. This product may also be used to trim and edge around trees, buildings, 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 covering made of cardboard or other impermeable material. THIS PRODUCT IS NOT TO BE USED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN ORNAMENTALS AND CHRISTMAS TREES. Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of established ornamental species.

### **Site preparation**

This product may be used prior to planting any ornamental, nursery or Christmas tree species.



### Greenhouse/Shadehouse

This product may be used to control weeds growing in and around greenhouses and shadehouses. Desirable vegetation must not be present during application and air circulation fans must be turned off.

### 12.0 PARKS, RECREATIONAL AND RESIDENTIAL AREAS

This product may be used in parks, recreational and residential areas. It may be applied with any application equipment described in the Quali-Pro Glyphosate Plus Herbicide label. This product may be used to trim-and-edge around trees, fences, paths, around buildings, sidewalks, and other objects in these areas. This product may be used for spot treatment of unwanted vegetation. This product may be used to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. This product may be used prior to planting an area to ornamentals, flowers, turfgrass (sod or seed), or prior to laying asphalt or beginning construction projects.

All of the instructions in the "NONCROP AREAS AND INDUSTRIAL SITES" section apply to park and recreational areas.

### 13.0 RAILROADS

All of the instructions in the "NONCROP AREAS AND INDUSTRIAL SITES" section apply to railroads.

#### Bare ground, Ballast and Shoulders, Crossings, and Spot treatment

This product may be used to maintain bare ground on railroad ballast and shoulders. Repeat applications of this product may be used, as weeds emerge, to maintain bare ground. This product 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 gallons of spray solution per acre may be used. This product may be tank mixed with the following products for ballast, shoulder, spot, bare ground and crossing treatments:

ARSENAL®	KROVAR® I DF
BANVEL®	OUST®
DIURON	SAHARA®
ESCORT®	SPIKE®
GARLON® 3A	TELAR®
GARLON® 4	VANQUISH®
HYVAR® X	2,4-D

#### Brush control

This product may be used to control woody brush and trees on railroad rights-of-way. Apply 4 to 10 quarts of this product per acre as a broadcast spray, using boom-type or boomless nozzles. Up to 80 gallons of spray solution per acre may be used. Apply a ¾ to 2 percent solution of this product when using high-volume spray-to-wet applications. Apply a 5 to 10 percent solution of this product when using low volume directed sprays for spot treatment. This product may be mixed with the following products for enhanced control of woody brush and trees:

ARSENAL®	GARLON® 4
ESCORT®	TORDON® K
GARLON® 3A	

#### Bermudagrass Release

This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. Apply 1 to 3 pints of this product in up to 80 gallons 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

This product may be tank mixed with Oust®. If tank mixed, use no more than 1 to 3 pints of this product with 1 to 2 ounces of Oust® per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust® label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

Bahiagrass	Fescue, tall
Blackberry	Johnsongrass
Bluestem, silver	Poorjoe
Broomsedge	Raspberry
Dallisgrass	Trumpetcreeper
Dewberry	Vaseygrass
Dock, curly	Vervain, blue
Dogfennel	

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

#### 14.0 ROADSIDES

All the instructions in the "NONCROP AREAS AND INDUSTRIAL SITES" section apply to roadsides.

##### **Shoulder treatments**

This product 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.

##### **Guardrails and other obstacles to mowing**

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

##### **Spot treatment**

This product may be used as a spot treatment to control unwanted vegetation growing along roadsides.

##### **Tank mixtures**

This product may be tank-mixed with the following products for shoulder, guardrail, spot and bare ground treatments:

BANVEL®	PRINCEP® LIQUID
DIURON	RONSTAR® 50 WP
ENDURANCE®	SAHARA®
ESCORT®	SIMAZINE
KROVAR® I DF	SURFLAN®
OUST®	TELAR®
PENDULUM® 3.3 EC	VANQUISH®
PENDULUM® WDG	2,4-D
PRINCEP® DF	

See the "NONCROP AREAS AND INDUSTRIAL SITES" section of this label for instructions for tank mixing.

##### **Release Of Bermudagrass or Bahiagrass**

###### **Dormant applications**

This product may be used to control or partially control many winter annual weeds and tall fescue for effective release of dormant bermudagrass or bahiagrass. Treat only when turf is dormant and prior to spring greenup. This product may also be tank mixed with Oust® for residual control. Tank mixtures of this product with Oust® may delay greenup.

For best results on winter annuals, treat when plants are in an early growth stage (below 6 inches in height) after most have germinated. For best results on tall fescue, treat when fescue is at or beyond the 4- to 6-leaf stage.

Apply 8 to 64 fluid ounces of this product per acre alone or in a tank mixture with ¼ to 1 ounce per acre of Oust. Apply the rates in 10 to 40 gallons of water per acre. Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated. To avoid delays in greenup and minimize injury, add no more than 1 ounce of Oust per acre on bermudagrass and no more than 0.5 ounce of Oust per acre on bahiagrass and avoid treatments when these grasses are in a semi-dormant condition.

###### **Actively growing bermudagrass**

This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. Apply 1 to 3 pints of this product in 10 to 40 gallons 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

This product may be tank mixed with Oust. If tank mixed, use no more than 1 to 2 pints of this product with 1 to 2 ounces of Oust per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

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

Use only on well-established bermudagrass. Bermudagrass injury may result from the treatment, but regrowth will occur under moist conditions. Repeat applications of the tank mix in the same season may cause severe injury.

#### **Actively growing bahiagrass**

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days, apply 6 fluid ounces of this product in 10 to 40 gallons of water per acre. Apply 1 to 2 weeks after full greenup or after mowing to a uniform height of 3 to 4 inches. This application must be made prior to seedhead emergence.

For suppression up to 120 days, apply 4 fluid ounces of this product per acre followed by an application of 2 to 4 fluid ounces per acre about 45 days later. Make no more than 2 applications per year.

A tank mixture of this product plus Oust may be used. Apply 6 fluid ounces of this product plus 0.25 ounce of Oust per acre 1 to 2 weeks following an initial spring mowing. Make only one application per year.

### **15.0 POPLAR PRODUCTION**

TYPES OF APPLICATIONS: Preplant, In-Crop.

