42750-60 6/21/2012 1/74

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D C 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

6-21-12

Morris Gaskins
Albaugh, Inc
P O Box 2127
Valdosta, GA 31604-2127

Subject Label Amendment / Glyphosate 41%
EPA Reg No 42750-60

Dear Mr Gaskins

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable

Submit one copy of the final printed label for the record before you release the product for shipment A stamped copy of the label is enclosed for your records This master label supersedes all previously accepted labels If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e) Your release for shipment of the product constitutes acceptance of these conditions If you have any questions please call Erik Kraft at 703-308-9358 or email at Kraft Erik@epa gov

Sincerely,

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

2/74

GLYPHOSATE 41%

AVOID CONTACT OF HERBICIDE 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 CONDITIONS OF SALE AND WARRANTY statement at the end of the label before buying or using this product If terms are not acceptable return 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%

Group	9	Herbicide

[OPTIONAL MARKET LABEL CLAIMS]

[41% Glyphosate Plus Surfactant]
[Nonselective Agricultural Herbicide]
[For Big Jobs and Tough Weeds and Grasses]
[Even Kills the Roots]
[41% Glyphosate Weed & Grass Killer]
[Complete Broad Spectrum Post Emergence Herbicide For Vegetation Management Ornamental Weed Control and Non Planted Areas Around Residential Industrial Institutional Locations and Their Immediate Vicinities]
[Controls Many Annual & Perennial Grasses & Broadleaf Weeds As Listed]

Contains 480 grams per litre or 4 pounds per U S gallon of the active ingredient glyphosate in the form of its isopropylamine salt Equivalent to 356 grams per litre 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 eye • 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 1 800 424 9300 for emergency medical treatment information	

EPA Reg No 42750 60

EPA Est No 42750 MO 001

NET CONTENTS ____ Gallons

Manufactured by
Albaugh Inc
Ankeny IA 50021

FOR CHEMICAL SPILL LEAK FIRE OR EXPOSURE CALL CHEMTREC (800) 424 9300

ACCEPTED
6 21 12
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No 42750 60

3/74

TABLE OF CONTENTS

5/74

3 0 PRECAUTIONARY STATEMENTS

3 1 HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

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

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

3 2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear
1 Long sleeved shirt and long pants
2 Shoes plus socks

Follow manufacturer s instructions for cleaning/maintaining PPE (Personal Protective Equipment) If no such instructions for washables exist use detergent and hot water Keep and wash PPE separately from other laundry

When handlers use closed systems enclosed cabs or aircraft in a manner that meets the requirements listed in 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 or PPE immediately if pesticide gets inside Then wash thoroughly and put on clean clothing

3 3 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

3 4 PHYSICAL OR CHEMICAL HAZARDS

Spray solutions of this product must 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 the CONDITIONS OF SALE AND WARRANTY statement at the end of the label before buying or using If terms are not acceptable return at once unopened

DIRECTIONS FOR USE

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

This product can only be used in accordance with the Directions for Use on this label or in separately published Albaugh Inc supplemental 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

6/74

3 5 AGRICULTURAL USE REQUIREMENTS

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

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

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

1 Coveralls
2 Waterproof gloves
3 Shoes plus socks

3 6 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

3 7 SEED POTATO PRECAUTION

Potatoes grown for seed are very sensitive to glyphosate at extremely low concentrations Exposure of the seed potato crop can cause germination failure or deformities Daughter tuber damage may occur at levels where mother crop symptoms are not visible Multiple sprouting from eyes weak and distorted stems little potato syndrome cauliflower sprouts root distortions excessive root growth suppressed tuber initiation and bulking failure or delay in opening of eyes and rotting of tubers in the field or store can result Subsequent plantings of seed pieces from the exposed mother crop can result in delayed or no emergence or produce lower than normal yields

Glyphosate can contaminate seed potato crops through carryover residue in application equipment or drift from applying glyphosate to nearby crops

Always follow good wash out procedures using detergents or other suitable cleaning agents to remove all residual traces of glyphosate from application equipment that may be used to apply other products to seed potato crops

To avoid contamination from spray drift follow the directions and precautions in the Spray Drift Management section of the label

4 0 STORAGE AND DISPOSAL

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

PESTICIDE STORAGE Keep container closed to prevent spills and contamination 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 cleaned reconditioned or destroyed

CONTAINER HANDLING (See the Net Contents section on the container to determine if it non refillable or refillable) APPROPRIATE BOX MUST BE CHECKED

Non refillable containers (1 and 2 5 gallon) Do not reuse or refill this container Triple rinse or pressure rinse container (or equivalent) promptly after emptying

Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container ¼ full with water and recap Shake for 10 seconds Pour rinsate into application

equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times

Pressure rinse as follows Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds Drain for 10 seconds after the flow begins to drip

Offer for recycling if available 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

Non refillable containers (>5 gallon) Do not reuse or refill this container Triple rinse or pressure rinse container (or equivalent) promptly after emptying

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

Pressure rinse as follows Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds Drain for 10 seconds after the flow begins to drip

Offer for recycling if available 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 containers Refillable container Refill this container with glyphosate only Do not reuse this container for any other purpose

When this container is empty replace the cap and seal all openings that have been made during usage and return the container to the point of purchase or to an alternate location designated by the manufacturer at the time of purchase of this product If not returned clean container the empty container and offer for recycling if available

Cleaning the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the re filler

To clean the container before final disposal empty the remaining contents from the container into application equipment or mix tank Fill the container about 10 percent full with water Agitate vigorously or re circulate water with the pump for 2 minutes Pour or pump rinsate into application equipment or rinsate collection system Repeat this rinsing process two more times

If the container cannot be refilled offer for recycling if available 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

5 0 USE INFORMATION

PRODUCT DESCRIPTION This product is a post emergent systemic herbicide with no soil residual activity It is generally non selective and gives broad spectrum control of many annual weeds perennial weeds woody brush and trees It is formulated as a water soluble liquid It may be applied through most standard industrial or field type sprayers after dilution and thorough mixing with water or other carriers according to label instructions

Ammonium sulfate drift control additives or dyes and colorants may be used See the MIXING section of this label for instructions

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

8/74

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 labeled rate range when weed growth is heavy or dense or weeds are growing in an undisturbed (non cultivated) area

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

CULTURAL CONSIDERATIONS Reduced control may result when applications are made to annual or perennial weeds that have been mowed grazed or cut and have not been allowed to regrow to the recommended stage for treatment

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

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

To the extent consistent with applicable law 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 label Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance

ANNUAL MAXIMUM USE RATE Except as otherwise specified in a food crop section of this label the combined total of all treatments must not exceed 8 quarts of this product per acre per year For non food/non crop uses 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

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

6 0 WEED RESISTANCE MANAGEMENT

Glyphosate the active ingredient in this product is a Group 9 herbicide Target site resistance to Group 9 herbicides is rare 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 or mechanical practices

6 1 – WEED MANAGEMENT DIRECTIONS

To minimize the occurrence of glyphosate resistant biotypes observe the following general weed management recommendations

- Scout your fields before and after herbicide applications
- Start with a clean field use either a burndown herbicide application or tillage
- Control weeds early when they are relatively small
- Add other herbicides (e g a selective and/or a residual herbicide) and cultural practices (e g tillage or crop rotation) where appropriate

9/74

- One method of adding other herbicides into a continuous Roundup Ready system is to rotate to other Roundup Ready crops
- Utilize the labeled rate for the most difficult to control weed in your field Avoid tank mixtures with other herbicides that reduce this product s efficacy (through antagonism) or tank mixture recommendations that encourage application rates of this product below the label recommendations
- Control weed escapes and prevent weeds from setting seeds
- Clean equipment before moving from field to field to minimize the spread of weed seed or plant parts
- Use new commercial seed that is as free of weed seed as possible
- Report any incidence of repeated non performance of this product on a particular weed to your Albaugh Inc representative local retailer or county extension agent

6 2 MANAGEMENT DIRECTIONS FOR GLYPHOSATE RESISTANCE BIOTYPES

Note Appropriate testing is critical in order to determine if a weed is resistant to glyphosate Contact your Albaugh Inc representative to determine if resistance has been confirmed to any particular weed biotype in your area or visit on the internet www weedresistancemangement com or www weedscience org For more information see the ANNUAL WEEDS RATE SECTION and PERENNIAL WEEDS RATE SECTION of this label

Control directions for biotypes confirmed as resistant to glyphosate are made available on separately published supplemental labeling or fact sheets for this product and can be obtained from your local retailer or Albaugh Inc representative

Since the occurrence of new glyphosate resistant weeds cannot be determined until after product use and scientific confirmation Albaugh Inc is not responsible for any losses that may result from the failure of this product to control glyphosate resistant weed biotypes

The following good agronomic practices are recommended to reduce the spread of confirmed glyphosate resistant biotypes

- If a naturally occurring resistant biotype is present in your field this product should be tank mixed or applied sequentially with an appropriately labeled herbicide with a different mode of action to achieve control
- Cultural and mechanical control practices (e g crop rotation or tillage) may also be used as appropriate
- One method for adding other herbicides into a continuous Roundup Ready system is to rotate to other Roundup Ready corps
- Scout treated fields after herbicide applications and control escaping weeds including resistant biotypes before they set seed
- Thoroughly clean equipment before leaving fields known to contain resistant biotypes

7 0 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

7 1 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 labeled amount of this product near the end of the filling process and mix well Use caution to avoid siphoning back into the carrier source Use approved anti back siphoning devices where required by state or local regulations During mixing and application foaming of the spray solution may occur To prevent or minimize foam avoid the use of mechanical agitators terminate by pass and return lines at the bottom of the tank and if needed use an approved anti foam or de foaming agent

7 2 TANK MIXING PROCEDURE

Mix labeled tank mixtures of this product with water as follows

1 Place a 20 to 35 mesh screen or wetting basket over filling port
2 Through the screen fill the spray tank one half full with water and start agitation
3 If 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 Add individual formulations to the spray tank as follows wettable powder flowable emulsifiable concentrate drift control additive and 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 by pass line on or near the bottom of the tank to minimize foaming Screen size in nozzle or line strainers should be no finer than 50 mesh

Always predetermine the compatibility of labeled tank mixtures of this product with water carrier by mixing small proportional quantities in advance

Refer to the TANK MIXING section of USE INFORMATION for additional precautions

7 3 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 GLYPHOSATE 41%					
	½%	1%	1 1/2%	2%	5%	10%
1 Gal	2/3 fl oz	1 1/3 fl oz	2 fl oz	2 2/3 fl oz	6 ½ fl oz	13 fl oz
25 Gal	1 pt	1 qt	1 ½ qt	2 qt	5 qt	10 qt
100 Gal	2 qt	1 gal	1 ½ gal	2 gal	5 gal	10 gal

2 tablespoons = 1 fluid ounce

For use in knapsack sprayers it is suggested that the labeled amount of this product be mixed with water in a larger container Fill sprayer with the mixed solution

7 4 SURFACTANTS

Additional surfactants labeled for use with herbicides may be used Do not reduce application rates of this herbicide when adding surfactants When adding additional surfactant use 0 5 percent surfactant concentration (2 quarts per 100 gallons of spray solution) when using surfactants which contain at least 70 percent active ingredient or a 1 percent surfactant concentration (4 quarts per 100 gallons of spray solution) for those surfactants containing less than 70 percent active ingredient

Read and carefully observe cautionary statements and other information appearing on the additives label

7 5 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 and this product plus 2 4 D Albaugh Dicamba DMA Salt Banvel® or residual herbicide tank mixtures on annual and perennial weeds The improvement in performance may be apparent where environmental stress is a concern Low quality ammonium sulfate may contain material that will not readily dissolve which could result in nozzle tip plugging To determine quality perform a jar test by adding 1/3 cup of ammonium sulfate to 1 gallon of water and agitate for 1 minute If undissolved sediment is observed predissolve the ammonium sulfate in water and filter prior to addition to the spray tank If ammonium sulfate is added directly to the spray tank add slowly with agitation Adding too quickly may clog outlet line Ensure that ammonium sulfate is completely dissolved in the spray tank before adding herbicides or surfactant Thoroughly rinse the spray system with clean water after use to reduce corrosion

NOTE The use of ammonium sulfate as an additive does not preclude the need for additional surfactant When using ammonium sulfate apply this product at rates specified in this label Lower rates will result in reduced performance

11/79

7 6 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

7 7 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

NOTE The use of drift control additives can affect spray coverage which may result in reduced performance

8 0 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 or 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 the spray onto weed foliage
- Selective Equipment – Shielded and hooded sprayers wiper applicators and sponge bars
- Injection Systems – Aerial or ground injection sprayers
- Controlled Droplet Applicator (CDA) – Hand held or boom mounted applicators which produce a spray consisting of a narrow range of droplet sizes

*This product is not registered in California or Arizona for use in mistblowers

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

8 1 AERIAL EQUIPMENT

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL FOR AERIAL APPLICATION IN CALIFORNIA AND ARKANSAS REFER TO INSTRUCTIONS SPECIFIC TO THOSE STATES

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

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

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

AERIAL SPRAY DRIFT MANAGEMENT

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR The interaction of many equipment and weather related factors determine the potential for spray drift The applicator is responsible for considering all these factors when making decisions

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

12/24

1 The distance of the outer most nozzles on the boom must not exceed ¾ 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 must be observed

INFORMATION ON 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 Inversions Sections of this label)

CONTROLLING DROPLET SIZE
- Volume – Use high flow rate nozzles to apply the highest practical spray volume Nozzles with higher rated flows produce larger droplets
- Pressure – Do not exceed the nozzle manufacturer s recommended pressures For many nozzle types lower pressure produces larger droplets When higher flow rates are needed use higher flow rate nozzles instead of increasing pressure
- Number of nozzles – Use the minimum number of nozzles that provide uniform coverage
- Nozzle Orientation – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice Significant deflection from horizontal will reduce droplet size and increase drift potential
- Nozzle Type – Use a nozzle type that is designed for the intended application With most nozzle types narrower spray angles produce larger droplets Consider using low drift nozzles Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift
- Boom Length For some use patterns reducing the effective boom length to less than ¾ of the wingspan or rotor length may further reduce drift without reducing swath width
- Application Height Applications must not be made at a height greater than 10 feet above the top of the target plants unless a greater height is required for aircraft safety Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind

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

WIND
Drift potential is lowest between wind speeds of 2 10 mph However many factors including droplet size and equipment type determine drift potential at any given speed Application must be avoided below 2 mph due to variable wind direction and high inversion potential NOTE Local terrain can influence wind patterns Every applicator must be familiar with local wind patterns and how they affect spray drift

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

TEMPERATURE INVERSIONS
Applications 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 temperatures with altitude and are common on nights with limited cloud cover and light to no wind They begin to form as the sun sets and often continue into the morning Their presence can be indicated by ground fog however if fog is not present inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion while smoke that moves upward and rapidly dissipates indicates good vertical air mixing

SENSITIVE AREAS
The 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)

Avoid direct application to any body of water

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

FOR AERIAL APPLICATION IN CALIFORNIA ONLY

Aerial applications of this product are allowed in the following situations
1 In fallow and reduced tillage systems prior to the emergence or transplanting of labeled crops
2 In alfalfa and pasture renovation applications
3 Over the top applications in Roundup Ready® corn and cotton
4 Preharvest in alfalfa corn cotton wheat Roundup Ready® corn and Roundup Ready® cotton

Do not plant subsequent crops other than those listed in the label booklet for 30 days following application
When tank mixing this product with 2 4 D for aerial applications only 2 4 D amine formulations may be used This tank mixture may be used for fallow and reduced tillage systems and alfalfa and pasture renovation applications only

DO NOT EXCEED A MAXIMUM RATE OF 2 QUARTS PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR 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 COTTON WHEAT ROUNDUP READY® CORN AND ROUNDUP READY® COTTON PRIOR TO HARVEST THIS RESTRICTION ALSO APPLIES TO OVER THE TOP APPLICATIONS IN ROUNDUP READY® CORN AND COTTON

Aerial Equipment

Use the labeled rates of this product in 3 to 15 gallons of water per acre
Use the following guidelines when aerial applications are made near crops or desirable perennial vegetation after bud break and before total leaf drop and/or near other desirable vegetation or annual crops
1 Do not apply within 100 feet of all desirable vegetation or crop(s)
2 If wind up to 5 miles per hour is blowing toward desirable vegetation or crop(s) do not apply within 500 feet of the desirable vegetation or crop(s)
3 Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crop(s) may require buffer zones in excess of 500 feet
4 Do not apply when winds are in excess of 10 miles per hour or when inversion conditions exist

