

Accepted label stamp is on page 3.

ROUNDUP® WSD
Water Soluble Dry
Herbicide by Monsanto

Complete Directions for Use

502
~~1993~~

EPA Reg. No. 524-~~427~~

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

®Roundup is a registered trademark of Monsanto Company

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Read each of these sections of this label for essential product performance information.

USE THESE CONVENIENT SECTION MARKERS.

GENERAL INFORMATION

MIXING, ADDITIVES, AND APPLICATION INSTRUCTIONS

WEEDS CONTROLLED

NONCROP USES

CROPPING SYSTEMS

CONSERVATION, MINIMUM AND NO-TILL SYSTEMS

TREE AND VINE CROPS

Read the entire label before using this product.

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

REFORMULATION IS PROHIBITED. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

LIMIT OF WARRANTY AND LIABILITY

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

(INDEX PAGES)
PRECAUTIONARY STATEMENTS

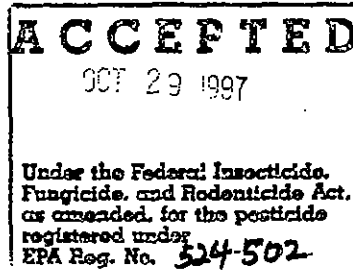
Hazards to
Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

HARMFUL IF SWALLOWED OR INHALED.
MAY CAUSE EYE IRRITATION.

Avoid contact with skin, eyes or clothing.
Avoid breathing dust.



Personal Protective Equipment:

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

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

User Safety Recommendation:

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

FIRST AID: IF IN EYES, immediately flush with plenty of water. Get medical attention.

IF ON SKIN, immediately flush with plenty of water. Remove material from skin and clothing.

IF INHALED, remove individual to fresh air. Seek medical attention if breathing difficulty develops.

IF SWALLOWED, remove visible granules from mouth and rinse mouth with water. Offer a glass of water or milk, induce vomiting immediately as directed by medical personnel. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Get medical attention.

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

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 disposing of equipment washwaters.

Physical or Chemical Hazards

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

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

ACTIVE INGREDIENT:

* Glyphosate, N-(phosphonomethyl)glycine, in the form of its monoammonium salt..... 95.285.96%

INERT INGREDIENTS:..... 4.86.34%
100.00%

* Equivalent to 86.585% of the acid, glyphosate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exception 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 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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of ~~12~~4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, waterproof gloves, and shoes plus socks.

6 7 99

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.

For more product information, call toll-free 1-800-323-1421.

Storage and Disposal

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

See container label for STORAGE AND DISPOSAL instructions.

GENERAL INFORMATION

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

This product, a water soluble granule, mixes readily with water to be applied as a foliar spray for the control or destruction of most herbaceous plants. It may be applied through most standard industrial or field-type sprayers after dilution and thorough

mixing with water in accordance with label instructions.

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 visual effects of control. 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.

Unless otherwise specified on this label, delay application until vegetation has emerged and reached the stages described for control of such vegetation under the "Weeds Controlled" section of this label. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the herbicide and will continue to grow. For this reason, best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity.

Always use the higher rate of this product per acre within the recommended range when (1) weed growth is heavy or dense, or (2) weeds are growing in an undisturbed (noncultivated) area.

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

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.

Rainfall or irrigation occurring within 6 hours after application may reduce effectiveness. Heavy rainfall or irrigation within 2 hours after application may wash the chemical off the foliage and a repeat treatment may be required.

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.

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

8 7 99

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

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.

ATTENTION

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

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants, or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow spray drift to occur. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

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

MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES. DO NOT APPLY WHEN WIND OR OTHER CONDITIONS FAVOR DRIFT. HAND GUN APPLICATIONS SHOULD BE PROPERLY DIRECTED TO AVOID SPRAYING DESIRABLE PLANTS. NOTE: REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS WATER FROM PONDS AND UNLINED DITCHES.

MIXING

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the recommended amount of this product (see the "Directions for Use" and "Weeds Controlled" sections of this label) near the end of the filling process and mix well. Remove hose from tank immediately after filling to avoid siphoning back into the carrier source. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

This product can be applied in clear nitrogen fertilizer carriers at carrier volumes of 10 to 60 gallons per acre. Before mixing with nitrogen fertilizers, pre-dissolve this product in water using the following ratios:

ROUNDUP® WSD	WATER
0.5 pound	1 to 2 pints
1.0 pound	1 to 2 quarts
10 pounds	2.5 to 5 gallons

SURFACTANT REQUIREMENT

When using this product, mix 4 or more quarts of a nonionic surfactant per 100 gallons of spray solution. Use a nonionic surfactant labeled for use with herbicides. The surfactant must contain 80 percent or more active ingredient.

