

1381-192

11/26/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

11-26-12

Diana Williams
Winfield Solutions, LLC
P O Box 64589
MS 5705
St Paul, MN 55164

Subject EPA Reg 1381-192 / Cornerstone Plus Notification

Dear Ms Williams

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 10-17-12 for the product EPA Reg 1381-192 / Cornerstone Plus. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions please call Erik Kraft at 703-308-9358 or email at Kraft.Erik@epa.gov

Sincerely,

A handwritten signature in black ink, appearing to read "Bo Davis", is located below the "Sincerely," text.

Kable "Bo" Davis
Product Manager 25
Herbicide Branch
Registration Division (7505P)



United States
Environmental Protection Agency

Washington DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

2865

Application for Pesticide -Section I

1 Company/Product Number 1381 192	2 EPA Product Manager Kable Bo Davis	3 Proposed Classification ☒ None ☐ Restricted
4 Company/Product (Name) Cornerstone Plus	PM# 25	
5 Name and Address of Applicant (Include ZIP Code) Winfield Solutions LLC P O Box 64589 St Paul MN 55164 ☐ Check if this is a new address	6 Expedited Review In accordance with FIFRA Section 3(c)(3)(b)(i) my product is similar or identical in composition and labeling to EPA Reg No Product Name	

Section II

☐ Amendment Explain Below	☐ Final printed labels in response to Agency letter dated June 11 2009
☐ Resubmission in response to Agency letter dated _____	☐ Me Too Application
☒ Notification Explain below	☐ Other explain below

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

Notification of removal of statement regarding product not being registered in California for use on Roundup Ready Sugar Beets per PR Notice 98 10

This notification is consistent with the provisions of PR Notice 98 10 and EPA regulations at 40 CFR 152 46 and no other changes have been made to the labeling or the confidential statement of formula of this product I understand that it is a violation of 18 U S C Sec 1001 to willfully make any false statement to EPA I further understand that if this notification is not consistent with the terms of PR Notice 98 10 and 40 CFR 152 46 this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA

Section III

1 Material This Product Will Be Packaged In			
Child Resistant Packaging ☐ Yes ☒ No Certification must be submitted	Unit Packaging ☐ Yes ☒ No If Yes Unit Package Wt No Per Container	Water Soluble Packaging ☐ Yes ☒ No If Yes Package Wt No Per Container	2 Type of Container ☒ Metal ☒ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____
3 Location of Net Contents Information ☒ Label ☐ Container		4 Size(s) of Retail Container 1 2 1/2 30 55 gals	5 Location of Label Directions ☒ On Label ☐ On Labeling accompanying product
6 Manner In Which Label Is Affixed To Product ☐ Lithograph ☐ Paper Glued ☐ Stenciled ☒ Other (self adhesive booklet)			

Section IV

1 Contact Point (Complete items directly below for identification of individual to be contacted if necessary to process this application)		
Name Diana Williams	Title Registration Specialist	Telephone No (Include Area Code) 651 375 5205
Certification I certify that the statements I have made on this form and all attachments thereto are true accurate and complete I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law		6 Date Application Received (Stamped)
2 Signature 	3 Title Registration Specialist	
4 Typed Name Diana Williams	5 Date October 17 2012	

P 651-375-5205 P.O. BOX 64589, MS 5705, ST PAUL MN 55164
F 651-375-7337 SHIP TO 1080 COUNTY ROAD F WEST, MS 5705, SHOREVIEW MN 55126-2910

October 17, 2012

Mr. Kable Davis
Product Manager, Team 25
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
1200 Pennsylvania Ave., NW
Washington, DC 20460

Subject: Notification of Revision to Label
Cornerstone Plus, EPA Reg. No. 1381-192

Dear Mr. Davis:

Enclosed is an application to amend the subject product's labeling, by Notification.

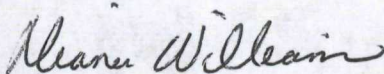
We are deleting the statement "This product is not registered by California for use on Roundup Ready sugar beet", from the labeling. The statement currently appears within the use directions section covering "Sugar Beet with the Roundup Ready Gene". We believe it may have been included at a time when the version of our label covering that use was not yet registered in California. We do not believe there are any Federal restrictions regarding the use of glyphosate on Roundup Ready sugar beets in California. A similar statement does not appear on the registered labeling of other glyphosate product labels covering that use. Removal of the statement from our Federal label will facilitate registering the use in California.

In addition to an application form, enclosed is a highlighted version of the labeling, indicating the statement we are deleting from page 46. Also enclosed is a non-highlighted version of the labeling, from which the statement has been entirely removed from page 46.

Other than the removal of that statement and a change in the label code number on the front panel, no other changes have been made to the labeling.

If there are questions concerning this Notification, please do not hesitate to contact me.

Sincerely,



Diana Williams
Registration Specialist

Enclosures

"Not P 47 v1" 4865

Cornerstone[®] Plus

GROUP	9	HERBICIDE
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AVOID HERBICIDE CONTACT WITH FOLIAGE GREEN STEMS EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS DESIRABLE PLANTS AND TREES BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT

Read the entire label before using this product Use only according to label instructions
Read CONDITIONS OF SALE AND WARRANTY before buying or using If terms are not acceptable return product at once unopened

ACTIVE INGREDIENT

*Glyphosate N-(phosphonomethyl) glycine in the form of its isopropylamine salt 41 0%

OTHER INGREDIENTS 59 0%

TOTAL 100 0%

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

KEEP OUT OF REACH OF CHILDREN CAUTION

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 - Call a poison control center or doctor for treatment advice
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact 1-877-424-7452 for emergency medical treatment information	

SEE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND USE DIRECTIONS

EPA Reg No 1381-192
Distributed By
Winfield Solutions LLC
P O Box 64589
St Paul MN 55164-0589

EPA Est No 070989-MO-001^S
EPA Est No 070989-IA-001^H
(First Letter in Lot No indicates Est No)
NET CONTENTS 2.5 Gals (9.46 Liters)
LOT NO

1/1017/2

WINFIELD™

Agrisolutions

5765
2

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic
CAUTION

Causes moderate eye irritation. 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.

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.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

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

User Safety Recommendations

Users should

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

ENVIRONMENTAL HAZARDS

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

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.

Read the entire label before using this product. Use only according to label instructions. Read WARRANTY DISCLAIMER and LIMITATION OF LIABILITY before buying or using. If terms are not acceptable, return product at once unopened.

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 pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is coveralls, chemical resistant gloves such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber ≥ 14 mils, and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

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

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

STORAGE AND DISPOSAL

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

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

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 destroyed

Container Disposal Use label language appropriate for container size and type

Nonrefillable containers Do not reuse or refill this container Clean container promptly after emptying

Nonrefillable container equal to or less than 5 gallons Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container ¼ full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities by burning If burned stay out of smoke

Nonrefillable container greater than 5 gallons Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container ¼ full with water Replace and tighten closures Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities by burning If burned stay out of smoke

Refillable container Refill this container with pesticide only Do not reuse this container for any other purpose Cleaning the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller To clean the container before final disposal empty the remaining contents from this container into application equipment or mix tank Fill the container about 10 percent full with water Agitate vigorously or recirculate water with the pump for 2 minutes Pour or pump rinsate into application equipment or rinsate collection system Repeat this rinsing procedure two more times Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities by burning If burned stay out of smoke

FOR CHEMICAL EMERGENCY Spill, leak, fire, exposure, or accident, call
CHEMTREC 1 800 424-9300

GENERAL INFORMATION

Product Description This product is a postemergent 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 can 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 can 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 visible symptoms. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of above-ground growth and deterioration of underground plant parts.

Stage of Weeds Annual weeds are easiest to control when they are small. Best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity. Refer to the annual, perennial, 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 and 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 or irrigation soon after application may wash this product off of the foliage and a repeat application may be required for adequate control.

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

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

No Soil Activity Weeds must be emerged at the time of application to be controlled by this product. Weeds germinating from seed after application will not be controlled. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the herbicide and will continue to grow.

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

Tank Mixing This product does not provide residual weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive label directions for each product in the mixture. The tank mix product that is used must be registered for the proposed use site.

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 recommended on this label may result in reduced performance.

Annual Maximum Use Rate Except as otherwise specified in the crop section of this label, the combined total of all treatments must not exceed 8 quarts of this product per acre per year. For applications in noncrop 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 containing products does not exceed stated maximum use rate.

For Glyphosate Weed Resistance Management Glyphosate the active ingredient in this product is a Group 9 herbicide. Target site resistance to Group 9 herbicides is rare. Although rare in occurrence, any weed population may contain plants naturally resistant to Group 9 herbicides. Weed species resistant to Group 9 herbicides may be effectively managed utilizing another herbicide from a different Group or using other cultural practices.

Weed resistance management recommendations for Group 9 herbicides are:

Ensure optimum weed control by making applications at the right time (correct weed size) and utilizing the recommended label rate for the most difficult to control weed in your field.

Base decisions on local needs and use the tool(s) necessary to obtain optimum weed control and minimize weed escapes.

Avoid tank mixtures that reduce this product's efficacy (through antagonism) or which encourage rates of this product below the label recommendations.

Scout treated weed populations for escapes 2 to 4 weeks after application.

Report any incidence of repeated nonperformance of this product on a particular weed to the local retailer or county extension agent.

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

MIXING

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

NOTE: Reduced results may occur if water containing soil is used, such as visibly muddy water or water from ponds and ditches that is not clear.

Mixing with Water

This product mixes readily with water. Mix spray solutions of this product as follows:

Fill the mixing or spray tank with the required amount of water.

Add the 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 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 carrier by mixing small proportional quantities in advance.