#### **Preplant**

USE INSTRUCTIONS: This product is recommended for use prior to planting *Populus* spp. This includes, but is not limited to, hybrid poplars and hybrid cottonwoods.

#### **In-Crop**

USE INSTRUCTIONS: Directed Sprays: Use a 2 percent spray solution as a spray-to-wet application for the control of undesirable woody brush and trees. To control herbaceous weeds, use a 1 to 2 percent solution. Avoid contact of spray, drift, or mist with foliage, green bark or non-woody surface roots of the *Populus* spp.

Wipers: This product may be used through wick or other suitable wiper applicators for control or partial control of grass and broadleaf weeds listed in this label. For wick applicators, mix 1 gallon of this product with 2 gallons water to make a 33% solution. For wiper systems that can handle thicker solutions, such as force-fed systems, a 33 - 100% Quali-Pro Glyphosate Plus Herbicide solution may be used. For best results ensure that the herbicide solution is allowed to contact the maximum amount of leaf surface. As weed densities increase, decrease equipment speed to allow sufficient herbicide flow to wet all weed surfaces contacted. Weeds not contacted will be unaffected.

PRECAUTIONS, RESTRICTIONS: AVOID HERBICIDE CONTACT WITH DESIRABLE VEGETATION. Desirable vegetation contacted by the herbicide solution may be injured or controlled. This includes foliage, fruit, or green stems.

### **16.0 EUCALYPTUS PRODUCTION**

TYPES OF APPLICATIONS: Preplant, Directed Spray (Spray-To-Wet), Wiper.

#### **Preplant**

This product is recommended for use prior to planting eucalyptus species.

Ground Broadcast Spray: Use the rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified.

#### **In Established Eucalyptus**

This product can be used around established eucalyptus trees to control undesirable vegetation.

Directed Sprays (Spray-to-wet applications): Use a 1 to 2 percent spray solution to control herbaceous weeds in eucalyptus farms. Use a 2 percent spray solution for control of undesirable woody brush and trees. For "hard-to-control" weeds, use a 5 to 10 percent spray solution. Avoid contact of spray, drift, or mist with foliage, green bark or non-woody surface roots of eucalyptus plants.

Wipers: This product may be used through wick or other suitable wiper applicators for control or partial control of grass and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label. For wick applicators, mix 1 gallon of this product with 2 gallons water to make a 33% solution. For wiper systems that can handle thicker solutions, such as force-fed systems, a 33 to 100% Quali-Pro Glyphosate Plus Herbicide solution may be used. For best results, ensure that the herbicide solution is allowed to contact the maximum amount of leaf surface. As weed densities increase, decrease equipment speed to allow sufficient herbicide flow to wet all weed surfaces contacted. Weeds not contacted will be unaffected.

PRECAUTIONS, RESTRICTIONS: AVOID HERBICIDE CONTACT WITH DESIRABLE VEGETATION. Desirable vegetation contacted by the herbicide solution may be injured or controlled. This includes foliage, fruit, or green stems.

**17.0 FORESTRY SITE PREPARATION**

This product is recommended for the control or partial control of woody brush, trees and herbaceous weeds in forestry. This product is also recommended for use in preparing or establishing wildlife openings within these sites and maintaining logging roads.

This product is recommended for use in site preparation prior to planting any tree species, including Christmas trees and silvicultural nursery sites.

**APPLICATION RATES AND TIMING**

APPLICATION	QUALI-PRO GLYPHOSATE PLUS HERBICIDE	SPRAY VOLUME (GAL/A)
<b>BROADCAST</b>		
Aerial	2 to 10 qts./A	5 to 30
Ground	2 to 10 qts./A	10 to 60
<b>SPRAY-TO-WET</b>		
Handgun, Backpack, Mistblower	¾% to 2% by volume	Spray-to-wet
<b>LOW VOLUME DIRECTED SPRAY</b>		
Handgun, Backpack, Mistblower	5% to 10% by volume	Partial coverage*
*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 higher rates of this product within the recommended range for control or partial control of woody brush, trees and hard-to-control perennial herbaceous weeds. 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 herbaceous weeds any time after emergence and before seedheads, flowers, or berries appear.

Use the lower rates of this product within the recommended range for control of annual herbaceous weeds and actively growing perennial herbaceous weeds after seedheads, flowers, or berries appear. Apply to the foliage of actively growing annual herbaceous weeds any time after emergence.

This product has no herbicidal or residual activity in the soil. Where repeat applications are necessary, do not exceed 10.6 quarts of this product per acre per year.

**ANNUAL WEEDS RATE TABLE**  
(Alphabetically by Species)

**USE WATER CARRIER VOLUMES OF 3 TO 10 GALLONS PER ACRE FOR GROUND APPLICATIONS AND 3 TO 5 GALLONS PER ACRE FOR AERIAL APPLICATIONS.**

Apply to actively growing annual weeds. Annual weeds are generally easiest to control when they are small. Older, mature (hardened) annual weed species may require higher rates even if they meet the size requirements.

Do not tank mix with soil residual herbicides when using these rates unless otherwise specified.

For weeds that have been mowed, grazed, or cut, allow regrowth to occur prior to treatment.

Use up to 48 fluid ounces of this product per acre where heavy weed densities exist.