FOR AERIAL APPLICATION IN FRESNO COUNTY CALIFORNIA
(Only From February 15 through March 31 Only)

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

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

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

Written Directions
A written direction MUST be submitted by or on behalf of the applicator to the Fresno County Agricultural Commissioner 24 hours prior to the application This written direction 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

14/79

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

FOR AERIAL APPLICATION IN ARKANSAS ONLY

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

Use the specified rate of this product in 3 to 15 gallons of water per acre Use sufficient carrier volume and appropriate equipment 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 air stream 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

8 2 GROUND BROADCAST EQUIPMENT

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

8 3 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 must be uniform and complete Do not spray to the point of runoff Use coarse sprays only Use coarse sprays only For labeled rates and timing refer to the ANNUAL WEEDS – HAND HELD OR HIGH VOLUME EQUIPMENT' section of this label

8 4 SELECTIVE EQUIPMENT

This product may be applied through shielded applicators hooded sprayers wiper applicators or sponge bars after dilution and thorough mixing with water to listed weeds growing in any non crop site specified on this label

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 labeled 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 must be adjusted so that the lowest spray stream or wiper contact point is at least 2 inches above the desirable vegetation Droplets mist foam or splatter of the herbicide solution settling on desirable vegetation may result in discoloration stunting or destruction

Applications made above the crops should be made when the weeds are a minimum of 6 inches above the desirable vegetation Better results may be obtained when more of the weed is exposed to the herbicide solution Weeds not contacted by the herbicide solution will not be affected This may occur in dense clumps severe infestations or when the height of the weeds varies so that not all weeds are contacted In these instances repeat treatment may be necessary

Shielded and Hooded Applicators

When applied under the conditions described in the following paragraphs for shielded and hooded applications this product at labeled rates will control those weeds listed in the ANNUAL WEEDS RATE TABLE and PERENNIAL WEEDS RATE RABLE 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 anyway If the goods 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 Minimum spray volume must 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 of skimmed across the ground
- Leave at least an 8 inch untreated strip over the drill row For example if the crop row width is 38 inches the maximum width of the spray hood should be 30 inches
- Maximum tractor speed 5 miles per hour to avoid bouncing of the spray hoods
- Maximum wind speed 10 miles per hour
- Use low drift nozzles that provide uniform coverage within the treated area

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

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION

WIPER APPLICATORS

When applied under the conditions described in the following paragraphs this product CONTROLS many weeds including volunteer corn Texas panicum common rye shattercane sicklepod Spanish needles and bristly starbur and SUPPRESSES many weeds including Florida beggarweed Bermuda grass hemp dogbane dogfennel guineagrass johnsongrass milkweed silverleaf nightshade redroot pigweed giant ragweed smutgrass sunflower Canada thistle musk thistle vaseygrass & velvetleaf

Wiper applicators are devices that physically wipe appropriate amounts of this product directly onto the weed

Equipment must be designed maintained and operated to prevent the herbicide solution from contacting desirable vegetation Operate this equipment at ground speeds no greater than 5 mph Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation Better results may be obtained if 2 applications are made in opposite directions

16/74

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

Do not use wiper equipment when weeds are wet

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

Do not add surfactant to the herbicide solution

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

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

8 5 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

8 6 – CONTROLLED DROPLET APPLICATION (CDA) EQUIPMENT

The rate of this product applied per acre by vehicle mounted CDA equipment must not be less than the amount labeled in this label when applied by conventional broadcast equipment For vehicle mounted CDA equipment apply 3 to 20 gallons of water per acre

For the control of annual weeds with hand held CDA units apply a 20 percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 1 5 mph (1 quart per acre) For the control of perennial weeds apply a 20 to 40 percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 0 75 mph (2 to 4 quarts per acre)

Controlled droplet application equipment produces a spray pattern which is not easily visible Extreme care must be exercised to avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation as damage or destruction may result

9 0 ANNUAL & PERRENNIAL CROPS (Alphabetical)

This section is organized alphabetically by crop category There may be several labeled crops listed in a crop category

SEE THE INDIVIDUAL CROP CATEGORIES FOR SPECIFIC INSTRUCTIONS PREHARVEST INTERVALS AND ADDITIONAL PRECAUTIONS AND RESTRICTIONS

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

TYPES OF APPLICATIONS

Chemical fallow Pre plant fallow beds Pre plant Pre emergence At Planting Hooded Sprayers in Row Middles Shielded Sprayers in Row Middles Wiper Applications in Row Middles and Post Harvest Treatments

Additional application types may be specified or allowed in individual Crop Categories

USE DIRECTIONS

Apply this product during fallow intervals preceeding 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 ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL Repeat applications may be made up to a maximum of 8 quarts per acre per year

17/79

Post directed hooded sprayers and wiper equipment capable of preventing all crop contact with herbicide solutions may be used in mulched or un mulched 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 hall 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

PRECAUTIONS

- 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
- Apply before seed germination in coarse sandy soils to further minimize the risk of injury

RESTRICTIONS

- Unless otherwise specified in this product s labeling treatments with selective equipment including wipers and hooded sprayers must be made at least 14 days prior to harvest
- 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
- When making pre emergence and at planting applications applications must be made before crop emergence to avoid severe crop injury Broadcast applications made at emergence will result in injury or death to emerged seedlings
- Post harvest or fallow applications must be made at least 30 days prior to planting any non labeled crop
- For broadcast post emergent treatments do not harvest or feed treated vegetation for 8 weeks following application unless otherwise specified

18/74

9 1 CEREAL CROPS		
LABELED CROPS Barley Buckwheat Millet (Pearl & Proso) Oats Rice Rye Quinoa Teff Teosinte Triticale Wheat (All) Wild rice		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 0 Pre Plant Pre Emergence At Planting	See Use Directions in Section 9 0 This product may be applied before during or after planting of cereal crops Applications must be made prior to emergence of the crop	See Section 9 0 Do not treat rice fields or levees when the field contains floodwater
Red Rice Control (prior to planting rice)	Apply 1 5 quarts of this product in 5 to 10 gallons of water per acre Flush fields prior to application to obtain uniform germination and stand of red rice Make application when the majority of the red rice plants are in the 2 leaf stage and no more than 4 inches tall Red rice plants with less than 2 true leaves may only be partially controlled PRECAUTIONS Avoid spraying during low humidity conditions as reduced control may result	DO NOT TREAT RICE FIELDS OR LEVEES WHEN THE FIELDS CONTAIN FLOOD WATER DO NOT RE FLOOD TREATED FIELDS FOR 8 DAYS FOLLOWING APPLICATION
Spot treatment (except rice)	This product may be applied as a spot treatment in cereal crops Apply this product before heading in small grains	Do not treat more than 10 percent of the total field area to be harvested The crop receiving spray in the treated area will be killed Take care to avoid drift or spray outside target area for the same reason
Over the Top Wiper applications (Feed barley & wheat only)	Wiper applications may be used in wheat 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	Allow at least 35 days between application and harvest Do not use roller applicators
Pre harvest (Feed barley & wheat only)	This product provides weed control when applied prior to harvest of wheat Apply after the hard dough stage of grain (30% or less grain moisture) and at least 7 days prior to harvest Wheat stubble may be grazed immediately after harvest This product may be applied using either aerial or ground spray equipment For ground applications apply this product in 10 to 20 gallons of water per acre For aerial applications apply this product in 3 to 10 gallons of water per acre	Do not apply more than 1 quart of this product per acre Do not apply to wheat or barley grown for seed as a reduction in germination or vigor may occur Allow 7 days between application and harvest or grazing
Post harvest	This product may be applied after harvest of cereal crops Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest Tank mixtures with 2 4 D or dicamba may be used	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

19/74

9 2 – CORN (Non Roundup Ready)		
LABELLED CROPS Field corn Seed corn Silage corn Sweet corn and Popcorn		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 0 Pre plant Pre emergence At planting	See Use Directions in Section 9 0 This product may be applied before during or after planting corn Applications must be made prior to emergence of the crop TANK MIXTURES Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre 2 4 D, Aim, Atrazine, Axiom, Balance, Bicep Magnum, Bicep II Magnum, Bullet, Degree, Degree Xtra, Distinct, Dual Magnum, Dual II Magnum, Epic, Frontier/Outlook, Fultime, Guardsman/Leadoff, Harness, Harness Xtra, Harness Xtra 5 6L, Lariat, Intro, Linex/Lorox, Marksman, Micro Tech, Prowl, Python, simazine, Topnotch For difficult to control annual weeds such as fall panicum barnyardgrass crabgrass shattercane and broadleaf signal grass 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 weeds apply 1 5 to 2 pints of this product per acre when weeds are less than 6 inches tall 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	See Section 9 0 Applications of 2 4 D or dicamba must be made at least 7 days prior to planting corn For Southern states do not apply in nitrogen solutions to tough to control grasses such as barnyardgrass fall panicum broadleaf signalgrass annual ryegrass and any perennial weeds The area covered by this restriction 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
Spot treatment	For spot treatments apply this product prior to silking of corn	Do not treat more than 10 percent of the total field area to be harvested The crop receiving spray in the treated area will be killed Take care to avoid drift or spray outside target area for the same reason
Hooded sprayers	This product may be used through hooded sprayers for weed control between the rows of corn Only hooded sprayers that completely enclose the spray pattern may be used See additional instructions for the use of hooded sprayers in the APPLICATION EQUIPMENT AND TECHNIQUES section of this label PRECAUTIONS 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	Corn must be at least 12 inches tall measured without extending leaves 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
Pre harvest	Make applications at 35 percent grain moisture or less Ensure that maximum kernel fill is complete and the corn is physiologically mature (black layer formed) For ground applications apply up to 3 quarts of this product per acre For aerial applications apply up to 2 quarts of this product per acre PRECAUTIONS It is not recommended that corn grown for seed be treated because a reduction in germination or vigor may occur	Allow a minimum of 7 days between application and harvest
Post harvest	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	Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation

9 3 COTTON		
LABELLED CROPS Cotton (non Roundup Ready)		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 0 Pre plant Pre emergence At planting	See Use Directions in Section 9 0 This product may be applied before during or after planting cotton	See Section 9 0 Applications must be made prior to emergence of the crop
Hooded sprayer Selective equipment	This product may be applied through hooded sprayers shielded applicators or wiper applicators in cotton	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 application and harvest Allow at least 7 days between application and harvest
Spot treatment	For spot treatments apply this product prior to boll opening of cotton	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
Pre harvest	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 Apply 1 pint to 2 quarts of this product per acre for cotton regrowth inhibition Up to 2 quarts of this product may be applied using either aerial or ground spray equipment Apply after sufficient bolls have developed to produce the desired yield of cotton Applications made prior to this time could affect maximum yield potential TANK MIXTURES This product may be tank mixed with DEF® 6 Folex® Ginstar or Prep™ to provide additional enhancement of cotton leaf drop	Allow at least 7 days between application and harvest Do not apply to cotton grown for seed as a reduction in germination or vigor may occur THE USE OF ADDITIVES OTHER THAN THOSE LISTED ON THIS LABEL FOR PREHARVEST APPLICATION TO COTTON IS PROHIBITED

9 4 FALLOW SYSTEMS		
LABELLED CROPS This product may be applied during the fallow period prior to planting or emergence of any crop on this label		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Chemical Fallow	See Use Directions in Section 9 0 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	See Section 9 0 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 the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures
Pre plant Fallow Beds	This product may be applied to fallow beds prior to planting or emergence of any crop listed on this label This product will control weeds listed in the annual perennial and woody brush tables TANK MIXTURES In addition 12 fluid ounces of this product plus 2 to 3 oz of Goal® 2XL (or generic equivalent) per acre will control the following weeds with the maximum height or length indicated 3 – common cheeseweed chickweed groundsel 6 – London rocket shepherdspurse 16 fluid ounces of this product plus 2 to 3 oz of Goal® 2XL (or generic equivalent) per acre will control the following weeds with the maximum height or length indicated 6 – common cheeseweed groundsel marestail *(Conyza canadensis)* 12 – chickweed London rocket shepherdspurse PRECAUTIONS Some crop injury may occur if dicamba is applied within 45 days of planting	
Aid to Tillage	This product may be used in conjunction with tillage practices in fallow systems or pre plant 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 PRECAUTIONS Tank mixtures with residual herbicides may result in reduced performance	Allow at least 1 day after application before tillage

22/74

9 5 GRAIN SORGHM (Milo)		
LABELLED CROPS Grain Sorghum (Milo)		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 0 Pre Plant Pre Emergence At Planting	See Use Directions in Section 9 0 This product may be applied alone or in tank mixture before during or after planting grain sorghum Applications must be made prior to emergence of the crop TANK MIXTURES Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre atrazine Lariat Bicep II Magnum Lasso Bullet Micro Tech Dual II Magnum Milo Pro 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	See Section 9 0 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
Spot Treatment Over the Top Wiper Applications	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	
Hooded Sprayers	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 APPLICATIONS EQUIPMENT AND TECHNIQUES section of this label Crop injury may occur when the foliage of treated weeds comes into direct contact with leaves of the crop Do not apply this product when the leaves of the crop are growing in direct contact with weeds to be treated Droplets mist foam or splatter of the herbicide solution may contact the crop and cause discoloration stunting or destruction PRECAUTIONS 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	Milo must be at least 12 inches tall measured without extending leaves Treat before milo sends tillers between the drill rows If such tillers are contacted with the spray solution the main plant may be killed 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 for hooded sprayer applications
Pre harvest	Make applications at 30% grain moisture or less The use of this product for pre harvest grain sorghum (milo) is not registered in California As with other herbicides that cause sudden plant death avoid pre harvest applications of this product to milo infected with charcoal rot as lodging can occur	Do not apply more than 2 quarts of this product per acre Allow a minimum of 7 days between application and harvest of sorghum Do not apply to sorghum grown for seed as a reduction in germination or vigor may occur
Post harvest	This product may be applied after harvest of grain sorghum Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest Tank mixtures with 2 4 D or dicamba may be used This product may be applied to grain sorghum (milo) stubble following harvest to suppress or control regrowth Apply 1 quart of this product per acre for control or 1 5 pints of this product per acre for suppression	Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation

9 6 HERBS AND SPICES		
LABELED CROPS Allspice Angelica Star anise Annatto (seed) Balm Basil Borage Burnet Chamomile Caper buds Caraway Black caraway Cardamom Cassia bark Cassia buds Catnip Celery seed Chervil (dried) Chive Chinese chive Cilantro (seed) Cinnamon Clary Clove buds Coriander leaf (cilantro or Chinese parsley) Coriander seed (cilantro) Costmary Culantro (leaf) Cumin Curry (leaf) Dill (dillweed) Dill (seed) Epazote Fennel seed (common and Florence) Fenugreek White ginger flower Grains of paradise Horehound Hyssop Juniper berry Lavender Lemongrass Lovage (leaf and seed) Mace Marigold Marjoram (including oregano) Mexican oregano Miaga flower Mustard (seed) Nasturtium Nutmeg Parsley (dried) Pennyroyal Pepper (black and white) Pepper leaves Peppermint Perilla Poppy (seed) Rosemary Rue Saffron Sage Savory (summer and winter) Spearmint Stevia leaves Sweet bay Tansy Tarragon Thyme Vanilla Wintergreen Woodruff Wormwood		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 0	See Use Directions in Section 9 0 PRECAUTIONS This product could cause crop injury When applying this product prior to transplanting or direct seeding crops into plastic mulch care must be taken to remove product residues from the plastic prior to planting Residual product can be removed by a single 0 5 inch application of water either by natural rainfall or via a sprinkler system Care must be taken to ensure that the washwater flushes off the plastic mulch and does not enter transplant holes Applications made at emergence will result in injury or death to emerged seedlings For some crops below it is recommended to make applications 3 days before transplanting or planting	See Section 9 0
Over the Top Wiper Application Spot Treatment (Peppermint and Spearmint only)	This product may be applied as a spot treatment or over the top of peppermint or spearmint with wiper applications in spearmint and peppermint Apply spot treatments on a spray to wet basis with hand held equipment such as backpack sprayers pump up pressure sprayers hand guns hand wands or any other hand held or motorized spray equipment used to direct the spray solution to a limited area In wiper applications the applicator must 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 Contact of the herbicide solution with the crop may result in discoloration stunting or destruction	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 can be treated at one time Crop sprayed in treated area will be killed Take care not to spray or allow spray to drift outside the target area to avoid unwanted crop destruction

