GLYPHOSATE		
	Glyfos [®] X-'	IRA
	Herbicide	
		TEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS ADY◎ CROPS), DESIRABLE PLANTS AND TREES, BECAUSE
	Herbicide for Roundup Ready [®] Crops	
	Selective broad-spectrum weed control in Roundup Ready crops. Non-selecti Conservation Reserve Program acres.	ve, broad-spectrum weed control for many cropping systems, farmsteads and
	Not all products recommended on this label are registered for use in California	a. Check the registration status of each product in California before using.
	THIS IS AN END-USE PRODUCT. CHEMINOVA DOES NOT INTEND AND I TAINER LABEL FOR REPACKAGING LIMITATIONS.	HAS NOT REGISTERED IT FOR REFORMULATION. SEE INDIVIDUAL CON-
	ACTIVE INGREDIENT: *Glyphosate (N-(phosphonomethyl) glycine) in the form of its isopropylamine s INERT INGREDIENTS:	salt
	TOTAL: Contains 480 grams per liter or 4 pounds per U.S. gallon of the active ingredie per liter or 3 pounds per U.S. gallon of the acid, glyphosate.	
	KEEP OUT OF RE	ACH OF CHILDREN
	WARNING	AVISO
	Si usted no entiende la etiqueta, busque a alg	uien para que se la explique a usted en detalle. d someone to explain it to you in detail.)
		ENCY INVOLVING THIS PRODUCT, DR NIGHT, 1-866-303-6950
	Read the DISCLAIMER statement at the end of the label before bu	luct. Use only according to label instructions. ying or using. If terms are not acceptable, return at once unopened. IONARY STATEMENTS AND USE DIRECTIONS.
	EPA Reg. No.: 4787-23	
	Manufactured for: Authorized Representative: Cheminova A/S Cheminova, Inc. PO. Box 9 1700 Route 23 Lemvig, Denmark Wayne, NJ 07470 www.cheminova.us.com	CHEMINOVA

This is a specimen label, intended for use only as a guide in providing general information regarding use of this product. As labels are subject to revision, always carefully read and follow the label on the product container.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS KEEP OUT OF REACH OF CHILDREN WARNING! AVISO!

®Glyfos is a registered trademark of Cheminova

Causes substantial but temporary eye injury. Harmful if inhaled or absorbed through skin. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before re-use.

FIRST AID IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a Poison Control Center or doctor for treatment advice.			
IF INHALED:	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a Poison Control Center or doctor for further treatment advice. 		
IF SWALLOWED: • Call a Poison Control Center or doctor immediately for treatme advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a Poison Contro Center or doctor. • Do not give anything by mouth to an unconscious person.			
Have the product container or label with you when calling a poison control center or doc or going for treatment. You may also contact 1-866-303-6950 for emergency medical tre ment information.			

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: long sleeved shirt and long pants, shoes plus socks, and protective eyewear. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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

USER SAFETY RECOMMENDATIONS:

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
 Remove clothing immediately if pesticide gets inside. Wash thoroughly and put on clean clothing.

Domestic Animals: This product is considered to be relatively non-toxic 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.

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

Agricultural Use Requirements

Use this product only in accordance with its labeling and 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 pesti-cides. 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 such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber, 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 areenhouses

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

FOR MORE INFORMATION, CALL TOLL-FREE 1-800-548-6113

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Do not contaminate water, foodstuffs, feed or seed by storage or disposa

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 DISPOSAL (BULK AND MINIBULK) When the container is empty, replace the cap and seal all openings that have been opened during use, and return the container to the point of purchase, or to an alternate location des-ignated by the registrant at the time of purchase of this product. If not returned to the point of purchase or to a designated location, triple rinse or pressure rinse the empty contained and offer for recycling if available.

Instructions for Users and Refillers

The container must only be refilled with this pesticide product. Do Not Reuse the Con-tainer For Any Other Purpose. Do not transport if this container is damaged, leaking or obsolete. To obtain information about recycling refillable containers, contact Cheminova at 1-800-548-6113. Cleaning is not necessary prior to refilling with the same product. Clean container before final disposal. Disposal of this container must be in compliance with state and local regulations.

Instructions for Refillers

Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. If the container can not be refilled, triple rinse or pressure rinse the empty container and offer for recycling if available

FOR ALL OTHER NON-RETURNABLE / REFILLABLE CONTAINERS

Do not reuse container. Triple rinse container, then puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke

GENERAL INFORMATION

Product Description

This product is a post-emergent, systemic herbicide with no soil residue 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. 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.

Ammonium sulfate, drift control additives or dyes and colorants 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 aboveground 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 late growth stages approaching maturity. Refer to the ANNUAL WEEDS, PERENNIAL WEEDS and WOODY BRUSH AND TREES RATE TABLES for recommendations for specific weeds.

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

Sprav 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 unat-tached 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 recommended in this labeling. Mixing this product with herbicides or other materials not recom-mended on this label may result in reduced performance.

Annual Maximum Use Rate

Except as otherwise specified in a crop section of this label, the combined total of all treatments must not exceed 8 quarts of this product per acre per year. For application in non-crop sites or in tree, vine, or shrub crops, the combined total of all treatments must not exceed 10.6 quarts of this product per acre per year. 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 con-training apply to the second sec taining products does not exceed state maximum use rate.

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.

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 mix-ing or spray tank with the required amount of water. Add the recommended 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

Always predetermine the compatibility of labeled tank mixtures of this product with water car-rier by mixing small proportional quantities in advance.

- Mix labeled tank mixtures of this product with water as follows:
- Place a 20- to 35-mesh screen or wetting basket over filling port. Through the screen, fill the spray tank one-half full with water and start agitation. 1. 2.
- If ammonium sulfate is used, add it slowly through the screen into the tank. Continue agita-tion. Ensure that dry ammonium sulfate is completely dissolved in the spray tank before 3. adding other products. If a wettable powder is used, make a slurry with the water carrier, and add it SLOWLY
- 4. through the screen into the tank. Continue agitation. 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. 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. Continue filling the spray tank with water and add the required amount of this product near 7.
- the end of the filling process. Add individual formulations to the spray tank as follows: wettable powder, flowable, emulsi-fiable concentrate, drift control additive, water soluble liquid. 8.

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.

Refer to the TANK MIXING section of GENERAL INFORMATION for additional precautions. 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 Amount of Glyfos X-TRA Volume 1/2% 1% 1-1/2% 2% 5% 10						
						10%
1 Gallon	2/3 oz.	1-1/3 oz.	2 oz.	2-2/3 oz.	6-1/2 oz.	13 oz.
25 Gallons	1 pt.	1 qt.	1-1/2 qt.	2 qt.	5 qt.	10 qt.
100 Gallons	2 qt.	1 gal.	1-1/2 gal.	2 gal.	5 gal.	10 gal.
2 tablespoons = 1 fluid ounce						

For use in knapsack sprayers, it is suggested that the recommended amount of this product be mixed 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 gal-lons of water may increase the performance of this product, particularly under hard water con-ditions, drought conditions or 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 recommended 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 recommendations

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 cautionary statements and all other information appearing on the additive label. The use of drift control additives can affect spray coverage which may result in reduced performance.

APPLICATION EQUIPMENT AND TECHNIQUES

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 and High-Volume Spray Equipment – Knapsack and backpack sprayers, pump-up pressure sprayers, handguns, handwands, mistblowers*, lances and other hand-held and motorized spray equipment used to direct spray onto weed foliage.

*THIS PRODUCT IS NOT REGISTERED IN CALIFORNIA OR ARIZONA FOR USE IN MIST-BLOWERS

Selective Equipment - Recirculating sprayers, shielded and hooded sprayers, wiper applicators and sponge bars.

Injection Systems - Aerial or ground injection sprayers.

Controlled Droplet Applicators (CDA) - Hand-held or boom-mounted applicators that produce a spray consisting of a narrow range of droplet sizes

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIP-MENT CAPABLE OF DELIVERING DESIRED VOLUMES.

Aerial Equipment

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

Use the recommended rates of this herbicide in 3 to 15 gallons of water per acre unless other-wise specified on this label. Unless otherwise specified, do not exceed 1 quart per acre. Refer to the individual use area sections of this label for recommended volumes, application rates and further instructions.

For aerial application in California and Fresno County California, refer to the FOR AERIAL APPLICATION IN CALIFORNIA ONLY and FOR AERIAL APPLICATION IN FRESNO COUNTY CALIFORNIA ONLY sections of this label for specific instructions, restrictions and requirements

THIS PRODUCT PLUS dicamba TANK MIXTURES MAY NOT BE APPLIED BY AIR IN CALIFORNIA. Ensure uniform application - To avoid streaked, uneven or overlapped application, use appropriate marking devices

AERIAL SPRAY DRIFT MANAGEMENT

The following drift management requirements must be followed to avoid off-target drift move-ment from aerial applications to agricultural field crops.

- The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- Nozzles must always point backward, parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they 2. should be observed.

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift man-agement 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 erly, or under unfavorable environmental conditions (see 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 higher rated flows produce larger droplets.
- Pressure Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. 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. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most noz-zle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.
- Solid stream nozzles oriented straight back produce larger droplets than other nozzle types. **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 largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of 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 dis-placement 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 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should 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 temperature 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 move upwards 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-tar get crops) is minimal (e.g., when wind is blowing away from the sensitive areas). Avoid direct application to any body of water.

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 mainte-nance of an organic coating (paint), which meets aerospace specification MIL-C-38413, may prevent corrosion.

FOR 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. Over-the-top applications in Roundup Ready[®] corn and cotton. Refer to further label instruc-tions for Roundup Ready corn and Roundup Ready cotton for specific application instruc-tions for over-the-top applications in these crops. Preharvest in alfalfa, corn, cotton, wheat, Roundup Ready corn and Roundup Ready cortor and Roundup Ready corn and Roundup Ready corn and Roundup Ready cortor. З.
- 4. Refer to the **Glyfos X-TRA** further label instructions for Roundup Ready corn and Roundup Ready cotton and for specific preharvest application instructions for each individual crop.

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

When applied as recommended, under the conditions described, this product controls annual and perennial weeds listed in this label

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 BATES WHEN MAKING APPLICATIONS BY AIB:

1 quart per acre 2 quarts per acre		
	Alfalfa	
Corn		
Roundup Ready [®] corn		
	Cotton	
	Roundup Ready [®] cotton	
	Fallow	
	Reduced Tillage Systems	
	Pastures	
Wheat		

Aerial Equipment

Use the recommended rates of this product in 3 to 15 gallons of water per acre. Do not apply to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters.

AVOID DRIFT-DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDI-TIONS WHICH FAVOR 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.

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.

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

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations that dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure. Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

Ensure uniform application – To avoid streaked, uneven or overlapped application, use appropriate marking devices. Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. PRO-LONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR IS MOST SUSCEPTI-BLE. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion.

FOR AERIAL APPLICATION IN FRESNO COUNTY, CALIFORNIA ONLY From February 15 through March 31 Only

Applicable Area

This section 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 direction 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 Advi-sor 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 recommenda-tion 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 cal-ibrate spray equipment at intervals sufficient to insure that proper rates of herbicides and adjuvarts are being applied during commercial use. Applicator must document such calibrations and testing. Demonstration of performance at Freeno 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 Freeso County Agricultural Commissioner.

Applications at Night – Do not apply this product by air earlier than 30 minutes prior to sun-rise 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 FOR AERIAL APPLI-CATION IN CALIFORNIA ONLY section of this label.

Ground Broadcast Equipment

Use the recommended 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 recommended 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 sprav 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 recommended rates and timing, refer to the **ANNUAL WEEDS-HAND-HELD OR HIGH-**VOLUME EQUIPMENT section of this product label.

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.

In cropping systems, hooded sprayers, shielded sprayers, and wipers may be used in row middles (in between rows of crop plants) where any dripping or leaking will not contact crop foliage. Such equipment must be capable of preventing all crop contact with herbicide solutions and operated without leakage of spray mists or dripping onto crop. Wipers over-the-top of crops may be used only when specifically recommended in this product's labeling.

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 height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatments 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 When applied under the conditions described in the following paragraphs for shielded and hooded applications, this product at recommended rates will control those weeds listed in the ANNUAL WEEDS RATE TABLE and PERENNIAL WEEDS RATE TABLE sections of this label. 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. Keep shields on these sprayers adjusted to protect desirable vegetation. When applying to crops grown on raised beds, ensure that the hood is designed to completely enclose the spray solu-tion. If necessary, extend the front and rear flaps of the hoods to reach the ground in deep fur-rows. 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. Avoid operation on rough or sloping ground where the spray hoods might be raised off the ground.

Use hoods designed to minimize excessive dripping or runoff down the insides of the hoods. A single, low pressure/low drift flat-fan nozzle with an 80 to 95 degree spray angle positioned at the top center of the hood is recommended. Spray volume should be 20-30 gallons per acre. 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

When applied under the conditions described in the following paragraphs, this product CON-TROLS many weeds, including volunteer corn, Texas panicum, common rye, shattercane, sick-lepod, spanishneedles and bristly starbur; and SUPPRESSES many weeds including Florida, beggarweed, Bermudagrass, hemp dogbane, dogfennel, guineagrass, johnsongrass, milkweed silverleaf nightshade, redroot pigweed, giant ragweed, smutgrass, sunflower, Canada thistle, milk thistle, vaseygrass, 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 mph. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if 2 applications are made in

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 thor-oughly 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% solution. Apply this solution to weeds listed above in this section.

For Panel Applicators: Solutions ranging from 33 to 100% of this product in water may be used in panel wiper applicators.

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 recommended in this label when applied by conventional broadcast equipment. For vehicle-mounted CDA equipment, apply 2 to 15 gallons of water per acre.

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

ANNUAL AND PERENNIAL CROPS (Alphabetical)

NOTE: THIS SECTION GIVES GENERAL DIRECTIONS THAT APPLY TO ALL LISTED CROPS GROUPED ALPHABETICALLY BELOW. SEE THE INDIVIDUAL CROP CATEGORIES FOR SPE-CIFIC INSTRUCTIONS, PREHARVEST INTERVALS, AND ADDITIONAL PRECAUTIONS AND RESTRICTIONS

See the ROUNDUP READY CROPS section of this label for instructions for treating Roundup Ready crops

TYPES OF APPLICATIONS

Chemical Fallow, Preplant Fallow Beds, Preplant, Preemergence, At-Planting, Hooded Sprayers in Row Middles, Shielded Sprayers in Row Middles, Wiper Applications in Row Middles and Post-Harvest Treatments

GENERAL USE INSTRUCTIONS

Apply this product during fallow intervals preceding planting, prior to planting or transplanting, at-planting, or preemergent to annual and perennial crops listed in this label, except where specifically, in previously of the annual performance of the state of maximum of 8 quarts per acre per year.

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 con-trol 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.

The maximum use rates stated throughout this product's labeling apply to this product com-bined with the use of all other herbicides containing glyphosate or sulfosate as the active ingre-dient, 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.

GENERAL PRECAUTIONS, RESTRICTIONS

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 injury or destruction may result. When making preemergence and at planting applications, applications must be made before crop emergence to avoid severe crop injury. Broadcast applications made at emergence will result in injury or death to emerged seedlings. Apply before seed germination in coarse sandy soils to further minimize the risk of injury. 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.

In crops where spot treatments are allowed, do not treat more than 10% of the total field to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside the target area for the same reason.

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

Cereal and Grain Crops LABELED CROPS: Barley, Buckwheat, Millet (pearl, proso), Oats, Rice, Rye, Quinoa, Teff, Teosinte, Triticale, Wheat (all), Wild Rice.

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

TYPES OF APPLICATIONS: Those listed under ANNUAL AND PERENNIAL CROPS plus the following: Red Rice Control Prior to Planting Rice, Spot Treatment (except rice), Preharvest (Feed Barley and Wheat only), Over-the-Top Wiper Applications (Feed Barley and Wheat only). Preplant, Pre-emergence and 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.