Mix labeled tank mixtures of this product as follows:

1. Place a 20 to 35 mesh screen or wetting basket over filling port.
2. Through the screen, fill the spray tank one-half full with water and start agitation.
3. If ammonium sulfate is used, add it slowly through the screen into the tank. Continue agitation. Ensure that dry ammonium sulfate is completely dissolved in the spray tank before adding other products.
4. If a wettable powder is used, make a slurry with the water carrier and add it SLOWLY through the screen into the tank. Continue agitation.
5. 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.
6. 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.
7. Continue filling the spray tank with water and add the required amount of this product near the end of

- the filling process
- 8 If a surfactant is used add it to the spray tank before completing the filling process
 - 9 Add individual formulations to the spray tank as follows wettable powder flowable emulsifiable concentrate drift control additive water soluble liquid

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 a 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 Volume	Amount of Cornerstone Plus					
	1/2 %	1 %	1 1/2 %	2 %	5 %	10 %
1 Gallon	2/3 oz	1 1/3 oz	2 oz	2 2/3 oz	6 1/2 oz	13 oz
25 Gallon	1 pt	1 qt	1 1/2 qt	2 qt	5 qt	10 qt
100 Gallon	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 large container Fill sprayer with the mixed solution

Surfactants

Surfactants that are labeled for use with herbicides can be added to the spray solution Do not reduce rates of this herbicide when adding surfactants Read and carefully observe cautionary statements and other information appearing on the additives label When an adjuvant is to be used with this product Winfield Solutions LLC recommends the use of a Chemical Producers and Distributors Association certified adjuvant

Ammonium Sulfate

The addition of 1 to 2 percent dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this product particularly under hard water conditions 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 CDA equipment. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label. 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 MISTBLOWERS

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 EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES.

AERIAL EQUIPMENT

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

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

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.

For aerial application in Arkansas, refer to the ARKANSAS ONLY section of this label for specific instructions, restrictions and requirements.

Avoid direct application to any body of water.

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 and from spills PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART LANDING GEAR IS MOST SUSCEPTIBLE The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion

AERIAL SPRAY DRIFT MANAGEMENT

DRIFT MAY CAUSE DAMAGE TO ANY OTHER VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION APPROPRIATE BUFFER ZONES MUST BE MAINTAINED

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

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

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

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory

Aerial Drift Reduction Advisory

Importance of Droplet Size

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

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-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 – 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 cross-wind the swath will be displaced downwind Therefore on the up and downwind edges of the field the applicator must compensate for this displacement by adjusting the path of the aircraft upwind Swath adjustment distance should increase with increasing drift potential

(higher wind smaller drops etc)

Wind

Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors including droplet size and equipment type determine drift potential at any given speed. Application must 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 Inversion

Applications must 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 connected cloud (under low wind conditions) indicates an inversion, while smoke that moves upwards and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

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

FOR AERIAL APPLICATION IN CALIFORNIA ONLY

Directions for Use

This label must be in the possession of the user at the time of the herbicide application.

See GENERAL INFORMATION and MIXING sections of this label for essential product performance information.

See the appropriate section of this label for specific recommendations on the use of this product in individual crops.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE, GREEN STEMS, OR FRUIT OF DESIRABLE CROPS, PLANTS, TREES, OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

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

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

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

When tank mixing this product with 2,4-D for aerial applications, only 2,4-D amine formulations may be used. This tank mixture may be used for fallow and reduced tillage systems and alfalfa and pasture renovation applications only.

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

DO NOT EXCEED A MAXIMUM RATE OF 2 QUARTS PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR IN COTTON AND ROUNDUP READY COTTON PRIOR TO HARVEST IN FALLOW AND REDUCED TILLAGE SYSTEMS AND ALFALFA AND PASTURE RENOVATION APPLICATIONS

DO NOT EXCEED A MAXIMUM RATE OF 1 QUART PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR IN ALFALFA CORN WHEAT AND ROUNDUP READY CORN PRIOR TO HARVEST THIS RESTRICTION ALSO APPLIES TO OVER-THE-TOP APPLICATIONS IN ROUNDUP READY CORN AND COTTON

Aerial Equipment

Use the specified rates of this product in 3 to 15 gallons of water per acre

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 FAVORS DRIFT DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION APPROPRIATE BUFFER ZONES MUST BE MAINTAINED

Use the following guidelines when aerial applications are made near crops or desirable perennial vegetation after bud break and before total leaf drop and/or near other desirable vegetation or annual crops

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

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 streaking 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 PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART LANDING GEAR IS THE MOST SUSCEPTIBLE The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion

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

Directions For Use

This label should be in the possession of the user at the time of the herbicide application

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF THE SPRAY WITH FOLIAGE GREEN STEMS EXPOSED NON-WOODY ROOTS OR FRUIT OF DESIRABLE CROPS PLANTS TREES OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT

See GENERAL INFORMATION and MIXING sections of this label for essential product information

Applicable Area

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 Advisor and aerial applicator

Written Recommendations

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

Aerial Applicator Training and Equipment

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

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

Note For aerial application from April 1 through February 14 refer to the FOR AERIAL APPLICATION IN CALIFORNIA ONLY section of this label

ARKANSAS ONLY

AVOID DRIFT DO NOT APPLY INTO STILL AIR WHERE THERE IS A TEMPERATURE INVERSION LAYER LOW ENOUGH FOR FINE SPRAY PARTICLES TO BECOME SUSPENDED AND MOVE OUTSIDE THE TARGET AREA WHEN THE INVERSION LAYER MOVES DO NOT APPLY WHEN

WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION THAT FAVORS DRIFT DRIFT IS LIKELY TO CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION APPROPRIATE BUFFER ZONES MUST BE MAINTAINED

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

Applications should typically be made with the nozzle release point at 8 to 15 feet above the top of the target plants unless a greater height is required for aircraft safety The distance of the outermost nozzles on the boom must not exceed 75% of the length of the wingspan or rotor In many cases reducing this distance to 65% of the length of the wingspan or rotor will improve drift control without affecting the swath width

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

Do not apply this product when wind speeds are in excess of 10 miles per hour Do not apply when there is a low-level inversion where fine spray particles could be suspended in still air and move outside the target area when the inversion layer moves These conditions may occur when wind speeds are less than 2 mph

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

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

ARKANSAS, LOUISIANA, MISSISSIPPI, MISSOURI, AND TENNESSEE ONLY

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

Aerial applications of this product may be made in fallow systems and conventional reduced and zero tillage systems For applications via aerial equipment use the specified rates of this product in 3 to 10 gallons of water per acre Do not exceed a rate of 3 quarts per acre

The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions including lesser velocities will allow spray drift to occur

GROUND BROADCAST EQUIPMENT

Use the specified rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified As density of weeds increases spray volume should be increased within the 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 AND 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 specified 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 specified 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 solution If necessary extend the front and rear flaps of the hoods to reach the ground in deep furrows EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION

This equipment must be set up and operated in a manner that avoids bouncing or raising the hoods off the ground in any way If the hoods are raised spray particles may escape and come into contact with the crop causing damage or destruction of the crop 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 run-off 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 to 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 mph to avoid bouncing of the spray hoods

Maximum wind speed 10 mph

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

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 opposite directions.

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

Do not use wiper equipment when weeds are wet.

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

Do not add surfactant to the herbicide solution.

For rope or sponge wick applicators: Mix 1 gallon of this product in 2 gallons of water to prepare a 33% solution. Apply this solution to weeds listed in this section.

For porous-plastic applicators: Solutions ranging from 33 to 100% of this product in water may be used in porous-plastic wiper applicators.

When applied as recommended, this product **CONTROLS** the following weeds:

Corn volunteer*	Sicklepod
Panicum Texas	Spanishneedles
Rye common	Starbur bristly
Shattercane	

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

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

* Except volunteer Roundup Ready Corn

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 CROPS LISTED BELOW, GROUPED ALPHABETICALLY. SEE THE INDIVIDUAL CROP CATEGORIES FOR SPECIFIC 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, pre-emergence, at planting, Selective equipment in row middles (hooded or shielded sprayers or wiper applicators) and postharvest treatments.

General Use Instructions

Apply this product during fallow intervals preceding planting, prior to planting or transplanting, at-planting or pre-emergent to annual and perennial crops listed in this label, except where specifically limited. For any crop not listed in this label, applications must be made at least 30 days prior to planting. Unless otherwise specified, weed control applications may be made according to the rates listed in the annual, perennial and woody brush tables in this label. Repeat applications may be made up to a 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 control tall weeds. Refer to the **SELECTIVE EQUIPMENT** section of this label for essential precautions when using hooded sprayers or wipers to avoid crop injury caused by leakage of spray mists or dripping onto crops. Crop injury is possible with these applications and shall be the sole responsibility of the applicator.

The maximum use rates stated throughout this product's labeling apply to this product combined with the use of all other herbicides containing glyphosate or sulfosate as the active ingredient, whether applied as mixtures or separately. Calculate the application rates and ensure that the total use of this and other glyphosate or sulfosate containing products does not exceed stated maximum use rate.

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 pre emergence and at-planting applications applications must be made before crop emergence to avoid severe crop injury 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 single 0.5 inch application of water either by natural rainfall or via a sprinkler system 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 on this product's labeling treatments with selective equipment including wipers and hooded sprayers must be made at least 14 days prior to harvest Postharvest 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 percent 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

Asparagus

Types of applications Those listed in the ANNUAL AND PERENNIAL CROPS section of this label plus the following General weed control site preparation spot treatment

General Weed Control, Site Preparation

Use instructions This product may be applied prior to planting or transplanting asparagus

Precautions, restrictions Do not apply within a week before the first asparagus spears emerge

Spot Treatment

Use instructions This product may be applied immediately after cutting but prior to the emergence of new spears

Precautions, restrictions Do not treat more than 10 percent of the total field area to be harvested Do not harvest within 5 days of treatment

Postharvest

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

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

Cereal and Grain Crops

Labeled crops Barley buckwheat millet (pearl proso) oats rice teosinte triticale wheat (all types) wild rice

Types of applications Those listed in the ANNUAL AND PERENNIAL CROPS section of this label plus the following Red rice control prior to planting rice spot treatment (except rice) wiper applications over the-top (wheat and feed barley only) preharvest (wheat and feed barley only) for barnyardgrass control (*Echinochloa crus-galli*) in rice using renovation treatments in California only

Do not treat rice fields or levees when field contains floodwater

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 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 the target area for the same reason

Wiper Applications (wheat and feed barley only)

Use instructions Wiper applications may be used in wheat or feed barley To control common rye or cereal rye apply after the weeds have headed and achieved maximum growth when the rye is at least 6 inches above the wheat crop

Precautions, restrictions Allow at least 35 days between application and harvest Do not use roller applicators

Preharvest (wheat and feed barley only)

Use instructions This product provides weed control when applied prior to the harvest of wheat and 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 percent moisture or less Stubble may be grazed immediately after harvest

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

Precautions, restrictions Do not apply more than 1 quart of this product per acre Allow 7 days between application and harvest or grazing Do not apply to wheat or barley grown for seed as a reduction in germination or vigor may occur

Postharvest

Use instructions This product may be applied after harvest of cereal crops 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

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

South Dakota Only

For nonselective control of listed annual weeds in small grain cropping systems

Use instructions For ground applications use 3 to 5 gallons of water per acre For aerial applications use 2 to 3 gallons of water per acre

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

California Only**Barnyardgrass control (*Echinochloa crus-galli*) in rice using renovation treatments**

Use instructions. This product may be applied as a renovation treatment in rice crops to control barnyardgrass infestations using ground broadcast spray or hand-held equipment. Renovation is defined as herbicide treatment that will produce crop and weed destruction in an entire field or contiguous area treated within a field. Follow the application methods and recommended treatment rates in this label.