WEED SPECIES	Maximum Weed Height/Length (in inches)				
	APPLICATION RATE				
	(fluid ounces per acre)				
	16	24	32	40	48
Ammannia, purple	3	6	12	-	18
Annoda, spurred	-	2	3	5	8
Barley	18	18 +	-	-	-
Barryardgrass	-	3	6	7	9
Bassia, fivehook	-	-	6	-	-
Beggarweed, Florida	-	5	8	-	-
Bittercress	12	20	-	-	-

(continued)

WEED SPECIES	Maximum Weed Height/Length (in inches)				
	APPLICATION RATE				
	(fluid ounces per acre)				
	16	24	32	40	48
Bluegrass, annual	10	-	-	-	-
Bluegrass, bulbous	6	-	-	-	-
Brome, downy <sup>1,2</sup>	6	12	-	-	-
Brome, Japanese	6	12	24	-	-
Browntop panicum	6	8	12	-	24
Buckwheat, wild <sup>3</sup>	-	1	2	-	-
Burcucumber	-	6	12	-	18
Buttercup	12	20	-	-	-
Carolina geranium	-	-	4	-	9
Carpetweed	-	6	12	-	-
Cheat <sup>2</sup>	6	20	-	-	-
Chervil	20	-	-	-	-
Chickweed	-	12	18	-	-
Cocklebur	12	18	24	-	36
Copperleaf, hophornbeam	-	2	4	-	6
Copperleaf, Virginia	-	2	4	-	6
Coreopsis, plains	-	6	12	-	18
Corn, volunteer	6	12	20	-	-
Corn speedwell	12	-	-	-	-
Crabgrass	3	6	12	-	-
Crowfootgrass	-	-	6	-	12
Cutleaf evening primrose	-	-	3	-	6
Devilsclaw (unicorn plant)	-	3	6	-	-
Dwarf dandelion	12	-	-	-	-
Eastern mannagrass	8	12	-	-	-
Eclipta	-	4	8	12	-
Fall panicum	4	-	6	-	12
Falsedandelion	-	20	-	-	-
Falseflax, smallseed	12	-	-	-	-
Fiddleneck	-	6	12	-	-
Field pennycress	6	12	-	-	-
Filaree	-	-	6	-	12
Fleabane, annual	6	20	-	-	-
Fleabane, hairy ( <i>Conyza bonariensis</i> )	-	-	6	-	10
Fleabane, rough	3	6	12	-	-
Florida pusley	-	-	4	-	6
Foxtail, bristly	6	12	20	-	-
Foxtail, Carolina	10	-	-	-	-
Foxtail, giant	6	12	20	-	-
Foxtail, green	12	-	-	-	-
Foxtail, yellow	6	12	20	-	-
Goatgrass, jointed	6	12	-	-	-

(continued)

WEED SPECIES	Maximum Weed Height/Length (in inches)				
	APPLICATION RATE				
	(fluid ounces per acre)				
	16	24	32	40	48
Goosegrass	-	3	6	-	12
Grain sorghum (milo)	6	12	20	-	-
Groundcherry	-	3	6	-	9
Groundsel, common	-	6	10	-	-
Hemp sesbania	-	2	4	6	8
Henbit	-	-	6	-	12
Horseweed/marestail ( <i>Conyza canadensis</i> )	-	6	12	-	18
Itchgrass	6	8	12	-	18
Jimsonweed	-	-	12	-	18
Johnsongrass, seedling	6	12	18	-	24
Junglerice	-	3	6	7	9
Knotweed	-	-	6	-	12
Kochia <sup>4</sup>	-	3-6	12	-	-
Lambsquarters	-	6	12	-	20
Little barley	6	12	-	-	-
London rocket	6	-	24	-	-
Mayweed	-	2	6	12	18
Morningglory ( <i>Ipomoea</i> spp.)	-	-	3	-	6
Mustard, blue	6	12	18	-	-
Mustard, tansy	6	12	18	-	-
Mustard, tumble	6	12	18	-	-
Mustard, wild	6	12	18	-	-
Nightshade, black	-	4	6	-	12
Nightshade, hairy	-	4	6	-	12
Oats	3	6	18	-	-
Pigweed	-	12	18	24	-
Prickly lettuce	-	6	12	-	-
Purslane	-	-	3	-	6
Ragweed, common	-	6	12	-	18
Ragweed, giant	-	6	12	6	18
Red rice	-	-	4	-	-
Rye, volunteer/cereal <sup>2</sup>	6	18	18+	-	-
Ryegrass	-	-	6	-	12
Sandbur, field	6	12	-	-	-
Sandbur, longspine	6	12	-	-	-
Shattercane	6	12	20	-	-
Shepherdspurse	6	12	-	-	-
Sicklepod	-	2	4	-	8
Signalgrass, broadleaf	-	3	6	7	9
Smartweed, ladysthumb	-	-	6	-	9
Smartweed, Pennsylvania	-	-	6	-	9
Sowthistle, annual	-	-	6	-	12

(continued)

WEED SPECIES	Maximum Weed Height/Length (in inches)				
	APPLICATION RATE				
	(fluid ounces per acre)				
	16	24	32	40	48
Spanishneedles	-	-	6	-	12
Speedwell, purslane	12	-	-	-	-
Sprangletop	6	12	20	-	-
Spurge, prostrate	-	6	12	-	-
Spurge, spotted	-	6	12	-	-
Spurry, umbrella	6	-	-	-	-
Stinkgrass	-	12	-	-	-
Sunflower	12	18	-	-	-
Swinecress	-	5	12	-	-
Teaweed/Prickly sida	-	2	4	-	6
Texas panicum	6	8	12	-	24
Thistle, Russian <sup>5</sup>	-	6	12	-	-
Velvetleaf	-	-	6	-	12
Virginia pepperweed	-	18	-	-	-
Waterhemp	-	-	6	-	12
Wheat <sup>2</sup>	6	12	18	-	-
Wheat (overwintered)	-	6	12	6	18
Wild oats	3	6	18	-	-
Wild proso millet	-	6	12	-	18
Witchgrass	-	12	-	-	-
Woolly cupgrass	-	6	12	-	-
Yellow rocket	-	12	20	-	-

<sup>1</sup>For control of downy brome in no-till systems, use 24 fluid ounces per acre.

<sup>2</sup>Performance is better if application is made before this weed reaches the boot stage of growth.

<sup>3</sup>Use 24 fluid ounces per acre of this product to control wild buckwheat in the cotyledon to 2-leaf stage. Use 32 fluid ounces per acre to control 2- to 4-leaf wild buckwheat. For improved control of wild buckwheat over 2 inches in size, use sequential treatments of 32 fluid ounces followed by 32 fluid ounces of this product per acre.

<sup>4</sup>Do not treat kochia in the button stage.

<sup>5</sup>Control of Russian thistle may vary based on environmental conditions and spray coverage. Whenever possible, a tank mixture with 2,4-D as described below may improve control.