TANK MIXTURES

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

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

1. Place a 20 to 35 mesh screen or wetting basket over filling port.
2. Through the screen, fill the sprayer tank one-half full with water and start agitation.
3. If a wettable powder is used, make a slurry with the water carrier, and add it SLOWLY through the screen into the tank. Continue agitation.

4. If a flowable formulation is used, premix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.
5. If an emulsifiable concentrate formulation is used, premix one part emulsifiable concentrate with two parts water. Add diluted mixture slowly through the screen into the tank. Continue agitation.
6. Continue filling the sprayer tank with water, remove the screen and add the required amount of this product near the end of the filling process.
7. Add nonionic surfactant to the spray tank before completing the filling process.
8. Add individual formulations to the spray tank as follows: wettable powder, flowable, emulsifiable concentrate, drift control additive, water soluble liquid, and water soluble granule followed by surfactant.

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 bottom of tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. For best results with conventional ground applications equipment, use flat fan nozzles.

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

ADDITIVES

SURFACTANTS

When using this product, mix 4 or more quarts of a nonionic surfactant per 100 gallons of spray solution. Use a nonionic surfactant labeled for use with herbicides. The surfactant must contain 80 percent or more active ingredient. Read and carefully observe surfactant cautionary statements and other information appearing on the surfactant label.

AMMONIUM SULFATE

11 8 99

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, 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. Do not use herbicide rates lower than recommended in this label.

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.

**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

Broadcast Spray

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

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

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

Selective Equipment -- Recirculating sprayers, shielded sprayers and wiper applicators.

See the appropriate part of this section for specific instructions and rates of application.

■ **AERIAL EQUIPMENT** ■

Use the recommended rates of this herbicide in 3 to 15 gallons of water per acre unless otherwise specified on this label. See the "Weeds Controlled" section of this label for specific rates. Unless otherwise specified, do not exceed 14 ounces per acre. **Aerial applications of this product may be made in annual**

cropping conventional tillage systems, fallow and reduced tillage systems, preharvest, silvicultural sites, and rights-of-way. Refer to the individual use area sections of this label for recommended volumes and application rates. FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS.

Avoid direct application to any body of water.

AVOID DRIFT--DO NOT APPLY DURING INVERSION CONDITIONS, WHEN WINDS ARE GUSTY, OR UNDER ANY OTHER CONDITION WHICH FAVORS DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

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

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

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. 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.

This product plus Oust, Banvel or 2,4-D tank mixtures may not be applied by air in California.

■ BROADCAST EQUIPMENT ■

For control of annual or perennial weeds listed on this label using broadcast equipment -- Use the recommended rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified on this label. See the "Weeds Controlled" section of this label for specific rates. As density of weeds increases, spray volume should be increased within the recommended range to ensure complete coverage. Carefully select proper nozzle to avoid spraying a fine mist. For best results with

14 7 99

ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

■ **CONTROLLED DROPLET APPLICATION (CDA)** ■

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

For the control of labeled annual weeds with hand-held CDA units, apply a mixture of 10.5 ounces of this product per each gallon of spray solution at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 MPH (14 ounces per acre). For the control of labeled perennial weeds, apply a mixture of 10.5 to 21 ounces of this product per each gallon of spray solution at a flow rate of 2 fluid ounces per minute and a walking speed of 0.75 MPH (28 to 56 ounces 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.

■ **HAND-HELD and HIGH-VOLUME EQUIPMENT** ■

Use coarse sprays only.

Mix this product in clean water and apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff.

For control of annual weeds listed on this label, apply a mixture of 0.3 ounces of this product per each gallon of spray solution to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds. Allow three or more days before tillage or mowing.

For annual weeds over 6 inches tall, or unless otherwise specified, use a mixture of 0.6 ounces of this product per each gallon of spray solution. For best results, use a mixture of 1.1 ounces of this product per each gallon of spray solution on harder-to-control perennials, such as bermudagrass, dock, field

bindweed, hemp dogbane, milkweed and Canada thistle.