9 7 OIL SEED CROPS		
LABELED CROPS Borage Buffalo gourd (seed) Canola (non Roundup Ready) Crambe Flax Jojoba Lesquerella Meadowfoam Mustard (seed) Rape Safflower Sesame Sunflower		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 0	See Use Directions in Section 9 0 This product may be applied before during or after planting oil seed crops listed in this section Broadcast applications must be made prior to crop emergence Wiper applications or hooded sprayers may be used between the rows once the crop is established TANK MIXTURES For sunflowers a tank mixture with Prowl may be applied before during or after planting in conventional tillage systems into a cover crop established sod or in previous crop residue	See Section 9 0 For use with canola do not apply more than 2 quarts of this product per acre For use with sunflowers do not apply more than 1 quart of this product per acre as a single pre plant or pre emergence application per year Do not feed or graze sunflower forage following application of this product
Pre Harvest (Sunflower & safflower)	This product provides weed control when applied as a harvest aid to a physiologically mature crop prior to harvest of sunflower or safflower For safflower apply when seed has lost its opaque character approximately 20 to 30 days after the end of flowering of the secondary branches For sunflower apply when the backsides of sunflower heads are yellow and bracts are turning brown and seed moisture content is less than 35%	Allow a minimum of 7 days between treatment and harvest or livestock feeding Apply no more than 3 quarts of this product at a pre harvest timing to safflower Apply no more than 1 quart of this product at a pre harvest timing to sunflower
Post Harvest (Sunflower & safflower)	This product may be applied after harvest of safflower or sunflower Higher rates may be required for control of large weeds which are growing in the crops at the time of harvest Tank mixtures with 2 4 D or dicamba may be used	Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation Applications must be made at least 30 days prior to planting any crop not listed on the GLYPHOSATE 41% label booklet

9 8 SOYBEANS		
LABELLED CROPS Soybeans (non Roundup Ready)		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 0 Pre Plant Pre Emergence At Planting	See Use Directions in Section 9 0 This product may be applied before during or after planting soybeans Applications must be made prior to emergence of the crop Refer to table below for tank mixtures that may be applied before during or after planting in conventional tillage systems into a cover crop established sod or in previous crop residue This product may be tank mixed with 2 4 D or 2 4 DB See the 2 4 D label for intervals between application and planting For difficult to control 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 0 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 TANK MIXES Aim / Assure II / Authority / Boundry / Canopy / Canopy XL / Command / Domain / Dual / Dual II Magnum Firstrate / Flexstar / Frontline/Outlook / Fusion / Gauntlet / Intrro / Linex / Lorox/Linuron / Lorox Plus / Magnum Micro Tech / Prowl / Pursuit / Pursuit Plus / Reflex / Scepter / Sencor/Lexone / Squadron / Steel / Valor	See Section 9 0 The tank mix recommendations in this section are not registered in California
Spot treatment	For spot treatments apply this product prior to initial pod set in soybeans	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
Pre harvest	This product provides weed control when applied prior to harvest of soybeans Apply at rates given in the annual perennial and woody brush 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	Do not apply more than 5 quarts per acre of this product for pre harvest applications Do not apply more than 2 quart per acre of this product by air Allow a minimum of 7 days between application and harvest of soybeans Do not graze or harvest treated hay or fodder for livestock feed within 25 days of last pre harvest application (If the application rate is 1 quart per acre or lower the grazing restriction is reduced to 14 days after the last pre harvest application) Do not apply to soybeans grown for seed as a reduction in germination or vigor may occur
Selective equipment	This product may be applied through shielded applicators hooded sprayers wiper applicators or sponge bars in soybeans 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	Allow at least 7 days between application and harvest

9 9 SUGARCANE		
LABELLED CROPS Sugarcane		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 0 Pre plant Pre emergence At planting	See Use Directions in Section 9 0 This product may be applied in or around sugarcane fields or in fields prior to the emergence of plant cane	See Section 9 0 Do not apply to vegetation in or around ditches canals or ponds containing water to be used for irrigation
Spot Treatment	This product may be applied as a spot treatment in sugarcane For control of volunteer or diseased sugarcane make a 1 percent solution of this product in water and spray to wet the foliage of vegetation to be controlled Volunteer or diseased sugarcane should have at least 7 new leaves PRECAUTIONS 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	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 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	Allow 7 or more days after application before tillage
Hooded sprayers	This product may be used through hooded sprayers for weed control between the rows of sugarcane See Section 8 0 for APPLICATION EQUIPMENT & TECHNIQUES for additional USE DIRECTIONS Minimize the potential for spray particles to escape from under the hood by operating the sprayer at appropriate ground speeds nozzle pressures and wind speeds Operation on rough or sloping ground may result in spray particles escaping from the hood When applying to sugarcane that is grown on raised beds ensure that the hood is designed to completely enclose the spray If necessary extend the front and rear flaps of the hoods to reach the ground in furrows between the rows PRECAUTIONS 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	Do not allow treated weeds to come into contact with the crop
FOR AID IN SUGARCANE RIPENING (FLORIDA HAWAII LOUISIANA PUERTO RICO AND TEXAS)	This product is a foliar applied plant growth regulator to hasten ripening and increase the level of sucrose in sugarcane It is effective in both low and high tonnage sugarcane When applied as directed under the conditions described this product will hasten ripening and extend the period of high sucrose level in sugarcane As a result of leaf desiccation improved trash burn can be expected Most of the sucrose increase is concentrated in the top nodes of the treated cane stalk In order to recover the maximum sugar where topping is practiced during harvest top at the base of the fourth leaf Prior to application consult your state sugarcane authority or local Albaugh Inc representative regarding the degree of sucrose response anticipated from the variety of sugarcane to be treated Do not plant subsequent crops in treated fields other than the following for 30 days after application alfalfa or other forage legumes beans (all types) corn (all types) cotton melons (all types) pasture grasses peanuts potatoes (Irish or sweet) sorghum (milo) soybeans squash (all types) or wheat PRECAUTIONS Application of this product may initiate development of shooting eyes This product may not increase the sucrose content of sugarcane under conditions of good nature ripening Within 2 to 3 weeks after application	Do not make application to sugarcane grown for seed as a reduction in germination or vigor may occur Do not feed or graze treated sugarcane forage following application Do not apply for enhanced ripening to any crops other than sugarcane 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

9 9 SUGARCANE		
LABELLED CROPS Sugarcane		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
	this product may produce a slight yellowing to pronounced browning and drying of leaves and a shortening of upper internodes Spindle death may occur Rainfall within 6 hours after application may reduce effectiveness APPLICATION RATES Use the following application rates and timing instructions according to the State in which the sugarcane is grown NOTE Use the higher rate within the labeled range when treating sugarcane under adverse ripening conditions or when less responsive varieties are to be treated FLORIDA Apply 5 to 12 fluid ounces of this product per acre 3 to 6 weeks before harvest of LAST RATTON CANE ONLY HAWAII – Apply 9 to 21 fluid ounces of this product per acre 4 to 10 weeks before harvest LOUISIANA Apply 3 5 to 12 fluid ounces of this product per acre 3 to 7 weeks before harvest of RATOON CANE ONLY PUERTO RICO – Apply 5 fluid ounces of this product per acre 3 to 5 weeks before harvest of RATOON CANE ONLY TEXAS – Apply 5 to 12 fluid ounces of this product per acre 3 to 5 weeks before harvest of RATOON CANE ONLY	

9 10 VEGETABLE CROPS

NOTE THIS VEGETABLE CROPS SECTION GIVES GENERAL DIRECTIONS THAT APPLY TO ALL LISTED VEGETABLE CROPS WITHIN SECTION 9 10 GROUPED ALPHABETICALLY BELOW SEE THE INDIVIDUAL CROP CATEGORIES FOR SPECIFIC INSTRUCTIONS PREHARVEST INTERVALS PRECAUTIONS AND RESTRICTIONS

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

PRECAUTIONS 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 single 0 5 inch application of water either by natural rainfall or via a sprinkler system Care must be taken to insure that the wash water flushed off the plastic mulch and does not enter transplant holes Applications made at emergence with result in injury or death to emerged seedlings

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 Apply before seed germination in coarse sandy soils to further minimize the risk of injury In crops with vines hooded sprayer shielded sprayer and wiper applications to row middles must be made prior to vine development otherwise severe injury or destruction may result Unless otherwise specified in this product s labeling treatments with selective equipment including wipers and hooded sprayers must be made at least 14 days prior to harvest Post harvest or fallow applications must be made at least 30 days prior to planting any non labeled crop See APPLICATION EQUIPMENT AND TECHNIQUES section of this label for additional information

9 10 1 – BRASSICA VEGETABLES		
LABELLED CROPS Broccoli Broccoli (raab) Brussels sprouts Cabbage Cabbage (Chinese) Cabbage (Chinese mustard) Cauliflower Cavalo broccolo Chinese broccoli (gai lon) Chinese cabbage (bok choy & napa) Collards Kale Kohlrabi Mizuna Mustard greens Mustard spinach Rape greens		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 10	See Use Directions under Section 9 0	See Section 9 10

9 10 2 – BULB VEGETABLES		
LABELLED CROPS Garlic Great headed garlic Leek Onion (dry bulb & green) Shallot Welsh onion Shallot		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 10	See Use Directions under Section 9 0	See Section 9 10

9 10 3 – CUCURBIT VEGETABLES & FRUITS		
LABELLED CROPS Chayote (fruit) Chinese waxgourd Citron melon Cucumber Gherkin Gourds Gourds (edible including hyotan cucuzza hechima Chinese okra) Melons (All) *Momordica spp* (includes balsam apple balsam pear bittermelon Chinese cucumber) Muskmelon (cantaloupe casaba crenshaw golden pershaw honeydew honey ball mango melon & Persion pineapple Santa Claus snake) Pumpkin Summer Squash (including crookneck scallop straightneck vegetable marrow zucchini) Winter squash (including butternut calabaza hubbard acorn spaghetti) Watermelon		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 10	See Use Directions under Section 9 0	For Cantaloupe Casaba melon Crenshaw melon Cucumber Gherkin Gourds Honeydew melon Honey ball melon Mango melon Melons (all) Muskmelon Persian melon Pumpkin Squash (summer & winter) AND Watermelon allow at least 3 days between application and planting

9 10 4 – LEAFY VEGETABLES		
LABELED CROPS Amaranth (Chinese spinach) Arrugula (roquette) Beet greens Cardoon Celery Celery (Chinese) Celtuce Chaya Chervil Chrysanthemum (edible leaved) Chrysanthemum (Garland) Corn salad Cress (garden & upland) Dandelion Dock (sorrel) Dokudami Endive (escarole) Fennel (Florence) Gow kee Lettuce (head & leaf) Orach Parsley Purslane (garden & winter) Radicchio (red chicory) Rhubarb Spinach (All) Swiss Chard Watercress (upland) Water Spinach		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 10	See Use Directions under Section 9 0	See Section 9 10 For Watercress do not make application within 3 days prior to seeding and during the period between seeding and emergence to minimize the risk of injury

9 10 5 FRUITING VEGETABLES		
LABELLED CROPS Eggplant Ground cherry (*Physalis spp*) Pepino Pepper (includes bell chili cooking pimento sweet) Tomatillo Tomato		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 10	See Use Directions under Section 9 0 PRECAUTIONS For Tomato hooded or shielded sprayer applications in row middles are not recommended	See Section 9 10 For Eggplant Ground cherry Pepino Pepper (all) Tomatillo and Tomato allow at least 3 days between application and planting

9 10 6 – LEGUME VEGETABLES (succulent or dried)		
LABELED CROPS Bean (*Lupinus* includes grain lupin sweet lupin white lupin and white sweet lupin) Bean (*Phaseolus* includes field bean kidney bean lima bean navy bean pinto bean runner bean snap bean tepary bean wax bean) Bean (*Vigna* includes adzuki bean asparagus bean blackeyed pea catjang Chinese longbean cowpea crowder pea moth bean mung bean rice bean southern pea urd bean yardlong bean) Broad bean (fava) Chickpea (garbanzo) Guar Jackbean Lablab bean Lentil Pea (*Pisum* includes dwarf pea edible podded pea English pea field pea garden pea green pea snowpea sugar snap pea) Pigeon pea Soybean (immature seed) Sword bean		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 10	See Use Directions under Section 9 0	See Section 9 10
Pre harvest broadcast spray (Dry beans)	This product may be applied as an over the top broadcast spray to control labeled weeds prior to the harvest of dry beans Apply up to 32 fluid ounces in 3 to 20 gallons of water per acre at the hard dough stage of the legume seed (30 percent grain moisture or less) Either ground broadcast or aerial applications may be made	Apply at least 7 days before harvest for Dry Beans Apply at least 7 days before harvest for Dry Peas Lentils & Chickpeas Only one application per year may be made do not combine a pre harvest spray with a spot treatment on the same crop area Do not make Pre harvest application to dry beans dry peas lentils & chickpeas grown for seed as a reduction in germination or vigor may occur Do not feed treated vines and hay from these crops to livestock Do not apply this product through any type of irrigation system Do not treat field (feed) peas since these are considered to be grown as livestock feed
Pre harvest broadcast spray (Dry Peas Lentils & Chickpeas)	This product may be applied as an over the top broadcast spray to control labeled weeds prior to the harvest of dry peas lentils and chickpeas Apply up to 64 fluid ounces in 3 to 20 gallons of water per acre at the hard dough stage of the legume seed (30 percent grain moisture or less) Either ground broadcast or aerial applications may be made	
Spot treatment (Dry beans Dry Peas Lentils Chickpeas)	This product may be applied as spot treatment to control troublesome weeds such as Canada thistle quackgrass mayweed (dog fennel) and milkweed in dry beans Apply up to 26 fluid ounces in 10 to 20 gallons of water through ground spray equipment or use a 2 percent solution in a handheld sprayer For best results applications should be made at or beyond the bud stage of growth The crop receiving spray in treated areas will be killed	Apply at least 14 days before harvest Only one application per year may be made do not combine a pre harvest spray with a spot treatment on the same crop area Do not feed treated vines and hay from these crops to livestock Do not apply this product through any type of irrigation system Do not treat field cowpeas since these are considered to be grown as livestock feed

9 10 7 – ROOT & TUBER VEGETABLES		
LABELLED CROPS Arracacha Arrowroot Artichoke (Chinese & Jerusalem) Beet (garden) Burdock Canna Carrot Cassava (bitter & sweet) Celeriac Chayote (root) Chervil Chicory Chufa Dasheen Galangal Ginger Ginseng Horseradish Leren Kava Parsley Parsnips Potato (Irish) Radish Radish (Oriental) Rutabaga Salsify Salsify (Black & Spanish) Skirret Sweet potato Tanier Tumeric Turnip Wasabi Yacon Yams Yam bean Yam (True)		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 10	See Use Directions under Section 9 0	See Section 9 10
Direct Application (Non bearing Ginseng)	This product may be used for general weed control in established non bearing ginseng Applications may be made with boom equipment CDA shielded sprayers hand held *and high volume wands lances and orchard* guns or with wiper application equipment PRECAUTIONS 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	Applications must be made at least one year prior to harvest
Over the Top Wiper Application (Rutabaga Only)	Wiper applicators may be used over the top of rutabagas	Allow at least 14 days between application and harvest of rutabagas