#### Annual Weeds-Water Carrier Volumes of 10 to 40 Gallons per Acre

Apply 1 to 2 quarts of this product per acre. Use 1 quart per acre if weeds are less than 6 inches tall and 1 ½ quarts per acre if weeds are 6-12 inches tall, and 2 quarts per acre if weeds are greater than 12 inches tall. These rates will provide control of weeds listed in the annual weed control tables when water carrier volumes are 10 to 40 gallons per acre for ground applications. Older, mature (hardened) annual weed species may require higher rates even if they meet the size requirements.

#### Annual Weeds-Tank Mixtures with 2,4-D or Dicamba or Picloram 22K

12 to 16 fluid ounces of this product plus 0.25 pound a.i. of dicamba or 0.5 pound a.i. of 2,4-D per acre or 1-2 fluid ounces of Picloram 22K will control the following weeds with the maximum height or length indicated:

6 inches; prickly lettuce, marestalk/horseweed, morningglory, kochia (dicamba only), wild buckwheat (Picloram 22K only).

12 inches; cocklebur, lambsquarters, pigweed, Russian thistle (2,4-D only).

16 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D per acre will control the following weeds when they are a maximum height or length of 6 inches: common ragweed, giant ragweed, Pennsylvania smartweed, and velvetleaf.

Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures. Ensure that the specific product is registered for application at the desired site. Some crop injury may occur if dicamba or Picloram 22K is applied within 45 days of planting.

DO NOT APPLY DICAMBA TANK MIXTURES BY AIR IN CALIFORNIA.

**Annual Weeds-Hand-Held or High-Volume Equipment**

For control of weeds listed in the “ANNUAL WEEDS RATE TABLE,” apply a 0.5-percent solution of this product 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 over 6 inches tall or unless otherwise specified, use a 1-percent solution.

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

When using application methods that result in less than complete coverage, use a 5-percent solution for annual and perennial weeds and a 5- to 10-percent solution for woody brush and trees.

**Annual Weeds-Tank Mixtures with Atrazine for Fallow and Reduced Tillage Systems**

For use only in Colorado, Kansas, Nebraska, Oklahoma, Oregon, South Dakota, and Washington. In Oregon and Washington, do not exceed 1 pound of atrazine per acre.

Applications of 24 to 28 fluid ounces of this product plus 1 to 2 pounds of atrazine per acre will control the following weeds: Barnyardgrass (requires 28 ounces for control), Downy brome, Green foxtail, Lambsquarters, Prickly lettuce, Tansy mustard, Pigweed, Field sandbur, Stinkgrass, Russian thistle, Volunteer wheat, Witchgrass, and Kochia (add 1/8 pound of dicamba for control).

Ensure that the specific product is registered for application at the desired site. Follow all precautions and limitations on the tank mix product label including application timing restrictions, soil restrictions, minimum re-cropping interval, and rotational guidelines.

**PERENNIAL WEEDS RATE TABLE**  
**(Alphabetically by Species)**

Apply to actively growing perennial weeds.

**NOTE:** If weeds have been mowed or tilled, do not treat until plants have resumed active growth and have reached the labeled stages. Do not treat when weeds are under drought stress, as good soil moisture is necessary for active growth.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Repeat treatments must be made prior to crop emergence.

Unless otherwise stated, allow 7 or more days after application before tillage.

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.

Desired Volume	Amount of Quali-Pro Glyphosate Plus to Prepare Different Percent Spray Concentrations					
	½%	1%	1 ½%	2%	5%	10%
1 Gal.	2/3 oz.	1 1/3 oz.	2 oz.	2 2/3 oz.	6 ½ oz.	13 oz.
25 Gal.	1 pt.	1 qt.	1 ½ qt.	2 qt.	5 qt.	10 qt.
100 Gal.	2 qt.	1 gal.	1 ½ gal.	2 gal.	5 gal.	10 gal.

2 tablespoons = 1 fluid ounce

Weed Species	Rate (Qt/A)	Water Volume (GPA)	Hand-Held % Solution
<b>Alfalfa</b>	<b>1</b>	<b>3-10</b>	<b>2%</b>
Make applications after the last hay cutting in the fall. Allow alfalfa to regrow to a height of 6 to 8 inches or more prior to treatment. Applications should be followed with deep tillage at least 7 days after treatment but before soil freeze-up.			
<b>Alligatorweed</b>	<b>4</b>	<b>3-20</b>	<b>1.5%</b>
Partial control. Apply when most of the plants are in bloom. Repeat applications will be required to maintain control.			
<b>Anise (fennel)</b>	<b>-</b>	<b>-</b>	<b>1-2%</b>
Apply as a spray-to-wet treatment. Optimum results are obtained when plants are treated at the bud to full-bloom stage of growth.			
<b>Bahiagrass</b>	<b>3-5</b>	<b>3-20</b>	<b>2%</b>
Apply when most plants have reached the early head stage.			
<b>Bentgrass</b>	<b>1.5</b>	<b>10-20</b>	<b>2%</b>
For suppression in grass seed production areas. For ground applications only. Ensure entire crown area has resumed growth prior to a fall application. Bentgrass should have at least 3 inches of growth. Tillage prior to treatment should be avoided. Tillage 7 to 10 days after application is produces best results.			
<b>Bermudagrass</b>	<b>3-5</b>	<b>3-20</b>	<b>2%</b>
For control, apply 5 quarts of this product per acre. For partial control, apply 3 quarts per acre. Treat when Bermudagrass is actively growing and seedheads are present. Re-treatment may be necessary to maintain control.			
<b>Bermudagrass, water (knotgrass)</b>	<b>1-1.5</b>	<b>5-10</b>	<b>2%</b>
Apply 1.5 quarts of this product in 5 to 10 gallons of water per acre. Apply when water bermudagrass is 12 to 18 inches in length. Allow 7 or more days before tilling, flushing, or flooding the field.			



Fall applications only: Apply 1 quart of this product in 5 to 10 gallons of water per acre. Till fallow fields prior to application. Apply prior to frost on water bermudagrass that is 12 to 18 inches in length.

This product is not registered in California for use on water bermudagrass.

<b>Bindweed, field</b>	<b>0.5-5</b>	<b>3-20</b>	<b>2%</b>
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Do not treat when weeds are under drought stress, as good soil moisture is necessary for active growth.