Precautions, restrictions. 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. The rice straw and stubble from the treated area including a 25-foot buffer zone on all sides shall not be used for grazing, animal bedding or any feed purposes.

No aerial applications are permitted for rice renovation.

Corn

Types of corn. Field corn, seed corn, sweet corn and popcorn.

Types of applications. Those listed in the ANNUAL AND PERENNIAL CROPS section of this label plus the following: Spot treatment, preharvest.

For Roundup Ready corn, 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 corn. Applications must be made prior to emergence of the crop.

The following tank mixtures may be applied before, during or after planting in conventional tillage systems, into a cover crop, established sod or in previous crop residue.

Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre.

2,4-D	DISTINCT [®]	LASSO [®] / ALACHLOR
ATRAZINE	DUAL [®] MAGNUM [®]	LINEX [®] / LOROX [®]
AXIOM [®]	DUAL II MAGNUM	MARKSMAN [®]
BALANCE [®]	EPIC [®]	MICRO-TECH [®]
BANVEL [®] / CLARITY [®]	FRONTIER [®] / OUTLOOK [®]	PROWL [®]
BICEP [®] MAGNUM [®]	FULTIME [™]	PYTHON [®]
BICEP II MAGNUM	GUARDSMAN [®] / LEADOFF [®]	SIMAZINE
BULLET [®]	HARNESS [®]	SURPASS [®]
CHARGER MAX [®]	HARNESS XTRA	SURPASS 100
DEGREE [™]	HARNESS XTRA 5.6L	TOPNOTCH [™]
DEGREE XTRA [™]	LARIAT [®]	

For improved burndown, this product may be tank mixed with 2,4-D or dicamba.

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

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

THE TANK MIX RECOMMENDATIONS IN THIS SECTION ARE NOT REGISTERED IN CALIFORNIA

Hooded Sprayers

Use instructions This product may be used through hooded sprayers for weed control between the rows of corn (all) including field corn sweet corn and popcorn Only hooded sprayers that completely enclose the spray pattern may be used See additional instruction for the use of hooded sprayers in the SELECTIVE EQUIPMENT 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 applicator Do not apply more than 1 quart of this product per acre for each application and no more than 3 quarts per acre per year for hooded sprayer applications

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

Postharvest

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

Precautions, restrictions Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation

Cotton

Types of applications Those listed in the ANNUAL AND PERENNIAL CROPS section of this label plus the following Selective equipment spot treatment preharvest

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

Preplant, Pre-emergence, and 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 APPLICATION EQUIPMENT AND TECHNIQUES section of this label for information on proper use and calibration of this equipment

Spot Treatment

Use instructions For spot treatments apply this product prior to boll opening of cotton

Precautions, restrictions Do not treat more than 10 percent of the total field area to be harvested The

crop receiving the 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 and cotton regrowth inhibition when applied prior to harvest of cotton. For weed control, apply at rates given in the annual, perennial and woody brush tables of this label. For cotton regrowth inhibition, apply 1 pint to 2 quarts of this product per acre.

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.

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 FOR PREHARVEST APPLICATION OF THIS PRODUCT TO COTTON IS PROHIBITED.

Fallow Systems

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 suppress many perennial weeds in fallow fields. Ground or aerial application equipment may be used. Tank mixtures with 2,4-D and dicamba may be used. 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 adjacent 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, perennial and woody brush tables of this label.

In addition, 12 fluid ounces of this product plus 2 to 3 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, shepherd's purse.

16 fluid ounces of this product plus 2 to 3 ounces of Goal 2XL per acre will control the following weeds with the maximum height or length indicated: 6 – common cheeseweed, groundsel, pigweed (*Cyperus canadensis*); 12 – chickweed, London rocket, shepherd's purse.

Aid-to-Tillage

Use instructions This product may be used in conjunction with tillage practices in fallow systems or preplant to labeled crops to control downy brome, cheat, volunteer wheat, tansy mustard and foxtail. 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 performance.

Grain Sorghum (Milo)

Type of applications Those listed in the ANNUAL AND PERENNIAL CROPS section of this label plus the following: Spot treatment over the-top wiper applicators preharvest.

Preplant, Pre-emergence, At planting

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

Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre.

ATRAZINE
BICEP II MAGNUM
BULLET

CHARGER MAX®
DUAL II MAGNUM
LARIAT

LASSO
MICRO-TECH

For difficult to control annual weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 2 pints per acre in these tank mixtures. For other labeled annual weeds, apply 1.5 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 and 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 EQUIPMENT" section of this label.

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

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

Hooded Sprayers

Use instructions This product may be used through hooded sprayers for weed control between the rows of milo. Only hooded sprayers that completely enclose the spray pattern may be used. See additional instruction for the use of hooded sprayers in the "SELECTIVE EQUIPMENT" 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 exterior 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 manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the applicator. Do not graze or feed milo forage or fodder following 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 quarts per acre per year for hooded sprayer applications.

Preharvest

Use instructions Make applications at 30% 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 product 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.

Postharvest

Use instructions This product may be applied after harvest of grain sorghum. 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.

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

Labeled crops Peppermint, spearmint

Types of applications Those listed in the ANNUAL AND PERENNIAL CROPS section of this label plus the following: Over-the-top wiper application and spot treatment.

Over-the-top Wiper Applicators or Spot Treatments

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, handguns, handwands or any other hand-held or motorized spray equipment used to direct the spray solution onto 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 application and harvest. Further applications may be made in the same area at 30-day intervals. In spot treatment applications, no more than 10 percent of the total field area to be harvested should be treated at one time. The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside the target area for this reason. In wiper applications, contact of the herbicide solution with the crop may result in damage or destruction.

Peanuts

Types of applications Those listed in the ANNUAL AND PERENNIAL CROPS section of this label plus the following: General weed control, site preparation.

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 peanuts.

Pineapple

Types of applications Those listed in the ANNUAL AND PERENNIAL CROPS section of this label plus the following: General weed control, site preparation.

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 pineapples

Precautions, restrictions Do not feed or graze treated pineapple forage following application

Soybeans

Types of applications Those listed in the ANNUAL AND PERENNIAL CROPS section of this label plus the following Spot treatment preharvest and selective equipment

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

Preplant, At-planting and Pre-emergence

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

Apply the following tank mixtures in 10 to 20 gallons of water per acre

AIM™	DUAL MAGNUM	LOROX PLUS®
AMPLIFY™	DUAL II MAGNUM	PROWL
ASSURE® II	FIRSTRATE™	PURSUIT®
AUTHORITY®	FLEXSTAR®	PURSUIT PLUS®
BOUNDARY™	FRONTIER / OUTLOOK	REFLEX®
CANOPY®	FUSION™	SCEPTER®
CANOPY XL®	GAUNTLET™	SENCOR®
CHARGER MAX®	LASO / ALACHLOR	SQUADRON®
COMMAND®	LINEX	STEEL®
COMMAND XTRA®	LOROX / LINURON	VALOR®
DOMAIN®		

For improved burndown this product may be tank mixed with 2 4-D or 2 4-DB See the 2 4-D label for intervals between application and planting

Annual weeds For difficult-to-control weeds such as fall panicum barnyardgrass crabgrass shattercane and broadleaf signalgrass up to 2 inches tall and Pennsylvania smartweed up to 6 inches tall apply this product at 2 pints per acre in these tank mixtures For other labeled annual weeds apply 1 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

Precautions, restrictions THE TANK MIX RECOMMENDATIONS IN THIS SECTION ARE NOT REGISTERED IN CALIFORNIA

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 outs to 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 perennial 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 preharvest applications. Do not apply more than 2 quarts 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 restriction is reduced to 14 days after last preharvest application.) Preharvest application is not recommended 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 "APPLICATION 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 of this label plus the following: Spot treatment.

Preplant, At-planting and Pre emergence

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 foliage of vegetation to be controlled. Volunteer or diseased sugarcane should have at least 7 new leaves.

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

Fallow Treatments

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

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 section of this label for additional use instructions.

Precautions, restrictions. Do not allow treated weeds to come in 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.

Sunflowers

Types of applications. Those listed in the ANNUAL AND PERENNIAL CROPS section of this label.

Use instructions. This product may be applied before, during or after planting sunflowers. Applications

must be made prior to the emergence of the crop

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 1 quart of this product per acre for sunflowers. Make only one preplant or pre-emergent application per year. Do not feed or graze sunflower forage following application of this product.