Red rice control prior to planting rice 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.

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% 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.

Postharves

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 har-vest. Tank mixtures with 2,4-D or dicamba may be used. The individual tank mix product must be registered for use on this site.

PRECAUTIONS, RESTRICTIONS: For any crop not listed on this label, applications must be made at least 30 days prior to planting the next crop. Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation.

Preharvest (Feed Barley and Wheat only)

USE INSTRUCTIONS: This product provides weed control when applied prior to the harvest of wheat or feed barley. For wheat, apply after the hard-dough stage of grain (30% or less grain moisture). For feed barley, apply after the hard-dough stage and when the grain contains 20% moisture or less. Stubble may be grazed immediately after harvest.

This product may be applied using either aerial or ground spray equipment. For ground appli-cations, 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. Allow 7 days between application and harvest or grazing. Preharvest application is not recommended for wheat or barley grown for seed, as a reduction in germination or vigor may occur.

Over-the-Top Wiper Applications (Feed Barley and Wheat only)

USE INSTRUCTIONS: Wiper applications may be used in feed barley and wheat. To control common rye or cereal rye, apply after the weeds have headed and achieved maximum growth, when the rve 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

Corn TYPES OF CORN: Field corn, Seed corn, Silage corn, Sweet corn and Popcorn.

TYPES OF APPLICATIONS: Those listed under ANNUAL AND PERENNIAL CROPS plus the following: Preharvest

For Roundup Ready corn, see the ROUNDUP READY CROPS section of this label.

Preplant, Pre-emergence, 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: Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre. The individual tank mix product must be registered for use on this site.

2,4-D	Degree Xtra®	Harness Xtra 5.6L
Aim	Distinct™	Lariat®
Atrazine	Dual Magnum™	Lasso [®] /Alachlor
Axiom™	Dual II Magnum™	Linex [™] /Lorox [™]
Balance™	Epic™	Marksman™
Banvel [™] /Clarity [™]	Frontier™/Outlook™	Micro-Tech®
Bicep Magnum™	Fultime™	ProwI™
Bicep II Magnum™	Guardsman [™] /Leadoff [™]	Python™
Bullet®	Harness®	Simazine*
Degree®	Harness Xtra	Topnotch™

For difficult-to-control annual weeds such as fall panicum, barnyardgrass, crabgrass, shatter-cane 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 1.5 to 2 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. When using nitrogen solutions are the carrier, use rate may need to be increased for acceptable weed control.

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 by this recommendation 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.

Hooded sprayers USE INSTRUCTIONS: This product may be used through hooded sprayers for weed control between the rows of corn. Only hooded sprayers that completely enclose the spray pattern may be used. See additional instruction for the use of hooded sprayers in the **APPLICATION EQUIPMENT AND TECHNIQUES** section 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 appli-cator. 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.

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 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% 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 2 quarts 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. The individual tank mix product must be registered for use on this site.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation.

Cotton

TYPES OF APPLICATIONS: Those listed under ANNUAL AND PERENNIAL CROPS plus the following: Selective equipment, Spot treatment, Preharvest

For Roundup Ready cotton, see the ROUNDUP READY CROPS section of this label.

Preplant, Pre-emergence, At-planting

USE INSTRUCTIONS: This product may be applied 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 **SELECTIVE EQUIPMENT** part of the **APPLICA-**TION EQUIPMENT AND TECHNIQUES section of this label for information on proper use and calibration of this equipment.

Spot Treatment USE INSTRUCTIONS: For spot treatment, apply this product prior to boll opening of cotton. PRECAUTIONS, RESTRICTIONS: Do not treat more than 10% of the total field area to be har-vested. 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, PERENNIAL WEEDS and WOODY BRUSH AND TREES RATE TABLE sections of this label. Apply 1 pint to 2 quarts of this product per acre for cotton regrowth inhibition.

Up to 2 quarts of this product may be applied using either aerial or ground spray equipment. 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™, Ginstar or Prep™ to provide additional enhancement of cotton leaf drop.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between application and harvest of cotton. Preharvest application is not recommended for cotton grown for seed, as a reduction in germination or vigor may occur. THE USE OF ADDITIVES, OTHER THAN THOSE LISTED ON THIS LABEL, FOR PREHARVEST APPLICATION TO COTTON IS PROHIBITED.

Fallow Systems LABELED CROPS: This product may be applied during the fallow period prior to planting or emergence of any crop on this label.

TYPES OF APPLICATIONS: Chemical fallow, Preplant Fallow Beds, Aid-to-Tillage

Chemical Fallow

USE INSTRUCTIONS: This product may be applied 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 sup-press many perennial weeds in fallow fields. Ground or aerial application equipment may be used. Tark mixtures with 2,4-D and dicamba may be used. The individual tark mix product must be registered for use on this site. Applications up to 2 quarts per acre may be made by aerial application in fallow sites where there is sufficient buffer to prevent injury due to drift onto adiacent crops.

PRECAUTIONS, RESTRICTIONS: For any crop not listed on this label, applications must be made at least 30 days prior to planting. DO NOT APPLY DICAMBA TANK MIXTURES BY AIR IN CALIFORNIA.

Refer to 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.

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, PERENNIAL WEEDS** and **WOODY BRUSH TABLE** sections of this label.

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

16 fluid ounces of this product plus 2 to 3 fluid ounces of Goal 2XL per acre will control the following weeds with the maximum height or length indicated: 6"-common cheeseweed, ground-sel, marestail (Conyza canadensis), 12"-chickweed, London rocket, shepherdspurse.

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. Apply 12 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

Grain Sorghum (Milo)

TYPE OF APPLICATIONS: Those listed under **ANNUAL AND PERENNIAL CROPS** plus the following: Spot Treatment, Over-the-Top Wiper Applications, Preharvest.

Preplant, Pre-emergence, 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. TANK MIXTURES: Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre. The individual tank mix product must be registered for use on this site.

Atrazine	Lariat
Bicep II Magnum	Lasso
Bullet	Micro-Tech
Dual II Magnum	

For difficult-to-control annual weeds such as fall panicum, barnyard grass, crabgrass, shatter-cane 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 1.5 to 2 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. When using nitrogen solutions as the carrier, the use rate may need to be increased for acceptable weed control.

Spot Treatment, Over-the-Top 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 APPLICATORS** in the **SELECTIVE EQUIP**-MENT section of this label.

PRECAUTIONS, RESTRICTIONS: For spot treatment, do not treat more than 10% 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.

Hooded sprayers

USE INSTRUCTIONS: This product may be applied through hooded sprayers for weed control between the rows of mile. Only hooded sprayers that completely enclose the spray pattern may be used. See additional instruction for the use of hooded sprayers in the **APPLICATION** EQUIPMENT AND TECHNIQUES section of this label.

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.

PRECAUTIONS, RESTRICTIONS: Milo must be at least 12 inches tall, measured without extending leaves. Treat before milo sends tillers between the drill rows. If such tillers are contacted with the spray solution, the main plant may be killed. Contact of this product in any man-ner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the applicator. Do not graze or feed milo forage or fodder fol-lowing applications of this product through hooded sprayers. Do not apply more than 1 quart of this product per acre per application and no more than 3 guarts per acre per year for hooded sprayer applications.

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. As with other herbicides that cause sudden plant death, avoid preharvest applications of this prod-uct to milo infected with charcoal rot as lodging can occur. Allow a minimum of 7 days between application and harvest of sorghum. Preharvest application is not recommended for sorghum grown for seed, as a reduction in germination or vigor may occur. 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 har-vest. Tank mixtures with 2,4-D or dicamba may be used. The individual tank mix product must be registered for use on this site.

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: Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation.

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, Cat-nip, Celery seed, Chervil (dried), Chive, Chinese chive, Cilantro (leaf), Cilantro (seed), Cinnamon, Clary, Clove buds, Control (clantro or Chinese parsley), Contacto (cal, clantro), Cost-mary, 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), Revican oregano, Mioga flower, Mustard (seed), Make, Wangyota, Majorani (midding oregano), Mexican oregano, Mioga flower, Mustard (seed), Nasturitum, Nutmeg, Parsley (dried), Penny-royal, 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 under ANNUAL AND PERENNIAL CROPS plus the following: Over-the-Top Wiper Applications (Peppermint and Spearmint only), Spot Treatments (Peppermint and Spearmint only)

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, which could cause crop injury, from the plastic prior to planting. Residues can be removed by a sin-gle 0.5-inch application of water, either by natural rainfall or via a sprinkler system. For some crops below, it is recommended to make applications 3 days before transplanting or planting.

Over-the-Top Wiper Applications, Spot Treatments (Peppermint and Spearmint Only) USE INSTRUCTIONS: This product may be used as a spot treatment or wiper application in spearmint and peppermint. 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: Allow at least 7 days between applications and harvest. Further applications may be made in the same area at 30-day intervals. In spot treatment applica-tions, no more than 10% 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 out-side the target area for this reason. In wiper applications, contact of the herbicide solution with the crop may result in damage or destruction.

Oil Seed Crops

LABELED CROPS: Borage, Buffalo gourd (seed), Canola, Crambe, Flax, Jojoba, Lesquerella, Meadowfoam, Mustard (seed), Rape, Safflower, Sesame, Sunflower

For Roundup Ready canola, see the ROUNDUP READY CROPS section of this label.

TYPES OF APPLICATIONS: Those listed under ANNUAL AND PERENNIAL CROPS

USE INSTRUCTIONS: This product may be applied before, during or after planting oil seed crops. Broadcast applications must be made prior to emergence of the listed oil seed crops. Wiper applicators or hooded sprayers may be used between the rows once the crop is established.

TANK MIXTURES: For sunflowers, a tank mixture with Prowl may be applied before, during or after planting in conventional tillage systems, into a cover crop, established sod or in previous crop residue

PRECAUTIONS, RESTRICTIONS: Do not apply more than 2 quarts of this product per acre on canola. Do not apply more than 1 quart of this product per acre for sunflowers as a single preplant or preemergent application per year. Do not feed or graze sunflower forage following application of this product.

Soybeans

TYPES OF APPLICATIONS: Those listed under ANNUAL AND PERENNIAL CROPS plus the following: spot treatment, preharvest, selective equipment.

For Roundup Ready soybeans, see the ROUNDUP READY CROPS section of this label.

Preplant, Pre-emergence and 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: Apply these tank mixtures in 10 to 20 gallons of water per acre.

Aim™ Dual II Magnum Micro-Tech

Amplify™ Firstrate[™] Flexstar[™] Assure II™ Authority™ Frontier™/Outlook™ Fusion™ Boundary™ Canopy™ Gauntlet™ Canopy XL™ Command™ Lasso Linex™ Command Xtra™ Lorox/Linuron Domain™ Lorox Plus[™] Dual Magnum

Prowl Pursuit™ Pursuit Plus Reflex[™] Scepter™ Sencor™/Lexone™ Squadron™ Steel™ Valor™

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. The individual tank mix product must be registered for use on this site. For difficult-to-control annual weeds such as fall panicum, barnyardgrass, crabgrass, shatter-cane 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 1.5 to 2 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% 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: This product provides weed control when applied prior to harvest of soybeans

Apply at rates given in the **ANNUAL WEEDS**, **PERENNIAL WEEDS** and **WOODY BRUSH AND TREES RATE TABLES**. This product may be applied using either aerial or ground spray equipment. 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 5 QUARTS PER ACRE OF THIS PRODUCT FOR PREHAVEST APPLICATIONS. DO NOT APPLY MORE THAN'S QUART SPERACRE OF THIS PRODUCT FOR PREHAVEST APPLICATIONS. DO NOT APPLY MORE THAN 2 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 hay or fodder for livestock feed within 25 days of last preharvest application. (If the application rate is 1 quart per acre or lower, the grazing restric-tion is reduced to 14 days after last preharvest application.) Preharvest application is not recom-mended for soybeans grown for seed, as a reduction in germination or vigor may occur.

Selective Equipment USE INSTRUCTIONS: This product may be applied through recirculating sprayers, shielded applicators, hooded sprayers, 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 APPLICA-TION EQUIPMENT AND TECHNIQUES section of this label for information on proper use and calibration of this equipment.

Sugarcane TYPES OF APPLICATIONS: Those listed in the ANNUAL AND PERENNIAL CROPS section.

Preplant, Pre-emergence, At-Planting 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% 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 stub-ble of ratoon cane. For removal of last stubble of ratoon cane, apply 4 to 5 guarts 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. Ground or aerial equipment may be used. Applications up to 3 quarts per acre may be made by aerial application in fallow sites where there is sufficient buffer to prevent injury due to drift onto adjacent crops. Tank mixtures with 2,4-D and dicamba may be used. The individual tank mix product must be registered for use on this site.

Hooded Sprayers USE INSTRUCTIONS: This product may be used through hooded sprayers for weed control between rows of sugarcane. See the **APPLICATION EQUIPMENT AND TECHNIQUES** sec-

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.

Vegetable Crops

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

TYPES OF APPLICATIONS: Chemical Fallow, Preplant Fallow Beds, Preplant, Preemergence, Prior to Transplanting Vegetables, At-Planting, Hooded Sprayers in Row Middles, Shielded Sprayers in Row Middles, Wiper Applications in Row Middles, and Post-Harvest, Directed Applications (Non-Bearing Ginseng), Over-the-Top Wiper Applications (Rutabagas Only).

PRECAUTIONS, RESTRICTIONS: When applying this product prior to transplanting or directseeding crops into plastic mulch, care must be taken to remove residues of this product, which could cause crop injury, 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 should be taken to insure that the wash water flushes off the plastic mulch and does not enter 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 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 injury. In crops with vines, hooded sprayer, shielded sprayer and wiper applications to row middles should be made prior to vine development othsprayer and wiper applications to row middles should be involute prior to wine development our-erwise severe injury or destruction may result. Unless otherwise specified in this product's label-ing, 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 the **APPLICATION EQUIPMENT AND TECHNIQUES** section of this label for additional information.

Brassica Vegetables

LABELED CROPS: Broccoli, Chinese Broccoli (gai lon), Broccoli raab (rapini), Brussels sprouts, Cabbage, Chinese cabbage (bok choy), Chinese cabbage (napa), Chinese mus-tard cabbage (gai choy), Cauliflower, Cavalo broccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens.

Bulb Vegetables LABELED CROPS: Garlic, Great-headed garlic, Leek, Onion (dry bulb and green), Welsh onion. Shallot.

Cucurbit Vegetables and Fruits LABELED CROPS: Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Edible gourd (includes hyotan, cucuzza, hechima, Chinese okra), Melons (all), <u>Momordica</u> spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber), Muskmelon (includes cantaloupe, casaba, crenshaw melon, golden per-shaw melon, honeydew melon, honey ball melon, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake 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

PRECAUTIONS, RESTRICTIONS: For Cantaloupe, Casaba melon, Crenshaw melon, Cucumber, Gherkin, Gourds, Honeydew melon, Honey ball melon, Mango melon, Melons (all), Muskmelon, Persian melon, Pumpkin, Squash (summer, winter), and Watermelon, allow at least 3 days between application and planting.

Leafy Vegetables

LABELED CROPS: Amaranth (Chinese spinach), Arugula (roquette), Beet greens, Cardoon, Celery, Chinese celery, Celtuce, Chaya, Chervil, Edible-leaved chrysanthemum, Garland chrysanthemum, Corn salad, Cress (garden and upland), Dandelion, Dock (sorrel), Dokudami, Endive (escarole), Florence fennel, Gow kee, Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radicchio (red chicory), Rhubarb, Spinach, New Zealand spinach, Vine spinach, Swiss chard, Watercress (upland), Water spinach.

PRECAUTIONS, RESTRICTIONS: For Watercress, avoid applications within 3 days prior to seeding and during the period between seeding and emergence to minimize the risk of injury.