When using application methods which result in less than complete coverage, use a mixture of 3 ounces of this product per each gallon of spray solution for annual and perennial weeds, and 3 to 6 ounces per each gallon of spray solution for woody brush and trees.

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

SELECTIVE EQUIPMENT

This product may be applied through a recirculating spray system, a shielded applicator, or a wiper applicator after dilution and thorough mixing with water to listed weeds growing in any noncrop site specified on this label and only when specifically recommended in cropping systems.

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

A shielded applicator directs the herbicide solution onto weeds while shielding desirable vegetation from the herbicide.

A wiper applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution.

AVOID CONTACT WITH DESIRABLE VEGETATION.

Contact of the herbicide solution with the desirable vegetation may result in damage or destruction. Applicators used above desired vegetation should be adjusted so that the lowest spray stream or wiper contact point is at least two 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 APPLICATORS

When applied as directed under conditions described for shielded applicators, this product will control those weeds listed in the "Weeds Controlled" section of this label.

Use the following equation to convert from a broadcast rate per acre to a band rate per acre.

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Herbicide Broadcast RATE per acre} = \text{Herbicide Band RATE per acre}$$

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast VOLUME of solution per acre} = \text{Band VOLUME of solution per acre}$$

Use nozzles that provide uniform coverage within the treated area. Keep shields on shielded sprayers adjusted to protect desirable vegetation. EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT WITH DESIRABLE VEGETATION.

For specific rates of application and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

WIPER APPLICATORS

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

Avoid leakage or dripping onto desirable vegetation. Adjust

height of applicator to insure 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 one-day period, as reduced activity may result from use of leftover solutions. Clean wiper parts immediately after using this product by thoroughly flushing with water.

For Rope or Sponge Wick Applicators -- Mix 3.5 pounds of this product plus 1 quart nonionic surfactant in 2 gallons of water.

For Porous-Plastic Applicators -- Mix 3.5 to 8 pounds of this product plus 1 quart nonionic surfactant in 2 gallons of water. Dissolve this product in water before filling the wiper applicator.

When applied as recommended under the conditions described for "Wiper Applicators", this product CONTROLS the following weeds:

ANNUAL GRASSES

Corn

Zea mays

Panicum, Texas

Panicum texanum

Rye, common

Secale cereale

Shattercane

Sorghum bicolor

ANNUAL BROADLEAVES

Sicklepod

Cassia obtusifolia

Spanishneedles

Bidens bipinnata

Starbur, bristly

Acanthospermum hispidum

When applied as recommended under the conditions described for

"Wiper Applicators", this product SUPPRESSES the following weeds:

ANNUAL BROADLEAVES

Beggarweed, Florida
Desmodium tortuosum

Dogfennel
Eupatorium capilliflorum

Pigweed, redroot
Amaranthus retroflexus

Ragweed, common
Ambrosia artemisiifolia

Ragweed, giant
Ambrosia trifida

Sunflower
Helianthus annuus

Thistle, musk
Carduus nutans

Velvetleaf
Abutilon theophrasti

PERENNIAL GRASSES

Bermudagrass
Cynodon dactylon

Guineagrass
Panicum maximum

Johnsongrass
Sorghum halepense

Smutgrass
Sporobolus poiretii

Vaseygrass
Paspalum urvillei

PERENNIAL BROADLEAVES

Dogbane, hemp
Apocynum cannabinum

19 7 99

Milkweed

Asclepias syriaca

Nightshade, silverleaf

Solanum elaeagnifolium

Thistle, Canada

Cirsium arvense

WEEDS CONTROLLED

This herbicide controls many annual and perennial grasses and broadleaf weeds.

ANNUAL WEEDS

- Apply to actively growing grass and broadleaf weeds.
- Allow at least 3 days after treatment before tillage.
- For maximum agronomic benefit, apply when weeds are 6 inches or less in height.
- To prevent seed production, applications should be made prior to seedhead formation.
- This product does not provide residual control; therefore, delay application until maximum weed emergence. Repeat treatments may be necessary to control later germinating weeds.

**LOW-VOLUME BROADCAST APPLICATION
(LOW-RATE TECHNOLOGY)**

When applied as directed under the conditions described, this product will control the weeds listed below when:

Water carrier volumes of 3 to 10 gallons per acre for ground applications and 3 to 5 gallons per acre for aerial applications are recommended. (See "Aerial Equipment" in the "Application and Equipment Techniques" section of this label for approved sites.)