Vegetable Crops

Labeled crops Amaranth arugula artichoke (Jerusalem) beans (all) beet greens garden beets broccoli (all) Brussels sprouts cabbage (all) cabbage (Chinese) cantaloupe cardoon cavalo broccolo carrot cauliflower casaba melon celery celery (Chinese) celeriac celtuce chard (Swiss) chayote chervil chick peas chicory, chrysanthemum collards corn salad crenshaw melon cress cucumber dandelion dock (sorrel) eggplant endive fennel (Florence) garlic gherkin ginseng gourds ground cherry guar honeydew melon honey ball melon horseradish kale kohlrabi leek lentils lettuce mango melon melons (all) mizuna muskmelon mustard greens okra onion oriental radish parsley parsnips peas (all) pepinos pepper (all) Persian melon potato (Irish) pumpkin purslane radish rape greens rhubarb rutabaga salsify shallot spinach (all) mustard spinach squash (summer winter) sugar beets sweet potato tomatillo tomato turnip watercress watermelon yams

Types of applications Chemical fallow preplant fallow beds preplant pre-emergence prior to transplanting vegetables at-planting selective equipment in row middles (hooded or shielded sprayers or wiper applicators) directed applications (in nonbearing ginseng) over-the-top wipers (rutabagas 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 can cause crop injury from the plastic prior to transplanting. Residues must be removed by a single 0.5 inch application of water either by natural rainfall event or via a sprinkler system. Applications made at emergence will result in injury or death to emerged seedlings.

For the following crops apply only prior to planting. Allow at least 3 days between application and planting of cantaloupe casaba melon crenshaw melon cucumber eggplant garlic gherkin gourds ground cherry honeydew melon honey ball melon mango melon melons (all) muskmelon pepper (all) Persian melon pumpkin squash (summer winter) tomatillo tomato watercress and watermelon.

Nonbearing ginseng. This product may be used for general weed control in established nonbearing ginseng. Direct applications so that there is no contact of this product with the ginseng plant. Applications may be made with boom equipment CDA shielded sprayers hand held and high-volume wands lances orchard guns or with wiper application equipment. Applications must be made at least one year prior to harvest. Extreme care must be exercised to avoid contact of herbicide solution spray drift or mist with foliage or green bark of trunk branches suckers fruit or other parts of desirable plants. Contact of this product with other than matured brown bark can result in serious crop damage.

Wiper applicators may be used over-the-top in rutabagas. Allow at least 14 days between application and harvest.

TREE, VINE AND SHRUB CROPS (Alphabetical)

NOTE THIS SECTION GIVES GENERAL DIRECTIONS THAT APPLY TO ALL CITRUS CROPS TREE FRUITS TREE NUTS VINE AND SHRUB CROPS GROUPED ALPHABETICALLY BELOW. SEE THE INDIVIDUAL CROP SECTIONS FOR INSTRUCTIONS PREHARVEST INTERVALS PRECAUTIONS AND RESTRICTIONS FOR SPECIFIC CROPS.

Types of applications Preplant (site preparation) broadcast sprays general weed control middles (between rows of trees vines or bushes) strips (within rows of trees vines or bushes) selective

equipment such as shielded sprayers and wiper treatments (except kiwi) perennial grass suppression directed sprays spot treatments cut stump

Applications may be made with boom equipment CDA equipment shielded sprayers hand-held and high-volume wands lances orchard guns or with wiper applicator equipment except as directed

General Use Instructions

This product may be applied in middles strips or for general weed control in established citrus groves tree fruit and tree nut groves orchards berries and vineyards. It may also be used for site preparation prior to planting or transplanting of these crops. Apply 1 pint to 5 quarts per acre according to the ANNUAL WEEDS RATE TABLE and PERENNIAL WEEDS RATE TABLE 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 products labeling apply to this product combined with the use of all other herbicides containing glyphosate or sulfosate as the active ingredient whether applied as mixtures or separately. Calculate the application rates and ensure that the total use of this and other glyphosate or sulfosate containing products does not exceed stated maximum use rate.

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 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 crops. For berry crops hooded or shielded sprayers must be fully enclosed including top sides front and back. Only wiper 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)

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 oz/A of this product plus 3 to 12 oz/A of Goal 2XL will control annual weeds with a maximum height or diameter of 6 inches including crabgrass, common groundsel, junglerice, common lambsquarters, redroot pigweed, London rocket, common ryegrass, shepherd's purse, annual sowthistle, filaree (suppression), horseweed/marestail, *(Conyza canadensis)*, stinging nettle and common purslane (suppression). 16 to 32 oz/A of this product plus 3 to 12 oz/A 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)

Use instructions This product may be applied in rows of tree or vine crops and may also be tank mixed with the following products:

DEVIRINOL [®] 50 DF	PRINCEP [®] CALIBER [®] 90
DIREX [®] 4 L	SIMAZINE 4 L
GOAL 2XL	SIMAZINE 80W
KARMEX DF	SIM-TROL [™] 4L
KROVAR I	SOLICAM [®] DF
KROVAR II	SURFLAN [™] AS
PROWL	SURFLAN 75W

Do not apply these tank mixtures in Puerto Rico

Refer to 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 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 minimum of 3 inches in height Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated East of the Rocky Mountains rates of 6 to 10 fluid ounces per acre should be used in shaded corridors or where lesser degree of suppression is desired

Cut Stump (tree crops)

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

Citrus trees Calamondin chironja citron citrus hybrids grapefruit kumquat lemon lime mandarin (tangerine) orange (all) pummelo tangelo tanger

Fruit trees Apple apricot cherry (sweet sour) cabapple 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% 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.

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 blueberry boysenberry cranberry currant dewberry elderberry gooseberry huckleberry loganberry olallieberry raspberry (black red) youngberry

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 of cranberries. Allow a minimum of 14 days between last application and harvest of other berry crops. Do not make directed sprays within cranberry 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 (interior and perimeter) of cranberry production areas. Hand-held sprayer or other appropriate application 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 hand-held sprayers, use 1 to 2% solution of this product. Spray to wet vegetation, not to run-off.

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.

Postharvest 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 TECHNIQUES in this label may be used. If using hand-held sprayers, use a 0.5 to 1 percent solution of this product. Spray to wet vegetation, not to run-off. 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 harvested. Do not treat more than 10% of the total bog. Allow a minimum of 6 months after last application and re-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 Crops

Labeled crops Calamondin chironja citron citrus hybrids grapefruit kumquat lemon lime mandarin (tangerine) orange (all) pummelo tangelo (ugli) tangor

Florida and Texas only For burndown or control of the weeds listed below apply the specified 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 less than 8 inches tall and 3 quarts when plants are greater than 8 inches tall If goatweed is greater than 8 inches tall the addition of Krovar® II or Karmex® may improve control Refer to the individual product labels for specific crops rates geographic restrictions and precautionary statements

Perennial Weeds

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

Weed Species		Cornerstone Plus Rate per Acre			
		1 QT	2 QT	3 QT	5 QT
Bermudagrass		B	—	PC	C
Guineagrass	Texas & Florida Ridge	B	C	C	C
	Florida Flatwoods	—	B	C	C
Paragrass		B	C	C	C
Torpedograss		S	—	PC	C

Precautions, restrictions Allow a minimum of 1 day between last application and harvest in citrus crops In citron groves apply as directed sprays only

Christmas Trees and Other Non-Food Tree Crops

Labeled crops Pine poplar eucalyptus Christmas trees and other non-food tree crops

Post-directed, Spot Treatment, Wipers

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
UNLESS OTHERWISE DIRECTED 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 Christmas trees

Precautions, restrictions Precautions should be taken to protect nontarget plants during site preparation applications

Pome Fruit

Labeled crops Apple crabapple loquat mayhaw pear (including oriental pear) quince

Precautions, restrictions Allow a minimum of 1 day between last application and harvest in pome crops

Stone Fruit

Labeled crops Apricot cherry (sweet sour) nectarine olive peach plum/prune (all types)

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 damage Remove suckers and low-hanging limbs at least 10 days prior to application Avoid applications near trees with recent pruning wounds or other mechanical injury Apply only near trees that have been planted in the orchard for 2 or more years
EXTREME CARE MUST BE TAKEN TO ENSURE NO PART OF THE PEACH TREE IS CONTACTED

Tree Nuts

Labeled crops Almond beechnut Brazil nut butternut cashew chestnut chinquapin coconut filbert (hazelnut) hickory nut macadamia pecan pistachio walnut (black English)

Precautions, restrictions Allow a minimum of 3 days between last application and harvest of tree nuts except coconuts Allow 14 days between application and harvest in coconut

Tropical and Subtropical Trees and Fruit

Labeled crops Atemoya avocado banana Barbados cherry (acerola) biriba blimbe breadfruit cacao (cocoa) bean canistel carambola (starfruit) cherimoya coffee dates figs guava jaboticaba jackfruit longan lychee mango marmaladebox (genip) papaya persimmon plantain pomegranate sapodilla sapote (black mamey white) soursop sugar apple tamarind tea

Precautions, restrictions Allow a minimum of 1 day between last application and harvest in banana guava papaya and plantain crops Allow a minimum of 14 days between last application and harvest for any 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 pseudostem 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 (15mL) of this product's concentrate per mat (or unit) Remove all fruit from plants and mats (or units) prior to treatment Do not harvest any fruit or plant materials from treated mats (or units) following injection Do not allow livestock to consume treated plant materials Following transplant of new banana plants into treated areas allow plants to become established for 3 months before applying this product for general weed control

Vine Crops

Labeled crops Grapes (raisin table wine) kiwi fruit passion fruit

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 kudzu lespedeza lupin sainfoin trefoil velvet bean vetch (all types)

Types of applications Dormant (alfalfa only) preplant pre emergence at-planting spot treatment wiper applications renovation preharvest

Dormant (alfalfa only)

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

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

Preplant, Pre-emergence, and At-planting

Use 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 Remove domestic livestock before application The crop may be fed or grazed as soon as it reaches sufficient maturity

Preharvest

Use instructions This product may be used in declining stands or any stand where crop injury or destruction is acceptable. This product will control annual and perennial weeds including quackgrass when applied prior to harvest. Applications may be made at any time of the 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 Make only one application to an existing crop stand per year. The treated crop and weeds can be harvested and fed to livestock according to the intervals below.

	Maximum Single Application Rate	Minimum Interval Between Application and Harvest / Grazing
Alfalfa	2 quarts per acre	36 hours
All other labeled legumes above	3 pints per acre	3 days

This application may destroy an alfalfa stand and may severely injure or destroy other labeled crops such as clover. Preharvest application is not recommended for alfalfa grown for seed as a reduction in germination or vigor may occur.