Fruiting Vegetables

LABELED CROPS: Eggplant, Groundcherry (*Physalis* spp), Pepino, Pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, Tomato.

PRECAUTIONS, RESTRICTIONS: For Eggplant, Ground cherry, Pepper (all), and Tomatillo, allow at least 3 days between application and planting. For Tomato, hooded or shielded sprayer applications in row middles are not recommended.

Sprayer applications in row mitodies are not recommended. Legume Vegetables (succulent or dried) LABELED CROPS: Bean (*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, blackeyed 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, Pea (*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.

Root and Tuber Vegetables

LABELED 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, Horse-radish, Leren, Kava (turnip-rooted), Parsley, Parsnip, Potato, Radish, Oriental radish, Rutabaga, Salsify, Black salsify, Spanish salsify, Skirret, Sweet potato, Tanier, Turmeric, Turnip, Wasabi, Yacon, 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. 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: Direct applications so that there is no contact of this product with the ginseng plant. Applications must be made at least one year prior to harvest

Over-the-Top Wiper Applications (Rutabagas Only) USE INSTRUCTIONS: Wiper applicators may be used over-the-top of rutabagas.

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

Miscellaneous Crops

LABELED CROPS: Aloe vera, Asparagus, Bamboo shoots, Globe artichoke, Okra, Peanut (ground nut), Pineapple, Strawberry, Sugar beet.

TYPES OF APPLICATIONS: Those listed in the **ANNUAL AND PERENNIAL CROPS** section plus the following: General weed control, Site preparation, Spot Treatment (Asparagus).

PRECAUTIONS, RESTRICTIONS: Avoid contact of herbicide with foliage, green shoots or stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops because severe 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 injury. In crops with vines, hooded sprayer, shielded sprayer and wiper applications to row middles should 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-barrest or follow applications must be made at least 14 days prior to harvest. 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

General weed control, site preparation

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

PRECAUTIONS, RESTRICTIONS: When applying this product prior to transplanting or directseeding crops into plastic mulch, care must be taken to remove residues of this product, which could cause crop injury, from the plastic prior to planting. Residues can be removed by a sin-gle 0.5-inch application of water, either by natural rainfall or via a sprinkler system. Care should be taken to insure that the wash water flushes off the plastic mulch and does not enter transplant holes. Applications made at emergence will result in injury or death to emerged seedlings. Do not apply within a week before the first asparagus spears emerge. Do not feed or graze treated pineapple forage following application.

Spot Treatment (Asparagus) USE INSTRUCTIONS: This product may be applied immediately after cutting, but prior to the emergence of new spears.

Post-Harvest (Asparagus) 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 post-harvest 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.

TREE, VINE AND SHRUB CROPS (Alphabetical)

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

TYPES OF APPLICATIONS: Preplant (Site Preparation) Broadcast Sprays, General Weed Con-trol, Middles (between rows of trees, vines or bushes), Strips (within rows of trees, vines or bushes), Selective Equipment (shielded sprayers, wiper treatments), Directed Sprays, Spot Treatments, Perennial Grass Suppression, Cut Stump.

Applications may be made with boom equipment, CDA equipment, shielded sprayers, handheld and high-volume wands, lances, orchard guns or with applicator equipment, except as directed.

GENERAL USE INSTRUCTIONS

This product may be applied in middles (between rows of trees or vines), strips (within rows of trees or vines) and for general weed control or perennial grass suppression in established tree fruit and nut groves, orchards, berries and vineyards. It may also be used for site preparation prior to planting or transplanting these crops. Apply 1 pint to 5 quarts per acre according to the **ANNUAL WEEDS** and **PERENNIAL WEEDS RATE TABLES** sections of this label. Utilize rates at the higher end of the recommended rate range when weeds are stressed, growing in dense populations or are greater than 12 inches tall. Repeat applications may be made up to a maximum of 10.6 quarts per acre per year.

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 ingre-dient, 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.

GENERAL PRECAUTIONS, RESTRICTIONS

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. Avoid applications when recent pruning wounds or other mechanical injury has occurred. Contact of this product with other than matured brown bark can result in serious crop damage or destruction. Only shielded or directed sprayers may be used in crops with potential for crop contact, and then only where there is sufficient clearance. For applications in strips (within rows contact, and then only where there is sumicient clearance. For applications in sinjs (within rows of trees), only selective equipment (directed sprays, hooded sprayers, shielded applicators or wipers) should be used to minimize the potential for leakage or drift of herbicide sprays onto crop. For berry crops, hooded or shielded sprayers must be fully enclosed including top, sides, front and back. Only wipers or shielded applicators capable of preventing all contact with crop may be used. See **APPLICATION EQUIPMENT AND TECHNIQUES** section of this label for additional directions and precautions.

Allow a minimum of 3 days between application and transplanting.

Middles (between rows of trees, vines or bushes) USE INSTRUCTIONS: This product will control or suppress annual and perennial weeds and ground covers growing between the rows of labeled tree 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 may be used for annual weeds in middles between rows of citrus crops, tree fruits, tree nuts and vine crops. This mixture is recommended 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 will control annual weeds per acte of this product plus s to 12 hold outces per acte of data 2xL will control almuda weeds with a maximum height or diameter of 6 inches, including crabgrass, common groundsel, jun-glerice, common lambsquarters, redroot pigweed, London rocket, common groundsel, jun-herdspurse, annual sowthistle, filaree (suppression), horseweed/marestail (*Conyza canadensis*), stinging nettle and common purslane (suppression). 16 to 32 fluid ounces per acre of this prod-uct plus 3 to 12 fluid ounces per acre of Goal 2XL will control common cheeseweed (malva) or hairy fleabane (*Conyza bonariensis*) with a maximum height or diameter of 3 inches.

Strips (in rows of trees, vines or bushes)

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

Devrinol™ 50DF	Prowl	Sim-Trol™ 4L
Direx™ 4L	Princep Caliber™ 90	Solicam™ DF
Goal 2XL	Simazine 4L	Surflan™ AS
Karmex DF	Simazine 80W	Surflan 75W
Krovar I		

Do not apply these tank mixtures in Puerto Rico.

Refer to the individual product labels for specific crops, rates, geographic restrictions and precautionary statements

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 green-up 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 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 to the 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 green-up. If the Bermudagrass is mowed prior to application, maintain a min-mum 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, rates of 6 to 10 fluid ounces of this product per acre should be used in shaded conditions or where a lesser degree of suppression is desired.

Cut Stump (Tree crops)

USE INSTRUCTIONS: Cut stump applications of this product may be made during site prepa-ration 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.

<u>Citrus Trees:</u> Calamondin, Chironja, Citron, Citrus hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (Tangerine), Orange (all), Pummelo, Tangelo, Tangor.

<u>Fruit Trees:</u> 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 erformance. For best results, applications should be made during periods of active growth and full leaf expansion.

PRECAUTIONS, 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.

Berry Crops

LABELED CROPS: Blackberry (including bingleberry, black satin berry, boysenberry, Cherokee blackberry, chesterberry, Cheyenne blackberry, coryberry, darweberry, dewberry, Dirksen thornless berry, Himalayaberry, hulberry, juneberry, lavacaberry, lowberry, lowcery, larven berry, nectarberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, raven-berry, rossberry, Shawnee blackberry and youngberry), Blueberry, Cranberry, Currant, Elder-berry, Gooseberry, Huckleberry, Loganberry, Raspberry (black, red), Salal.

TYPES OF APPLICATIONS: Those listed in the TREE, VINE AND SHRUB CROPS section plus Spot Treatment in Cranberry Production and Post-Harvest Treatments in Cranberry Production.

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. Do not make directed sprays within the cran-berry bush areas prior to berry harvest.

Spot Treatment in Cranberry Production

USE INSTRUCTIONS: Spot treatments may be used to control weeds growing in dry ditches (intefor and perimeter) of cranberry production areas. Hand-held sprayers or other appropriate appli-cation equipment listed under **APPLICATION EQUIPMENT AND TECHNIQUES** in this label may be used. Drop water level to remove standing water in ditches prior to application. In handheld sprayers, use 1 to 2 percent solution of this product. Spray to wet vegetation, not to runoff. PRECAUTIONS, RESTRICTIONS: For treatments after draw down of water in dry ditches, allow 2 or more days after treatment before reintroduction of water to achieve maximum weed control. Apply this product within 1 day after draw down to ensure application to actively growing weeds. Allow a minimum of 30 days between last application and harvest of cranberries. Do not apply this material through the irrigation system. Do not make applications by air. Do not apply directly to water. Use nozzles that emit medium- to large-sized droplets to minimize drift in order to avoid crop injury.

Post-Harvest Treatments in Cranberry Production

USE INSTRUCTIONS: Application of this product may be made after the harvest of cranberries to control weeds growing within the field. Best results will be obtained if applications are made to vines that appear dormant (after they have turned red). Hand-held sprayers, wipers, or other appropriate application equipment listed under **APPLICATION EQUIPMENT AND TECH-NIQUES** in this label may be used. If using hand-held sprayers, use 0.5 to 1 percent solution of this product. Spray to wet vegetation, not to runoff. If using hand-held boom sprayers, apply 2 to 4 quarts of this product per acre.

PRECAUTIONS, RESTRICTIONS: Make applications only after cranberries have been har-vested. Do not treat more than 10 percent of the total bog. Allow a minimum of 6 months after last application and next harvest of cranberries. Do not apply this product through the irrigation system. Do not make applications by air. Do not apply directly to water. Even though vines appear dormant, contact of the herbicide solution with desirable vegetation may result in damage or severe plant injury. Cranberry plants that are directly sprayed may be killed.

Citrus

LABELED CROPS: Calamondin, Chironja, Citron, Citrus Hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (all), Pummelo, Satsuma Mandarin, Tangelo (ugli), Tangor. TYPES OF APPLICATIONS: Those listed in the TREE, VINE AND SHRUB CROPS section.

USE INSTRUCTIONS: (The recommendations below pertain to applications in Florida and Texas): For burndown or control of the weeds listed below, apply the recommended rates of this product in 3 to 30 gallons of water per acre. Where weed foliage is dense, use 10 to 30 gallons of water per acre.

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 best 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™ I or Karmex™ may improve control. Refer to the individual product labels for specific crops, rates, geographic restrictions and precautionary statements.

Perennial Weeds:

S = Suppression PC = Partial Control B = Burndown C = Control

	GLYFOS X-TRA RATE PER ACRE				
WEED SPECIES	1 QT	2 QT	3 QT	5 QT	
Bermudagrass	В	-	PC	С	
Guineagrass					
Texas and Florida Ridge	В	С	С	С	
Florida Flatwoods	-	В	С	С	
Paragrass	В	С	С	С	
Torpedograss	S	_	PC	Ċ	

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 1 day between last application and harvest in citrus crops. For citron groves, apply as directed sprays only

Miscellaneous Tree Food Crops LABELED CROPS: Cactus (fruit and pads), Palm (heart, leaves), Palm (oil).

TYPES OF APPLICATIONS: Those listed in the TREE, VINE AND SHRUB CROPS section.

Non-Food Tree Crops LABELED CROPS: Pine, Poplar, Eucalyptus, Christmas Trees, Other Non-Food Tree Crops. TYPES OF APPLICATIONS: Those listed in the TREE, VINE AND SHRUB CROPS section.

Directed Sprays, Spot Treatment, Wiper Applications USE INSTRUCTIONS: This product may be used as a post-directed spray and spot treatment around established poplar, eucalyptus, Christmas trees and other non-food tree crops.

PRECAUTIONS, RESTRICTIONS: Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of established Christmas trees and other pine trees. 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 AND OTHER PINE TREES

Site Preparation

USE INSTRUCTIONS: This product may be used prior to planting non-food tree crops PRECAUTIONS, RESTRICTIONS: Precautions should be taken to protect non-target plants during site preparation applications

Pome Fruit

LABELED CROPS: Apple, Crabapple, Loquat, Mayhaw, Pear (including oriental pear), Quince. TYPES OF APPLICATIONS: Those listed in the TREE, VINE AND SHRUB CROPS section. PRECAUTIONS, RESTRICTIONS: Allow a minimum of 1 day between last application and harvest in pome crops

Stone Fruit

LABELED CROPS: Apricot, Cherry (sweet, tart), Nectarine, Olive, Peach, Plum/Prune (all types), Plumcot

TYPES OF APPLICATIONS: Those listed in the TREE, VINE AND SHRUB CROPS section.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 17 days between last application and harvest in stone fruit crops. For olive groves, apply as directed sprays only.

Restrictions on Application Equipment For cherries, any application equipment listed in this section may be used in all states.

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 dam-age. 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 NO PART OF THE PEACH TREE IS CONTACTED.

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: Those listed in the TREE, VINE AND SHRUB CROPS section.

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 in coconut.

Tropical and Subtropical Trees and Fruits

Iropical 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, Ilama, Imbe, Jaboticaba, Jackfruit, Longan, Lychee, Mamey apple, Mango, Mangosteen, Marmaladebox (genip), Moun-tain papaya, Papaya, Pawpaw, Plantain, Persimmon, Pomegranate, Pulasan, Rambutan, Rose apple, Sapodilla, Sapote (black, mamey, white), Spanish lime, Soursop, Star apple, Sugar apple, Suriam cherry, Tamarind, Tea, Ti (roots and leaves), Wax jambu.

TYPES OF APPLICATIONS: Those listed in the TREE, VINE AND SHRUB CROPS section plus Bananacide (Banana Only).

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 1 day between last application and harvest in barana, guava, papaya and plantain crops. Allow a minimum of 14 days between last application and harvest for any other tropical or subtropical tree fruit. Allow a minimum of 28 days between last application and harvest in coffee crops. In coffee and banana, delay applications 3 months after transplanting to allow the new coffee or banana plant to become established.

Bananacide (Banana 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 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 pseu-dostem diameter. Make the injection at least one foot above the ground, except for very small plants, which should be injected vertically into the top. Any subsequent regrowth must also be destroyed. All plants and mats (or units) adjacent (within a 4-foot radius) to a treated mat shall 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 banana bunchy top virus for up to 125 days, therefore it is critical that the entire mat (or unit) containing the diseased plant be destroyed immediately.

PRECAUTIONS, RESTRICTIONS: Do not apply more than 1/2 fluid ounce (15 mL) of this prod-uct's concentrate per mat (or unit). Remove all fruit from plants and mats (or units) prior to treat-ment. 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 general weed control.

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

TYPES OF APPLICATIONS: Those listed in the TREE, VINE AND SHRUB CROPS section.

USE INSTRUCTIONS: 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 in vine crops. Do not use selective equipment in kiwi.

PASTURE GRASSES, FORAGE LEGUMES AND RANGELANDS

Alfalfa, Clover and Other Forage Legumes

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

TYPES OF APPLICATIONS: Preplant, Preemergence, At-planting, Spot Treatment (Alfalfa and Clover only), Over-The-Top Wiper Applications (Alfalfa and Clover only), Renovation, Preharvest (Alfalfa only).

Preplant, Preemergence, At-Planting

INSTRUCTIONS: This product may be applied before, during or after planting crops listed in this section. Applications must be made prior to emergence of the crop.

PRECAUTIONS, RESTRICTIONS: 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.

Spot Treatment, Over-The-Top 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 APPLICATORS 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.

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. 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. Preharvest application is not recommended for alfalfa grown for seed, as a reduction in germination or vigor may occur.

Renovation

Nenovation 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.

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 har vesting. If application rates greater than 2 quarts per acre are used, wait 8 weeks between appli-cations and grazing or harvesting.

Conservation Reserve Program (CRP)

VTPES 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 protection. Refer to Federal, state or local use guides for CRP renovation recommendations. For any crop not listed in the **CROPS** sections of this label, applications must be made at least 30 days prior to planting.

Postemergence Weed Control in Dormant CRP Grasses, Over-The-Top Wiper Appli-

Postemergence week control in Science 2014 cations USE INSTRUCTIONS: This product may be used to suppress competitive growth and seed pro-duction 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 selec-tive 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 percential grasses have reached dormancy.