For control, apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts east of the Mississippi River. Apply when the weeds are at or beyond full bloom. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost.

Also for control, apply 2 quarts of this product plus 0.5 pound a.i. of dicamba in 10 to 20 gallons of water per acre. Do not apply by air.

For suppression on irrigated agricultural land, apply 1 to 2 quarts of this product plus 1 pound a.i. 2,4-D in 10 to 20 gallons of water per acre with ground equipment only. Make applications following harvest or in fall fallow ground when the bindweed is actively growing and the majority of runners are 12 inches or more in length. The use of at least one irrigation will promote active bindweed growth.

For suppression, apply 16 fluid ounces of this product plus 0.5 pound a.i. 2,4-D in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Apply by air in fallow and reduced tillage systems only. Delay applications until maximum emergence has occurred and when vines are between 6 to 18 inches in length.

**In California only,** apply 1 to 5 quarts of this product per acre. Actual rate needed for suppression or control will vary within this range depending on local conditions. For suppression on irrigated land where annual tillage is performed, apply 1 quart of this product in 3 to 10 gallons of water per acre. Apply to bindweed that has reached a length of 12 inches or greater. Allow maximum weed emergence and runner growth. Allow 3 or more days after application before tillage.

<b>Bluegrass, Kentucky</b>	<b>1-2</b>	<b>3-40</b>	<b>2%</b>
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Apply 2 quarts of this product in 10 to 40 gallons of water per acre when most plants have reached boot to early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height.

<b>Blueweed, Texas</b>	<b>3-5</b>	<b>3-40</b>	<b>2%</b>
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Apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts per acre east of the Mississippi River. Apply when plants are at or beyond full bloom. New leaf development indicates active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost.

<b>Brackenfern</b>	<b>3-4</b>	<b>3-40</b>	<b>1-1.5%</b>
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Apply to fully expanded fronds that are at least 18 inches long.

<b>Bromegrass, smooth</b>	<b>1-2</b>	<b>3-40</b>	<b>2%</b>
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Apply 2 quarts of this product in 10 to 40 gallons of water per acre when most plants have reached boot to early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height.

<b>Bursage, woolly-leaf</b>	<b>-</b>	<b>3-20</b>	<b>2%</b>
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For control, apply 2 quarts of this product plus ½ pound a.i. dicamba per acre. For partial control, apply 1 quart of this product plus ½ pound a.i. dicamba per acre. Apply when plants are producing new active growth which has been initiated by moisture for at least 2 weeks and when plants are at or beyond flowering.

<b>Canarygrass, reed</b>	<b>2-3</b>	<b>3-40</b>	<b>2%</b>
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For best results, apply when most plants have reached the boot-to-head stage of growth.

<b>Cattail</b>	<b>3-5</b>	<b>3-40</b>	<b>2%</b>
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Apply when most plants have reached the early head stage.

<b>Clover; red or white</b>	<b>3-5</b>	<b>3-20</b>	<b>2%</b>
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Apply when most plants have reached the early bud stage.

<b>Cogongrass</b>	<b>3-5</b>	<b>10-40</b>	<b>2%</b>
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Apply when cogongrass is at least 18 inches tall in late summer or fall. Due to uneven stages of growth and the dense nature of vegetation preventing good spray coverage, repeat treatments may be necessary to maintain control.

<b>Dallisgrass</b>	<b>3-5</b>	<b>3-20</b>	<b>2%</b>
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Apply when most plants have reached the early head stage.

<b>Dandelion</b>	<b>3-5</b>	<b>3-40</b>	<b>2%</b>
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Apply when most plants have reached the early bud stage of growth.

Also for control, apply 16 fluid ounces of this product plus 0.5 pound a.i. 2,4-D in 3 to 10 gallons of water per acre.

<b>Dock, curly</b>	<b>3-5</b>	<b>3-40</b>	<b>2%</b>
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Apply when most plants have reached the early bud stage of growth.

Also for control, apply 16 fluid ounces of this product plus 0.5 pound a.i. 2,4-D in 3 to 10 gallons of water per acre.