Spot Treatment or Wiper Applications Over-the top

Use instructions This product may be applied as a spot treatment or with wiper applicators. For additional information on wiper applicators see 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% of total field area should be treated at one time. Remove domestic livestock before application and wait 3 days after application before grazing livestock or harvesting.

Renovation

Use instructions This product may be applied as a broadcast spray to renovate existing stands of alfalfa, clover, and other labeled forage legumes. If the crop is to be grazed or harvested for feed, use up to 2 quarts per acre in alfalfa and up to 3 pints per acre in other labeled legumes. For complete removal of established stands of clover it may be necessary to use the higher treatment rates listed in the PERENNIAL WEEDS RATE TABLE in this label.

Precautions, restrictions When treatment rates of 2 quarts per acre for alfalfa or 3 pints per acre for other forage legumes are used, remove domestic livestock before application and wait 3 days after application before reintroduction. If treatment rates above these levels are necessary, do not graze or harvest treated foliage for livestock feed. Crops listed for treatment in this label may be planted into the treated area at any time. For other crops, wait 30 days between application and planting.

Conservation Reserve Program (CRP)

Types of applications Renovation (rotating out of CRP), site preparation, postemergence weed control in dormant CRP grasses, wiper applications over-the-top.

Renovation (Rotating out of CRP), Site Preparation

Use instructions This product may be used to prepare CRP land for crop production. Refer to Federal, state or local use guides for CRP renovation recommendations. For any crop not listed for treatment in this label, applications must be made at least 30 days prior to planting.

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

Use instructions This product may be used to suppress competitive growth and seed production of undesirable vegetation in CRP acres. Such applications may be made with wiper application equipment, or as a broadcast or spot treatment to dormant CRP grasses. For selective applications with broadcast spray equipment, apply 12 to 16 fluid ounces of this product per acre in early spring before desirable CRP

grasses such as crested and tall wheatgrass break dormancy and initiate green growth. Late fall applications can be made after desirable grasses have reached dormancy.
Precautions, restrictions Some stunting of CRP perennial grasses will occur if broadcast applications are made when plants are not dormant. No waiting period is required between application and grazing or harvesting for feed. Do not apply more than 3 quarts per acre per year onto CRP grasses.

Grass Seed or Sod Production

Labeled crops Any grass (*Graminea* family) except corn, sorghum, sugarcane and those listed in this label under Cereal and Grain Crops.

Types of applications Preplant, pre-emergence, at-planting, renovation, site preparation, shielded sprayers, wiper applications over-the-top, spot treatments, creating rows in annual ryegrass.

Use instructions This product controls most existing vegetation prior to renovating turf or forage grass areas or establishing turf grass grown for sod. Make applications before, during, or after planting or for renovation. For maximum control of existing vegetation, delay planting to determine if any regrowth from escaped underground plant parts occurs. 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. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses such as bermudagrass, summer or fall applications provide best control. Broadcast equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested.

Precautions, restrictions Do not disturb soil or underground plant parts before treatment. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts. If application rates total 3 quarts per acre or less, no waiting period between treatment and feeding or livestock grazing is required. If the rate is greater than 3 quarts per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting. For any crop not listed for treatment in this label, applications must be made at least 30 days prior to planting. Applications must be made prior to the emergence of the crop to avoid crop injury.

Shielded Sprayers

Use instructions Apply 1 to 3 quarts of this product in 10 to 20 gallons of water per acre to control weeds between grass seed rows. Uniform planting in straight rows aid in shielded sprayer applications. Best results are obtained when the grass seed crop is small enough to easily pass by the protective shields. For additional instructions, see Shielded and Hooded Applicators in the APPLICATION EQUIPMENT AND TECHNIQUES section of this label.

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.

Wiper Applications Over-the-Top

Use instructions 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. For additional instructions, see Wiper Applicators in the APPLICATION EQUIPMENT AND TECHNIQUES section of this label.

Precautions, restrictions Contact of the herbicide solution with desirable vegetation may result in damage or destruction.

Spot Treatments

Use instructions Use a 1.0 to 2.0% solution.

Precautions, restrictions Apply this product prior to heading of grasses grown for seed. 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. Hand-held equipment may be used to control sod remnants or other unwanted

vegetation after sod is harvested

Creating Rows in Annual Ryegrass

Use instructions Use 1 to 2 pints 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

Pasture Grasses

Labeled crops Any grass (*Gramineae* family) except corn sorghum sugarcane and those listed in this label under Cereal and Grain Crops Grasses that may be treated include bahiagrass bermudagrass bluegrass brome fescue guineagrass kikuyu grass orchardgrass pangola grass ryegrass timothy wheatgrass

Types of applications Preplant pre-emergence spot treatment wiper applications over-the-top pasture renovation postemergent weed control (broadcast treatments)

Preplant, Pre-emergence and 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 label prior to re-planting

Precautions, restrictions If application rates total 3 quarts per acre or less no waiting period between treatment and feeding or livestock grazing is required If the rate is greater than 3 quarts per acre remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting Crops listed for treatment in this label may be planted into the treated area at any time for other crops wait 30 days between application and planting

Spot Treatment and Wiper Applications Over-the-Top

Use instructions This product may be applied as a spot treatment or with wiper applicators in pastures Applications may be made in the same area at 30-day intervals

Precautions, restrictions For spot 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 treatments or wiper application are made using rates above 3 quarts per acre no more than 10% 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

Postemergent Weed Control (Broadcast Treatments)

Use instructions This product may be used to suppress competitive growth and seed production of annual weeds and undesirable vegetation in pastures For selective applications with broadcast spray equipment apply 12 to 16 fluid ounces of this product per acre in early spring before desirable perennial grasses break dormancy and initiate green growth Late fall applications can be made after desirable perennial grasses have reached dormancy

Precautions, restrictions Some stunting of perennial grasses will occur if broadcast applications are made when plants are not dormant No waiting period is required between application and grazing or harvesting for feed Use of higher application rates will cause stand reductions Do not apply more than 3 quarts per acre per year onto pasture grasses except for renovation uses (see instructions above) If replanting is needed due to severe stand reduction applications must be made at least 30 days prior to planting any crop not listed for treatment in this label

Rangelands

Types of applications Postemergence

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

Preventing viable seed production is key to the successful control and invasion of annual grassy weeds in rangelands. Follow-up applications in sequential years should eliminate most of the viable seeds. Grazing of treated areas should be delayed to encourage growth of desirable perennials. Allowing desirable perennials to flower and reseed in the treated area will encourage successful transition.

Use instructions. Apply 12 to 16 fluid ounces of this product per acre to control or suppress many weeds including downy brome, cheatgrass, cereal rye and jointed goatgrass in rangelands. Apply when most 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. Controlled burning may be useful in eliminating the thatch layer produced by slow decaying culms prior to application. Allow new growth to occur before spraying after a burn. Repeat applications in subsequent years may be necessary to eliminate the seedbank before reestablishing desirable perennial grasses in medusahead-dominated rangelands.

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

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 instructions with other recommendations made for crop varieties that do not contain the Roundup Ready gene in the ANNUAL AND PERENNIAL CROPS section of this label.

WINFIELD SOLUTIONS, LLC 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 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 destruction will result.

The Roundup Ready designation indicates that the crop variety contains a patented gene that provides tolerance to glyphosate. Information on Roundup Ready crop varieties may be obtained from your seed supplier. Roundup Ready crop varieties must be purchased from an authorized licensed seed supplier.

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

For aerial applications apply this product in 3 to 15 gallons of water per acre. See the APPLICATION EQUIPMENT AND TECHNIQUES section of this label for procedures to avoid spray drift that may cause

injury to any vegetation not intended for treatment Use of appropriate buffer zones will help prevent injury to adjacent vegetation

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

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

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 surfactant label

Unless otherwise directed surfactants can be added to the spray solution for applications to Roundup Ready crops The addition of certain surfactants to this product may result in some crop response including leaf necrosis leaf chlorosis or leaf speckling due to the surfactant added to the spray mixture Read and carefully observe cautionary statements and other information appearing on the surfactant label

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 burndown treatment of this product is recommended to control existing weeds prior to crop emergence Some weeds such as black nightshade broadleaf signalgrass sicklepod Texas panicum sandbur annual morningglory woolly cupgrass shattercane wild proso millet burcucumber and giant ragweed with multiple germination times or suppressed (stunted) weeds may require a second application of this product for complete control The second application should be made after some regrowth has occurred and at least 10 days after a previous application of this product

Alfalfa with the Roundup Ready Gene

Types of applications Preplant at-planting pre emergence postemergence

Maximum Allowable Combined Application Quantities Per Season	
Combined total per year for all applications including preplant during year of establishment	7.75 quarts per acre
Combined total per year for in-crop applications for newly established and established stands	6.0 quarts per acre
Total of Preplant At-planting Pre-emergence and Postemergence single applications	2.0 quarts per acre

Use Instructions This product will control many troublesome emerged weeds with over-the-top applications in Roundup Ready alfalfa

Application rates for new stand establishment (seeding year)

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Prior to the first cutting apply 2.0 quarts of this product per acre from emergence up to 4 trifoliate leaves
Apply up to 2.0 quarts of this product per acre from 5 trifoliate leaves up to 5 days before the first cutting

After the first cutting apply up to 2.0 quarts per acre for an in-crop application per cutting up to 5 days before cutting

Application rates for established stands (non seeding year)

Apply up to 2.0 quarts per acre for an in-crop application per cutting up to 5 days before cutting

There are no rotation crop restrictions following applications of this product For any crop NOT listed in the label applications must be made at least 30 days prior to planting

Over-the-top applications

This product may be applied post-emergence to Roundup Ready alfalfa from emergence until 5 days prior to cutting For any single over-the-top application of this product do not exceed 2.0 quarts per acre

During stand establishment due to the biology and breeding constraints of alfalfa up to 10% of the seedlings may not contain the Roundup Ready gene and will not survive after the first application of this product To eliminate the undesirable effects of stand gaps created by the loss of plants not containing a Roundup Ready gene make a single application of at least 1.0 quart per acre of this product at or before the 3 to 4 trifoliate growth stage