9 11 – MISCELLANEOUS CROPS		
LABELED CROPS Aloe vera Asparagus Bamboo shoots Globe artichoke Okra Peanut (ground nut) Pineapple Strawberry Sugar Beet (non Roundup Ready)		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 9 10	See Use Directions under Section 9 0 PRECAUTIONS 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	See Section 9 10 When making pre emergence and at planting applications applications must be made before crop emergence to avoid serious crop injury Apply before seed germination in coarse sandy soils to further minimize the risk of injury In crops with vines hooded sprayer shielded sprayer and wiper applications to row middles must be made prior to vine development otherwise severe injury or destruction may result Unless otherwise specified in this product s labeling treatments with selective equipment including wipers and hooded sprayers must be made at least 14 days prior to harvest Post harvest or fallow applications must be made at least 30 days prior to planting any non labeled crop
General weed control Site preparation	This product may be applied for general weed control or for site preparation prior to planting or transplanting crops listed in this section	When applying this product prior to transplanting or direct seeding crops into plastic mulch care must be taken to remove residues of this product from the plastic prior to transplanting Residues can be removed by 0 5 inch natural rainfall or by applying water via a sprinkler system Care must be taken to insure that the wash water flushes off the plastic mulch and does not enter transplant holes Injury made at emergence will result in injury or death to emerged seedlings Do not apply within a week before the first asparagus spears emerge Do not feed or graze treated pineapple forage following application
Spot treatment (Asparagus)	This product may be applied immediately after cutting but prior to the emergence of new spears	Do not treat more than 10 percent of the total field area to be harvested Do not harvest within 5 days of treatment

9 11 – MISCELLANEOUS CROPS		
LABELED CROPS Aloe vera Asparagus Bamboo shoots Globe artichoke Okra Peanut (ground nut) Pineapple Strawberry Sugar Beet (non Roundup Ready)		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Post harvest (Asparagus)	This product may be applied after the last harvest and all spears have been removed If spears are allowed to re grow 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	Direct contact of the spray with the asparagus may result in serious crop injury Select and use recommended types of spray equipment for post emergence 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

10 0 TREE VINE & SHRUB CROPS (Alphabetical)

NOTE THIS SECTION GIVES DIRECTIONS THAT APPLY TO ALL LISTED TREE VINE & SHRUB CROPS WITHIN SECTION 10 CROP GROUPS INDIVIDUAL CROPS MAY HAVE MORE SPECIFIC INSTRUCTIONS PRE HARVEST INTERVALS PRECAUTIONS AND RESTRICTIONS

TYPES OF APPLICATIONS Pre plant (Site Preparation) Broadcast Sprays General weed control Middles (between rows of trees vines or shrubs) Strips (within rows of trees vines or shrubs) Selective Equipment (shielded sprayers wiper treatments) Directed Sprays Spot Treatments Perennial Grass Suppression Cut Stump

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

USE DIRECTIONS

This product may be applied in middles (between rows of trees or vines) strips (within rows of trees or vines) and for general weed control or perennial grass suppression in established tree fruit and tree nut groves orchards berries and vineyards This product may also be used for site preparation prior to planting or transplanting these crops **APPLY AT 1 PINT TO 5 QUARTS PER ACRE ACCORDING TO THE ANNUAL WEEDS AND PERENNIAL WEEDS RATE TABLES SECTIONS OF THIS LABEL** Utilize rates at the higher end of the labeled rate range when weeds are stressed growing in dense populations or are greater than 12 inches tall Repeat applications may be made up to a maximum of 10 6 quarts per acre per year

The maximum use rates stated throughout this product s labeling apply to this product combined with the use of all other herbicides containing glyphosate or sulfosate as the active 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

PRECAUTIONS

- 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 part of the trees canes and vines
- Avoid applications when recent pruning wounds or other mechanical injury has occurred
- Contact of this product other than matures brown bark can result in serious crop damage or destruction
- For applications in strips (within rows of trees) only selective equipment (directed sprays hooded sprayers shielded applicators or wipers) must be used to minimize the potential for leakage or drift of herbicide sprays onto crop

See APPLICATION EQUPMENT AND TECHNIQUES section of this label for additional directions and precautions

RESTRICTIONS

- Only wipers or shielded applicators capable of preventing all contact with crop may be used
- Only shielded or directed sprayers may be used in crops with potential for crop contact and then only where there is sufficient clearance
- For berry crops hooded or shielded sprayers must be fully enclosed including top sides front and back
- Allow a minimum of 3 days between applications and transplanting

Middles (between rows of trees vines or bushes)

USE DIRECTIONS 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 (or generic equivalent) 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 shepherdspurse annual sowthistle common cheeseweed (malva) 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 of trees vines or bushes)

TANK MIXTURES This product may be applied in rows of tree or vine crops and may also be tank mixed with the following products (or generic equivalent)

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

Do not apply these tank mixtures in Puerto Rico

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

PERENNIAL GRASS SUPPRESSION

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

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

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

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

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

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

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

For suppression of bermudagrass apply 6 to 16 fluid ounces of this product per acre east of the Rocky Mountains and 16 fluid ounces of this product per acre 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 conditions or where a lesser degree of suppression is desired

CUT STUMPS (Tree crops)		
LABELED CROPS Citrus Trees Calamondin Chironja Citron Citrus hybrids Grapefruit Kumquat Lemon Lime Mandarin (Tangerine) Orange (all) Pummelo Tangelo Tangor Fruit Trees Apply Apricot Cherry (sweet sour) Crabapple Loquat Mayhaw Nectarine Olive Peach Pear Plum/Prune (all) Quince Nut Trees Almond Beechnut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert (hazelnut) Hickory Nut Macadamia Pecan Pistachio Walnut (black English)		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Suitable Hand held Equipment	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 blow Apply this product using suitable equipment to ensure coverage of the entire cambium Cut trees or resprouts close to the soil surface Apply a 50 to 100 percent solution of this product to the freshly cut surface immediately after cutting Delays in application may result in reduced performance For best results applications should be made during periods of active growth and full leaf expansion PRECAUTIONS 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	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

10 1 BERRY CROPS		
LABELED CROPS Blackberry (including bingleberry black satin berry boysenberry Cherokee blackberry chesterberry Cheyenne blackberry coryberry darrowberry dewberry Dirksen thronless berry Himalayaberry hullberry juneberry lavacaberry lowberry lucretiaberry marionberry nectarberry olallie berry Oregon evergreen berry phenomenalberry rangeberry ravenberry rossberry Shawnee blackberry and youngberry) Blueberry Cranberry Currant Elderberry Gooseberry Huckleberry Loganberry Raspberry (Black Red) Salal		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 10 0	See Use Directions under Section 10 0	See Section 10 0 Do not permit herbicide solution to contact desirable vegetation including green shoots canes or foliage Allow a minimum of 30 days between last application and harvest of cranberries For other small fruits and berries allow a minimum of 14 days between last application and harvest Do not make directed sprays within the cranberry bush areas prior to berry harvest
Spot Treatment (Cranberry production)	May be used to control weeds growing in dry ditches (interior and perimeter) of cranberry production areas Handheld sprayers or other appropriate application equipment listed under APPLICATION EQUIPMENT AND TECHNIQUES in this label may be used Drop water level to remove standing wate in ditches prior to application In hand held sprayers use 1 to 2 percent solution of this product Spray to wet vegetation not to run off For treatments after draw down of water in dry ditches	Allow a minimum of 30 days between last application and harvest of cranberries Do not apply this material through 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

10 1 BERRY CROPS		
LABELED CROPS Blackberry (including bingleberry black satin berry boysenberry Cherokee blackberry chesterberry Cheyenne blackberry coryberry darrowberry dewberry Dirksen thornless berry Himalayaberry hullberry juneberry lavacaberry lowberry lucretiaberry marionberry nectarberry olallie berry Oregon evergreen berry phenomenalberry rangeberry ravenberry rossberry Shawnee blackberry and youngberry) Blueberry Cranberry Currant Elderberry Gooseberry Huckleberry Loganberry Raspberry (Black Red) Salal		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
	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	
Post harvest (Cranberry Production)	Make applications only after cranberries have been harvested 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 his product per acre PRECAUTIONS Cranberry plants that are directly sprayed may be killed	Do not treat more than 10 percent of the total bog Allow a minimum of 6 months after the last application and next harvest of cranberries Do not apply this product through the irrigation system Do not make applications by air Do not apply directly to water Even though vines appear dormant contact of the herbicide solution with desirable vegetation may result in damage or severe plant injury

10 2 CITRUS		
LABELED CROPS Calamondin Chironja Citron Citrus Hybrids Grapefruit Kumquat Lemon Lime Mandarin (tangerine) Orange (All) Pummelo Satsuma Mandarin Tangelo (ugli) Tangor		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 10 0	See Use Directions under Section 10 0 Florida and Texas only For burn down or control of the weeds listed below apply the labeled rates of this product in 3 to 40 gallons of water per acre Where weed foliage is dense use 10 to 30 gallons of water per acre For goatweed apply 2 to 3 quarts of this product per acre Apply in 20 to 30 gallons of water per acre when plants are actively growing Use 2 quarts per acre when plants are less than 8 inches tall and 3 quarts per acre when plants are greater than 8 inches tall If goatweed is greater than 8 inches tall the addition of Krovar® II or Karmex® may improve control Refer to the individual product labels for specific crops rates *geographic restrictions and precautionary statements*	See Section 10 0 Allow a minimum of 1 day between last application and harvest For citron groves apply as directed sprays only

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

Weed Species	GLYPHOSATE 41% Rate Per Acre			
	1 QT	2 QT	3 QT	5 QT
Bermudagrass	B		PC	C
Guineagrass				
Texas and Florida Ridge	B	C	C	C
Florida Flatwoods		B	C	C
Paragrass	B	C	C	C
Torpedograss	S		PC	C

10 3 – MISCELLANEOUS TREE FOOD CROPS		
LABELED CROPS Cactus (fruits & pads) Palm (heart leaves) Palm (oil)		
TYPES OF APPLICATIONS	USE DIRECTIONS	PRECAUTIONS & RESTRICTIONS
See Section 10 0	See Use Directions under Section 10 0	See Section 10 0

10 4 – NON FOOD TREE CROPS		
LABELED CROPS Pine Poplar Eucalyptus Christmas Trees Other Non food Tree Crops		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 10 0	See Use Directions under Section 10 0	See Section 10 0
Directed sprays Spot treatments Wiper applications	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 Care must be exercised to avoid contact of spray drift or mist with foliage or green bark of established Christmas trees and other pine trees Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material	THIS PRODUCT IS NOT LABELED FOR USE AS AN OVER THE TOP BROADCAST SPRAY IN CHRISTMAS TREES AND OTHER PINE TREE
Site Preparation	This product may be used prior to planting non food tree crops	Precautions must be taken to protect non target plants during site preparations applications
Directed Spray (Eucalyptus and Poplar Production)	This product can be used around established eucalyptus and poplar trees to control undesirable vegetation Use a 1 to 2 percent spray solution to control herbaceous weeds in eucalyptus farms Use a 2 percent spray solution for control of undesirable woody brush and trees For hard to control weeds use a 5 to 10 percent spray solution Avoid contact of spray drift or mist with foliage green bark or non woody surface roots of plants PRECAUTIONS Desirable vegetation contacted by the herbicide solution may be injured or controlled This includes foliage fruit or green stems	AVOID HERBICIDE CONTACT WITH DESIRABLE VEGETATION
Wiper Application (Eucalyptus and Poplar Production)	This product may be used through wick or other suitable wiper applicators for control or partial control of grass and broadleaf weeds listed in the 'WEEDS CONTROLLED section of this label For wick applicators mix 1 gallon of this product with 2 gallons water to make a 33% solution For wiper systems that can handle thicker solutions such as force fed systems a 33 to 100% solution may be used For best results ensure that the herbicide solution is allowed to contact the maximum amount of leaf surface As weed densities increase decrease equipment speed to allow sufficient herbicide flow to wet all weed surfaces contacted Weeds not contacted will be unaffected	

10 5 – POME FRUIT		
LABELED CROPS Apple Crabapple Loquat Mayhaw Pear (including oriental pear) Quince		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 10 0	See Use Directions under Section 10 0	See Section 10 0 Allow a minimum of 1 day between last application and harvest in pome fruits

10 6 – STONE FRUIT		
LABELED CROPS Apricot Cherry (Sweet Tart) Nectarine Olive Peach Pear Plum/Prune (All types) Plumcot		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 10 0	See Use Directions under Section 10 0	See Section 10 0 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 spray 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 application 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		

10 7 TREE NUTS		
LABELED CROPS Almond Beechnut Betelnut Brazil nut Butternut Cashew Chestnut Chinquapin Coconut Filbert (Hazelnut) Hickory nut Macadamia Pecan Pine nut Pistachio Walnut (Black English)		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 10 0	See Use Directions under Section 10 0	See Section 10 0 Allow a minimum of 3 days between last application and harvest of tree nuts except coconut Allow 14 days between application and harvest in coconuts

10 8 TROPICAL CROPS & SUBTROPICAL TREES & FRUITS		
LABELED CROPS Ambarella Atemoya Avocado Banana Barbados Cherry (acerola) Biriba Blimbe Breadfruit Cacao (cocoa) bean Canistel Carambola (starfruit) Cherimoya Coffee Custard apple Dates Durian Feijoa Figs Governor s plum Guava Ilama Imbe Imbu Jaboticaba Jackfruit Longan Lychee Mamey apple Mango Mangosteen Marmaladebox (genip) Mountain papaya Papaya Pawpaw Plantain Persimmon Pomegranate Pulasan Rambutan Rose apple Sapodilla Sapote (black mamey white) Spanish lime Soursop Star apple Sugar apple Surinam cherry Tamarind Tea Ti (roots & leaves) Wax jambu		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 10 0	See Use Directions under Section 10 0 This product may be applied for general weed control or for site preparation prior to transplanting crops listed in this section In coffee and banana delay applications 3 months after transplanting to allow the new coffee or banana plant to become established	See Section 10 0 Allow a minimum of 1 day between last application and harvest of banana guava papaya and plantain crops Allow a minimum of 14 days between last application and harvest of any other tropical or subtropical tree fruit Allow a minimum of 28 days between last application and harvest in coffee crops
Bananacide (Banana only)	See Use Directions under Section 10 0 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 a 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 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 disease for up to 125 days therefore it is critical that the entire mat (or unit) containing the diseased plant be destroyed immediately	See Section 10 0 Do not apply more than ½ fluid ounce (15 mL) of this product s concentrate per mat (or units) 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 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

10 9 VINE CROPS		
LABELED CROPS Grapes (raisin table wine) Hops Kiwi Passion fruit		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Section 10 0	See Use Directions under Section 10 0 Applications must 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	See Section 10 0 Allow a minimum of 14 days between last application and harvest Do not use selective equipment in kiwi

11 0 PASTURE GRASSES FORAGE LEGUMES & RANGELANDS

11 1 – ALFALFA CLOVER & OTHER FORAGE LEGUMES		
LABELED CROPS Alfalfa Clover Kenaf Kudzu Lespedeza Leucaena Lupin Sainfoin Trefoil Velvet bean Vetch (all types)		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Pre plant Pre emergence At Planting	This product may be applied before during or after planting crops listed MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL Applications must be made prior to emergence of the crop	If a single application is made at rates of 2 quarts per acre or less no waiting period between treatment and feeding or grazing is required If application rates greater than 2 quarts per acre are made remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting
Spot treatment Over the Top Wiper applications (Alfalfa and Clover only)	This product may be applied as a spot treatment in alfalfa or clover This product may be applied with wiper applicators to control or suppress the weeds listed under 'WIPER APPLICATORS in the SELECTIVE EQUIPMENT section of this label Applications may be made in the same area at 30 day intervals	For spot treatment and wiper applications apply in areas where the movement of domestic livestock can be controlled No more than one tenth of any acre can be treated at one time Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting
Dormant (Alfalfa Only)	This product will control or suppress many weeds including quackgrass downy brome and cheatgrass in dormant alfalfa Apply 8 to 12 ounces per acre of this product Apply in the spring to alfalfa that is dormant Applications should be made after spring temperatures have warmed enough to encourage resumption of weed growth but prior to initiation of trifoliate leaf expansion of the alfalfa Applications made after expansion of the first trifoliate leaf of the alfalfa will cause growth reduction and reduced crop yield 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 PRECAUTIONS Application of this product can cause crop injury Any crop injury is the sole responsibility of the applicator	Do not use ammonium sulfate when spraying dormant alfalfa with GLYPHOSATE 41% 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
Pre harvest (Alfalfa Only)	This product may be used in declining alfalfa stands or any stand of alfalfa where crop destruction is acceptable This application will severely injure or destroy the stand of alfalfa This product will control annual and perennial weeds including quackgrass when applied prior to the harvest of alfalfa Use up to 1 quart of this product per acre 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	Make only one application to an existing stand of alfalfa per year Do not apply more than 2 quarts of this product per acre as a pre harvest treatment Do not use for alfalfa grown for seed as a reduction in germination or vigor may occur The treated crop and weeds can be harvested and fed to livestock after 36 hours
Renovation	This product may be applied as a broadcast spray to existing stands of alfalfa clover and other labeled forage legumes Labeled crops may be planted into the treated area MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL	Remove domestic livestock before application If application rates of 2 quarts per acre or less are used wait 36 hours after application before grazing or harvesting If application rates greater than 2 quarts per acre are used wait 8 weeks after application before grazing or harvesting