<b>Dogbane, hemp</b>	<b>4</b>	<b>3-40</b>	<b>2%</b>
Apply when most plants have reached the late bud to flower stage of growth. Following crop harvest or mowing, allow weeds to regrow to a mature stage prior to treatment. For best results, apply in late summer or fall.			
For suppression, apply 16 fluid ounces of this product plus 0.5 pound a.i. 2,4-D in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Delay applications until maximum emergence of dogbane has occurred.			
<b>Fescue (except tall)</b>	<b>3-5</b>	<b>3-20</b>	<b>2%</b>
Apply when most plants have reached the early head stage.			
<b>Fescue, tall</b>	<b>1-3</b>	<b>3-40</b>	<b>2%</b>
Apply 3 quarts of this product per acre when most plants have reached boot-to-early seedhead stage of development.			
Fall applications only: Apply 1 quart of this product in 3 to 10 gallons of water per acre. Apply to fescue in the fall when plants have 6 to 12 inches of new growth. A sequential application of 1 pint per acre of this product will improve long-term control and control seedlings germinating after fall treatments or the following spring.			
<b>Guineagrass</b>	<b>3</b>	<b>3-40</b>	<b>1%</b>
Apply when most plants have reached at least the 7-leaf stage of growth. Ensure thorough coverage when using hand-held equipment.			
<b>Horsenettle</b>	<b>3-5</b>	<b>3-20</b>	<b>2%</b>
Apply when most plants have reached the early bud stage.			
<b>Horseradish</b>	<b>4</b>	<b>3-40</b>	<b>2%</b>
Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall.			
<b>Iceplant</b>	<b>-</b>	<b>-</b>	<b>1.5-2%</b>
Iceplant should be at or beyond the early bud stage of growth. Thorough coverage is necessary for best control.			
<b>Jerusalem artichoke</b>	<b>3-5</b>	<b>3-20</b>	<b>2%</b>
Apply when most plants are in the early bud stage.			
<b>Johnsongrass</b>	<b>0.5-3</b>	<b>3-40</b>	<b>1%</b>
In annual cropping systems, apply 1 to 2 quarts of this product per acre. Apply 1 quart in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre. In noncrop or areas where annual tillage is not practiced (no-till), apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre.			
For best results, apply when most plants have reached the boot-to-head stage of growth or in the fall prior to frost. Allow 7 or more days after application before tillage. Do not tank mix with residual herbicides when using 1 quart of this product per acre.			
For burndown of Johnsongrass, apply 1 pint of this product in 3 to 10 gallons of water per acre before the plants reach a height of 12 inches. For this use, allow at least 3 days after treatment before tillage.			
Spot treatment (partial control or suppression)-Apply a 1-percent solution of this product when Johnsongrass is 12 to 18 inches in height. Coverage should be uniform and complete.			
<b>Kikuyugrass</b>	<b>2-3</b>	<b>3-40</b>	<b>2%</b>
Spray when most kikuyugrass is at least 8 inches in height (3- or 4-leaf stage of growth). Allow 3 or more days after application before tillage.			
<b>Knapweed</b>	<b>4</b>	<b>3-40</b>	<b>2%</b>
Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall.			
<b>Lantana</b>	<b>-</b>	<b>-</b>	<b>1-1.25%</b>
Apply at or beyond the bloom stage of growth. Use the higher application rate for plants that have reached the woody stage of growth.			
<b>Lespedeza</b>	<b>3-5</b>	<b>3-20</b>	<b>2%</b>
Apply when most plants have reached the early bud stage.			
<b>Milkweed, common</b>	<b>3</b>	<b>3-40</b>	<b>2%</b>
Apply when most plants have reached the late bud to flower stage of growth.			
<b>Muhly, wirestem</b>	<b>1-2</b>	<b>3-40</b>	<b>2%</b>
Use 1 quart of this product in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre or in pasture, sod, or noncrop areas. Spray when the wirestem muhly is 8 inches or more in height. Do not till between harvest and fall applications or in the fall or spring prior to spring applications. Allow 3 or more days after application before tillage.			
<b>Mullein, common</b>	<b>3-5</b>	<b>3-20</b>	<b>2%</b>
Apply when most plants are in the early bud stage.			
<b>Napiergrass</b>	<b>3-5</b>	<b>3-20</b>	<b>2%</b>
Apply when most plants are in the early head stage.			
<b>Nightshade, silverleaf</b>	<b>2</b>	<b>3-10</b>	<b>2%</b>
Applications should be made when at least 60 percent of the plants have berries. Fall treatments must be applied before a killing frost.			
<b>Nutsedge, purple or yellow</b>	<b>0.5-3</b>	<b>3-40</b>	<b>1-2%</b>
Apply 3 quarts of this product per acre or apply a 1- to 2-percent solution for control of nutsedge plants and immature nutlets attached to treated plants. Treat when plants are in flower or when new nutlets can be found at rhizome tips. Nutlets that have not germinated will not be controlled and may germinate following treatment. Repeat treatments will be required for long-term control of ungerminated tubers.			

Sequential applications: 1 to 2 quarts of this product in 3 to 10 gallons of water per acre will also provide control. Make applications when a majority of the plants are in the 3- to 5-leaf stage (less than 6 inches tall). Repeat this application as necessary when newly emerging plants reach the 3- to 5-leaf stage. Subsequent applications will be necessary for long-term control.

For partial control of existing plants, apply 1 pint to 2 quarts of this product in 3 to 40 gallons of water per acre. Treat when plants have 3 to 5 leaves and most are less than 6 inches tall. Repeat treatments will be required to control subsequent emerging plants or regrowth of existing plants.

<b>Orchardgrass</b>	<b>1-2</b>	<b>3-40</b>	<b>2%</b>
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Apply 2 quarts of this product in 10 to 40 gallons of water per acre when most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height.

Orchardgrass sods going to no-till corn: Apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to orchardgrass that is a minimum of 12 inches tall for spring applications and 6 inches tall for fall applications. Allow at least 3 days following application before planting. A sequential application of atrazine will be necessary for optimum results.

<b>Pampasgrass</b>	<b>-</b>	<b>-</b>	<b>1.5-2%</b>
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Pampasgrass should be at or beyond the boot stage of growth. Thorough coverage is necessary for best control.

<b>Paragrass</b>	<b>3-5</b>	<b>3-20</b>	<b>2%</b>
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Apply when most plants are in the early head stage.

<b>Phragmites</b>	<b>3-5</b>	<b>10-40</b>	<b>1-2%</b>
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For partial control and for best results, treat during late summer or fall when plants are actively growing and in full bloom. Treatment before or after this stage may lead to reduced control. Due to the dense nature of the vegetation which may prevent good spray coverage or uneven stages of growth, repeat treatments may be necessary to maintain control. Visual control symptoms will be slow to develop.

<b>Poison hemlock</b>	<b>-</b>	<b>-</b>	<b>1-2%</b>
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Apply as a spray-to-wet treatment. Optimum results are obtained when plants are treated at the bud to full-bloom stage of growth. Thorough coverage is necessary for best control.

<b>Pokeweed, common</b>	<b>1</b>	<b>3-40</b>	<b>2%</b>
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Apply to actively growing plants up to 24 inches tall.

<b>Quackgrass</b>	<b>1-3</b>	<b>3-40</b>	<b>2%</b>
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In annual cropping systems or in pastures and sods followed by deep tillage: Apply 1 quart of this product in 3 to 10 gallons of water per acre. For 10 to 40 gallons of water per acre, apply 2 quarts of this product. Do not tank mix with residual herbicides when using the 1 quart rate. Spray when quackgrass is 6 to 8 inches in height. Do not till between harvest and fall applications or in fall or spring prior to spring application. Allow 3 or more days after application before tillage. In pastures or sods, use a moldboard plow for best results.

In pastures, sods, or noncrop areas where deep tillage does not follow application: Apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre when the quackgrass is greater than 8 inches tall.

<b>Redvine</b>	<b>0.75-2</b>	<b>5-10</b>	<b>2%</b>
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For suppression, apply 24 fluid ounces of this product per acre at each of two applications 7 to 14 days apart or a single application of 2 quarts per acre. Apply specified rates in 5 to 10 gallons of water per acre. Apply in late September or early October to plants that are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least 1 week before a killing frost.