In both newly seeded and established stands in order to maximize yield and quality potential of forage and hay make applications of this product after weeds have emerged but before alfalfa growth or regrowth interferes with application spray coverage of the target weeds

Weeds controlled Refer to the ANNUAL WEEDS RATE TABLE and the PERENNIAL WEEDS RATE TABLE of this label for rate recommendations for specific weeds In addition to the weeds listed in the ANNUAL WEEDS RATE TABLE and the PERENNIAL WEEDS RATE TABLE of this label this product will suppress or control the parasitic weed Dodder (*Cuscuta spp*) in Roundup Ready alfalfa Repeat applications may be necessary for complete control

Precautions, restrictions Do not exceed 2.0 quarts of this product per acre when making applications by air Any single over-the top application of this product must not exceed 2.0 quarts (64 fluid ounces) per acre Make sequential applications of this product at least 7 days apart Remove domestic livestock before application and wait a minimum of 5 days after last application before grazing or cutting and feeding of Roundup Ready alfalfa forage and hay Where Roundup Ready alfalfa is grown with a companion or cover crop or is over seeded with a second species over the-top application of this product will eliminate the non-Roundup Ready species

Canola with the Roundup Ready Gene

Types of applications Preplant at-planting pre emergence postemergence

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

Maximum Allowable Combined Application Quantities Per Season	
Preplant at-planting pre-emergence applications	2 quarts per acre
Total in-crop applications from emergence to 6-leaf stage	2 quarts per acre

Preplant, Pre-emergence and At-planting

Use instructions This product may be applied before during or after planting canola

Postemergence

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 RATE TABLE and the PERENNIAL WEEDS RATE TABLES of this label

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 that may result in temporary 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 Applications – Apply 32 fluid ounces per acre to 1- to 3-leaf canola followed by a sequential application at a minimum interval of 10 days but no later than the 6-leaf stage Sequential applications are recommended for early emerging annual weeds and perennial weeds such as Canada thistle and quackgrass or when controlling weeds with multiple applications 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

Corn with the Roundup Ready Gene

1 ROUNDUP READY CORN

(The following instructions should not be combined with instructions for use on Roundup Ready Corn 2 For Roundup Ready Corn 2, see specific instructions below)

Types of applications Preplant at-planting pre-emergence postemergence spot treatment preharvest postharvest

<u>Maximum Allowable Combined Application Quantities Per Season</u>	
Combined total per year for all applications	8 quarts per acre
Preplant at-planting pre-emergence applications	5 quarts per acre
Total in-crop applications 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

Preplant, Pre-emergence and At-planting

Use instructions This product may be applied alone or in a tank mixture before during or after planting

Tank mixtures This product may be tank mixed with Bullet Degree Degree Xtra Harness Harness Xtra

Harness Xtra 5 6L Lariat Lasso or Micro-Tech at 50 to 100% of labeled rate Refer to the specific product label and observe all precautions and limitations on the label for any pre-emergence 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 pre-emergence residual products listed above

Postemergence (in-crop)

Use instructions This product may be applied postemergence to Roundup Ready corn from emergence through the V8 stage (8 leaves with collars) or until corn height reaches 30 inches whichever come 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 suppressed with one or more applications 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 postemergence 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 Bullet Degree Degree Xtra Harness Harness Xtra Harness Xtra 5 6L and Micro Tech at 50 to 100% 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 recropping interval and rotational guidelines – the more restrictive requirements apply

Tank-mix Partner	Maximum Height of Corn for Application
Degree Degree Xtra Harness Harness Xtra Harness Xtra 5 6L	11 inches
Bullet* Micro-Tech*	5 inches
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 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 product 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 treatment and harvest or feeding of treated vegetation

Postharvest

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.

Precautions, restrictions Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation. Do not apply pre-harvest if more than 2 quarts per acre has been previously applied in over-the-top or drop nozzle application in crop.

2 ROUNDUP READY CORN 2

The following instructions refer to Roundup Ready Corn 2, and should not be combined with instructions above for Roundup Ready Corn not designated as "2"

The use of higher in-crop rates described in this section on other than Roundup Ready Corn 2 may cause crop injury and reduce yields.

TYPES OF APPLICATIONS Preplant At-Planting Pre-emergence Postemergence (In-Crop) Spot Treatment Preharvest Post-Harvest

Maximum Allowable Combined Application Quantities Per Season

Combined total per year for all applications	8 quarts per acre
Preplant Pre emergence At-Planting applications	5 quarts per acre
Single in-crop application	1.5 quarts per acre
Total in-crop applications from emergence through the 48 inch stage	3 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

Preplant, Pre-emergence, At-Planting

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 Lasso or Micro-Tech at 50 to 100 percent of labeled. Refer to the specific product label and observe all precautions and limitations on the label for any pre-emergence 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 pre-emergence residual products listed above.

Pre-emergence followed by post-emergence weed control

Follow directions for pre-emergence applications above and post-emergence applications below. The post emergence application should be made before weeds reach a height or density that is competitive with the corn. Observe limits on total product applied per year.

Postemergence (In-Crop)

USE INSTRUCTIONS This product may be applied over-the top or with drop nozzles to Roundup Ready Corn 2 from emergence through the V8 stage (8 leaves with collars) or until corn reaches 30 inches in height, whichever comes first. When corn reaches 24 to 30 inches tall, drop nozzles are recommended for optimum spray coverage and weed control. When corn reaches 30 to 48 inches tall, apply ONLY with drop nozzles adjusted to avoid spraying into the whorls of the corn plants. Refer to tables above for rates of Cornerstone® Plus and mixtures for the specific weeds to be controlled.

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 suppressed 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 postemergence 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 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 recropping interval and rotational guidelines – the more restrictive requirements apply.

Tank-mix Partner	Maximum Height of Corn for Application
Degree Degree Xtra Harness Harness Xtra Harness Xtra 5.6L	11 inches
Bullet* Micro-Tech*	5 inches
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 general precautionary instructions for use in Roundup Ready crops. Single in-crop applications of this product are not to exceed 1.5 quart per acre. Sequential in-crop applications of this product from emergence through the V8 stage or 30 inches must not exceed 3 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, feeding or grazing. Do not apply pre-harvest if more than 2 quarts per acre has been previously applied in over-the-top or drop nozzle application in crop.

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.

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

Cotton with the Roundup Ready Gene

Types of applications Preplant, at-planting, pre-emergence, 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 pre-emergence applications	5 quarts per acre
Total in-crop applications from ground cracking to layby	4 quarts per acre
Maximum preharvest application rate	2 quarts per acre

Precautions, restrictions See the ROUNDUP READY CROPS section of this label for general precautionary instructions for use in Roundup Ready crops. The combined total application 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 4-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, At-planting and Pre-emergence

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

Over-the Top

Use instructions This product may be applied by aerial or ground application equipment at rates up to 1 quart per acre per application postemergence to Roundup Ready cotton from the ground cracking stage until the 4-leaf (node) stage of development (until the fifth true leaf reaches the size of a quarter). Over-the-top applications made after the 4-leaf (node) stage of development may result in boll loss, delayed maturity and/or yield loss.

Precautions, restrictions The use of additional surfactant in the spray solution may result in crop injury and reduced yield and is not recommended for over-the-top applications of this product to Roundup Ready cotton.

Salvage treatment This treatment may be used after the 4-leaf stage of development and should only be used where weeds threaten to cause the loss of the crop. One quart per acre may be applied either as an over-the-top application or as a post-directed treatment sprayed higher on the cotton plants and over the weeds. **NOTE** SALVAGE TREATMENTS WILL RESULT IN SIGNIFICANT BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS. 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 RATE TABLE and PERENNIAL WEEDS RATE TABLE in this label.

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 APPLICATION 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 **NOTE** This product will not enhance the performance of harvest aids when applied to Roundup Ready cotton

Precautions, restrictions Allow a minimum of 7 days between application and harvest of cotton THE USE OF ADDITIVES FOR PREHARVEST APPLICATION OF THIS PRODUCT TO ROUNDUP READY COTTON IS PROHIBITED

ATTENTION USE OF THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS IS EXPECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY COTTON HOWEVER, VARIOUS ENVIRONMENTAL CONDITIONS, AGRONOMIC PRACTICES AND OTHER FACTORS MAKE IT IMPOSSIBLE TO ELIMINATE ALL RISKS ASSOCIATED WITH THIS PRODUCT, EVEN WHEN APPLICATIONS ARE MADE IN CONFORMANCE WITH THE LABEL SPECIFICATIONS IN SOME CASES, THESE FACTORS CAN RESULT IN BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS

Soybeans with the Roundup Ready Gene

Types of applications Preplant at-planting pre-emergence postemergence preharvest postharvest

Maximum Allowable Combined Application Quantities Per Season	
Combined total per year for all applications	8 quarts per acre
Preplant at-planting pre-emergence applications	5 quarts per acre
Total in-crop applications from cracking throughout flowering	3 quarts per acre
Maximum preharvest application rate	1 quart per acre

Precautions, restrictions See the ROUNDUP READY CROPS section of this label for general precautionary instructions for use in Roundup Ready crops

Preplant, Pre-emergence and At-planting

Use instructions This product may be applied before during or after planting soybeans

Postemergence

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 recommended 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 bindweed hemp dogbane horsenettle maretail (horseweed) nutsedge quackgrass rhizome 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 of this product may be necessary to control late flushes of weeds IN THE SOUTHERN STATES A SEQUENTIAL APPLICATION OF THIS PRODUCT WILL BE REQUIRED TO CONTROL NEW FLUSHES OF WEEDS IN THE ROUNDUP READY SOYBEAN CROP To control giant ragweed 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 application 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 soybeans or feeding of soybeans forage or hay

Postharvest

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

Sugar Beet with the Roundup Ready Gene*

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

ANNUAL MAXIMUM ALLOWABLE APPLICATION RATES

Combined total per year for all application	8 0 quarts per acre
Preplant Preemergence applications	5 0 quarts per acre
Emergence to 8 leaf stage	2 5 quarts per acre
Between 8 leaf stage and canopy closure	2 0 quarts per acre

GENERAL PRECAUTIONS RESTRICTIONS See the ROUNDUP READY CROPS section of this label for general precautionary instructions for use in Roundup Ready crops Tank mixtures of this product with herbicides insecticides or fungicides may result in crop injury or reduced weed control

Preplant At-Planting Preemergence

USE INSTRUCTIONS This product may be applied before during or after planting of Roundup Ready sugar beets

PRECAUTIONS RESTRICTIONS Maximum quantity of this product that may be applied for all preplant at-planting and preemergence applications combined is 5 0 quarts per acre per season

Postemergence (In-crop)

USE INSTRUCTIONS This product may be applied over the top of Roundup Ready sugar beets for control of annual grasses and broadleaf weeds from emergence to 30 days prior to harvest To maximize yield potential spray sugar beets early to eliminate competing weeds Up to 4 sequential applications of this product may be made with at least 10 days between applications This product will control or

suppress most perennial weeds. For some perennial weeds, repeat applications may be required to eliminate crop competition throughout the growing season.