11 2 CONSERVATION RESERVE PROGRAM (CRP)		
LABELLED CROPS Conservation Reserve Program (CRP) Acres		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Renovation (rotating out of CRP) Site preparation	This product may be used to prepare CRP land for crop production Refer to Federal state or local use guides for CRP renovation recommendations MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL PRECAUTIONS Some stunting of CRP perennial grasses will occur if broadcast applications are made when plants are not dormant	Do not apply more than 3 quarts per acre per year onto CRP grasses For any crop not listed in the CROPS sections of this label applications must be made at least 30 days prior to planting
Post emergence Weed control in Dormant Acres Over the Top Wiper Application	This product may be used to suppress competitive growth and seed production of undesirable vegetation in CRP acres Such applications may be made with wiper application equipment or as a broadcast or spot treatment to dormant CRP grasses For selective applications with broadcast spray equipment apply 12 to 16 fluid ounces of this product per acre in early spring before desirable CRP grasses such as crested and tall wheatgrass break dormancy and initiate green growth Late fall applications can be made after desirable perennial grasses have reached dormancy	

11 3 GRASS or TURFGRASS SEED PRODUCTION		
LABELLED CROPS Any grass (Gramineae family) except corn sorghum sugarcane and those listed under CEREAL CROPS		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Pre plant Pre emergence Renovation Site preparation	This product may be applied before during or after planting or for renovation of turf or forage grass areas grown for seed production MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL Applications must be made prior to the emergence of the crop to avoid injury For maximum control of existing vegetation delay planting to determine if any regrowth from escaped underground plant parts occurs Where repeat treatments are necessary sufficient regrowth must be attained prior to application For warm season grasses such as bermudagrass summer or fall applications provide best control	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 and wait 8 weeks following application before grazing or harvesting
Shielded Sprayer	Apply 1 to 3 quarts of this product as a broadcast spray in 10 to 20 gallons of total spray volume per acre 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 or through the protective shields PRECAUTIONS Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage Grower assumes all responsibility for crop losses from misapplication	
Over the Top Wiper Applications	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 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 weed height varies so that not all weeds are contacted In these instances repeat treatments may be necessary Better results may be obtained if 2	Applicators must be adjusted so that the wiper contact point is at least 2 inches above the desirable vegetation

11 3 GRASS or TURFGRASS SEED PRODUCTION		
LABELLED CROPS Any grass (Gramineae family) except corn sorghum sugarcane and those listed under CEREAL CROPS		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
	applications are made in opposite directions PRECAUTIONS Contact of the herbicide solution with desirable vegetation may result in damage or destruction	
Spot treatments	Use a 1 to 1 5 percent solution Apply this product prior to heading of grasses	The crop receiving the spray in the treated area will be killed Avoid drift or spray outside of the target area for the same reason
Creating Rows in Annual Ryegrass	Use 16 to 32 fluid ounces of this product per acre Use the higher rate when the ryegrass is greater than 6 inches tall Best results are obtained when applications are made before the ryegrass reaches 6 inches in height PRECAUTIONS Set nozzle height 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	

11 4 PASTURES		
LABELLED CROPS Any grass (Gramineae family) except corn sorghum sugarcane and those listed under CEREAL CROPS Including Bahiagrass Bermudagrass Bluegrass Brome Fescue Guineagrass Kikuygrass Orchardgrass Pangola grass Ryegrass Timothy Wheatgrass		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Spot treatment Over the Top Wiper Applications	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	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 treatment or wiper applications are made using rates above 3 quarts per acre no more the 10 percent of the total pasture may be treated at any one time To achieve maximum performance remove domestic livestock before application and wait 7 days after application before grazing livestock or harvesting
Pre plant Pre emergence Pasture renovation Stand Removal	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 MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL	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 and wait 8 weeks following application before grazing or harvesting
Chemical Mowing (Bermudagrass Pastures Prior To Spring Growth Or Immediately After First Cutting)	This product may be applied at 16 fluid ounces per acre to control the weeds listed below and most other winter annual grass and broadleaf weeds in established coastal bermudagrass pastures Annual bluegrass Cheat Crabgrass Henbit Johnsongrass seedling Little barley Oats Ryegrass Sandbur field Wheat Wild mustard Applications prior to spring growth Apply this product in the late winter or early spring but before new coastal bermudagrass growth begins in the spring	Labeled application rates totaling 3 quarts per acre or less do not require a waiting period between treatment and feeding or livestock grazing NOTE ONLY ONE APPLICATION PER YEAR MAY BE MADE TO ANY ONE FIELD A SPRING APPLICATION PRIOR TO GROWTH AND AN APPLICATION FOLLOWING THE FIRST CUTTING MAY NOT BE MADE ON THE FILED DURING THE SAME YEAR

11 4 PASTURES		
LABELLED CROPS Any grass (Gramineae family) except corn sorghum sugarcane and those listed under CEREAL CROPS Including Bahiagrass Bermudagrass Bluegrass Brome Fescue Guineagrass Kikuygrass Orchardgrass Pangola grass Ryegrass Timothy Wheatgrass		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
	Applications to new growth can damage the bermudagrass Applications following the first cutting Apply this product after the first bermudagrass cutting when the bermudagrass has not yet begun to regrow Applications made after regrowth has begun can damage the bermudagrass	

Colorado Idaho Iowa Kansas Montana Nebraska North Dakota Oregon South Dakota Utah Washington and Wyoming Only

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

Medusahead To treat medusahead apply 16 fluid ounces of this product per acre as soon as plants are actively growing and prior to the 4 leaf stage Applications may be made in the fall or spring

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

When applied as directed there are no grazing restrictions

11 5 RANGELANDS		
LABELLED CROPS	Rangeland (Perennial cool and warm season grass rangelands)	
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Post emergence	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 Apply 12 to 16 fluid ounces per acre to control or suppress many annual weeds growing in perennial cool and warm season grass rangelands including downy brome cheat grass cereal rye and jointed goatgrass Apply when most mature brome plants are in early flower and before the plants including seedheads turn color Allowing for secondary weed flushes to occur in the spring following rain events further depletes the seed reserve and encourage 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 per acre at the 3 leaf stage Delaying applications beyond this stage will result in reduced or unacceptable control Fire may be useful in eliminating the thatch layer produced by slow decaying culms prior to application Allow new growth to occur before spraying after a burn PRECATUIONS 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 Do not apply more than 3 quarts per acre per year

11 6 – TURF GRASS SOD PRODUCTION		
LABELLED CROPS Turfgrass for Sod		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Pre plant Pre emergence Renovation Site Preparation	This product controls most existing vegetation prior to renovating turf grass areas or establishing turf grass grown for sod Broadcast of hand held equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested For maximum control of existing vegetation delay planting or sodding to determine if any regrowth from escaped underground plant parts occurs Where repeat treatments are necessary sufficient regrowth must be attained prior to application For warm season grasses such as bermudagrass summer or fall applications provide the best control Where existing vegetation is growing under mowed turfgrass management apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL Desirable turfgrasses may be planted following the above procedures	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 and wait 8 weeks following application before grazing or harvesting Do not disturb soil or underground plant before treatment Tillage or renovation techniques such as vertical mowing coring or slicing should be delayed for 7 days after application to allow translocation into underground plant parts
Spot treatment	Hand held equipment may be used for spot treatment of unwanted vegetation growing in existing turf grass	
Turfgrass Renovation for sod production	This product controls most existing vegetation prior to renovating turfgrass areas or establishing turfgrass grown for seed or sod For maximum control of existing vegetation delay planting or sodding to determine if any regrowth from escaped underground plant parts occurs Where repeat treatments are necessary sufficient regrowth must be attained prior to application For warm season grasses such as bermudagrass summer or fall applications provide the best control Where existing vegetation is growing under mowed turfgrass management apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray Do not disturb soil or underground plant parts before treatment Tillage or renovation techniques such as vertical mowing coring or slicing should be delayed for 7 days after application to allow translocation into underground plant parts Desirable turfgrass may be planted following the above procedures Hand held equipment may be used for spot treatment of unwanted vegetation growing in existing turfgrass Broadcast or hand held equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested	Do not feed or graze turfgrass grown for seed or sod production for 8 weeks following application

11 7 RELEASE OF BERMUDAGRASS OR BAHIAGRASS

Dormant applications

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

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

Apply 8 to 64 fluid ounces of this product per acre alone or in a tank mixture with ¼ to 1 ounce per acre of Oust® Apply the labeled rates in 10 to 40 gallons of water per acre Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated To avoid delays in greenup and minimize

injury add no more than 1 ounce of Oust® per acre on bermudagrass and no more than 0 5 ounce of Oust® per acre on bahiagrass and avoid treatments when these grasses are in a semi dormant condition

Actively growing bermudagrass

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

Bahiagrass	Johnsongrass
Bluestem silver	Trumpetcreeper
Fescue tall	Vaseygrass

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

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

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

Actively growing bahiagrass

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days apply 6 fluid ounces of this product in 10 to 40 gallons of water per acre Apply 1 to 2 weeks after full 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

A tank mixture of this product plus Oust® may be used Apply 6 fluid ounces of this product plus 0 25 ounce of Oust® per acre 1 to 2 weeks following an initial spring mowing Make only one application per year

12 0 - ROUNDUP READY® CROPS

The following instructions or those separately published on Albaugh Inc Supplemental labeling 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 (ALPHABETICAL) section of this label

THIS PRODUCT IS TO BE USED FOR POSTEMERGENCE APPLICATION ONLY ON CROP VARIETIES DESIGNEATED AS CONTAINING A ROUNDUP READY GENE OR GLYPHOSATE TOLERANT GENE

Applying this product to crop varieties that are not designated as glyphosate tolerant 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 a Roundup Ready or glyphosate tolerant gene since severe injury or destruction will result

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

NOTE Roundup Ready seed and the method of selectivity controlling weeds using glyphosate on a Roundup Ready crop are protected under several U S Patents A license to use Roundup Ready seed must be obtained prior to use

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

For Aerial Applications apply this product in 3 to 15 gallons of water per acre See the APPLICATION EQUIPMENT AND TECHNOLOGIES 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 A GLYPHOSATE TOLERANT GENE

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

Tank mixtures with other herbicides insecticides fungicides micronutrients or fertilizers may result in reduces weed control or crop injury and are NOT to be used for over the top applications of this product unless otherwise notes in this product label supplemental labeling or fact sheets published separately by Albaugh

Ammonium sulfate may be mixed with this product for applications to Roundup Ready crops Refer to the MIXING section for USE DIRECTIONS 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 directions are based on a clean start at planting by using a burndown application or tillage to control existing weeds before crop emergence In no till and stale seedbed systems a preplant burn down treatment of this product may be used 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

12 1 ROUNDUP READY ALFALFA		
FOR POSTEMERGENCE APPLICATION ONLY ON ALFALFA VARIETIES DESIGNATED AS CONTAINING A ROUNDUP RADY GENE The Roundup Ready designation indicates that the alfalfa contains a patented gene which provides tolerance to this product Information on Roundup Ready alfalfa varieties may be obtained from your seed supplier or Albaugh representative Roundup Ready crop varieties must be purchased from an authorized licensed seed supplier		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Pre plant, At planting, Pre emergence and Post emergence	This product will control many troublesome emerged weeds with over the top applications in Roundup Ready alfalfa For ground applications with broadcast equipment apply this product in 3 to 40 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 fan nozzles Check for even distribution of spray droplets For aerial application Use the labeled rates of this product in 3 to 15 gallons of spray solution per acre A New Stand Establishment (seeding year) Prior to First Cutting During New Stand Establishment From emergence up to 4 trifoliate leaves 2 0 quarts per acre From 5 trifoliate leaves up to 5 days before first cutting 2 0 quarts per acre After First Cutting in Newly Established Stands In crop application per cutting up to 5 days before cutting 2 0 quarts per acre B Established Stands (non seeding year) In Crop applications per cutting up to 5 days before cutting 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 a single application of at least 1 0 quart per acre of this product should be applied 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, applications of this product should be made after weeds have emerged but before alfalfa growth or re growth interferes with application spray coverage of the target weeds In addition to those weeds listed in the GLYPHOSATE 41% herbicide label booklet this product will suppress or control the parasitic weed Dodder (Cuscuta spp) in Roundup Ready alfalfa Repeat applications may be necessary for complete control	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 Sequential applications of this production must be at least 7 days apart The combined total per year for all in crop applications in newly established and established stands must not exceed 6 0 quarts (192 fluid ounces) per acre 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
Over the top applications	This product may be applied post emergence to Roundup Ready alfalfa from emergence until 5 days prior to cutting Any single over the top applications of this product must not exceed 2 0 quarts per acre PRECAUTION Where Roundup Ready alfalfa is grown with a companion or cover crop or is over seeded with a second species over the top applications of this product will eliminate the non Roundup Ready species Tank mixtures with other herbicides insecticides or fungicides may result in crop injury or reduced week control and are NOT recommended for over the top applications of this product	Sequential applications of this production must be at least 7 days apart
MAXIMUM ALLOWABLE APPLICATION RATES		

4/7/94

12 1 ROUNDUP READY ALFALFA		
FOR POSTEMERGENCE APPLICATION ONLY ON ALFALFA VARIETIES DESIGNATED AS CONTAINING A ROUNDUP RADY GENE The Roundup Ready designation indicates that the alfalfa contains a patented gene which provides tolerance to this product Information on Roundup Ready alfalfa varieties may be obtained from your seed supplier or Albaugh representative Roundup Ready crop varieties must be purchased from an authorized licensed seed supplier		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Combined total per year for all applications including pre plant 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
Pre plant At planting and Pre emergence single applications		2 0 quarts per acre

12 2 ROUNDUP READY CANOLA (Spring Varieties)		
LABELLED CROPS Roundup Ready spring canola is defined as those Roundup Ready canola varieties that are seeded in the spring and harvested in the fall and do not enter a winter dormancy period DO NOT USE THIS PRODUCT ON SPRING CANOLA WITH A ROUNDUP READY GENE PLANTED IN THE FOLLOWING STATES ALABAMA DELAWARE FLORIDA GEORGIA KENTUCKY MARYLAND NEW JERSEY NORTH CAROLINA SOUTH CAROLINA TENNESSEE VIRGINIA AND WEST VIRGINIA EXCEPT FOR USES IN WILDLIFE FOOD PLOTS THAT WILL NOT BE FOR HUMAN OR LIVESTOCK FOOD		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Pre plant At Planting Pre emergence	This product may be applied before during or after planting Roundup Ready spring canola	Maximum quantity of this product that may be applied for all pre plant at planting and pre emergence applications combined is 2 quarts per season
Post emergence (In crop)	This product may be applied post emergence to Roundup Ready spring canola from emergence through the 6 leaf stage of development Applications made during bolting or flowering may result in crop injury and yield loss To maximize yield potential make applications early to eliminate competing weeds Single Application – Apply 11 to 16 fluid ounces of this product per acre no later than the 6 leaf stage for the control of annual weeds Avoid overlapping applications as this may result in temporary yellowing delayed flowering and or growth reduction Similar crop injury may result when applications of more than 11 fluid ounces per acre are applied after the 4 leaf stage Sequential Application – Apply 11 fluid ounces of this product 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 emerged annual weeds and perennial weeds such as Canada thistle and quackgrass or when multiple applications are needed for adequate weed control	No more than two in crop (over the top) broadcast applications may be made from crop emergence through the 6 leaf stage of development and the total of all in crop applications must not exceed 22 fluid ounces of this product per acre Allow a minimum of 60 days between last application and canola harvest
MAXIMUM ALLOWABLE APPLICATION RATES		
Total of all Pre plant At Planting Pre emergence applications		2 quarts per acre
Total of all In crop applications from emergence to 6 leaf stage		1 quart per acre