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

Grass or Turfgrass Seed Production

LABELED CROPS: Any grass (Gramin listed above under CEREAL CROPS. ramineae family) except corn, sorghum, sugarcane and those

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, Site Preparation

USE INSTRUCTIONS: This product may be applied before, during or after planting or for reno-vation of turf or forage grass areas grown for seed production. Applications must be made prior to the emergence of the crop to avoid crop 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 applica-tion. 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 domes-tic livestock before application and wait 8 weeks after application before grazing or harvesting.

Shielded Sprayers

USE INSTRUCTIONS: Apply 1 to 3 quarts of this product as a broadcast spray in 10 to 20 gallons of water 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 PRECAUTIONS, RESTRICTIONS: Contact of the herbicide solution with desirable vegetation may result in damage or destruction. Applicators should be adjusted so that the wiper contact point is at least 2 inches above the desirable vegetation. Weeds should be 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 height of weeds varies so that not all weeds are contacted. In these instances, repeat treatments may be necessary. Better results may be obtained if 2 applications are made in opposite directions

Spot Treatments USE INSTRUCTIONS: Use a 1- to 1.5-percent solution.

PRECAUTIONS, RESTRICTIONS: Apply this product prior to heading of grasses. The crop receiving the spray in the treated area will be killed. Take care to avoid drift or spray outside the target area for the same reason.

Creating Rows in Annual Ryegrass

USE INSTRUCTIONS: Use 16 to 32 fluid ounces of this product per acre. Use the higher rate when the ryegrass is greater than 6 inches tall. Best results are obtained when applications are made before the ryegrass reaches 6 inches in height.

PRECAUTIONS, RESTRICTIONS: Set nozzle heights to allow the establishment of the desired row spacing while preventing spray droplets, spray fines, or drift to contact the ryegrass plants not treated. Use of low-pressure nozzles, or drop nozzles designed to target the application over a narrow band are recommended.

Grower assumes all responsibility for crop losses from misapplication.

Pastures

LABELED CROPS: Any grass (Gramineae family) except corn, sorghum, sugarcane and those listed above under CEREAL CROPS including Bahiagrass, Bermudagrass, Bluegrass, Brome, Fescue, Guineagrass, Kikuyugrass, Orchardgrass, Pangola grass, Ryegrass, Timothy, Wheatgrass.

TYPES OF APPLICATIONS: Spot Treatment, Over-The-Top Wiper Applications, Preplant, Preemergence, Pasture Renovation, Postemergent Broadcast

Spot Treatment, Over-The-Top Wiper Applications USE INSTRUCTIONS: This product may be applied as a spot treatment or with wiper applica-tors in pastures. Applications may be made in the same area at 30-day intervals.

PRECAUTIONS, RESTRICTIONS: For spot treatments or wiper application methods using rates of 3 quarts per acre or less, the entire field or any portion of it may be treated. When spot treat-ments or wiper applications are made using rates above 3 quarts per acre, no more than 10 percent of the total pasture may be treated at any one time. To achieve maximum performance, remove domestic livestock before application and wait 7 days after application before grazing livestock or harvesting.

Preplant, Preemergence, Pasture Renovation USE INSTRUCTIONS: This product may be applied prior to planting or emergence of forage grasses. In addition, this product may be used to control perennial pasture species listed on this bed prior to re planting. label prior to re-planting.

PRECAUTIONS, RESTRICTIONS: If application rates total 3 guarts 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.

Rangelands

TYPES OF APPLICATIONS: Postemergence.

USE INSTRUCTIONS: 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 should be delayed to encourage growth of desirable perennials. Allowing desirable perennials to flower and reseed in the treated area will encourage successful transition.

PRECAUTIONS, RESTRICTIONS: Do not use ammonium sulfate when spraying rangeland grasses with this product. Do not apply more than 3 quarts per acre per year

Postemergence

Apply 12 to 16 fluid ounces of this product per acre to control or suppress many weeds, includ-ing 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. Fall applications are possible, and recommended, where spring moisture is usually limited and 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 use-ful 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 re-establishing desirable perennial grasses in medusahead-dominated rangelands.

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.

Turf Grass Sod Production

TYPES OF APPLICATIONS: Preplant, Preemergence, Renovation, Site Preparation, Spot Treatments

Preplant, Preemergence, Renovation, Site Preparation

USE INSTRUCTIONS: This product controls most existing vegetation prior to renovating turf grass areas or establishing turf grass grown for 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 such as Bermuda-grass, 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.

Desirable turf grasses may be planted following the above procedures.

PRECAUTIONS, RESTRICTIONS: If application rates total 3 quarts per acre or less, no waiting period between treatment and livestock feeding or grazing is required. If the rate is greater than 3 quarts per acre, remove domestic livestock before application and wait 8 weeks after appli-cation before grazing treated turfgrass. Do not disturb soil or underground plant parts before treatment. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow translocation into underground plant parts.

Spot Treatments

Hand-held equipment may be used for spot treatment of unwanted vegetation growing in existing turf grass

ROUNDUP READY® CROPS

The following instructions include all applications which can be made onto the specified Roundup Ready crops during the complete cropping season. DO NOT combine these instruc-tions with other recommendations made for crop varieties that do not contain the Roundup Ready gene, in the **ANNUAL AND PERENNIAL CROPS (Alphabetical)** section of this label. CHEMINOVA RECOMMENDS USE OF THIS PRODUCT FOR POSTEMERGENCE APPLICATION ONLY ON CROP VARIETIES DESIGNATED AS CONTAINING THE ROUNDUP READY GENE.

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

The Boundup Beady designation indicates that the crop variety contains a patented gene that provides to be provides to this product. Roundup Ready crop varieties must be purchased from an authorized licensed seed supplier.

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 appropri-ate buffer zones will help prevent injury to adjacent vegetation.

ATTENTION: AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PROD-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.

Tank mixtures with other herbicides, insecticides, fungicides, micronutrients or foliar 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 product label, supplemental labeling or fact sheets published separately by Cheminova.

Ammonium sulfate may be mixed with this product for applications to Roundup Ready crops. Refer to the MIXING section for use instructions for ammonium sulfate

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.

NOTE: The following recommendations are based on a clean start at planting by using a burndown 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 recommended to control existing weeds prior to crop emergence. Some weeds, such as black nightshade, broadleaf sig-nalgrass, sicklepod, Texas panicum, sandbur, annual morningglory, woolly cupgrass, shattercane, wild proso millet, burcumber and giant ragweed with multiple germination times or sup-pressed (stunted) weeds may require a second application of this product for complete control. The second application should be made after some regrowth has occurred and at least 10 days after a previous application of this product.

CANOLA

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

DO NOT USE THIS PRODUCT ON CANOLA WITH THE ROUNDUP READY GENE PLANTED IN THE FOLLOWING STATES: ALABAMA, DELAWARE, FLORIDA, GEORGIA, KENTUCKY, MARY-AND, NEW JERSEY, NORTH CAROLINA, SOUTH CAROLINA, TENNESSEE, VIRGINIA AND WEST VIRGINIA

THE USE OF THIS PRODUCT FOR IN-CROP APPLICATIONS OVER ROUNDUP READY CANOLA MAY NOT BE PRACTICED IN CALIFORNIA UNLESS THE APPLICATOR HAS AT THE TIME OF APPLICATION A CALIFORNIA-APPROVED SUPPLEMENTAL LABEL SPECIFYING THE ACCEPTED DIRECTION FOR USE.

 Maximum	Allowable	Combined	Application	Quantities	Per Season	

l	Preplant, Preemergence, At-Planting applications	2 quarts/acre
	Total in-crop application from emergence to 6 leaf stage	2 quarts/acre

Preplant, Preemergence, At-Planting

USE INSTRUCTIONS: This product may be applied before, during or after planting canola

Postemergence (In-Crop)

USE INSTRUCTIONS: This product may be applied postemergence to Roundup Ready 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.

Weeds Controlled: For specific rates of application and instructions, refer to the **ANNUAL** WEEDS and **PERENNIAL WEEDS RATE TABLES** in this booklet.

Single Application - Apply 16 to 32 fluid ounces per acre no later than the 6-leaf stage for the control of annual weeds. Avoid overlapping applications which may result in tem-porary yellowing, delayed flowering, and/or growth reduction. Similar injury may result when applications of more than 16 fluid ounces per acre are applied after the 4-leaf stage.

Sequential Application – Apply 32 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 recommended for early emerging annual weeds and perennial weeds such as Canada thistle and quackgrass or when controlling weeds with multiple application times.

PRECAUTIONS, RESTRICTIONS: See the ROUNDUP READY CROPS section of this label for general precautionary instructions for use in Roundup Ready crops. No more than two over-the-top broadcast applications may be made from crop emergence through the 6-leaf stage of development and the total in-crop application should not exceed 64 fluid ounces per acre. Allow a minimum of 60 days between last application and canola harvest

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

Maximum Allowable Combined Application Quantities Pe	r Season
Combined total per year for all applications	8 quarts per acre
Preplant, At-Planting, Preemergence application	5 quarts per acre
Total in-crop application from emergence through the V8 stage or 30 inches	2 quarts per acre
Maximum preharvest application rate after maximum kernel fill is complete and the crop is physiologically mature (black layer formation) until 7 days before harvest.	1 quart per acre

USE INSTRUCTIONS: 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, Laso or Micro-Tech at 50 to 100 percent of labeled rate. Refer to the specific product label and observe all precautions and limitations on the label for any preemergence herbicide application, including application timing restrictions, soil restrictions, minimum recropping interval and rotational guidelines - the more restrictive requirements apply.

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

Postemergence (In-Crop) USE INSTRUCTIONS: This product may be applied post-emergence to Roundup Ready corn from emergence through the V8 stage (8 leaves with collars) or until corn height reaches 30 inches, whichever comes first.

When applied as directed, this product controls labeled annual grass and broadleaf weeds in Roundup Ready corn. Many perennial grasses and broadleaf weeds will be controlled or sup-pressed with one or more application of this product. The postemergent application of 24 to 32 fluid ounces per acre of this product should be made before the weeds reach a height and/or density that the weeds become competitive with the crop, generally 4 inch tall weeds or less.

This product may be applied alone as a post-emergence in-crop application to provide control of emerged weeds listed on this label. If new flushes of weeds occur, a sequential application of this product at 24 to 32 fluid ounces per acre will control the labeled grasses and broadleaf weeds

TANK MIXTURES: This product may be applied in tank mixture with a Bullet, Degree, Degree Xtra, Harness, Harness Xtra, Harness Xtra 5.6L and Micro-Tech at 50 to 100 percent of labeled rate. This product may be applied in tank mixture with Permit and Atrazine at labeled rates. Refer to the specific product label and observe all precautions and limitations on the label for all products used in tank mixtures, including application timing restrictions, soil restrictions, minimum re-cropping interval and rotational guidelines-the more restrictive requirements apply. The individual tank mix product must be registered for use on this site.

Tank mix partner	Max. height of corn for application
Degree	11 inches
Degree Xtra	
Harness	
Harness Xtra	
Harness Xtra 5.6L]
Bullet*	5 inches
Micro-Tech*	
Permit	30 inches
Atrazine	12 inches

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

PRECAUTIONS, RESTRICTIONS: See the ROUNDUP READY CROPS section of this label for PRECAUTIONS, RESTRICTIONS: See the **ROUNDUP READY CROPS** section of this label for general precautionary instructions for use in Roundup Ready crops. Single in-crop applications of this product are not to exceed 1 quart per acre. Sequential in-crop applications of this prod-uct from emergence through the V8 stage or 30 inches must not exceed 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.

Preharvest

USE INSTRUCTIONS: In Roundup Ready corn, up to 1 quart per acre of this product can be applied preharvest. 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).

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between application and harvest. Post-Harvest

USE INSTRUCTIONS: This product may be applied after harvest of corn. 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. The individual tank mix product must be registered for use on this site

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation

COTTON

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

Maximum Allowable Combined Application Quantities Per Season

Combined total per year for all applications	8 quarts per acre
Preplant, At-Planting, Preemergence application	5 quarts per acre
Total in-crop application from ground-cracking to layby	4 quarts per acre
Maximum preharvest application rate	2 quarts per acre

PRECAUTIONS, RESTRICTIONS: See the ROUNDUP READY CROPS section of this label for general precautionary instructions for use in Roundup Ready crops. The combined total appli-cation of this product from cotton emergence until 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 FOUR-LEAF (NODE) STAGE OF DEVELOPMENT. NO MORE THAN TWO APPLICATIONS SHOULD 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.

Preplant, Preemergence, At-Planting USE INSTRUCTIONS: This product may be applied before, during or after planting cotton.

Postemergence (Over-the-Top)

USE INSTRUCTIONS: This product may be applied by aerial or ground application equipment at rates up to 1 guart per acre per application 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 four 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. NO MORE THAN ONE SALVAGE TREATMENT SHOULD BE USED PER GROWING SEASON.

NOTE: For specific rates of application and instructions, refer to the **ANNUAL WEEDS** and **PERENNIAL WEEDS RATE TABLES** in this booklet.

PRECAUTIONS, RESTRICTIONS: See the ROUNDUP READY CROPS section of this label for general precautionary instructions for use in Roundup Ready crops

Selective equipment

USE INSTRUCTIONS: This product may be applied using precision post-directed or hooded sprayers at rates up to 1 quart per acre per application to Roundup Ready cotton through layby. At this stage, post-directed equipment should be used which directs the spray to the base of the cotton plants. Contact of the spray with cotton leaves should be avoided to the maximum extent possible. To minimize spray onto the leaves of the cotton plants, place nozzles in a low position directing a horizontal spray pattern under the cotton leaves to contact weeds in the row, and maintain low spray pressure (less than 30 psi). For best results, make applications while weeds are small (less than 3 inches).

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

Preharvest

USE INSTRUCTIONS: This product may be applied for preharvest annual and perennial weed control as a broadcast treatment to Roundup Ready cotton after 20 percent boll crack. Up to 2 quarts of this product may be applied using either aerial or ground spray equipment

TANK MIXTURES: This product may be tank mixed with DEF™ 6, Folex™, Ginstar or Prep™. NOTE: This product will not enhance the performance of these harvest aids when applied to Roundup Ready cotton.

PRECAUTIONS, 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. THE USE OF ADDITIVES, OTHER THAN THOSE LISTED ON THIS LABEL, FOR PREHARVEST APPLICATION TO COTTON IS PROHIBITED.

ATTENTION: USE OF THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS IS EXPECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY COTTON, HOW-EVER, 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 CASES, THESE FACTORS CAN RESULT IN BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS.

SOYBEANS

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

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 DIRECTION FOR USE.

Maximum Allowable	Combined	Application	Quantities Pe	r Season

Combined total per year for all applications	8 quarts per acre
Preplant, At-Planting, Preemergence application	5 quarts per acre
Total in-crop application from cracking throughout flowering	3 quarts per acre
Maximum preharvest application rate	1 quart per acre

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

Preplant, Preemergence, At-Planting USE INSTRUCTIONS: This product may be applied before, during or after planting soybeans. Postemergence (In-Crop)

USE INSTRUCTIONS: When applied as directed, this product will control labeled annual grasses and broadleaf weeds in Roundup Ready soybeans. Applications of this product can be made in Roundup Ready soybeans from emergence (cracking) throughout flowering. Refer to the ANNUAL WEEDS RATE TABLE in this label for rate recommendations for specific annual weeds. In general, an initial application of 1 quart per acre on 2- to 8-inch tall weeds is recom-mended. 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 heavy weed densities exist.

A 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 bindwedd, hemp dogbane, horsenettle, marestail (horsewed), nutsde, common minweed, net bindwedd, hemp dogbane, horsenettle, marestail (horsewed), nutsdegde, quackgrass, hizome johnsongrass, redvine, trumpetcreeper, 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 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, it is recommended that 1 quart per acre of this product be applied when the weed is 8 to 12 inches tall to increase control and possibly avoid the need for a sequential application.