RESTRICTIONS Follow all general precautionary instructions for use in Roundup Ready crops.

- The combined total application from crop emergence through harvest must not exceed 4.5 quarts per acre.
- The maximum rate for any single application between emergence to the 8 leaf stage is 1.5 quarts per acre.
- The maximum rate for any single application between the 8 leaf stage and canopy closure is 1.0 quart per acre.
- Allow a minimum of 30 days between last application and sugar beet harvest.
- For any crop NOT listed in the CROPS section of this label booklet, applications must be at least 30 days prior to planting.

NONCROP USES AROUND THE FARMSTEAD

Types of applications General non-selective weed control, trim-and-edge, greenhouse / shade house, 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 specified rates.

Arsenal®
Banvel / Clarity
Barricade® 65WG
Diuron
Endurance®
Escort®
Karmex DF
Krovar I DF
Oust®
Pendulum® 3.3 EC
Pendulum WDG

Plateau®
Princep Caliber 90
Princep Liquid
Ronstar® 50 WSP
Sahara®
Simazine
Surflan
Telar®
Vanquish®
2.4 D

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

Greenhouse / Shade House

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

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

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% 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
Eucalyptus
Madrone
Oak
Pepper Brazilian
Pine Austrian

Reed giant
Saltcedar
Sweetgum
Tanoak
Willow

Precautions, restrictions. Do not make cut stump applications when the roots of desirable woody brush or trees may be grafted to the roots of the cut stump. 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.

Use instructions: This product may be used to control exotic and other undesirable vegetation in habitat management areas. Applications can be made to allow recovery of native plant species prior to planting desirable native species and for similar broad spectrum vegetation control requirements in habitat management areas. Spot treatments can be made to selectively remove unwanted plants for habitat maintenance and enhancement. The tank mixtures listed in this NONCROP USES AROUND THE FARMSTEAD section of this label may be used for habitat restoration and maintenance.

Wildlife Food Plots

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

ANNUAL WEEDS RATE TABLE (Alphabetically by Species)

WATER CARRIER VOLUMES OF 3 TO 10 GALLONS PER ACRE FOR GROUND APPLICATIONS AND 3 TO 5 GALLONS PER ACRE FOR AERIAL APPLICATIONS ARE RECOMMENDED

Apply to actively growing annual weeds Annual weeds are generally easiest to control when they are small

Older mature (hardened) annual weed species may require higher rates even if they meet the size requirements

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

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

This product may be used up to 48 fluid ounces per acre where heavy weed densities exist

WEED SPECIES	Cornerstone Plus Rate – Fluid Ounces per Acre				
	16	24	32	40	48
	Maximum Height / Length (in inches)				
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		
Dwarf dandelion	12				

Eastern manna grass	8"	12"	-	-	-
Eclipta	-	4"	8"	12"	-
Fall panicum	4"	-	6"	-	12"
Falsedandelion	-	20"	-	-	-
Falseflax, small seed	12"	-	-	-	-
Fiddleneck	-	6"	12"	-	-
Field pennycress	6"	12"	-	-	-
Filaree	-	-	6"	-	12"
Fleabane, annual	6"	20"	-	-	-
Fleabane, hairy (<i>Conyza bonariensis</i>)	-	-	6"	-	10"
Fleabane, rough	3"	6"	12"	-	-
Florida pusley	-	-	4"	-	6"
Foxtail: 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 / Marestalk ⁶ (<i>Conyza canadensis</i>)	-	6"	12"	-	-18"
Itchgrass	6"	8"	12"	-	18"
Jimsonweed	-	-	12"	-	18"
Johnsongrass, seedling	6"	12"	18"	-	24"
Junglerice	-	3"	6"	7"	9"
Knotweed	-	-	6"	-	12"
Kochia ⁴	-	3 - 6"	12"	-	-
Lambsquarters	-	6"	12"	-	20"
Little barley	6"	12"	-	-	-
London rocket	6"	-	24"	-	-
Mayweed	-	2"	6"	12"	18"
Morningglory, annual (<i>Ipomoea spp.</i>)	-	-	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"	-	-
Russian thistle	-	6"	12"	-	-
Rye, volunteer / cereal ²	6"	18"	18+"	-	-
Ryegrass	-	-	6"	-	12"
Sandbur, field	6"	12"	-	-	-
Sandbur, longspine	6"	12"	-	-	-
Shattercane	6"	12"	20"	-	-
Shepherd's purse	6"	12"	-	-	-
Sicklepod	-	2"	4"	-	8"
Signalgrass, broadleaf	-	3"	6"	7"	9"

Smartweed ladysthumb			6		9
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

⁴ Do not treat kochia in the button stage

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

⁶ For control of glyphosate resistant horseweed / maretail in cotton corn and soybeans refer to CONTROL AND MANAGEMENT OF GLYPHOSATE RESISTANT HORSEWEED (MARETAIL *Conyza Canadensis*) IN CORN COTTON AN SOYBEANS section below

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 1/2 quarts per acre if weeds are over 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 WEEDS RATE TABLE 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 0.25 pound a.i. of dicamba or 0.5 pound a.i. of 2 4-D or 1 to 2 fluid ounces of Tordon 22K per acre will control the following weeds with maximum height or length indicated 6 - prickly lettuce maretail / horseweed (*Conyza canadensis*) morningglory (*Ipomoea spp*) 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 0.5 pound a.i. of 2,4-D per acre will control the following weeds when they are the 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.

DO NOT APPLY DICAMBA OR 2,4-D TANK MIXTURES BY AIR IN CALIFORNIA

Annual Weeds – Hand-Held or High-Volume Equipment

For control of weeds listed in the ANNUAL WEEDS RATE TABLE, apply a 0.5 percent solution of this product to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds. For annual weeds over 6 inches tall, or unless otherwise specified, use a 1% solution.

For best results, use a 2% 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% solution for annual and perennial weeds and a 5 to 10% solution for woody brush and trees.

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

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

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 fluid ounces for control), downy brome, green foxtail, lambsquarters, prickly lettuce, tansy, mustard, pigweed, field sandbur, stinkgrass, Russian thistle, volunteer wheat, witchgrass, and kochia (add 0.20 pound a.i. of dicamba for control).

Control and Management of Glyphosate Resistant Horseweed (*Marestail, Conyza canadensis*) in Corn, Cotton and Soybeans

For ground applications, use 10 to 20 gallons of water per acre. For aerial applications, use 3 to 15 gallons of water per acre. **For tank-mix recommendations, read and carefully observe the cautionary statements and all other information appearing on the product labels, supplemental labeling or fact sheets published separately for all herbicides used.**

CORN

Preplant, at-planting, pre-emergence Apply a tank mixture of this product (32 fluid ounces per acre) plus 2,4-D (0.5 pounds of 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.

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

In-crop (Roundup Ready Corn hybrids only) For 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).

COTTON

Preplant For control of horseweed, apply this product (32 fluid ounces per acre) in a tank mix with Clarity (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 differential between cotton and the horseweed is often achieved by a combination of preplant burndown and postemergent over-the-top and/or directed applications of Cornerstone Plus 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 a.i. per acre) tank mixed with diuron (0.5 to 0.75 pounds a.i. 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 product cannot be applied due to application restrictions or proximity to a sensitive crop, contact your local retailer or Winfield Solutions representative.

In-crop (Roundup Ready Soybean varieties only) It is strongly encouraged that horseweed should be controlled prior to planting using recommended preplant burndown treatments. For application in-crop to Roundup Ready soybeans, apply a tank mixture of this product (32 fluid ounces per acre) with Amplify (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.

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. Best results are obtained when soil moisture is adequate for active growth.