12 3 ROUNDUP READY CANOLA (Fall & Winter Varieties)		
LABELLED CROPS Roundup Ready winter canola is defined as those Roundup Ready canola varieties that are seeded in early fall and harvested the following spring or summer Winter canola varieties are intended to enter a cold period dormancy in the winter		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Pre plant At Planting Pre emergence	This product may be applied before during or after planting Roundup Ready winter canola	Maximum quantity of this product that may be applied for all pre plant at planting and pre emergence applications combines is 2 quarts per acre per season
Post emergence (In crop)	This product may be applied to Roundup Ready winter canola varieties from emergence to canopy closure in the fall and prior to bolting in the spring Applications made during or after bolting may result in crop injury and yield loss To maximize yield potential make applications early to eliminate competing weeds Some weeds with multiple germination times or suppressed (stunted) weeds or weeds that have overwintered may require sequential applications of this product for control The second application should be made after some re growth has occurred and at least 60 days after a previous application of this product Single Application – Apply 22 to 32 fluid ounces of this product per acre in the fall Applications in the fall should be made when weeds are small and actively growing Use the higher rate in the labeled range when weed densities are high when weeds have overwintered or when weeds become large and well established Applications of greater than 16 fluid ounces per acre prior to the 6 leaf stage may result in reduced crop growth in the fall Avoid overlaps Spray overlaps may result in temporary yellowing and/or growth reduction Sequential Applications Apply 16 to 32 fluid ounces of this product per acre to 2 leaf or larger canola in the fall followed by a sequential application at the same rate and at a minimum interval of 60 days but before bolting in the spring Sequential applications are recommended for early emerging annual weeds and winter emerging weeds such as downy brome jointed goatgrass and ryegrass and for weeds that have overwintered This product will control or suppress most of perennial weeds For some perennial weeds sequential applications may be required to reduce competition with the crop	No more than two over the top broadcast applications may be made from crop emergence up to the onset of bolting and the total in crop application must not exceed 2 quarts of this product per acre Applications of greater than 24 fluid ounces per acre prior to the 6 leaf stage may result in reduced crop growth in the fall Allow a minimum of 60 days between last application and harvest of canola grain No waiting period is required between application and open grazing of livestock
MAXIMUM ALLOWABLE APPLICATION RATES		
Total of all Pre plant At Planting Pre emergence applications		2 quarts per acre
Total of all In crop applications from emergence to canopy closure or prior to bolting in the spring		2 quarts per acre

12 4 ROUNDUP READY CORN		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Pre plant Pre emergence At Planting	This product may be applied alone or in a tank mixture before during or after planting corn TANK MIXTURES This product may be tank mixed with Bullet Degree Degree Xtra Harness Harness Xtra Harness Xtra 5 6L Lariat Lasso or Micro Tech at 50 to 100 percent of labeled rate Refer to the specific product label and observe all precautions and limitations on the label for any pre emergence herbicide application including application timing restrictions soil restrictions minimum re cropping interval and rotational guidelines the more restrictive requirements apply NOTE For maximum weed control a post emergence (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 MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL	Applying this product to crop varieties that are not designated as glyphosate tolerant 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 a Roundup Ready or glyphosate tolerant gene since severe injury or destruction will result AVOID DRIFT EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN A GLYPHOSATE TOLERANT GENE See the MIXING and APPLICATION EQUIPMENT AND TECHNIQUES sections of this label for additional directions and restrictions on the application of this product
Post emergence (in crop)	This product may be applied post emergence to Roundup Ready corn from emergence through the V8 stage (8 leaves with collars) or until corn height reaches 30 inches whichever comes first When applied as directed this product controls labeled annual grass and broadleaf weeds in Roundup Ready corn Many perennial grasses and broadleaf weeds will be controlled or suppressed with one or more application of this product The post emergent application of 24 to 32 fluid ounces per acre of this product should be made before the weeds reach a height and/or density that the weeds become competitive with the crop generally 4 inch tall weeds or less This product may be applied alone as a post emergence in crop application to provide control of emerged weeds listed on this label If new flushes of weeds occur a sequential application of this product at 24 to 32 fluid ounces per acre will control the labeled grasses and broadleaf weeds TANK MIXTURES This product may be applied in tank mixture with Bullet Degree Degree Xtra Harness Harness Xtra Harness Xtra 5 6L and Micro Tech at 50 to 100 percent of labeled rate This product may be applied in tank mixture with Permit and Atrazine at labeled rates Refer to the specific product label and observe all precautions and limitations on the label for all products used in tank mixtures including application timing restrictions soil restrictions minimum re cropping interval and rotational guidelines the more restrictive requirements apply Tank mix Partner — Maximum Height of Corn For Application Degree, Degree Xtra, Harness, Harness Xtra, Harness Xtra 5 6L — 11 inches	See the ROUNDUP READY CROPS section of this label for 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

12 4 ROUNDUP READY CORN		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
	Bullet 5 inches Micro Tech Atrazine 12 inches Bullet and Micro Tech are not registered for use as a post emergence application in Texas	
Post emergence With Drop Nozzles	For Roundup Ready corn from emergence through the V8 stage (8 leaves with collars) or until corn height reaches 30 inches whichever comes first this product may be applied over the top broadcast or with drop nozzles When corn height is 24 to 30 inches (free standing) for optimum spray coverage and weed control drop nozzles are recommended For corn heights 30 to 48 inches (free standing) apply this product only using ground application equipment with drop nozzles adjusted to avoid spraying into the whorls of the corn plants	Single in crop applications of this product must not exceed 32 fluid ounces per acre The maximum combined total of multiple in crop applications from emergence through the 48 inch stage is 64 fluid ounces per acre If product is applied to whorls of corn plant injury and yield reduction can occur
Pre Harvest	In Roundup Ready corn up to 1 quart per acre of this product can be applied pre harvest 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)	Allow a minimum of 7 days between application and harvest
Post Harvest	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	Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation

MAXIMUM ALLOWABLE APPLICATION RATES	
Combined total per year for all applications	8 quarts per acre
Total of Pre plant Pre emergence At Planting applications	5 quarts per acre
Total in crop applications from emergence through the V8 stage or 30 inches	2 quarts per acre
Maximum pre harvest 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

12 5 ROUNDUP READY COTTON		
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		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Pre plant Pre emergence At planting	This product may be applied before during or after planting cotton MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL	See the ROUNDUP READY CROPS section of this label for general precautionary instructions for use in Roundup Ready crops
Post emergence (Over the Top)	This product may be applied by aerial or ground application equipment at rates up to 1 quart per acre per application post emergence 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 Salvage Treatment This treatment may be used after the 4 leaf stage of development and must 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 applications or as a post directed treatments 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 MAY BE USED PER GROWING SEASON**	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 MAY BE MADE FROM THE 5 LEAF STAGE THROUGH LAYBY SEQUENTIAL IN CROP OVER THE TOP OR POST DIRECTED APPLICATIONS OF THIS PRODUCT MUST BE AT LEAST 10 DAYS APART AND COTTON MUST HAVE AT LEAST TWO NODES OF INCREMENTAL GROWTH BETWEEN APPLICATIONS ALLOW A MINIMUM OF 7 DAYS BETWEEN APPLICATION AND HARVEST
Selective Equipment	This product may be applied using precision post directed or hooded sprayers at rates up to 1 quart per acre per application to Roundup Ready cotton through layby At this stage post directed equipment must be used which directs the spray to the base of the cotton plants Contact of the spray with cotton leaves 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)	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
Pre harvest	This product may be applied for pre harvest annual and perennial weed control as a broadcast treatment to Roundup Ready cotton after 20 percent boll crack Up to 2 quarts of this product may be applied using either aerial or ground spray equipment TANK MIXTURES This product may be tank mixed with DEF™ 6 Folex™ Ginstar or Prep™ (or generic equivalents) NOTE This product will not enhance the performance of these harvest aids when applied to Roundup Ready cotton	Allow a minimum of 7 days between application and harvest of cotton Do not apply this product to cotton grown for seed as a reduction in germination or vigor may occur REFER TO MANUFACTURERES LABELS FOR USE OF ADDITIVES (such as surfactants stickers and spreaders) FOR PREHARVEST APPLICATION TO COTTON

MAXIMUM ALLOWABLE APPLICATION RATES	
Combined total per year for all applications	8 quarts per acre
Total of Pre plant Pre emergence At Planting applications	5 quarts per acre
Total in crop applications from ground cracking to layby	4 quarts per acre
Maximum pre harvest application rate	2 quarts per acre

12 6 ROUNDUP READY® FLEX COTTON		
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 (MPOSSIBLE 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		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Pre plant Pre emergence At planting	This product may be applied before during or after planting Roundup Ready Flex cotton Always plant into a weed free seedbed In no till and stale seedbed systems always burn down existing weeds before cotton emerges MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL	See the ROUNDUP READY CROPS section of this label for general precautionary instructions for use in Roundup Ready crops
Post emergence (Over the Top)	When applied in accordance with this label Glyphosate 41% herbicide will control labeled annual grasses and broadleaf weeds in Roundup Ready Flex cotton To maximize yield potential spray cotton early to eliminate competing weeds Many perennial weeds will be controlled or suppressed with one or more applications of this product In general an initial application of 1 0 quart per acre on 1 to 3 inch tall annual grass and broadleaf weeds is recommended This product may be applied by ground application equipment at rates up to 1 5 quarts per acre per application post emergence to Roundup Ready Flex cotton In addition to broadcast applications post directed equipment may be used to achieve weed coverage NOTE For specific rates of application and instructions refer to the ANNUAL WEEDS and PERENNIAL WEEDS RATE SECTION in the label booklet for Glyphosate 41% herbicide PRECAUTIONS In crop application rates above 1 0 quart per acre made alone or with the addition of other crop chemical products containing surfactant may cause a crop response including leaf speckling or leaf necrosis Application after 10th leaf or 10th node may result in plant injury and yield loss	The maximum rate for any single in crop application of this product is 1 5 quart per acre made using ground application equipment Except for pre harvest use do not exceed a maximum rate of 1 0 quart per acre of this product when making applications by air Between layby and 60 percent open bolls the maximum combined total rate of this product that may be applied is 2 0 quarts per acre The maximum combined total of all applications made from crop emergence through 60 percent open bolls must not exceed 6 0 quarts per acre
Pre harvest	This product may be applied for pre harvest annual and perennial weed control as a broadcast treatment to Roundup Ready Flex cotton after 60 percent boll crack Up to 2 0 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 Flex cotton	Allow a minimum of 7 days between application and harvest of cotton Do not apply this product to cotton grown for seed as a reduction in germination or vigor may occur THE USE OF ADDITIVES OTHER THAN THOSE LISTED ON THIS LABEL FOR PREHARVEST APPLICATION TO COTTON IS PROHIBITED

MAXIMUM ALLOWABLE APPLICATION RATES	
Combined total per year for all applications (Calculate the combined rate to be used for all pre plant in crop and pre harvest applications)	8 0 quarts per acre
Total of Pre plant Pre emergence At Planting applications	5 0 quarts per acre
Total in crop applications from ground cracking to 60 percent open bolls	6 0 quarts per acre
Maximum allowed from 60 percent bolls open to 7 days prior to harvest	2 0 quarts per acre

12 7 ROUNDUP READY SOYBEANS		
THE USE OF THIS PRODUCT FOR IN CROP APPLICATIONS OVER ROUNDUP READY SOYBEANS MAY NOT BE PRACTICED IN CALIFORNIA UNLESS THE APPLICATOR HAS AT THE TIME OF APPLICATION A CALIFORNIA APPROVED SUPPLEMENTAL LABEL SPECIFYING THE ACCEPTED DIRECTION FOR USE		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Pre plant Pre emergence At Planting	This product may be applied before during or after planting soybeans MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL	See the ROUNDUP READY CROPS section of this label for general precautionary instructions for use in Roundup Ready crops
Post emergence (In Crop)	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 fn 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 marestail (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 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	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
Pre Harvest	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 Care should be taken to avoid excessive seed shatter loss due to ground application equipment	Allow a minimum of 14 days between final application and harvest of soybean grain or feeding of soybean grain forage or hay
Post Harvest	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 2 4 D or dicamba may be used	

MAXIMUM ALLOWABLE APPLICATION RATES	
Combined total per year for all applications	8 quarts per acre
Total of Pre plant Pre emergence At Planting applications	*5 quarts per acre*
Total in crop applications from cracking throughout flowering	3 quarts per acre
Maximum pre harvest application rate	1 quart per acre

12.8 - ROUNDUP READY® SUGAR BEETS

The Roundup Ready designation indicates that the sugar beet contains a patented gene, which provides tolerance to this product. Information on Roundup Ready sugarbeet may be obtained from your seed supplier or Albaugh representative. Roundup Ready crop varieties must be purchased from an authorized licensed seed supplier.

Do NOT combine these instructions with other recommendations made for crop varieties that do not contain a Roundup Ready gene listed in the "ANNUAL AND PERENNIAL CROPS (Alphabetical)" sections of the GLYPHOSATE 41% herbicide label booklet.

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Pre-plant, At-Planting, Pre-emergence	This product may be applied before, during or after planting of Roundup Ready sugar beets. MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN "ANNUAL WEEDS", PERENNIAL WEEDS", AND WOODY BRUSH & TREES RATE TABLES" IN THIS LABEL.	Maximum quantity of this product that may be applied for all pre-plant, at-planting and pre-emergence applications combined is 5.0 quarts per acre per season.
Post-emergence (In-crop)	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.	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.

MAXIMUM ALLOWABLE APPLICATION RATES	
Combined total per year for all application	8.0 quarts per acre
Total of Pre-plant, Pre-emergence, At-Planting 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

13 0 NON CROP USES AROUND THE FARMSTEAD

13 1 WEED CONTROL & TRIM AND EDGE

LABELED SITES Non crop Areas including building foundations along and in fences in dry ditches and canals along ditchbanks farm roads shelterbelts prior to landscape plantings and equipment storage areas

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Any suitable application equipment described in Section 8 0 of this label	This product may be used to control annual weeds perennials weeds and woody brush which are found in any part of the farmstead MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL TANK MIXTURES This product may be tank mixed with the following products (or generic equivalents) 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 and 1 5 quarts per acre when weeds are greater than 6 inches tall For perennial weeds apply 2 to 5 quarts per acre in these tank mixes For tank mixtures with these products through backpack sprayers handguns or other high volume spray to wet applications see the HAND HELD AND HIGH VOLUME EQUIPMENT section of this label for allowable application rates Arsenal, Barricade 65WG, Diuron, Endurance, Escort, Karmex DF, Krovar DF, Oust, Pendulum 3 3 EC, Pendulum WDG, Plateau, Princep DF, Princep Liquid, Ronstar 50 WP, Sahara, Simazine, Surflan, Elar, Vanquish, 2 4 D For control or partial control of the following perennial weeds apply 1 to 2 quarts of this product plus 2 to 4 ounces of Oust® per acre Bahiagrass, Bermudagrass, Broomsedge, Dallisgrass, Dock curly, Dogfennel, Fescue tall, Johnsongrass, Poorjoe, Quackgrass, Vaseygrass, Vervain blue	This product plus dicamba tank mixtures may not be applied by air in California

13 2 GREENHOUSE/SHADEHOUSE

LABELLED USES

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Spot Spray Directed Spray	This product may be used to control weeds in and around greenhouses and shadehouses MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL	Air circulation fans must be turned off during application Desirable vegetation should not be present during application

13 3 – CHEMICAL MOWING		
LABELLED USES Farm Ditches and Other Parts of Farmsteads		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Any suitable application equipment described in Section 8 0 of this label t	This product will suppress perennial grasses listed in this section to serve as a substitute for mowing Use 8 fluid ounces of this product per acre when treating tall fescue fine fescue orchardgrass or quackgrass covers Use 6 fluid ounces of this product per acre when treating Kentucky bluegrass Use 16 fluid ounces of this product when treating bermudagrass Use 64 fluid ounces of this product when treating torpedograss or paragrass Apply treatments in 10 to 20 gallons of spray solution per acre	Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated

13 4 – CUT STUMPS				
LABELLED USES Cut Stumps (on any non crop site listed on this label)				
TYPES OF APPLICATIONS	USE DIRECTIONS			RESTRICTIONS
Suitable Hand Held Equipment	This product will control regrowth of cut stumps and resprouts of many types of woody brush and tree species some of which are listed below Apply this product using suitable equipment to ensure coverage of the entire cambium Cut trees or resprouts close to the soil surface Apply a 50 to 100 percent solution of this product to the freshly cut surface immediately after cutting Delays in application may result in reduced performance For best results applications should be made during periods of active growth and full leaf expansion			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
	Alder Eucalyptus Madrone Oak	Pepper brazilian Pine Austrian Reed giant Salt cedar	Sweetgum Tan oak Willow	