NOTE: The use of this product for in-crop applications over Roundup Ready soybeans is not registered in California.

PRECAUTIONS, RESTRICTIONS: The combined total application from crop emergence through harvest must not exceed 3 quarts per acre. The maximum rate for any single in-crop applica-tion is 2 quarts per acre. The maximum combined total of this product that can be applied during flowering is 2 quarts per acre.

Preharvest

USE INSTRUCTIONS: This product provides weed control when applied prior to harvest of soybeans. Up to 1 quart per acre of this product can be applied by aerial or ground application. PRECAUTIONS, RESTRICTIONS: Care should 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

USE INSTRUCTIONS: 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. The individual tank mix product must be registered for use on this site.

NON-CROP USES AROUND THE FARMSTEAD

TYPES OF APPLICATIONS: General non-selective weed control, trim-and-edge, greenhouse/ shadehouse, chemical mowing, cut stumps, habitat management

General Weed Control and 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. Refer to these product labels for approved farmstead sites and application rates. For annual weeds, use 1 quart per acre of this product when weeds are less than 6 inches tall, 1.5 quarts per acre when weeds are 6 to 12 inches tall and 2 quarts per acre when weeds are greater than 12 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 the ANNUAL WEEDS-HAND HELD OR HIGH VOLUME EQUIPMENT section of this label for recommended rates. The individual tank mix product must be registered for use on this site.

Arsenal	Krovar I DF	Ronstar 50 WP
	Oust	Sahara
Banvel/Clarity		
Barricade 65 WG	Pendulum 3.3 EC	Simazine
Diuron	Pendulum WDG	Surflan
Endurance	Plateau	Telar
Escort	Princep DF	Vanguish
Karmex DF	Princep Liquid	2,4-D

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

Greenhouse / Shadehouse

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

Chemical Mowing

USE INSTRUCTIONS: This product will suppress perennial grasses listed in this section to serve as a substitute for mowing. 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, bahiagrass or quackgrass covers. Use 16 fluid ounces of this product per acre when treating Bermudagrass. Use 64 fluid ounces of this product per acre when treating tor-pedograss or paragrass. 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 Stump Treatments

TYPES OF APPLICATIONS: Treating cut stumps in any non-crop 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	Pepper, brazilian	Sweetgum
Eucalyptus	Pine, Austrian	Tan Oak
Madrone	Reed, giant	Willow
Oak	Saltcedar	

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. 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.

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

Habitat Restoration and Maintenance 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 broadspectrum vegetation control requirements in habitat management areas. Spot treatments can be made to selectively remove unwanted plants for habitat maintenance and enhancement.

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 applying this product before tilling.

ANNUAL WEEDS RATE TABLE (Alphabetically by Species)

WATER CARRIER VOLUMES OF 3 TO 10 GALLONS PER ACRE FOR GROUND APPLI-CATIONS AND 3 TO 5 GALLONS PER ACRE FOR AERIAL APPLICATIONS ARE REC-OMMENDED.

Apply to actively growing annual weeds. Annual weeds are generally easier 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. This product may be used up to 48 fluid ounces per acre where heavy weed densities exist.

ANNUAL WEEDS RATE TABLE

	16	(fluid o 24	RATE ounces pe	er acre) 40	48
WEED SPECIES		24 ximum he			
Ammannia, purple	3	6	12	-	18
Annoda, spurred	-	2	3	5	8
Barley	18	18+	-	-	-
Barnyardgrass	-	3	6	7	9
Bassia, fivehook	-	-	6	-	-
Beggarweed, Florida	-	5	8	-	-
Bittercress	12	20	-	-	-
Bluegrass, annual	10	-	-	-	-
Bluegrass, bulbous	6	-	-	-	-
Brome, downy ^{1,2}	6	12	-	-	-
Brome, Japanese	6	12	24	-	-
Browntop panicum	6	8	12	-	24
Buckwheat, wild ³	-	1	2	-	-
Burcucumber	-	6	12	-	18
Buttercup	12	20	-	-	-
Carolina geranium	-	-	4	-	9
Carpetweed	-	6	12	-	-
Cheat ²	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	-	-
Dwarfdandelion	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	-	-	6	-	10
(Conyza bonariensis)					
Fleabane, rough	3	6	12	-	-
Florida pusley	-	-	4	-	6
Foxtail, giant, bristly, yellow	6	12	20	-	-
Foxtail, Carolina	10	-	-	-	-
Foxtail, green	12	-	-	-	-
Goatgrass, jointed	6	12	-	-	-
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* (Conyza canadensis)	-	6	12	-	18
tchgrass	6	8	12	-	18
limsonweed	-	-	12	-	18
Johnsongrass, seedling	6	12	18	-	24
Junglerice		3	6	7	9

ANNUAL WEEDS RATE TABLE (cont.)

ANNUAL WEEDS RATE TABLE (cont.)					
		(fluid o	unces pe	er acre)	
	16	24	32	40	48
WEED SPECIES	Ma	ximum hei		th (in incl	
Knotweed	-	-	6	-	12
Kochia ⁴	-	3 to 6	12	-	-
Lambsquarters	-	6	12	-	20
Little barley	6	12	-	-	-
London rocket	6	-	24	-	-
Mayweed	-	2	6	12	18
Morningglory, annual (Ipomoea 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 species	-	12	18	24	-
Prickly lettuce	_	6	12	_	_
Purslane	_	_	3	-	6
Ragweed, common	_	6	12	-	18
Ragweed, giant	_	6	12	_	18
Red rice	_	_	4	_	_
Rye, volunteer/cereal ²	6	18	18+	_	_
Ryegrass	_	_	6	_	12
Sandbur, field	6	12	_	_	-
Sandbur, longspine	6	12		_	_
Shattercane	6	12	20		
	6	12	-	-	-
Shepherdspurse	0	2	4	-	8
Sicklepod	-	2	4 6	7	9
Signalgrass, broadleaf	_	-	6	-	9
Smartweed, lady's thumb	-	_		_	
Smartweed, Pennsylvania	-	-	6	-	9
Sowthistle, annual	-	-	6	-	12
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 ⁵	-	6	12	-	-
Velvetleaf	-	-	6	-	12
Virginia pepperweed	-	18	-	-	-
Waterhemp	-	-	6	-	12
Wheat ²	6	12	18	_	_
Wheat, (overwintered)	_	6	12	-	18
Wild oats	3	6	18	-	_
Wild proso millet	_	6	12	_	18
Witchgrass	_	12	_	_	_
Woolly cupgrass	_	6	12	_	_
Yellow rocket	_	12	20	_	_

¹ For control of downy brome in no-till systems, use 24 fluid ounces per acre. ² Performance is better if application is made before this weed reaches the boot stage of growth. ³ 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.

⁵ 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. The individual tank mix product must be registered for use on this site.

*For Control and Management of Glyphosate Resistant Horseweed (Marestail, Conyza Canadensis) In Cotton, Corn and Soybeans (Not registered for use in California)

COTTON Preplant

For control of horseweed, apply this product (32 fluid ounces per acre) in a tank-mix with Clar-ity® (8 fluid ounces per acre). This application must be made 21 to 35 days before planting and before horseweed reaches 6 inches in height. In order to avoid crop injury, a minimum interval of 21 days during which there is at least 1 inch of cumulative rainfall must be observed between Clarity application and planting of cotton.

Post-directed (Roundup Ready® Cotton Varieties Only)

Management of early season weed competition and the development of a crop height differen-tial between cotton and the horseweed is often achieved by a combination of preplant burndown and post emergent over-the-top and/or directed applications of Glyfos X-TRA Herbicide. These measures enhance the development of a height differential that is necessary to successfully make post-directed treatments. In-crop post-directed applications of MSMA (2 pounds active ingredient per acre) tank-mixed with diuron (0.5 to 0.75 pounds active ingredient per acre) should be made when the temperature is 80°F or higher.

SOYBEANS Preplant

Apply a tank mixture of this product (32 fluid ounces per acre) with 2,4-D (0.5 pounds a.i. per acre) before horseweed exceeds 6 inches in height. See the 2,4-D product label for time intervals that are required between application and planting. For areas where 2,4-D cannot be applied due to application restrictions or proximity to a sensitive crop, contact your local retailer. The individual tank mix product must be registered for use on this site.

In-crop (Roundup Ready Soybean Varieties Only) It is strongly encouraged that horseweed should be controlled prior to planting using recommended preplant burndown treatments. In-crop Roundup Ready soybeans, apply a tank mix-ture of this product (32 fluid ounces per acre) with Amplify™ or FirstRate™ (0.3 ounces per acre). This treatment should be used as a salvage treatment only for a horseweed infestation that was not controlled preplant. Application should be made between full emergence of the first trifoliate leaf and 50% flowering stage of soybeans. At the time of treatment, horseweed should not exceed 6 inches in height.

CORN

Preplant, At-Planting, Preemergence Apply a tank mixture of this product (32 fluid ounces per acre) plus 2,4-D (0.5 pounds a.i. of per acre) before horseweed exceeds 6 inches in height. See the 2,4-D product label for time intervals that are required between application and planting.

Atrazine (1 to 2 pounds active ingredient per acre) may be included in the tank-mixture to provide residual control. Refer to the atrazine product label for specific use instructions

The individual tank mix product must be registered for use on this site.

In-crop (Roundup Ready Corn Hybrids Only)

In-crop Roundup Ready corn, apply a tank-mixture of this product (32 fluid ounces per acre) plus Clarity (8 to 16 fluid ounces per acre) or 2,4-D (0.5 to 1.0 pounds a.i. per acre). Apply between corn emergence and the 5-leaf stage of growth (approximately 8 inches tall).

Annual Weeds - Rates for 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, 1.5 quarts per acre if weeds are 6 to 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, Dicamba or Tordon 22K 12 to 16 fluid ounces of this product plus 1/4 pound of dicamba or 1/2 pound of 2,4-D or 1 to 2 fluid ounces of Tordon 22K per acre will control the following weeds with the maximum height or length indicated: 6" - prickly lettuce, marestail/horseweed, morning glory, kochia (dicamba only), wild buckwheat (Tordon 22K only); 12" - cocklebur, lambsquarters, pigweed, Russian thistle (2.4-D only).

16 fluid ounces of this product plus 1/2 pound 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. Some crop injury may occur if dicamba or Tordon 22K is applied within 45 days of planting. The individual tank mix product must be registered for use on this site.

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 solu-

tion of this product to weeds less than 6 inches in height or runner length. Apply prior to seed-head 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

Annual Weeds - Tank Mixtures with Atrazine for Fallow and Reduced Tillage Systems For use only in Colorado, Kansas, Nebraska, Oklahoma, Oregon, South Dakota and Washing-ton. In Oregon and Washington, do not exceed 1 pound of atrazine per acre.

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 Initiate, Volunteer wheat, Witchgrass and Kochia (add 1/8 pound of dicamba for control). The individual tank mix product must be registered for use on this site.

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 recommended stages.

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. a abtained when eail m

WEED SPECIES	Rate (QT/A)	Water Volume (GPA)	Hand-Held % Solution
Alfalfa	1-2	3-10	2%
Make applications after the I 8 inches or more prior to trea days after treatment, but be	atment. Applications sho		
Alligatorweed	4	3-20	1.5%
For partial control, apply wirequired to maintain control.		are in bloom. Repeat	applications will b
Anise (fennel)	-	-	1-2%
Apply as a spray-to-wet trea bud to full-bloom stage of g		are obtained when plar	its are treated at th
Bahiagrass	3-5	3-20	2%
Apply when most plants hav	e reached the early hea	d stage.	
Bentgrass	1.5	10-20	2%
For suppression in grass se crown area has resumed gr inches of growth. Tillage prive cation is recommended for the	owth prior to a fall app or to treatment should b	lication. Bentgrass sho	ould have at least
Bormudagrass	3-5	3-20	2%

Bermudagrass 3-20 3-5 2% 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. Retreatment may be necessary to maintain control

noocooday to mamam control			
Bermudagrass, Water (knotgrass)	1-1.5	5-10	2%

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. Fallow fields should be tilled prior to application. Apply prior to frost on water Bermudagrass that is 12 to 18 inches in length.

This product is not registered in Cal	ifornia for use on v	vater Bermudagrass.	
Bindweed, field	0.5-5	3-20	2%

Do not treat when weeds are under drought stress as good soil moisture is necessary for active arowth.

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 1/2 pound 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 of 2,4-D in 10 to 20 gallons of water per acre with ground equipment only. Applications should be made following harvest or in fall fallow ground when the bindwead 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 1/2 pound of 2,4-D in 3 to 10 gal-lons 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. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length. The individual tank mix product must be registered for use on this site.

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

Bluegrass, Kentucky	1-2	3-40	2%
Apply 2 quarts of this product i reached boot-to-early seedhead renovation, apply 1 to 1.5 quarts actively growing plants when mo	stage of development. s of this product in 3 to	For partial control i 0 10 gallons of wat	n pasture or hay crop er per acre. Apply to
Blueweed, Texas	3-5	3-40	2%

Apply 4 to 5 guarts of this product per acre west of the Mississippi River and 3 to 4 guarts 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 treat-ments must be applied before a killing frost.