<b>Reed, giant</b>	<b>-</b>	<b>-</b>	<b>2%</b>
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Best results are obtained when applications are made in late summer to fall.

<b>Ryegrass, perennial</b>	<b>1-3</b>	<b>3-40</b>	<b>1%</b>
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In annual cropping systems, apply 1 to 2 quarts of this product per acre. Apply 1 quart of this product in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre. In noncrop or areas where annual tillage is not practiced (no-till), apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre.

For best results, apply when most plants have reached the boot-to-head stage of growth or in the fall prior to frost. Do not tank mix with residual herbicides when using 1 quart of this product per acre.

<b>Smartweed, swamp</b>	<b>3-5</b>	<b>3-40</b>	<b>2%</b>
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Apply when most plants have reached the early bud stage of growth. Also for control, apply 16 fluid ounces of this product plus 0.5 pound a.i. 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall.

<b>Southistle, perennial</b>	<b>2-3</b>	<b>3-40</b>	<b>2%</b>
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Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing, or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage.

<b>Spurge, leafy</b>	<b>-</b>	<b>3-10</b>	<b>2%</b>
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For suppression, apply 16 fluid ounces of this product plus 0.5 pound a.i. 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall. If mowing has occurred prior to treatment, apply when most of the plants are 12 inches tall.

<b>Starthistle, yellow</b>	<b>2</b>	<b>10-40</b>	<b>2%</b>
Best results are obtained when applications are made during the rosette, bolting, and early flower stages.			
<b>Sweet potato, wild</b>	-	-	<b>2%</b>
For partial control, apply to plants that are at or beyond the bloom stage of growth. Repeat applications may be required.			
<b>Thistle, artichoke</b>	-	-	<b>2%</b>
For partial control, apply to plants that are at or beyond the bloom stage of growth. Repeat applications may be required.			
<b>Thistle, Canada</b>	<b>2-3</b>	<b>3-40</b>	<b>2%</b>
Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing, or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage.			
For suppression, apply 1 quart of this product or 1 pint of this product plus 0.5 pound a.i. 2,4-D, in 3 to 10 gallons of water per acre in the late summer or fall after harvest, mowing, or tillage. Allow rosette regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as leaves are still green and plants are actively growing at the time of application. Allow 3 or more days after application before tillage.			
<b>Timothy</b>	<b>2-3</b>	<b>3-40</b>	<b>2%</b>
For best results, apply when most plants have reached the boot-to-head stage of growth.			
<b>Torpedograss</b>	<b>4-5</b>	<b>3-40</b>	<b>2%</b>
For partial control, apply when most plants are at or beyond the seedhead stage of growth. Repeat applications will be required to maintain control. Fall treatments must be applied before frost.			
<b>Trumpet creeper</b>	<b>2</b>	<b>5-10</b>	<b>2%</b>
For partial control, apply in late September or October to plants that are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least 1 week before a killing frost.			
<b>Vaseygrass</b>	<b>3-5</b>	<b>3-20</b>	<b>2%</b>
Apply when most plants are in the early head stage.			
<b>Velvetgrass</b>	<b>3-5</b>	<b>3-20</b>	<b>2%</b>
Apply when most plants are in the early head stage.			
<b>Wheatgrass, western</b>	<b>2-3</b>	<b>3-40</b>	<b>2%</b>
For best results, apply when most plants have reached the boot-to-head stage of growth.			

#### **Perennial Weeds-Bromus Species and Medusahead**

For use only in the states of Colorado, Idaho, Iowa, Kansas, Montana, Nebraska, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming.

**Bromus Species:** This product may be used to treat downy brome (*Bromus tectorum*), Japanese brome (*Bromus japonicas*), soft chess (*Bromus mollis*), and cheat grass (*Bromus secalinus*) found in industrial, rangeland, and pasture sites. Apply 8 to 16 fluid ounces of product per acre on a broadcast basis. For best results, treatment should coincide with early seedhead emergence of the most mature plants. Delaying the application until this growth stage will maximize the emergence of other weedy grass flushes. Make applications to the same site each year until seedbanks are depleted and the desirable perennial grasses are able to become reestablished on the site.

**Medusahead:** To treat medusahead, apply 16 fluid ounces of this product per acre as soon as plants are actively growing and prior to the 4-leaf stage. Make applications in fall or spring.

**Application Equipment and Techniques:** Make applications using aerial or ground equipment. Aerial applications for these uses may be made using fixed wing or helicopter equipment. For aerial applications, apply in 2 to 10 gallons of water per acre. For ground applications, apply in 10 to 20 gallons of water per acre.

When applied as directed, there are no grazing restrictions.

**WOODY BRUSH AND TREES RATE TABLE**  
(Alphabetically by Species)

Apply this product 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. Best results are obtained when application is made in late summer or fall after fruit formation.

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.

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. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Reduced performance may result if fall treatments are made following a frost.

Unless otherwise directed, apply broadcast treatments in 3 to 40 gallons of water per acre. Ensure thorough coverage when using hand-held equipment. Symptoms may not appear prior to frost or senescence with fall treatments.