13 5 – HABITAT MANAGEMENT		
LABELLED USES Habitat Restoration & Maintenance Wildlife Food Plots		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Any suitable application equipment described in Section 8 0 of this label	This product may be used to control exotic and other undesirable vegetation in habitat management and natural areas including rangeland and wildlife refuges Applications can be made to allow recovery of native plant species prior to planting desirable native species and for similar broad spectrum vegetation control requirements in habitat management areas MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL Spot treatments can be made to selectively remove unwanted plants for habitat maintenance and enhancement 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 to allow translocation into underground plant parts

14 0 – FORESTRY INDUSTRIAL TURF & ORNAMENTAL

14 1 – FORESTRY SITE PREPARATION		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Boom Sprayers Shielded Boom Sprayers High Volume Off Center Nozzles Hand Held Equipment And Similar Equipment	This product is to be used for the control or partial control of woody brush trees and herbaceous weeds in forestry This product is also recommended for use in preparing or establishing wildlife openings with these sites and maintaining logging roads MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL This product is to be used for site preparation prior to planting any tree species including Christmas trees eucalyptus hybrid tree cultivars and silvicultural nursery sites Use higher rates of this product within the labeled range for control or partial control of woody brush trees and hard to control perennial herbaceous weeds For best results apply to actively growing woody brush and trees after full leaf expansion and before fall color and leaf drop Increase rates within the labeled range for control of perennial herbaceous weeds any time after emergence and before seedheads flowers or berries appear Use the lower rates of this product within the labeled range for control of annual herbaceous weeds and actively growing perennial herbaceous weeds after seedheads flowers or berries appear Apply to the foliage of actively growing annual herbaceous weeds any time after emergence TANK MIXTURES Tank mixtures of this product may be used to increase the spectrum of vegetation controlled When tank mixing read and carefully observe the label claims cautionary statements and all information on the labels of all products used Use according to the restrictive precautionary statements for each product in the mixture NOTE For forestry site preparation make sure the tank mix product is approved for use prior to planting the desired species Observe planting interval restrictions Any labeled rate of this product may be used in a tank mix with the following products (or generic equivalents) for forestry site preparation Arsenal Applicators Concentrate — Garlon 4A Chopper — Landmark XP Escort or Escort XP — Oust or Oust XP Garlon 3A — Westar For control of herbaceous weeds use the lower labeled tank mixture rates For control of dense stands or tough to control woody brush and trees use the higher labeled rates	Do not apply this product as an over the top broadcast spray for forestry conifer or hardwood release unless otherwise specified on this label or in separate supplemental labeling published by Albaugh Inc for this product

58/74

14 2 – NONCROP AREAS & INDUSTRIAL SITES		
LABELLED USES Non crop areas including airports apartment complexes Christmas tree farms commercial sites Conservation Reserve Program (CRP) areas ditch banks dry ditches dry canals fencerows gold courses greenhouses industrial sites landscape areas lumber yards manufacturing sites municipal sites natural areas office complexes ornamentals parks parking areas pastures petroleum tank farms and pumping installations plant nurseries public areas railroads rangeland recreational areas residential areas rights of way roadsides schools sod or turf seed farms sports complexes storage areas substations turfgrass areas utility sites warehouse areas and wildlife management areas		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
This product may be applied with any suitable application equipment described in Section 8 0 of this label	This product may be used to trim and edge around objects in non crop sites for spot treatment of unwanted vegetation and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings This product may be used prior to planting an areas to ornamentals flowers turgrass (sod or seed) or prior to laying asphalt or beginning construction projects MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL Repeated applications of this product may be used as weeds emerge to maintain bare ground TANK MIXTURES This product may be tank mixed with the following products (or generic equivalents) provided that the specific product is registered for use on the target site Refer to these product labels for approved sites and application rates 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 precautionary statements for each product in the mixture Use is responsible for ensuring that the mixture product s label allows the specific applications Arsenal™ – Outrider atrazine – pendimethalin Barricade™ 65WG – Plateau™ Certainty – Crossbow L dicamba – Landmark II MP diuron – Landmark II Endurance™ – Ronstar™ 50 WP Escort™ Escort XP – simazine Gallery 75DF – Surflan™ AS Garlon™ 3A – Surflan WDG Garlon 4 – Telar™ DF Goal 2XL – Transline Velpar DF Krovar™ I DF – Velpar L Oust – 2 4 D Oust XP – Poast When applied as a tank mixture for bare ground this product provides control of the emerged annual weeds and control of partial control of emerged perennial weeds woody brush and trees For control or partial control of the following perennial weeds apply 1 to 2 quarts of this product plus 2 to 4 ounces of Oust or Oust XP per acre Bahiagrass – Dock curly – Poorjoe Bermudagrass – Dogfennel – Quackgrass Broomsedge – Fescue tall – Vaseygrass Dallisgrass – Johnsongrass – Vervain blue	This product plus dicamba tank mixtures may not be applied by air in California

14 3 – INJECTION & FRILL (Woody Brush & Trees)		
LABELED SITES Woody brush & Trees in non crop areas		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Injection or Frill Applications	Apply this product using suitable equipment which must penetrate into the living tissue Apply the equivalent of 1 mL of this product per each 2 to 3 inches of trunk diameter at breast height (DBH) This is best achieved by applying a 50 to 100 percent concentration of this product either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches As tree diameter increases in size better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings For best results application should be made during periods of active growth and after full leaf expansion This product will control many species some of which are listed below Control: Oak, Poplar, Sweetgum, Sycamore Partial Control: Black gum, Dogwood, Hickory, Maple red	Avoid application techniques that allow runoff to occur from frilled or cut areas in species that exude sap freely In species such as this make the frill or cuts at an oblique angle to produce a cupping effect and use a 100 percent concentration of this product

14 4 – HOLLOW STEM INJECTION		
LABELLED SITES Hollow stem plants growing in any non crop site specified on this label		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Hand Held Injection Devices That Deliver Labeled Amounts Of This Product	For control of the following hollow stem plants use the application rates below Japanese Knotweed Polygonum cuspidatum Inject 5mL per stem of this product between second and third internode Bohemian Knotweed Polygonum bohemicum Inject 5mL per stem of this product between the second and third internode Giant Hogweed Hercleum mantegazzianum Inject one leaf cane per plant 12 inches above the root brown with 5 mL of a 5% v/v solution of this product Poison Hemlock Conium maculatum Inject one leaf cane per plant 10 to 12 inches above the root crown with 5 mL of a 5% v/v solution of this product Field horsetail Equisetum arvense Inject one segment above the root crown with 0 5 mL per stem of this product Use a small syringe that calibrates to this rate Canada Thistle Circisum arvense Cut 8 to 9 of the tallest plants at bud stage in a clump with clippers Use a cavity needle that is pushed into the stem center and then slowed removed as 0 5 mL per stem of this product is injected into the stem	The combined total for all treatments must not exceed 7 quarts of this product per acre At 5 mL per stem 7 quarts should treat approximately 1300 stems per acre

14 5 – ORNAMENTALS PLANT NURSERIES & CHRISTMAS TREES		
LABELED SITES Plant Nurseries Christmas Tree farms & other non food tree production sites		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Post Directed Trim and Edge	This product may be used as a post directed spray around established woody ornamental species (including arborvitae azalea boxwood crabapple eucalyptus euonymus fir Douglas fir jojoba hollies lilac magnolia maple oak poplar privet pine spruce and yew growing in plant nurseries on Christmas tree farms or on other non food tree production sites) or to trim and edge around trees buildings sidewalks roads potted plants and other objects in a production setting Apply at a concentration labeled by Section 15 0 or Section 16 0 or Section 16 1 or Section 17 0 appropriate to the species of weed to be controlled 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 ALLOWED FOR USE AS AN OVER THE TOP BROADCAST SPRAY IN ORNAMENTALS AND CHRISTMAS TREES Care must be taken to avoid contact of spray drift or mist with foliage or green bark of desirable ornamental species
Site Preparation	This product may be used prior to planting any tree shrub or vine including Christmas tree species in a nursery or production setting	
Wiper Application	This product may be used through wick or other suitable wiper applicators to control or partially control undesirable vegetation around established trees shrubs or vines See the SELECTIVE EQUIPMENT section of this label for further information about the proper use of wiper applicators	

14 6 – PARKS RECREATIONAL & RESIDENTIAL AREAS		
LABELLED SITES Around Trees Fences Paths Driveways Around Buildings Patios Sidewalks Flower Beds Around Shrubs and other Ornamental Plants		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Trim and Edge Spot Treatment	This product may be used to eliminate unwanted weeds growing in areas listed above Use suitable hand held equipment for directed spraying according to instructions in Section 7 3 MIXING FOR HAND HELD SPRAYERS If necessary use cardboard or plastic to shield desirable plants Do not use for spot weed control in lawns since desirable lawn grass will also be killed	Spray only when air is calm Care must be taken to avoid contact of spray drift or mist with foliage or green bark of desirable ornamental species
Site Preparation Lawn Renovation	This product may be used prior to planting an area to ornamentals flowers turfgrass (sod or seed) lawn renovation or prior to laying asphalt or beginning construction projects MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL Apply using suitable broadcast or directed spray equipment For lawn renovation thorough coverage is necessary to kill all weeds and old lawn For best results apply when daytime temperatures are at least 60 F Do not mow for 7 days before or after treatment 7 days after application soil may be tilled fertilized and seeded	

14 7 – RAILROADS		
LABELLED SITES Railroad Rights of Way Railroad Ballast areas		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Boom Sprayers Shielded Boom Sprayers High Volume Off Center Nozzles Hand Held Equipment	All of the instructions in the NONCROP AREAS AND INDUSTRIAL SITES section apply to railroads MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL This product may be used to maintain bare ground on railroad ballast and shoulders Repeat applications of this product may be used as weeds emerge to maintain bare ground This product may be used to control tall growing weeds to improve line of sight at railroad crossings and reduce the need for mowing along rights of way For crossing applications up to 80 gallons of spray solution per acre may be used TANK MIXTURES This product may be tank mixed with the following products (or generic equivalent) for ballast shoulder spot bare ground and crossing treatments provided that the specific product is registered for use on such sites Refer to these product labels for approved non crop sites and application rates 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 precautionary statements for each product in the mixture ARSENAL® Dicamba DIURON ESCORT® GARLON® 3A GARLON® 4 HYVAR® X KROVAR® I DF OUST® SAHARA® SPIKE® TELAR® VELPAR® 2 4 D Brush control This product may be used to control woody brush and trees on railroad rights of way Apply 4 to 10 quarts of this product per acre as a broadcast spray using boom type or boomless nozzles Up to 80 gallons of spray solution per acre may be used Apply a ¾ to 2 percent solution of this product when using high volume spray to wet applications Apply a 5 to 10 percent solution of this product when using low volume directed sprays for spot treatment This product may be mixed with the following products (or generic equivalent) for enhanced control of woody brush and trees ARSENAL® ESCORT® GARLON® 3A GARLON 4 KERNITE TELAR DF TORDON® K TORDON 22K TRANSLINE VANQUISH VELPAR	Observe application precautions in Section 8 0 Avoid application to non target plants due to drift overspray or runoff

14 8 – ROADSIDES		
LABELLED SITES Roadside Rights of Way areas (including Shoulders Guardrails and Signposts)		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Boom Sprayers Shielded Boom Sprayers High Volume Off Center Nozzles Hand Held Equipment And Similar Equipment	All the instructions in the NONCROP AREAS AND INDUSTRIAL SITES section apply to roadsides MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL This product may be used on road shoulders under guardrails and around signposts and other objects along roadsides that may be obstacles to mowing TANK MIXTURES This product may be tank mixed with the following products (or generic equivalent) for shoulder guardrail spot and bare ground treatments BANVEL® DIURON ENDURANCE® ESCORT® KROVAR® I DF OUST® PENDULUM® 3 3 EC PENDULUM® WDG PRINCEP® DF PRINCEP® LIQUID RONSTAR® 50 WP SAHARA® SIMAZINE SURFLAN® TELAR® VANQUISH® 2 4 D See the NONCROP AREAS AND INDUSTRIAL SITES section of this label for instructions for tank mixing	Observe application precautions in Section 8 0 Avoid application to non target plants due to drift overspray or runoff
Spot treatment	This product may be used as a spot treatment to control unwanted vegetation growing along roadsides	

14 9 – UTILITY SITES		
LABELLED SITES Electrical Power Pipeline And Telephone Rights Of Way And In Other Sites Associated With These Rights Of Way Including Substations Roadsides Railroads Or Similar Rights Of Way That Run In Conjunction With Utilities		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Boom Sprayers Shielded Boom Sprayers High Volume Off Center Nozzles Hand Held Equipment And Similar Equipment	This product may be used in utility sites and substations to control unwanted vegetation and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings This product may be used prior to planting a utility site to ornamentals flowers turfgrass (sod or seed) or beginning construction projects MAKE APPLICATIONS ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS PERENNIAL WEEDS AND WOODY BRUSH & TREES RATE TABLES IN THIS LABEL Repeated applications of this product may be used as weeds emerge to maintain bare ground This product can also be used when preparing or establishing wildlife openings within these sites maintaining access roads and for side trimming along utility rights of way For control of herbaceous weeds use the lower labeled tank mixture rates For control of dense stands of tough to control woody brush and trees use the higher labeled rates TANK MIXTURES Tank mixtures of this product may be used to increase the spectrum of control for herbaceous weeds woody brush and trees This product may be tank mixed with the following products or generic equivalent) Refer to these products labels for approved non crop sites and application rates Read and carefully observe the cautionary statements an all other information appearing on the labels of all herbicides used Use according to the most restrictive precautionary statements for each product in the mixture User is responsible for ensuring that the mixture product s label allows the specific application when tank mixing with a single generic active ingredient listed below Arsenal atrazine[1] Barricade 65WG dicamba[1] diuron[1] Endurance Escort Escort XP Garlon 3A[2] Garlon 4[3] Krenite Krovar 1 DF Oust Oust XP Outrider pendimethalin[1] Plateau Princep Ronstar 50WP Sahara simazine[1] Surflan AS Surflan WDG Telar DF Transline Vanquish Velpar DF Velpar L 2 4 D[2] [1] Tank mixtures with product containing this generic active ingredient may be made provided the specific product is registered for the use [2] Ensure that Garlon 3A is thoroughly mixed with water according to label directions before adding this product Have spray mixture agitating at the time this product is added to avoid spray incompatibility problems [3] For side trimming treatments it is recommended that this product be used alone or in a tank mixture with Garlon 4	Observe application precautions in Section 8 0 Avoid application to non target plants due to drift overspray or runoff

15 0 ANNUAL WEEDS RATE TABLES 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 REQUIRED

- 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

ANNUAL WEEDS RATE TABLE

WEED SPECIES	APPLICATION RATE (fluid ounces/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		
Dwarfdandelion	12				
Eastern mannagrass	8	12			
Eclipta		4	8	12	
Fall panicum	4		6		12
Falsedandelion		20			
Falseflax smallseed	12				
Fiddleneck		6	12		
Field pennycress	6	12			
Filaree			6		12
Fleabane annual	6	20			
Fleabane hairy (*Conyza bonariensis*)			6		10
Fleabane rough	3	6	12		
Florida pusley			4		6
Foxtail giant bristly yellow	6	12	20		

WEED SPECIES	APPLICATION RATE (fluid ounces/acre)				
	16	24	32	40	48
	Maximum height/length (in inches)				
Foxtail Carolina	10				
Foxtain green	12				
Goatgrass jointed	6	12			
Goosegrass		3	6		12
Grain sorghum (milo)	6	12	20		
Groundcherry		3	6		9
Groundsel common		6	10		
Hemp sesbania		2	4	6	8
Henbit			6		12
Horseweed/Marestail (*Conyza canadensis*)		6	12		18
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 to 6	12		
Lambsquarters		6	12		20
Little barley	6	12			
London rocket	6		24		
Mayweed		2	6	12	18
Morningglory (*Ipomoea spp*)			3		6
Mustard blue	6	12	18		
Mustard tansy	6	12	18		
Mustard tumble	6	12	18		
Mustard, wild	6	12	18		
Nightshade black		4	6		12
Nightshade hairy		4	6		12
Oats	3	6	18		
Pigweed		12	18	24	
Prickly lettuce		6	12		
Purslane			3		6
Ragweed common		6	12		18
Ragweed giant		6	12		18
Red rice			4		
Rye volunteer/cereal[2]	6	18	18 +		
Ryegrass			6		12
Sandbur field	6	12			
Sandbur, longspine	6	12			
Shattercane	6	12	20		
Shepherdspurse	6	12			
Sicklepod		2	4		8
Signalgrass broadleaf		3	6	7	9
Smartweed ladysthumb			6		9
Smartweed Pennsylvania			6		9
Sowthistle annual			6		12
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