WEED SPECIES	Rate (QT/A)	Water Volume (GPA)	Hand-Held % Solution
Brackenfern	3-4	3-40	1-1.5%
Apply to fully expanded fronds that a	are at least 18 in	ches long.	
Bromegrass, smooth	1-2	3-40	2%
Apply 2 quarts of this product in 10 eached boot-to-early seedhead stag enovation, apply 1 to 1.5 quarts of t actively growing plants when most h	e of development this product in 3	nt. For partial control in to 10 gallons of wate	pasture or hay crop
Bursage, woolly-leaf	-	3-20	2%
For control, apply 2 quarts of this pro rrol, apply 1 quart of this product plu producing new active growth which when plants are at or beyond floweri use on this site.	us 1/2 pound of has been initia	dicamba per acre. Ap ted by moisture for at	ply when plants are least 2 weeks and
Canarygrass, reed	2-3	3-40	2%
For best results, apply when most pl	ants have reach	ed the boot-to-head st	age of growth.
Cattail	3-5	3-40	2%
Apply when most plants have reache	ed the early head	d stage.	
Clover; red or white	3-5	3-20	2%
Apply when most plants have reache	ed the early bud	stage.	
Also for control, apply 16 to 32 fluid o 10 gallons of water per acre. The his site.	ounces of this individual tank r	product plus 1/2 to 1 p nix product must be re	oound of 2,4-D in 3 egistered for use or
Cogongrass	3-5	10-40	2%
Apply when cogongrass is at least 18 growth and the dense nature of vege nay be necessary to maintain contro	tation preventin		
Dallisgrass	3-5	3-20	2%
Apply when most plants have reache	ed the early head	d stage.	
Dandelion	3-5	3-40	2%
Apply when most plants have reache	ed the early bud	stage of growth.	
Also for control, apply 16 fluid ounces of water per acre. The individual tank			
	3-5	3-40	2%
Jock, curly			
	ed the early bud	stage of growth.	
Apply when most plants have reache Also for control, apply 16 to 32 fluid o 10 gallons of water per acre. The	ounces of this	product plus 1/2 to 1	
Dock, curly Apply when most plants have reache Also for control, apply 16 to 32 fluid to 10 gallons of water per acre. The this site. Dogbane, hemp	ounces of this individual tank r	product plus 1/2 to 1 p nix product must be re 3-40	egistered for use or 2%
Apply when most plants have reached Also for control, apply 16 to 32 fluid to 10 gallons of water per acre. The this site. Dogbane, hemp Apply when most plants have reach- narvest or mowing, allow weeds to re apply in late summer or fall. For sup opound of 2,4-D in 3 to 10 gallons of of water per acre for aerial applicatic bane has occurred. The individual ta	ounces of this individual tank r 4 ed the late bud grow to a matur opression, apply water per acre ons. Delay applie nk mix product	product plus 1/2 to 1 p mix product must be re 3-40 to flower stage of grov e stage prior to treatmer 16 fluid ounces of th for ground applications rations until maximum must be registered for	egistered for use or 2% wth. Following crop ent. For best results is product plus 1/2 s and 3 to 5 gallons emergence of dog- use on this site.
Apply when most plants have reached Use for control, apply 16 to 32 fluid to 10 gallons of water per acre. The his site. Dogbane, hemp Apply when most plants have reached arvest or mowing, allow weeds to re pply in late summer or fall. For sup yound of 2,4-D in 3 to 10 gallons of the water per acre for aerial application pane has occurred. The individual tal Fescue (except tall)	ounces of this individual tank in 4 ed the late bud grow to a matur opression, apply water per acre ons. Delay applie nk mix product 3-5	product plus 1/2 to 1 p mix product must be re 3-40 to flower stage of grou e stage prior to treatme / 16 fluid ounces of th for ground applications rations until maximum must be registered for 3-20	2% 2% wth. Following crop ent. For best results is product plus 1/2 s and 3 to 5 gallons emergence of dog
Apply when most plants have reached Use for control, apply 16 to 32 fluid to 10 gallons of water per acre. The his site. Dogbane, hemp Apply when most plants have reached arvest or mowing, allow weeds to re pply in late summer or fall. For sup yound of 2,4-D in 3 to 10 gallons of the water per acre for aerial application pane has occurred. The individual tal Fescue (except tall)	ounces of this individual tank in 4 ed the late bud grow to a matur opression, apply water per acre ons. Delay applie nk mix product 3-5	around the second secon	2% wth. Following crop ont. For best results is product plus 1/2 s and 3 to 5 gallow emergence dog- use on this site. 2%
pply when most plants have reached uso for control, apply 16 to 32 fluid o 10 gallons of water per acre. The nis site. Dogbane, hemp upply when most plants have reached arvest or mowing, allow weeds to re pply in late summer or fall. For sup ound of 2,4-D in 3 to 10 gallons of f water per acre for aerial applicatio cane has occurred. The individual tar rescue (except tall) upply when most plants have reached rescue, tall	ed the late bud grow to a matur water per acre ons. Delay appli nk mix product 3-5 ad the early head 1-3	arout plus 1/2 to 1 prix product plus 1/2 to 1 prix product must be reference of the stage of grow e stage prior to treatmery 16 fluid ounces of the for ground applications cations until maximum must be registered for 3-20 d stage.	2% wth. Following crop nt. For best results is product plus 1/2 and 3 to 5 gallom emergence of dog use on this site. 2% 2%
Apply when most plants have reached vision for control, apply 16 to 32 fluid o 10 gallons of water per acre. The his site. Dogbane, hemp Apply when most plants have reached arvest or mowing, allow weeds to re apply in late summer or fall. For sup yound of 2,4-D in 3 to 10 gallons of of water per acre for aerial application from the succurred. The individual tai Fescue (except tall) Apply when most plants have reached Fescue, tall Apply quarts of this product per acri- tage of development.	ounces of this individual tank i 4 ed the late bud grow to a matur ppression, apply water per acre ons. Delay applie nk mix product 3-5 ed the early hear 1-3 re when most pl	product plus 1/2 to 1 prix product must be re- 3-40 to flower stage of grove e stage prior to treatment r 16 fluid ounces of th for ground applications cations until maximum must be registered for 3-20 d stage. 3-40 ants have reached boo	egistered for use or 2% wth. Following crop ont. For best results is product plus 1/2 and 3 to 5 gallons emergence of dog- use on this site. 2% 2% t-to-early seedhead
Apply when most plants have reached Also for control, apply 16 to 32 fluid to 10 gallons of water per acre. The his site. Dogbane, hemp Apply when most plants have reached the arvest or mowing, allow weeds to re- apply in late summer or fall. For sup- yound of 2,4-D in 3 to 10 gallons of f water per acre for aerial application the arvest of the arrial application the arvest of the arrial application tage of development. Fall applications only. Apply 1 quart o fescue in the fall when plants have for a rear of this product will im poduct will im poduct will im product will im arvest of this product will im the arvest of this product will im arvest of the arvest o	ounces of this individual tank i 4 ed the late bud grow to a matur opression, appli water per acre ons. Delay applie nk mix product 3-5 ed the early hear 1-3 re when most pl of this product a 6 to 12 inches prove long-term	product plus 1/2 to 1 prix product must be re 3-40 to flower stage of grov e stage prior to treatmer v 16 fluid ounces of th for ground applications rations until maximum must be registered for 3-20 d stage. 3-40 ants have reached boo in 3 to 10 gallons of wa of new growth. A sequ	egistered for use or 2% wth. Following crop ent. For best results is product plus 1/2 and 3 to 5 gallons emergence of dog- use on this site. 2% 2% t-to-early seedheac ater per acre. Apply ential application of
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Apply when most plants have reached Also for control, apply 16 to 32 fluid o 10 gallons of water per acre. The his site. Dogbane, hemp Apply when most plants have reached arvest or mowing, allow weeds to reach apply in late summer or fall. For sup yound of 2,4-D in 3 to 10 gallons of fwater per acre for aerial application ane has occurred. The individual tan Fescue (except tall) Apply when most plants have reached Fescue, tall Apply 3 quarts of this product per acri- stage of development. Fall applications only. Apply 1 quart o fescue in the fall when product will im after fall treatments or the following set the following set t	ounces of this individual tank i 4 ed the late bud grows to a matur ppression, apply water per acre ons. Delay applin nk mix product 3-5 ad the early head 1-3 re when most pl of this product i of this product	product plus 1/2 to 1 p mix product must be re- 3-40 to flower stage of grov e stage prior to treatme r 16 fluid ounces of th for ground applications aations until maximum must be registered for 3-20 d stage. 3-40 ants have reached boo n 3 to 10 gallons of wa of new growth. A seque control and control se 3-40 leaf stage of growth. Er d ridge of Florida, use :	egistered for use or 2% wth. Following crop ent. For best results is product plus 1/2 and 3 to 5 gallom emergence of dog use on this site. 2% 2% t-to-early seedhead ater per acre. Apply ential application o edlings germinating 1%

norsenettie	3-5	3-20	2%
Apply when most plants have reache	ed the early bud	stage.	
Horseradish	4	3-40	2%

Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall.

Iceplant	-	-	1.5-2%
Iceplant should be at or beyond for best control.	the early bud stage of g	rowth. Thorough c	overage is necessary
Jerusalem artichoke	3-5	3-20	2%
Apply when most plants are in th	o oarly bud stado		

Apply when most plants are in the early bud stage.				
Johnsongrass	0.5-3	3-40	1%	
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 non-crop, or areas where annual tillage (no-till) is not practiced, 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.

Kikuyugrass	2-3	3-40	2%
Spray when most kikuyugrass is at least 8	B inches in h	neight (3- to 4-leaf s	stage of growth). Allow
3 or more days after application before til	lage.		

PERENNIAL WEEDS RATE TABLE (cont.)

WEED SPECIES	Rate	Water	Hand-Held
	(QT/A)	Volume (GPA)	% Solution
Knapweed	4	3-40	2%

Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall

Lantana	-	-	1-1.25%
Apply at or beyond the bloom have reached the woody stage		ne higher applicatior	n rate for plants that
Lespedeza	3-5	3-20	2%
Apply when most plants have r	eached the early bud st	tage.	
Milkweed, common	3	3-40	2%

Apply when most plants have reached the	he late bud	to flower stage of growth.	
Muhly, wirestem	1-2	3-40	2%

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 non-crop 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.

Mullein, common	3-5	3-20	2%
Apply when most plants are in th	e early bud stage.		
Napiergrass	3-5	3-20	2%
Apply when most plants are in th	e early head stage.		
Nightshado, silvarlaaf	2	2-10	20/-

Applications should be made when at least 60 percent of the plants have berries. Fall treatments must be applied before a killing frost.

Nutsedge, purple or yellow	0.5-3	3-40	1-2%
Apply 3 quarts of this product per ac	re or apply a 1 to	2 percent solution for	r control of nutsedge

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.

Orchardgrass	1-2	3-40	2%

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 applica-tions 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. The individual tank mix product must be registered for use on this site. 4 5 00/

Pampasgrass	-	-	1.5-2%
Pampasgrass should be at or beyond	d the boot stage of	f growth. Thorough	coverage is neces-
sarv for best control.			

Paragrass	3-5	3-20	2%	
Apply when most plants are	e in the early head stage.			
Phragmites 3-5 10-40 1-2%				
Ear partial control and for h	act results treat during lat	o summor or fall who	n plante aro activolu	

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.

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Poison hemlock

Apply as a spray-to-wet treatment. Optimum results are obtained when plants are treated at the bud to full-bloom stage of growth.

1-2%

Pokeweed, common	1	3-40	2%
Apply to actively growing plants u	p to 24 inches tall.		
Quackgrass	1-3	3-40	2%

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 non-crop 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.

Redvine	0.75-2	5-10	2%
For suppression, apply 24 fluid 14 days apart or a single applic	ation of 2 quarts per ac	cre. Apply recomme	nded rates in 5 to 10
gallons of water per acre. Apply inches tall and have been grow tions at least 1 week before a k	ing 45 to 60 days since		

Reed, giant	-	-	2%
Best results are obtained when applicati	ions are mad	le in late summer to fall.	

PERENNIAL	WEEDS	RATE	TABLE	(cont.)
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WEED SPECIES	Rate (QT/A)	Water Volume (GPA)	Hand-Held % Solution
Ryegrass, perennial	1-3	3-40	1%
In annual cropping systems apply product in 3 to 10 gallons of wate 40 gallons of water per acre. In no apply 2 to 3 quarts of this produc	er per acre. Use 2 o on-crop, or areas w	quarts of this product here annual tillage (no	when applying 10 to
For best results, apply when mos the fall prior to frost. Do not tank- uct per acre.			
Smartweed, swamp	3-5	3-40	2%
Apply when most plants have read fluid ounces of this product plus late summer or fall. The individual	1/2 pound of 2,4-D	in 3 to 10 gallons of v	vater per acre in the
Sowthistle, perennial	2-3	3-40	2%
Apply when most plants are at o tillage in the late summer or fall, al development prior to the applicat killing frost. Allow 3 or more days	llow at least 4 week ion of this product	s for initiation of active Fall treatments must	e growth and rosette
Spurge, leafy	-	3-10	2%
For suppression, apply 16 fluid ou lons of water per acre in the late su when most of the plants are 12 in for use on this site.	ummer or fall. If mo ches tall. The indiv	wing has occurred pric idual tank mix produc	r to treatment, apply t must be registered
Starthistle, yellow	2	10-40	2%
Best results are obtained when a flower stages.	applications are m	ade during the rosett	e, bolting and early
Sweet potato, wild	-	-	2%
For partial control, apply to plant applications may be required.	ts that are at or be	eyond the bloom stage	e of growth. Repea
Thistle, artichoke	-	-	2%
For partial control, apply to plant applications may be required.	is that are at or be	eyond the bloom stage	e of growth. Repea
Thistle, Canada	2-3	3-40	2%
tillage in the late summer or fall, al development prior to the applicat killing frost. Allow 3 or more days For suppression in the spring, ap pound of 2,4-D in 3 to 10 gallons inches in diameter before treating and plants are actively growing a'	ion of this product after application b ply 1 quart of this of water per acre. J. Applications can t the time of applic	. Fall treatments must efore tillage. product, or 1 pint of t Allow rosette regrowt be made as long as l ation. Allow 3 or more	be applied before a his product plus 1/2 h to a minimum of 6 eaves are still greer e days after applica
tion before tillage. The individual t		-	
Timothy	2-3	3-40	2%
For best results, apply when mos	t plants have reach	ed the boot-to-head s	tage of growth.
Torpedograss For partial control, apply when m Repeat applications will be require frost.			
Trumpetcreeper	2	5-10	2%
For partial control, apply in late So and have been growing 45 to 60 d 1 week before a killing frost.			
Vaseygrass	3-5	3-20	2%
Apply when most plants are in the			
Velvetgrass	3-5	3-20	2%
Apply when most plants are in the	e early head stage.		
Wheatgrass, western	2-3	3-40	2%
For best results, apply when mos	t plants have reach	ed the boot-to-head s	tage of growth.
WOODY B	RUSH AND TR	EES RATE TABLE	
Apply this product after full leaf ex plants and/or dense areas of grow the woody stage of growth. Best r or fall after fruit formation.	th. On vines, use t	he higher rate for plan	ts that have reached
In arid areas, best results are obta mer when brush species are at hig			spring to early sum-
Unless otherwise directed, apply Ensure thorough coverage when to to frost or senescence with fall tre	using hand-held ec		
Allow 7 or more days after applic		e. mowing or removal	. Repeat treatments

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

WEED SPECIES	Rate (QT/A)	Hand-Held % Solution
*Partial Control		
Alder	3-4	1-1.5%
Ash*	2-5	1-2%
Aspen, quaking	2-3	1-1.5%
Bearmat (Bearclover)*	2-5	1-2%
Beech*	2-5	1-2%
Birch	2-3	1-1.5%
Blackberry	3-4	1-1.5%

Ackberry 3-4 1-1.5% 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.