Weed Species	Rate (Qt/A)	Hand-Hand % Solution	
Alder	3-4	1-1.5%	For control.
Ash	2-5	1-2%	Partial control.
Aspen, quaking	2-3	1-1.5%	For control.
Bearmat (Bearclover)	2-5	1-2%	Partial control.
Beech	2-5	1-2%	Partial control.
Birch	2	1%	For control.
Blackberry	3-4	1-1.5%	For control. Make applications after plants have reached full leaf maturity. Best results are obtained when applications are made in late summer or fall. Applications may also be made after leaf drop and until a killing frost or as long as stems are green. After berries have set or dropped in late fall, blackberry can be controlled by applying a 0.75-percent solution of this product. For control of blackberries after leaf drop and until killing frost or as long as stems are green, apply 3 to 4 quarts of this product in 10 to 40 gallons of water per acre.
Blackgum	2-5	1-2%	For control.
Bracken	2-5	1-2%	For control.
Broom; French, Scotch	-	1.5-2%	For control.
Buckwheat, California	-	1-2%	Partial control. Thorough coverage of foliage is necessary for best results.
Cascara	2-5	1-2%	Partial control.
Catsclaw	-	1-1.5%	Partial control.
Ceanothus	2-5	1-2%	Partial control.
Chamise	-	1%	For control. Thorough coverage of foliage is necessary for best results.
Cherry; bitter, black, pin	2-3	1-1.5%	For control.
Coyote brush	-	1.5-2%	For control. Apply when at least 50 percent of the new leaves are fully developed.
Dogwood	2-5	1-2%	Partial control.
Elderberry	2	1%	For control.
Elm	2-5	1-2%	Partial control.
Eucalyptus	-	2%	For control of eucalyptus resprouts, apply when resprouts are 6- to 12-feet tall. Ensure complete coverage. Avoid application to drought-stressed plants.
Florida holly, (Brazilian Peppertree)	2-5	1-2%	Partial control.
Gorse	2-5	1-2%	Partial control.
Hasardia	-	1-2%	Partial control. Thorough control of coverage of foliage is necessary for best results.
Hawthorn	2-3	1-1.5%	For control.
Hazel	2	1%	For control.
Hickory	2-5	1-2%	Partial control.
Honeysuckle	3-4	1-1.5%	For control.
Hornbeam, American	2-5	1-2%	Partial control.
Kudzu	4	2%	For control. Repeat applications may be required to maintain control.
Locust, black	2-4	1-2%	Partial control.
Madrone resprouts	-	2%	Partial control. Apply to resprouts that are 3- to 6-feet tall. Best results are obtained with spring/early summer treatments.
Manzanita	2-5	1-2%	Partial control.

Maple, red	2-4	1-1.5%	For control. Apply a 1- to 1.5-percent solution when at least 50 percent of the new leaves are fully developed. For partial control, apply 2 to 4 quarts of this product per acre.
Maple, sugar	-	1-1.5%	For control. Apply when at least 50 percent of the new leaves are fully developed.
Monkey flower	-	1-2%	Partial control. Thorough coverage of foliage is necessary for best results.
Oak; black, white	2-4	1-2%	Partial control.
Oak, post	3-4	1-1.5%	For control.
Oak; northern, pin	-	1-1.5%	For control. Apply when at least 50 percent of the new leaves are fully developed
Oak; southern, red	2-3	1-1.5%	For control.
Persimmon	2-5	1-2%	Partial control.
Pine	2-5	1-2%	For control.
Poison ivy/Poison oak	4-5	2%	For control. Repeat applications may be required to maintain control. Fall treatments must be applied before leaves lose green color.
Poplar, yellow	2-5	1-2%	Partial control.
Redbud, eastern	2-5	1-2%	For control.
Rose, multiflora	2	1%	For control. Treatments should be made prior to leaf deterioration by leaf-eating insects.
Russian olive	2-5	1-2%	Partial control.
Sage, black	-	1%	For control. Thorough coverage of foliage is necessary for best results.
Sage, white	2-5	1-2%	Partial control.
Sage brush, California	-	1%	For control. Thorough coverage of foliage is necessary for best results.
Salmonberry	2	1%	For control.
Saltcedar	2-5	1-2%	For control.
Sassafras	2-5	1-2%	Partial control.
Sourwood	2-5	1-2%	Partial control.
Sumac; poison, smooth, winged	2-4	1-2%	Partial control.
Sweetgum	2-3	1-1.5%	For control.
Swordfern	2-5	1-2%	Partial control.
Tallowtree, Chinese	-	1%	For control. Thorough coverage of foliage is necessary for best results
Tan oak resprouts	-	2%	Partial control. Apply to resprouts that are less than 3- to 6-feet tall. Best results are obtained with fall applications.
Thimbleberry	2	1%	For control.
Tobacco, tree	-	1-2%	Partial control.
Trumpet creeper	2-3	1-1.5%	For control.
Vine maple	2-5	1-2%	Partial control.
Virginia creeper	2-5	1-2%	For control.
Waxmyrtle, southern	2-5	1-2%	Partial control.
Willow	3	1%	For control.

## STORAGE AND DISPOSAL

### PESTICIDE STORAGE

Do not contaminate water, foodstuffs, feed, or seed by storage or disposal.

**PESTICIDE STORAGE:** Store above 10°F (-12°C) to keep product from crystallizing. Crystals will settle to the bottom. If allowed to crystallize, place in a warm room at 68°F (20°C) for several days to redissolve and roll or shake container or recirculate in mini-bulk or bulk container to mix well before using.

Keep container closed to prevent spills and contamination.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state, or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

### CONTAINER HANDLING:

**Nonrefillable Container (five gallons or less):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Refillable Container:** Refillable container. Refill this container with glyphosate only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

### LIMITATION OF WARRANTY AND LIABILITY

Read the entire direction for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES, and LIMITATIONS OF LIABILITY.**

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Control Solutions, Inc. All such risks shall be assumed by the user or buyer.

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**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Control Solutions, Inc election, the replacement of product.

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## Notes



**QUALI-PRO®**



# Glyphosate Plus

## Herbicide

Non-selective, broad-spectrum weed control for many cropping systems, farmsteads, and Conservation Reserve Program acres; Selective broad-spectrum weed control in Roundup Ready® crops; Noncrop and Industrial Sites

**ACTIVE INGREDIENT:** % BY WT.

\*Glyphosate, N-(phosphonomethyl)glycine,  
in the form of its isopropylamine salt: ..... **41.0%**

**OTHER INGREDIENTS:** ..... **59.0%**

**TOTAL:** ..... **100.0%**

\*Contains 480 grams per liter or 4 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 356 grams per liter or 3 pounds per U.S. gallon of the acid, glyphosate.

**KEEP OUT OF  
REACH OF CHILDREN  
CAUTION**

**EPA Reg. No. 53883-319  
EPA Est. No. 084840-LA-001**

**Net Contents: 2.5 GALLONS**



**ADAMA**

Manufactured for:

**Control  
Solutions Inc.**

5903 Genoa-Red Bluff, Pasadena, TX 77507

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Consumer and Professional Solutions

EPA101812