WEED SPECIES	APPLICATION RATE (fluid ounces/acre)				
	16	24	32	40	48
	Maximum height/length (in inches)				
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

15 1 ANNUAL WEEDS – Water Carrier Volumes of 10 to 40 Gallons per Acre

Apply 1 to 2 quarts of this product per acre Use 1 quart per acre if weeds are less than 6 inches tall and 1 5 quarts per acre if weeds are 6 to 12 inches tall and 2 quarts per acre if weeds are greater than 12 inches tall

These rates will provide control of weeds listed in the annual weed control tables when water carrier volumes are 10 to 40 gallons per acre for ground applications Older mature (hardened) annual weed species may require higher rates even of they meet the size requirements

15 2 ANNUAL WEEDS – Tank Mixtures with 2 4 D or Dicamba or Picloram 22K

12 to 16 fluid ounces of this product plus 0 25 pounds a i of Dicamba or 0 5 pounds a i of 2 4 D per acre or 1 to 2 fluid ounces of Picloram 22K per acre will control the following weeds with the maximum height or length indicated

6 – prickly lettuce marestail/horseweed (Conyza canadensis) morningglory (Ipomoea spp) kochia (dicamba only) Wild buckwheat (Picloram 22K only)

12 – cocklebur lambsquarters pigweed Russian thistle (2 4 D only)

16 fluid ounces of this product plus 0 5 pounds a i of 2 4 D per acre will control the following weeds when they are a maximum height or length of 6 inches common ragweed giant ragweed Pennsylvania smartweed and velvetleaf

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

DO NOT APPLY DICAMBA TANK MIXTURES BY AIR IN CALIFORNIA

15 3 ANNUAL WEEDS – Hand Held or High Volume Equipment

For control of weeds listed in the ANNUAL WEEDS RATE TABLE apply a 0 5 percent solution of this product to weeds less than 6 inches in height or runner length Apply prior to seedhead formation in grass or bud formation in broadleaf weeds For annual weeds over 6 inches tall or unless otherwise specified use a 1 percent solution

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

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

15 4 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 ounces for control) Downy brome Green foxtail Lambsquarters Prickly lettuce Tansy mustard Pigweed Field sandbur Stinkgrass Russian thistle Volunteer wheat Witchgrass and Kochia (add 1/8 pound of dicamba for control)

16 0 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

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

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 GLYPHOSATE 41%					
	½%	1%	1 1/2%	2%	5%	10%
1 Gal	2/3 oz	1 1/3 oz	2 oz	2 2/3 oz	6 ½ oz	13 oz
25 Gal	1 pt	1 qt	1 ½ qt	2 qt	5 qt	10 qt
100 Gal	2 qt	1 gal	1 ½ gal	2 gal	5 gal	10 gal

2 tablespoons = 1 fluid ounce

WEED SPECIES	RATE (QT/A)	WATER VOL (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

WEED SPECIES	RATE (QT/A)	WATER VOL (GPA)	HAND HELD % SOLUTION	COMMENTS
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 the weeds are at or beyond full bloom For best results apply in late summer or fall Fall treatments must be applied before a killing frost Also for control apply 2 quarts of this product plus 0 5 pounds a i of Banvel® 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 16 fluid ounces of this product plus 0 5 pound a i 2 4 D in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications Apply by air in fallow and reduced tillage systems only Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length In California only apply 1 to 5 quarts of this product per acre Actual rate needed for suppression or control will vary within this range depending on local conditions For suppression on irrigated land where annual tillage is performed apply 1 quart of this product in 3 to 10 gallons of water per acre Apply to bindweed that has reached a length of 12 inches or greater Allow maximum weed emergence and runner growth Allow 3 or more days after application before tillage
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 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
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 at 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 1 pint of Banvel® per acre For partial control apply 1 quart of this product plus 1 pint of Banvel® 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 ½ to 1 pound 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

WEED SPECIES	RATE (QT/A)	WATER VOL (GPA)	HAND HELD % SOLUTION	COMMENTS
Dandelion	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 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 fluid ounces of this product plus 0 5 pound a i 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 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
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 the boot to head stage of growth or in the fall prior to frost Allow 7 or more days after application before tillage Do not tank mix with residual herbicides when using the 1 quart per acre rate 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 must 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 prior to spring applications Allow 3 or more days after application before tillage

WEED SPECIES	RATE (QT/A)	WATER VOL (GPA)	HAND HELD % SOLUTION	COMMENTS
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 percent 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 percent solution for control of nutsedge plants and immature nutlets attached to treated plants Treat when plants are in flower or when new nutlets can be found at rhizome tips Nutlets which have not germinated will not be controlled and may germinate following treatment Repeat treatments will be required for long term control of ungerminated tubers Sequential applications 1 to 2 quarts of this product in 3 to 10 gallons of water per acre will also provide control Make applications when a majority of the plants are in the 3 to 5 leaf stage (less than 6 inches tall) Repeat this application as necessary when newly emerging plants reach the 3 to 5 leaf stage Subsequent applications will be necessary for long term control For partial control of existing plants apply 1 pint to 2 quarts of this product in 3 to 40 gallons of water per acre Treat when plants have 3 to 5 leaves and most are less than 6 inches tall Repeat treatments will be required to control subsequent emerging plants or regrowth of existing plants
Orchardgrass	1 2	3 40	2%	Apply 2 quarts of this product in 10 to 40 gallons of water per acre when most plants have reached boot to early seedhead stage of development For partial control in pasture or hay crop renovation apply 1 to 1 5 quarts of this product in 3 to 10 gallons of water per acre Apply to actively growing plants when most have reached 4 to 12 inches in height Orchardgrass sods going to no till corn Apply 1 to 1 5 quarts of this product in 3 to 10 gallons of water per acre Apply to orchardgrass that is a minimum of 12 inches tall for spring 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 months or when plants are actively growing and in full bloom Treatment before or after this stage may lead to reduced control Due to the dense nature of the vegetation which may prevent good spray coverage or uneven stages of growth repeat treatments may be necessary to maintain control Visual control symptoms will be slow to develop
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 the 1 quart rate Spray when quackgrass is 6 to 8 inches in height Do not till between harvest and fall applications or in fall or spring prior to spring application Allow 3 or more days after application before tillage In pastures or sods use a moldboard plow for best results In pastures sods or noncrop areas where deep tillage does not follow application Apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre when the quackgrass is greater than 8 inches tall

WEED SPECIES	RATE (QT/A)	WATER VOL (GPA)	HAND HELD % SOLUTION	COMMENTS
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 labeled rates in 5 to 10 gallons of water per acre Apply in late September or early October to plants which 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 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 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 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 the 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 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 the 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 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 wild			2%	Partial control Apply to plants that are at or 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 growth and rosette development prior to the application of this product Fall treatments must be applied before a killing frost Allow 3 or more days after application before tillage For suppression apply 1 quart of this product or 1 pint of this product plus 0 5 pound a i 2 4 D in 3 to 10 gallons of water per acre in the late summer or fall after harvest mowing or tillage Allow rosette regrowth to a minimum of 6 inches in diameter before treating Applications can be made as long as leaves are still green and plants are actively growing at the time of application Allow 3 or more days after application before tillage
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
Trumpetcreeper	2	5 10	2%	Partial control Apply in late September or October to plants which are at least 18 inches tall and have been growing 45 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

16 1 PERENNIAL WEEDS – Bromus Species and Medusahead

For Use in the States of Colorado Idaho Iowa Kansas Montana Nebraska North Dakota Oregon South Dakota Utah Washington and Wyoming Only

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

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

17 0 WOODY BRUSH AND TREES RATE TABLE ALPHABETICALLY BY SPECIES

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

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

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

Allow 7 or more days after application before tillage mowing or removal Repeat treatments may be necessary to control plants regenerating from underground parts or seed Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred Reduced performance may result if fall treatments are made following a frost

WEED SPECIES	RATE (QT/A)	HAND HELD % SOLUTION	COMMENTS
Alder	3 4	1 1 5%	For control
Ash	2 5	1 2%	Partial control
Aspen quaking	2 3	1 1 5%	For control
Bearmat (Bearclover)	2 5	1 2%	Partial control
Beech	2 5	1 2%	Partial control
Birch	2	1%	For control
Blackberry	3 4	1 1 5%	For control Make applications after plants have reached full leaf maturity Best results are obtained when applications are made in late summer or fall Applications may also be made after leaf drop and until a killing frost or as long as stems are green After berries have set or dropped in late fall blackberry can be controlled by applying a ¾ percent solution of this product For control of blackberries after leaf drop and until a killing frost or as long as stems are green apply 3 to 4 quarts of this product in 10 to 40 gallons of water per acre
Blackgum	2 5	1 2%	For control
Bracken	2 5	1 2%	For control
Broom French Scotch		1 5 2%	For control
Buckwheat California		1 2%	For partial control Thorough coverage of foliage is necessary for best results
Cascara	2 5	1 2%	Partial control
Catsclaw		1 1 5%	Partial control
Ceanothus	2 5	1 2%	Partial control
Chamise		1%	For control Thorough coverage of foliage is necessary for best results
Cherry bitter black pin	2 3	1 1 5%	For control

WEED SPECIES	RATE (QT/A)	HAND HELD % SOLUTION	COMMENTS
Coyote brush		1 5 2%	For control Apply when at least 50 percent of the new leaves are fully developed
Dogwood	2 5	1 2%	Partial control
Elderberry	2	1%	For control
Elm	2 5	1 2%	Partial control
Eucalyptus		2%	For control of eucalyptus resprouts apply when resprouts are 6 to 12 feet tall Ensure complete coverage Avoid application to drought stressed plants
Florida holly (Brazilian Peppertree)	2 5	1 2%	Partial control
Gorse	2 5	1 2%	Partial control
Hasardia		1 2%	Partial control Thorough coverage of foliage is necessary for best results
Hawthorn	2 3	1 1 5%	For control
Hazel	2	1%	For control
Hickory	2 5	1 2%	Partial control
Honeysuckle	3 4	1 1 5%	For control
Hornbeam American	2 5	1 2%	Partial control
Kudzu	4	2%	For control Repeat applications may be required to maintain control
Locust black	2 4	1 2%	Partial control
Madrone resprouts		2%	Partial control Apply to resprouts that are 3 to 6 feet tall Best results are obtained with spring/early summer treatments
Manzanita	2 5	1 2%	Partial control
Maple red	2 4	1 1 5%	For control apply a 1 to 1 5 percent solution when at least 50 percent of the new leaves are fully developed For partial control apply 2 to 4 quarts of this product per acre
Maple sugar		1 1 5%	For control Apply when at least 50 percent of the new leaves are fully developed
Monkey flower		1 2%	Partial control Thorough coverage of foliage is necessary for best results
Oak black white	2 4	1 2%	Partial control
Oak post	3 4	1 1 5%	For control
Oak northern pin		1 1 5%	For control Apply when at least 50 percent of the new leaves are fully developed
Oak southern red	2 3	1 1 5%	For control
Persimmon	2 5	1 2%	Partial control
Pine	2 5	1 2%	For control
Poison ivy/Poison oak	4 5	2%	For control Repeat applications may be required to maintain control Fall treatments must be applied before leaves lose green color
Poplar yellow	2 5	1 2%	Partial control
Redbud eastern	2 5	1 2%	For control
Rose multiflora	2	1%	For control Treatments should be made prior to leaf deterioration by leaf eating insects
Russian olive	2 5	1 2%	Partial control
Sage black		1%	For control Thorough coverage of foliage is necessary for best results
Sage white	2 5	1 2%	Partial control
Sage brush California		1%	For control Thorough coverage of foliage is necessary for best results
Salmonberry	2	1%	For control
Salt cedar	2 5	1 2%	For control
Sassafras	2 5	1 2%	Partial control
Sourwood	2 5	1 2%	Partial control
Sumac poison smooth winged	2 4	1 2%	Partial control
Sweetgum	2 3	1 1 5%	For control
Swordfern	2 5	1 2%	Partial control
Tallowtree Chinese		1%	For control Thorough coverage of foliage is necessary for best results
Tan oak resprouts		2%	For partial control Apply to resprouts that are less than 3 to 6 feet tall Best results are obtained with fall applications
Thimbleberry	2	1%	For control
Tobacco tree		1 2%	Partial control
Trumpetcreeper	2 3	1 1 5%	For control
Vine maple	2 5	1 2%	Partial control
Virginia creeper	2 5	1 2%	For control
Waxmyrtle southern	2 5	1 2%	Partial control
Willow	3	1%	For control

CONDITIONS OF SALE AND WARRANTY

The DIRECTIONS FOR USE of this product reflect the opinion of experts based on field use and tests The directions are believed to be reliable and must be followed carefully However it is impossible to eliminate all risks inherently associated with use of this product Crop injury ineffectiveness or other unintended consequences may result because of such factors as weather conditions presence of other materials or the manner of use or application all of which are beyond the control of ALBAUGH INC its Supplemental Distributors or the Seller All such risks shall be assumed by the Buyer

ALBAUGH INC its Supplemental Distributors and the Seller warrant that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above TO THE EXTENT CONSISTENT WITH APPLICABLE LAW NEITHER ALBAUGH INC NOR ITS SUPPLEMENTAL DISTRIBUTORS MAKE ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY THIS WARRANTY DOES NOT EXTEND TO AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW BUYER S EXCLUSIVE REMEDY AND THE EXCLUSIVE LIABILITY OF ALBAUGH INC ITS SUPPLEMENTAL DISTRIBUTORS AND THE SELLER FOR ANY AND ALL CLAIMS LOSSES DAMAGES OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER OR NOT BASED IN CONTRACT NEGLIGENCE STRICT LIABILITY IN TORT OR OTHERWISE SHALL BE LIMITED AT THE MANUFACTURER S OPTION TO REPLACEMENT OF OR THE REPAYMENT OF THE PURCHASE PRICE FOR THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED When Buyer suffers losses or damages resulting from the use or handling of this product (including claims based on contract negligence strict liability or other legal theories) Buyer must promptly notify Seller in writing of any claims to be eligible to receive either remedy stated above TO THE EXTENT CONSISTENT WITH APPLICABLE LAW IN NO CASE SHALL ALBAUGH INC ITS SUPPLEMENTAL DISTRIBUTORS OR THE SELLER BE LIABLE FOR CONSEQUENTIAL SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT ALBAUGH INC its Supplemental Distributors and the Seller offer this product and the Buyer accepts it subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative of ALBAUGH INC

No employee or agent of ALBAUGH INC its Supplemental Distributor or the Seller is authorized to vary or exceed the terms of this Warranty in any other manner

Folex® is a registered trademark of Bayer CropScience
Prep™ is a trademark of Bayer CropScience
Banvel® Clarity® Frontier® Guardsman® Marksman® Prowl® Pursuit® Pursuit® Plus Scepter® and Squadron® are registered trademarks of BASF Corporation
DEF® and Sencor® are registered trademarks of Bayer Corporation
Broadstrike® Goal® Surflan® Surpass® and TopNotch® are registered trademarks of Dow AgroSciences LLC
Bladex® Canopy® Extrazine® Gemini® Krovar® Lexone® and Preview® are registered trademarks of E I duPont de Nemours and Company
Command® is a registered trademark of FMC Corporation
Bullet® Harness® Lariat® Lasso® Micro Tech® Partner® Permit® and Roundup Ready® are registered trademarks of Monsanto Co
Sim Trol is a trademark of Oxon Italia Company
Bicep® Dual® Fusion® Princep® Solicam® and Turbo® are registered trademarks of Syngenta Crop Protection Inc
Devrinol® is a registered trademark of United Phosphorous Inc