WOODY BRUSH AND TR	REES RATE TABL	.E (cont.)
	Rate	Hand-Held
WEED SPECIES	(QT/A)	% Solution
Blackgum Bracken	2-5 2-5	1-2%
Broom; French, Scotch	-	1.5-2%
Buckwheat, California*	-	1-2%
Thorough coverage of foliage is necessary	for best results.	
Cascara*	2-5	1-2%
Catsclaw*	-	1-1.5%
Ceanothus*	2-5	1-2%
Chamise Thorough coverage of foliage is necessary	- for best results	1%
Cherry; bitter, black, pin	2-3	1-1.5%
Coyote brush	_	1.5-2%
Apply when at least 50 percent of the new	leaves are fully de	
Dogwood*	2-5	1-2%
Elderberry	2-3	1-1.5%
Elm*	2-5	1-2%
Eucalyptus For control of eucalyptus resprouts, apply v	- whon resprouts are	2%
plete coverage. Avoid application to drough		
Florida holly (Brazilian Peppertree)*	2-5	1-2%
Gorse*	2-5	1-2%
Hasardia*	-	1-2%
Thorough coverage of foliage is necessary	for best results.	
Hawthorn	2-3	1-1.5%
Hazel	2-3	1-1.5%
Hickory*	2-5	1-2%
Honeysuckle	3-4	1-1.5% 1-2%
Hornbeam, American*	2-5 4-5	2%
Kudzu Repeat applications may be necessary to n		2 70
Locust, black*	2-4	1-2%
Madrone resprouts*	-	2%
Apply to resprouts that are 3 to 6 feet tall.	Best results are ob	otained with spring/early sum-
mer treatments.		
Manzanita*	2-5	1-2%
Maple, red	2-4	1-1.5%
Apply a 1 to 1.5 percent solution when at le oped. For partial control, apply 2 to 4 quart		
Maple, sugar	_	1-1.5%
Apply when at least 50 percent of the new	leaves are fully de	
Monkey flower*	-	1-2%
Thorough coverage of foliage is necessary		
Oak; black, white*	2-4	1-2%
Oak, post	3-4	1-1.5%
Oak, northern Apply when at least 50 percent of the new	nin leaves are fully	1-1.5%
Oak, southern red	2-3	1-1.5%
Persimmon*	2-5	1-2%
Pine	2-5	1-2%
Poison ivy/Poison oak	4-5	2%
Repeat applications may be required to m	aintain control. Fa	Il treatments must be applied
before leaves lose green color.	0.5	1 00/
Poplar, yellow*	2-5	1-2%
Redbud, eastern	2-5	1-2%
Rose, multiflora Treatments should be made prior to leaf de	2 terioration by leaf-	1% eating insects
Russian olive*	2-5	1-2%
Sage, black	-	1%
Thorough coverage of foliage is necessary	for best results.	
Sage, white*	2-5	1-2%
Sage brush, California		1%
Thorough coverage of foliage is necessary		
Salmonberry	2-3	1-1.5%
Saltcedar	2-5	1-2%
Sassafras*	2-5	1-2%
Sourwood*		
	2-5	1-2%
Sumac; poison, smooth, winged*	2-4	1-2%
Sumac; poison, smooth, winged* Sweetgum	2-4 2-3	1-2% 1-1.5%
Sumac; poison, smooth, winged* Sweetgum Swordfern*	2-4	1-2% 1-1.5% 1-2%
Sumac; poison, smooth, winged* Sweetgum Swordfern*	2-4 2-3 2-5	1-2% 1-1.5%
Sumac; poison, smooth, winged* Sweetgum Swordfern* Tallowtree, Chinese Thorough coverage of foliage is necessary Tan oak resprouts* Apply to resprouts that are less than 3 to	2-4 2-3 2-5 for best results.	1-2% 1-1.5% 1-2% 1% 2%
Sumac; poison, smooth, winged* Sweetgum Swordfern* Tallowtree, Chinese Thorough coverage of foliage is necessary Tan oak resprouts* Apply to resprouts that are less than 3 to application.	2-4 2-3 2-5 for best results.	1-2% 1-1.5% 1-2% 1% 2% results are obtained with fall
Sumac; poison, smooth, winged* Sweetgum Swordfern* Tallowtree, Chinese Thorough coverage of foliage is necessary Tan oak resprouts* Apply to resprouts that are less than 3 to application. Thimbleberry	2-4 2-3 2-5 for best results. - 0 6 feet tall. Best 2-3	1-2% 1-1.5% 1-2% 1% 2% results are obtained with fall 1-1.5%
Sumac; poison, smooth, winged* Sweetgum Swordfern* Tallowtree, Chinese Thorough coverage of foliage is necessary Tan oak resprouts* Apply to resprouts that are less than 3 to application. Thimbleberry Tobacco, tree*	2-4 2-3 2-5 for best results. 0 6 feet tall. Best 2-3 -	1-2% 1-1.5% 1-2% 1% 2% results are obtained with fall 1-1.5% 1-2%
Sumac; poison, smooth, winged* Sweetgum Swordfern* Tallowtree, Chinese Thorough coverage of foliage is necessary Tan oak resprouts* Apply to resprouts that are less than 3 to application. Thimbleberry Tobacco, tree* Trumpetcreeper	2-4 2-3 2-5 for best results. 0 6 feet tall. Best 2-3 - 2-3	1-2% 1-1.5% 1-2% 1% 2% results are obtained with fall 1-1.5% 1-2% 1-2.5%
Sumac; poison, smooth, winged* Sweetgum Swordfern* Tallowtree, Chinese Thorough coverage of foliage is necessary Tan oak resprouts* Apply to resprouts that are less than 3 to application. Thimbleberry Tobacco, tree* Trumpetcreeper Vine maple*	2-4 2-3 2-5 for best results. 0 6 feet tall. Best 2-3 - 2-3 2-5	1-2% 1-1.5% 1-2% 1% 2% results are obtained with fall 1-1.5% 1-2% 1-1.5% 1-2%
Sumac; poison, smooth, winged* Sweetgum Swordfern* Tallowtree, Chinese Thorough coverage of foliage is necessary Tan oak resprouts* Apply to resprouts that are less than 3 to application. Thimbleberry Tobacco, tree* Trumpetcreeper Vine maple* Virginia creeper	2-4 2-3 2-5 for best results. 0 6 feet tall. Best 2-3 - 2-3 2-5 2-5	1-2% 1-1.5% 1-2% 1% 2% results are obtained with fall 1-1.5% 1-2% 1-1.5% 1-2% 1-2%
Sumac; poison, smooth, winged* Sweetgum Swordfern* Tallowtree, Chinese Thorough coverage of foliage is necessary Tan oak resprouts* Apply to resprouts that are less than 3 to application. Thimbleberry Tobacco, tree* Trumpetcreeper Vine maple*	2-4 2-3 2-5 for best results. 0 6 feet tall. Best 2-3 - 2-3 2-5	1-2% 1-1.5% 1-2% 1% 2% results are obtained with fall 1-1.5% 1-2% 1-1.5% 1-2%

* Partial control.

INDUSTRIAL, TURF AND ORNAMENTAL USES

GENERAL INFORMATION (How This Product Works)

Product Description: This product is a postemergent, systemic herbicide with no soil residual activity. It gives broad-spectrum control of many annual weeds, perennial weeds, woody brush and trees. It is formulated as a water-soluble liquid containing surfactant and no additional surfactant is needed or recommended.

Optional alternate statement: It is formulated as a water-soluble liquid containing 14.5 percent surfactant and no additional surfactant is needed or recommended.

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 fol-lowing 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.

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

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 recommended 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.

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 rootstocks of perennials will not be affected by the herbicide and will continue to grow.

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 cau-tionary 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 han-dling of mixtures of this product with herbicides or other materials that are not expressly rec-ommended in this label. Mixing this product with herbicides or other materials not recom-mended on this label may result in reduced performance.

Annual Maximum Use Rate: The combined total of all treatments must not exceed 10.6 quarts of this product per acre per year. The maximum use rates stated throughout this product shall be been used and the product shall be been used and the product shall be been used 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 rates.

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

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PRE-VENT 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) that are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

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.

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 solution of this product as follows: Fill the mix-ing or spray tank with the required amount of water. Add the recommended amount of this prod-Ing of spray tank with the required another of water. Add the recommended amount of this prod-uct 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

When tank mixing, read and carefully observe label directions, cautionary statements and all information on the labels of all products used. Add the tank-mix product to the tank as directed by the label. Maintain agitation and add the recommended amount of this product.

Maintain good agitation at all times until the contents of the tank are spraved. If the sprav mixture is allowed to settle, thorough agitation may be 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.

Refer to the TANK MIXING section of GENERAL INFORMATION for additional precautions.

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:

Sprav Solution

Desired	Amount of Glyfos X-TRA					
Volume	1/2%	1%	1-1/2%	2%	5%	10%
1 Gallon	2/3 oz.	1-1/3 oz.	2 oz.	2-2/3oz.	6-1/2 oz.	13 oz.
25 Gallons	1 pt.	1 qt.	1-1/2 qt.	2 qt.	5 qt.	10 qt.
100 Gallons	2 qt.	1 gal.	1-1/2 gal.	2 gal.	5 gal.	10 gal.
2 tablespoons = 1 fluid ounce						

For use in backpack, knapsack or pump-up sprayers, it is suggested that the recommended amount of this product be mixed with water in a larger container. Fill sprayer with the mixed solution.

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 dilution. Use colorants or dyes according to the manufacturer's recommendations.

APPLICATION EQUIPMENT AND TECHNIQUES

Do not apply this product through any type of irrigation system. APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIP-MENT CAPABLE OF DELIVERING DESIRED VOLUMES

SPRAY DRIFT MANAGEMENT

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PRE-VENT 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.

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

AERIAL SPRAY DRIFT MANAGEMENT

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops.

1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.

Wingspan or rotor. Nozzles must always point backward parallel with the airstream and never be pointed down-wards more than 45 degrees. Where states have more stringent regulations, they should be 2. observed.

Importance of droplet size

The most effective way to reduce drift potential is to apply large droplets. The best drift man-agement 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 Inversion sections of this label).

Controlling Droplet Size

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. 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. Significant deflection from
- The 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-ifit noz-zles. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types
- Boon 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 largest plants unless a greater height is required for aircraft safety. Mak-ing applications at the lowest height that is safe reduces exposure of 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 dis-placement 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 should be avoided below 2 miles per hour due to variable wind direction and high inver-sion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should 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 increase Variable winds common during inversions, temperature inversions are characterized by increas-ing 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 pres-ence can be indicated by ground fog; however, if fog is not present, inversions can also be iden-tified 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 indicated good vertical air mixing.

Sensitive Areas

This 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-tar-get 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 CON-DITIONS AS SPECIFIED WITHIN THIS LABEL.

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

TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Avoid direct application to any body of water.

Use the recommended rates of this herbicide in 3 to 25 gallons of water per acre.

Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

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

PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion. To prevent corrosion of exposed parts, thoroughly wash aircraft after each day of spraying to remove residues of this product accumulated during spraying or from spills. Landing gear is most susceptible.

AERIAL APPLICATIONS IN CALIFORNIA

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

- Prior to the emergence or transplanting of labeled crops. Aid to burning for establishment and maintenance of fuel breaks. Establishing fire perimeters and black lines. Aid to prescribed burning. 2 3
- 4.
- Along fire roads.
- 5. 6. Range conversion.
- Habitat restoration and management. Wildlife food plots.
- 8.

Apply 1 to 5 quarts of this product in 5 to 15 gallons of water per acre using aerial (helicopter only) applications.

To broaden the spectrum of control, Garlon 4 may be tank mixed with this product at the rate of 0.5 to 2 quarts per acre. The rate of Garlon should not exceed 1/2 the rate of this product (e.g., 1 quart of Garlon to 2 quarts of this product) for best results.

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 disposing of equipment washwaters.

AVOID DRIFT – DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION WHICH WILL ALLOW 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.

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

- Do not apply within 100 feet of any desirable vegetation or crop(s). If wind up to 5 miles per hour is blowing toward desirable vegetation or crop(s), do not apply within a minimum of 500 feet of the desirable vegetation or crop(s). Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crop(s) may
- 3. 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
- 5. APPLY BY AIR ONLY TO NONRESIDENTIAL AREAS.

Ground Broadcast Equipment

Use the recommended 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 recommended range to ensure complete coverage. Carefully select proper nozzles to avoid spraying a fine mist. For best results with ground application equipment, use flat-fan 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 section of WEEDS CONTROLLED, apply a 1/2 percent solution of this product to weeds less than 6 inches in height or runner length. For annual weeds over 6 inches tall, or unless otherwise specified, use a 1 percent solution. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds.

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

For low volume directed spray applications, use a 5 to 10 percent solution of this product for control or partial control of annual weeds, perennial weeds or woody brush and trees. Spray coverage should be uniform with at least 50 percent of the foliage contacted. Coverage of the top one-half of the plant is important for best results. To ensure adequate spray coverage, spray both sides of large or tall woody brush and trees, when foliage is thick and dense, or where there are multiple sprouts.

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 non-crop site specified on this label.

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.

AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION, AS SERIOUS INJURY OR DEATH IS LIKELY TO OCCUR.

Applicators used above desired 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 is likely to result in discoloration, stunting or destruction.

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

Shielded and Hooded Applicators

A shielded or hooded applicator directs the herbicide solution onto weeds, while shielding desirable vegetation from the herbicide. 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 DESIR-ABLE VEGETATION.

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. 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 may be obtained if 2 applications are made in opposite directions.

Avoid leakage or dripping onto desirable vegetation. Adjust height of applicator to ensure ade-quate 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.

For Rope or Sponge Wick Applicators - Solutions ranging from 33 to 75 percent of this product in water may be used

For Panel Applicators and Pressure-Feed Systems - Solutions ranging from 33 to 100 percent of this product in water may be used.

When applied as recommend	led above, this product CONTR	OLS the following weeds:
Corn, volunteer Panicum, Texas Rye, common	Shattercane Sicklepod	Spanishneedles Starbur, bristly

When applied as recommended above, this product SUPPRESSES the following weeds:

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

Injection Systems

This product may be used in aerial or ground injection spray systems. It may be used as a liq-uid concentrate or diluted prior to injecting into the spray stream. Do not mix this product with the undiluted concentrate of other products when using injection systems unless specifically recommended.

CDA Equipment

The rate of this product applied per acre by controlled droplet application (CDA) equipment must not be less than the amount recommended in this label when applied by conventional broadcast equipment. For vehicle-mounted CDA equipment, apply 2 to 15 gallons of water per acre.

CDA 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 vege-tation, as damage or destruction is likely to result.

SITE	USF	RECOMMENDATIONS

Detailed instructions follow alphabetically, by site.

Unless otherwise specified, applications may be made to control any weeds listed in the annual, perennial and woody brush tables. Refer also to the **SELECTIVE EQUIPMENT** section.

Cut Stumps

Cut stump treatments may be made on any site listed on this label. This product will control 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.

	O 1	o .
Alder	Oak	Sweetgum
Eucalyptus	Reed, giant	Tan Oak
Madrone	Saltcedar	Willow

DO NOT MAKE CUT STUMP APPLICATIONS WHEN THE BOOTS OF DESIBABLE WOODY BRUSH OR TREES MAY BE GRAFTED TO THE ROOTS OF THE CUT STUMPS. 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 nontreated stems/trees when one or more trees sharing commons roots are treated.

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, eucalyptus, hybrid tree cultivars and silvicultural nursery sites.

APPL	ICATION	RATES
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APPLICATION	GLYFOS X-TRA	SPRAY VOLUME GAL/A	
BROADCAST Aerial Ground	2 to 10 qts/A 2 to 10 qts/A	5 to 30 10 to 60	
<u>SPRAY-TO-WET</u> Handgun Backpack	3/4% to 2% by volume	spray-to-wet	
LOW-VOLUME DIRECTED SPRAY Handgun Backpack	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.

Tank Mixtures

Tank mixtures of this product may be used to increase the spectrum of vegetation controlled. When tank mixing, read and carefully observe the label claims, cautionary statements and all information on the labels of all products used. Use according to the most restrictive precautionary statements for each product in the mixture.

NOTE: For forestry site preparation, make sure the tank mix product is approved for use prior to planting the desired species. Observe planting interval restrictions.

Any recommended rate of this product may be used in a tank mix with the following products for forestry site preparation.

Product	Broadcast Rate
Arsenal Applicators Concentrate	2 to 16 fl oz/A
Escort™	1/2 to 3-1/2 oz/A
Chopper™	4 to 32 fl oz/A
Garlon 4	1 to 4 qts/A
Oust™	1 to 4 ozs/A
Product	Spray-To-Wet Rates
Arsenal Applicators Concentrate	1/32% to 1/2% by volume
Product	Low Volume Directed Spray Rates
Arsenal Applicators Concentrate	1/8% to 1/2% by volume

For control of herbaceous weeds, use the lower recommended tank mixture rates. For control of dense stands or tough-to-control woody brush and trees, use the higher recommended rates

Do not apply this product as an over-the-top broadcast spray for forestry conifer or hardwood release

General Non-crop Areas and Industrial Sites

Use in a reas such as airports, apartment complexes, Christmas tree farms, ditch banks, dry ditches, dry canals, fencerows, golf courses, industrial sites, lumber yards, manufacturing sites, office complexes, ornamental nurseries, parks, parking areas, petroleum tank farms and pump-ing installations, railroads, recreational areas, residential areas, roadsides, sod or turf seed farms, schools, storage areas, substations, warehouse areas, other public areas, and similar industrial and non-crop sites.

General Weed Control, Trim-and-Edge, Bare Ground This product may be used in general non-crop areas. It may be applied with any application equipment described in this label. This product may be used to trim-and-edge around objects in non-crop 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 non-crop sites and application rates. The individual tank mix product must be registered for use on this site

Arsenal™	Karmex™ DF	Princep™ Liquid
Barricade [™] 65WG	Krovar™ I DF	Ronstar™ 50WP
Clarity	Manage®	Sahara™
Diuron	Oust	Simazine
Endurance™	Pendulum™ 3.3 EC	Surflan™
Escort™	Pendulum WDG	Telar™
Garlon™ 3A	Plateau™	Vanquish™
Garlon 4	Princep™ DF	2,4-D

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 Bermudagrass	Dock, curly Dogfennel	Poorjoe Quackgrass
Broomsedge	Fescue, tall	Vaseygrass
Dallisgrass	Johnsongrass	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, quackgrass or reed canarygrass 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, such as 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.