Weeds Species	Cornerstone® Plus Rate (Qt/A)	Water Volume (GPA)	Hand Held % Solution	COMMENTS
Alfalfa	1-2	3-10	2%	Make applications after the last hay cutting in the fall. Allow alfalfa to regrow to a height of 6 to 8 inches or more prior to treatment. Applications should be followed with deep tillage at least 7 days after treatment, but before soil freeze up.
Alligatorweed	4	3-20	1-5%	Partial control. Apply when most of the plants are in bloom. Repeat applications will be required to maintain control.
Anise (fennel)	—	—	1-2%	Apply as a spray to wet treatment. Optimum results are obtained when plants are treated at the bud to full bloom stage of growth.
Bahiagrass	3-5	3-20	2%	Apply when most plants have reached the early head stage.
Bentgrass	1-5	10-20	2%	For suppression in grass seed production areas. For ground applications only. Ensure entire crown area has resumed growth prior to a fall application. Bentgrass should have at

				least 3 inches of growth Tillage prior to treatment should be avoided Tillage 7 to 10 days after application is recommended for best results
Bermudagrass	3 5	3 20	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
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 California for use on water 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 growth For control apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts east of the Mississippi River Apply when weeds are at or beyond full bloom For best results apply in late summer or fall Fall treatments must be applied before a killing frost Also for control apply 2 quarts of this product plus 0 5 pound a i of dicamba in 10 to 20 gallons of water per acre Do not apply by air For suppression on irrigated agricultural land apply 1 to 2 quarts of this product plus 1 pound a i 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 bindweed is actively growing and the majority of runners are 12 inches or more in length The use of at least one irrigation will promote active bindweed growth For suppression apply 1 6 fluid ounces of this product plus 0 5 pound a i of 2 4 D in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications Apply by ground fallow and reduced tillage systems only Applications should be delayed until maximum emergence has occurred and vines are between 6 to 18 inches in length

				In California only apply 1 to 5 quarts of this product per acre Actual rate needed for suppression or control will vary within this range depending on local conditions For suppression on irrigated land where annual tillage is performed apply 1 quart of this product in 3 to 10 gallons of water per acre Apply to bindweed that has reached a length of 12 inches or greater Allow a 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 in 10 to 40 gallons of water per acre when most plants have reached boot to early seedhead 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
Blueweed Texas	3 5	3 40	2%	Apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts per acre east of the Mississippi River Apply when plants are at or beyond full bloom New leaf development indicates active growth For best results apply in late summer or fall Fall treatments must be applied before a killing frost
Brackenfern	3 4	3 40	1 1.5%	Apply to fully expanded fronds which are least 18 inches long
Bromegrass smooth	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
Bursage woolly leaf	—	3 20	2%	For control apply 2 quarts of this product plus 0.5 pound a.i. of dicamba per acre For partial control apply 1 quart of this product plus 0.5 pound a.i. of dicamba per acre Apply when plants are producing new active growth which has been initiated by moisture for at least 2 weeks and when plants are at or beyond flowering
Canarygrass reed	2 3	3 40	2%	For best results apply when most plants have reached the boot to head stage of growth
Cattail	3 5	3 40	2%	Apply when most plants have reached the early head stage
Clover red white	3 5	3 20	2%	Apply when most plants have reached the early bud stage Also for control apply 16 to 32 fluid ounces of this product plus 0.5 to 1 pound a.i. of 2,4-D in 3 to 10 gallons of water per acre
Cogongrass	3 5	10 40	2%	Apply when cogongrass is at least 18 inches tall in late summer or fall Due to uneven stages of growth and the dense nature of vegetation preventing good spray coverage repeat treatments may be necessary to maintain control
Dallisgrass	3 5	3 20	2%	Apply when most plants have reached the

				early head stage
Dandelion	3 5	3 40	2%	Apply when most plants have reached the early bud stage Also for control apply 16 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D in 3 to 10 gallons of water per acre
Dock curly	3 5	3 40	2%	Apply when most plants have reached the early bud stage of growth Also for control apply 16 to 32 fluid ounces of this product plus 0.5 to 1 pound a.i. of 2,4-D in 3 to 10 gallons of water per acre
Dogbane hemp	4	3 40	2%	Apply when most plants have reached the late bud to flower stage of growth. Following crop harvest or mowing allow weeds to regrow to a mature stage prior to treatment. For best results apply in late summer or fall. For suppression apply 16 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Delay applications until maximum emergence of dogbane has occurred.
Fescue (except tall)	3 5	3 20	2%	Apply when most plants have reached the early head stage
Fescue tall	1 3	3 40	2%	Apply 3 quarts of this product per acre when most plants have reached boot to early seedhead stage of development Fall applications only. Apply 1 quart of this product in 3 to 10 gallons of water per acre. Apply to fescue in the fall when plants have 6 to 12 inches of new growth. A sequential application of 1 pint per acre of this product will improve long term control and control of seedlings germinating after fall treatments or the following spring.
Guineagrass	2 3	3 40	1%	Apply when most plants have reached at least the 7 leaf stage of growth. Ensure thorough coverage when using hand held equipment. In Texas and the ridge of Florida use 2 quarts for control. In the flatwoods region of Florida 3 quarts is required.
Horsenettle	3 5	3 20	2%	Apply when most plants have reached 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 the early bud stage of growth. Thorough coverage is necessary for best control.
Jerusalem artichoke	3 5	3 20	2%	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 noncrop 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 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 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 inches in height (3 or 4 leaf stage of growth) Allow 3 or more days after application before tillage
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 stage of growth Use the higher application rate for plants that have reached the woody stage of growth
Lespedeza	3 5	3 20	2%	Apply when most plants have reached the early bud stage
Milkweed (common)	3	3 40	2%	Apply when most plants have reached the 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 noncrop areas Spray when the wirestem muhly is 8 inches or more in height Do not till between harvest and fall applications or in the fall or spring or 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 the early bud stage
Napiergrass	3 5	3 20	2%	Apply when most plants are in the early head stage
Nightshade silverleaf	2	3 10	2%	Applications should be made when at least 60% of the plants have berries Fall treatments must be applied before a killing frost
Nutsedge purple yellow	0.5 3	3 40	1 2%	Apply 3 quarts of this product per acre or apply a 1 to 2% 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 which have not germinated will not be controlled and may germinate after 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 applications and 6 inches tall for fall applications. Allow at least 3 days following application before planting. A sequential application of atrazine will be necessary for optimum results.
Pampasgrass	—	—	1.5 2%	Pampasgrass should be at or beyond the boot stage of growth. Thorough coverage is necessary for best control.
Paragrass	3 5	3 20	2%	Apply when most plants are in the early head stage.
Phragmites	3 5	10 40	1 2%	For partial control. 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. Visible control symptoms will be slow to develop.
Poison hemlock	—	—	1 2%	Apply as a spray to wet treatment. Optimum results are obtained when plants are treated at the bud to full bloom stage of growth.
Pokeweed common	1	3 40	2%	Apply to actively growing plants up 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 1 quart rate. Spray when quackgrass is 6 to 8 inches in height. Do not till between harvest and fall applications or in fall or spring prior to spring application. Allow 3 or more days after application before tillage. In pastures or sods, use a moldboard plow for best results. In pastures, sods or noncrop areas where deep tillage does not follow application, Apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre when quackgrass is greater than 8 inches tall.
Redvine	0.75 - 2	5 - 10	2%	For suppression, apply 24 fluid ounces of this product per acre at each of two applications 7 to 14 days apart or a single application of 2 quarts per acre. Apply specified rates in 5 to 10 gallons of water per acre. Apply in late September or early October to plants that are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least 1 week before a killing frost.
Reed giant	—	—	2%	Best results are obtained when applications are made in the late summer to fall.
Ryegrass perennial	1 - 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 in 10 to 40 gallons of water per acre. In noncrop or areas where annual tillage is not practiced (no till), apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre. For best results, apply when most plants have reached the boot to head stage of growth or in the fall prior to frost. Do not tank mix with residual herbicides when using 1 quart per acre rate.
Smartweed swamp	3 - 5	3 - 40	2%	Apply when most plants have reached the early bud stage of growth. Also for control, apply 16 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall.
Sowthistle perennial	2 - 3	3 - 40	2%	Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage.
Spurge leafy	—	3 - 10	2%	For suppression, apply 16 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall. If mowing has occurred prior to treatment, apply when most of the plants are 12 inches tall.
Starthistle yellow	2	10 - 40	2%	Best results are obtained when applications are made during the rosette, bolting and early flower stages.
Sweet potato	—	—	2%	Partial control. Apply to plants that are at or

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

WOODY BRUSH AND TREES RATE TABLE

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

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

Ensure thorough coverage when using hand-held equipment 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

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

Locust black	2 4	3 40	1 2%	Partial control
Madrone resprouts	—	—	2%	Partial control Apply to resprouts that are 3 to 6 feet tall Best results are obtained with spring or early summer treatments
Manzanita	2 5	3 40	1 2%	Partial control
Maple red	2 4	3 40	1 1 5%	For control apply a 1 to 1 5% solution when at least 50% of the new leaves are fully developed For partial control apply 2 to 4 quarts of this product per acre
Maple sugar	—	—	1 1 5%	For control Apply when at least 50% of the new leaves are fully developed
Monkey flower	—	—	1 2%	Partial control Thorough coverage of foliage is necessary for best results
Oak black white	2 4	3 40	1 2%	Partial control
Oak post	3 4	3 40	1 1 5%	For control
Oak northern pin	—	—	1 1 5%	For control Apply when at least 50% of the new pin leaves are fully developed
Oak southern red	2 3	3 40	1 1 5%	For control
Persimmon	2 5	3 40	1 2%	Partial control
Pine	2 5	3 40	1 2%	For control
Poison ivy / Poison oak	4 5	3 40	2%	For control Repeat applications may be required to maintain control Fall treatments must be applied before leaves lose green color
Poplar yellow	2 5	3 40	1 2%	Partial control
Redbud eastern	2 5	3 40	1 2%	For control
Rose multiflora	2	3 40	1%	For control Treatments should be made prior to leaf deterioration by leaf eating insects
Russian olive	2 5	3 40	1 2%	Partial control
Sage black	—	—	1%	For control Thorough coverage of foliage is necessary for best results
Sage white	2 5	3 40	1 2%	Partial control
Sagebrush California	—	—	1%	For control Thorough coverage of foliage is necessary for best results
Salmonberry	2 3	3 40	1 1 5%	For control
Saltcedar	2 5	3 40	1 2%	For control
Sassafras	2 5	3 40	1 2%	Partial control
Sourwood	2 5	3 40	1 2%	Partial control
Sumac poison smooth winged	2 4	3 40	1 2%	Partial control
Sweetgum	2 3	3 40	1 1 5%	For control
Swordfern	2 5	3 40	1 2%	Partial control
Tallowtree Chinese	—	—	1%	For control Thorough coverage of foliage is necessary for best results
Tanoak resprouts	—	—	2%	For partial control Apply to resprouts that are less than 3 to 6 feet tall Best results are obtained with all applications
Thimbleberry	2 3	3 40	1 1 5%	For control
Tobacco tree	—	—	1 2%	Partial control
Trumpet creeper	2 3	3 40	1 1 5%	For control
Vine maple	2 5	3 40	1 2%	Partial control
Virginia creeper	2 5	3 40	1 2%	For control
Waxmyrtle southern	2 5	3 40	1 2%	Partial control
Willow	3 4	3 40	1 1 5%	For control

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