Bromus Species and Medusahead in Pastures and Rangelands

Bromus species. This product may be used to treat downy brome (Bromus tectorum), Japan-ese 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 this 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. Applications should be made to the same site each year until seed banks are depleted and the desirable perennial grasses can become reestablished on this 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. Applications may be made in the fall or spring.

Applications to brome and medusahead may be made using ground or aerial equipment. Aerial applications for these uses may be made using fixed wing or helicopter equipment. For aer-ial 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 in this label, there are no grazing restrictions.

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 the recommended rates in 10 to 40 gallons of water per acre. Use only in areas where Bernudagrass 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, such as 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 **ROAD-SIDES** 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

This product controls most existing vegetation prior to renovating turfgrass areas or establish-ing turfgrass grown for seed or sod. For maximum control of existing vegetation, delay planting or solding to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses such as Bermudagrass, summer or fall applications provide the best con-trol. Where existing vegetation is growing under mowed turgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray.

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

Desirable turfgrasses may be planted following the above procedures.

Hand-held equipment may be used for spot treatment of unwanted vegetation growing in exist-ing turfgrass. Broadcast or hand-held equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested.

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 guarts per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvestina.

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 selec-tively 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.

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 that must penetrate into the living tissue. Apply the Apply this product using suitable equipment that must penetrate into the living tissue. Apply the equivalent of 1/25 fluid ounce (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 tech-niques 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:

Control	Partial Control
Oak	Black gum
Poplar	Dogwood
Sweetgum	Hickory
Sycamore	Maple, red

<u>Ornamentals, Plant Nurseries and Christmas Trees</u> Post-Directed, Trim-and-Edge

This product may be used as a post-directed spray around established woody ornamental species such as arborvitae, azalea, boxwood, crabapple, eucalyptus, euonymus, fir, douglas fir, jojoba, hollies, lilac, magnolia, maple, oak, poplar, 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 coverings made of cardboard or other impermeable material. THIS PRODUCT IS NOT RECOMMENDED 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. Wiper Applications

This product may be used through wick or other suitable wiper applicators to control or partially control undesirable vegetation around established eucalyptus or poplar trees. See the **SELEC-**TIVE EQUIPMENT section of this label for further information about the proper use of wiper applicators.

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.

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 this label. This product may be used to trim-and-edge around trees, fences, and 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 GENERAL NON-CROP AREAS AND INDUSTRIAL SITES section apply to park and recreational areas

Railroads Il of the instructions in the GENERAL NON-CROP 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 Clarity	Garlon 4 Hvvar™ X	Spike™ Telar
Diuron	Krovar I DF	Vanguish
Escort	Oust	2,4-D
Garlon 3A	Sahara	

The individual tank mix product must be registered for use on this site.

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 noz-zles. Up to 80 gallons of spray solution per acre may be used. Apply a 3/4 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 3A	Tordon™ K
Escort	Garlon 4	

Bermudagrass Release This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing Bernudagrass. 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	Fescue, tall	Trumpetcreeper
Bluestem, silver	Johnsongrass	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	Dewberry	Poorjoe
Blackberry	Dock, curly	Raspberry
Bluestem, silver	Dogfennel	Trumpetcreeper
Broomsedge	Fescue, tall	Vaseygrass
Dallisgrass	Johnsongrass	Vervain, blue

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.

Roadsides All of the instructions in the GENERAL NON-CROP 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:

Clarity	Pendulum 3.3 EC	Simazine
Diuron	Pendulum WDG	Surflan
Endurance	Princep DF	Telar
Escort	Princep Liquid	Vanguish
Krovar I DF	Ronstar 50WP	2,4-Ď
Oust	Sahara	

The individual tank mix product must be registered for use on this site.

See the GENERAL NON-CROP AREAS AND INDUSTRIAL SITES section of this label for general 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 dor-mant 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 1/4 to 1 ounce per acre of Oust. Apply the recommended 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 1/2 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 fol-lowing perennial species:

Bahiagrass	Fescue, tall	Trumpetcreeper
Bluestem, silver	Johnsongrass	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:

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 are not recommended, since severe injury may occur.

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 1/4 ounce of Oust per acre 1 to 2 weeks following an initial spring mowing. Make only one application per year.

Utility Sites

In utilities, this product is recommended for use along electrical power, pipeline and telephone rights-of-way, and in other sites associated with these rights-of-way, such as substations, road-sides, railroads, or similar rights-of-way that run in conjunction with utilities.

This product is also recommended for use in preparing or establishing wildlife openings within these sites, maintaining access roads and for side trimming along utility rights-of-way.

Tank Mixtures

Tank mixtures of this product may be used to increase the spectrum of control for herbaceous weeds, woody brush and trees. When tank mixing, read and carefully observe the label claims, cautionary statements and all information on the labels of all products used. Use according to the most restrictive precautionary statements for each product in the mixture. Any recom-mended rate of this product may be used in a tank mix.

For control of herbaceous weeds, use the lower recommended tank mixture rates. For control of dense stands or tough-to-control woody brush and trees, use the higher recommended rates. NOTE: For side trimming treatments, it is recommended that this product be used alone or in tank mixture with Garlon 4.

Product	Broadcast Rate	Use Sites
Arsenal 2WSL	6 to 32 fl oz/A	Utility Sites
Escort	1 to 2 oz/A	Utility Sites
Garlon 3A*, Garlon 4	1 to 4 qts/A	Utility Sites/Side Trimming
Oust	1 to 4 oz/A	Utility Sites
Product	Spray-To-Wet Rates	Use Sites
Arsenal 2WSL	1/16% to 1/2% by volume	Utility Sites
Escort	1 to 2 ounces per acre	Utility Sites

Product	Low Volume Directed Spray Rates	Use Sites
Arsenal 2WSL	3	Utility Sites
Escort	1 to 2 oz/A	Utility Sites

*Ensure that Garlon 3A is thoroughly mixed with water according to label directions before adding this product. Have spray mixture agitating at the time this product is added to avoid spray compatibility problems.

Bare Ground and Trim-and-Edge This product may be used in utility sites and substations for bare ground, trim-and-edge around objects, 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 a utility site to ornamentals, flowers, turfgrass (sod or seed), 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. The individual tank mix product must be registered for use on this site.

Barricade™ 65WG Plateau™ S	ahara™ imazine urflan™
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WEEDS CONTROLLED

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

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

Refer to the following label sections for recommended rates for the control of annual and perennial weeds and woody brush and trees. For difficult-to-control perennial weeds and woody brush and trees, where plants are growing under stressed conditions, or where infestations are dense, this product may be used at 5 to 10 quarts per acre for enhanced results.

Annual Weeds

Use 1 guart per acre if weeds are less than 6 inches in height or runner length and 1.5 guarts to 4 quarts per acre if weeds are over 6 inches in height or runner length or when weeds are arowing under stressed conditions.

For spray-to-wet applications, apply a 1/2 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 for smaller weeds growing under stressed conditions, use a 1 to 2 percent solution. Use the higher rate for tough-to-control species or for weeds over 24 inches tall.

Annoda, spurred Barley* Barnyardgrass Bittercress* Black nightshade* Bluegrass, annual* Bluegrass, bulbous* Bassia, fivehook Brome, downy* Brome, Japanese Browntop panicum' Buttercup' Carolina foxtail* Carolina geranium Castor bean Cheatgrass* Cheeseweed (Malva parviflora) Chervil* Chickweed* Cocklebur* Copperleaf, hophornbeam Corn* Corn speedwell* Craborass* Dwarfdandelion* Eastern mannagrass* Eclipta* Fall panicum* . Falsedandelion* Falseflax, smallseed* Fiddleneck Field pennycress Filaree Fleabane, annual'

WEED SPECIES Fleabane, hairy (Conyza bonariensis)* Ragweed, common* Ragweed, giant Fleabane, rough* Red rice Florida pusley Russian thistle Foxtail* Rye* Goatgrass, jointed* Ryegrass* Goosegrass Sandbur, field* Grain sorohum (milo)* Shattercane* Groundsel, common* Shepherdspurse* Hemp sesbania Sicklepod . Henbit Signalgrass, broadleaf* Horseweed/Marestail Smartweed, lady's thumb' (Conyza canadensis) Smartweed, Pennsylvania* Itchgrass* Sowthistle, annual Johnsongrass, seedling Spanishneedles Junglerice Speedwell, purslane* Knotweed Sprangletop* Kochia Spurge, annual Lambsquarters* Spurge, prostrate* Little barley* Spurge, spotted* London rocket* Spurry, umbrella* Mayweed Starthistle, yellow Medusahead* Stinkgrass' Morningglory Sunflower* (Ipomoea spp) Teaweed/Prickly sida Mustard blue* Texas panicum* Mustard, tansv Velvetleaf Mustard, tumble* Virginia copperleaf Mustard, wild* Virginia pepperweed* Wheat* Pigweed* Wild oats* Plains/Tickseed coreopsis* Witchgrass* Prickly lettuce* Woolly cupgrass* Puncturevine Yellow rocket Purslane, common

*When using field broadcast equipment (aerial applications or boom sprayers using flat-fan nozzles) these species will be controlled or partially controlled using 1 pint of this product per acre. Applications must be made using 3 to 10 gallons of carrier volume per acre. Use nozzles that ensure thorough coverage of foliage and treat when weeds are in an early growth stage.

Oats

Perennial Weeds

Best results are obtained when perennial weeds are treated after they reach the reproductive stage of growth (seedhead initiation in grasses and bud formation in broadleaves). For non-flowering plants, best results are obtained when the plants reach a mature stage of growth. In many situations, treatments are required prior to these growth stages. Under these conditions, use higher application rate within the recommended range.

Ensure thorough coverage when using spray-to-wet treatments using hand-held equipment. When using hand-held equipment for low volume directed spot treatments, apply a 5 to 10 percent solution of this product.

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WEED SPECIES	Rate (QT/A)	Hand-Held % Solution
Alfalfa*	1	2
Alligatorweed*	4	1.5
Anise (fennel)	2-4	1-2
Bahiagrass	3-5	2
Beachgrass, European <i>(Ammophila arenaria)</i>	-	5
Bentgrass*	1.5	2
Bermudagrass	5	2
Bermudagrass, water (knotgrass)	1.5	2
Bindweed, field	4-5	2
Bluegrass, Kentucky	2	2
Blueweed, Texas	4-5	2
Brackenfern	3-4	1-1.5
Bromegrass, smooth	2	2
Bursage, woolly-leaf	-	2
Canarygrass, reed	2-3	2
Cattail	3-5	2
Clover; red, white	3-5	2
Cogongrass	3-5	2
Dallisgrass	3-5	2
Dandelion	3-5	2
Dock, curly	3-5	2
Dogbane, hemp	4	2
Fescue (except tall)	3-5	2
Fescue, tall	1-3	2
German ivy	2-4	1-2
Guineagrass	3	1
Horsenettle	3-5	2
Horseradish	4	2
lceplant	2	1.5-2
Jerusalem artichoke	3-5	2
Johnsongrass	2-3	1

WEED SPECIES	Rate (QT/A)	Hand-Held % Solution
Kikuyugrass	2-3	2
Knapweed	4	2
Lantana	-	1-1.25
Lespedeza	3-5	2
Milkweed, common	3	2
Muhly, wirestem	2	2
Mullein, common	3-5	2
Napiergrass	3-5	2
Nightshade, silverleaf	2	2
Nutsedge; purple, yellow	3	1-2
Orchardgrass	2	2
Pampasgrass	3-5	1.5-2
Paragrass	3-5	2
Pepperweed, perennial	4	2
Phragmites*	3-5	1-2
Poison hemlock	2-4	1-2
Quackgrass	2-3	2
Redvine*	2	2
Reed, giant	4-5	2
Ryegrass, perennial	2-3	1
Smartweed, swamp	3-5	2
Spurge, leafy*	-	2
Sweet potato, wild*	-	2
Thistle, artichoke	2-3	1-2
Thistle, Canada	2-3	2
Timothy	2-3	2
Torpedograss*	4-5	2
Trumpetcreeper*	2-3	2
Vaseygrass	3-5	2
Velvetgrass	3-5	2
Wheatgrass, western	2-3	2

Woody Brush and Trees

*Partial control

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 sum-mer when brush species are at high moisture content and are flowering.

Ensure thorough coverage when using spray-to-wet treatments using hand-held equipment. When using hand-held equipment for low volume directed-spray spot treatments, apply a 5 to 10 percent solution of this product.

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

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

	Broadcast	Hand-Held
	Rate	Spray-to-Wet
WEED SPECIES	(QT/A)	% Solution
Alder	3-4	1-1.5
Ash*	2-5	1-2
Aspen, quaking	2-3	1-1.5
Bearclover (Bearmat)*	2-5	1-2
Beech*	2-5	1-2
Birch	2	1
Blackberry	3-4	1-1.5
Blackgum	2-5	1-2
Bracken	2-5	1-2
Broom; French, Scotch	2-5	1.5-2
Buckwheat, California*	2-4	1-2
Cascara*	2-5	1-2
Catsclaw*	-	1-1.5
Ceanothus*	2-5	1-2
Chamise*	2-5	1
Cherry; bitter, black, pin	2-3	1-1.5
Coyote brush	3-4	1-2
Deerweed	2-5	1
Dogwood*	2-5	1-2
Elderberry	2	1
Elm*	2-5	1-2
Eucalyptus	_	2
Gorse*	2-5	1-2
Hasardia*	2-4	1-2
Hawthorn	2-3	1-1.5
Hazel	2	1
Hickory*	2-5	1-2
Honeysuckle	3-4	1-1.5
Hornbeam, American*	2-5	1-2
Kudzu	4	2
Locust, black*	2-4	1-2
Madrone resprouts*		2
Manzanita*	2-5	1-2
Maple, red	2-4	1-1.5
Maple, sugar		1-1.5
Monkey flower*	2-4	1-2

WEED SPECIES	Broadcast Rate (QT/A)	Hand-Held Spray-to-Wet % Solution
Oak; black, white*	2-4	1-2
Oak, post	3-4	1-1.5
Oak; northern, pin	2-4	1-1.5
Oak, Scrub*	2-4	1-1.5
Oak; southern, red	2-3	1-1.5
Peppertree, Brazilian		
(Florida holly)*	2-5	1-2
Persimmon*	2-5	1-2
Pine	2-5	1-2
Poison ivy	4-5	2
Poison oak	4-5	2
Poplar, yellow*	2-5	1-2
Redbud, eastern	2-5	1-2
Rose, multiflora	2	1
Russian olive*	2-5	1-2
Sage, black	2-4	1
Sage, white*	2-4	1-2
Sage brush, California	2-4	1
Salmonberry	2	1
Saltcedar*	2-5	1-2
Sassafras*	2-5	1-2
Sourwood*	2-5	1-2
Sumac; laurel, poison, smooth, sugarbush, winged*	2-4	1-2
Sweetgum	2-3	1-1.5
Swordfern*	2-5	1-2
Tallowtree, Chinese	-	1
Tan oak resprouts*	-	2
Thimbleberry	2	1
Tobacco, tree*	2-4	1-2
Toyon*	-	2
Trumpetcreeper	2-3	1-1.5
Vine maple*	2-5	1-2
Virginia creeper	2-5	1-2
Waxmyrtle, southern*	2-5	1-2
Willow	3	1
Yerbasenta*	-	2
*Partial control		

DISCLAIMER

The label instructions for use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of **Cheminova**. All risks shall be assumed by the user.

Cheminova warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for use therein described when used in accordance with the Directions for Use set forth in the Complete Directions for Use booklet (Directions), subject to the risks referred to above.

Any damage arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages, such as loss of profits or values or any other special or indirect damages.

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