NOTE

- 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 on annual weeds. The improvement

Roundup WSD RUPWSD97.doc

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{Roundup WSD 93, Sec. A1}

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20 7 99

in performance may be apparent where environmental stress is a concern. Refer to the "Mixing, Additives and Application Instructions" section of this label.

- 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.
 - Refer to the "Tank Mixtures" portion of this section for control of additional broadleaf weeds.
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WEED SPECIES	MAXIMUM HEIGHT/LENGTH	RATE PER ACRE**
Foxtail <i>Setaria spp.</i>	12"	3.5 oz.
Barnyardgrass <i>Echinochloa crus-galli</i>	6" (0 to 4" 4 to 6"	5 oz. 7 oz. ¹) 10.5 oz. ¹)
Bluegrass, annual <i>Poa annua</i>		
Brome, downy** <i>Bromus tectorum</i>		
Mustard, blue <i>Chorispora tenella</i>		
Mustard, tansy <i>Descurainia pinnata</i>		
Mustard, tumble <i>Sisymbrium altissimum</i>		
Mustard, wild <i>Sinapis arvensis</i>		
Spurry, umbrella <i>Holosteum umbellatum</i>		
Barley <i>Hordeum vulgare.</i>	12"	
Rye <i>Secale cereale</i>		
Sandbur, field <i>Cenchrus spp.</i>		
Shattercane <i>Sorghum bicolor</i>		
Stinkgrass <i>Eragrostis cilianensis</i>		

Wheat <i>Triticum aestivum</i>	18"	
Morningglory <i>Ipomoea spp.</i>	2"	7 oz.
Sicklepod <i>Cassia obtusifolia</i>		
Bluegrass, bulbous <i>Poa bulbosa</i>	6"	
Cheat <i>Bromus secalinus</i>		
Chickweed, common <i>Stellaria media</i>		
Chickweed, mouseear <i>Cerastium vulgatum</i>		
Corn <i>Zea mays</i>		
Goatgrass, jointed <i>Aegilops cylindrica</i>		
Groundsel, common <i>Senecio vulgaris</i>		
Horseweed/Marestail <i>Conyza canadensis</i>		
Lambsquarters, common <i>Chenopodium album</i>		
Pennycress, field Fanweed <i>Thlaspi arvense</i>		
Rocket, London <i>Sisymbrium irio</i>		
Ryegrass, Italian <i>Lolium multiflorum</i>		

Roundup WSD RUPWSD97.doc

(8/24/92)

~~(Roundup WSD 93, Sec. A1)~~

Shepherdspurse <i>Capsella bursa-pastoris</i>		
Spurge, annual <i>Euphorbia</i> spp.		
Buttercup <i>Ranunculus</i> spp.	12"	
Cocklebur <i>Xanthium strumarium</i>		
Crabgrass <i>Digitaria</i> spp.		
Dwarfdandelion <i>Krigia cespitosa</i>		
Falseflax, smallseed <i>Camelina microcarpa</i>		
Foxtail, Carolina <i>Alopecurus carolinianus</i>		
Johnsongrass, seedling <i>Sorghum halepense</i>		
Oats, wild <i>Avena fatua</i>		
Panicum, fall <i>Panicum dichotomiflorum</i>		
Panicum, Texas <i>Panicum texanum</i>		
Pigweed, redroot <i>Amaranthus retroflexus</i>		
Pigweed, smooth <i>Amaranthus hybridus</i>		
Witchgrass <i>Panicum capillare</i>		
Sicklepod <i>Cassia obtusifolia</i>	3 to 4"	10.5 oz.

Roundup WSD RUPWSD97_695

~~(Roundup WSD 93, Sec. A1)~~

(8/24/92)

Signalgrass, broadleaf <i>Brachiaria platyphylla</i>	4"	
Horseweed/Marestail <i>Conyza canadensis</i>	7 to 12"	
Lambsquarters, common <i>Chenopodium album</i>		
Spurge, annual <i>Euphorbia spp.</i>		
Rice, red <i>Oryza sativa</i>	4"	14 oz.
Teaweed <i>Sida spinosa</i>		
Sprangletop <i>Leptochloa spp.</i>	6"	
Geranium, Carolina <i>Geranium carolinianum</i>	12"	
Goosegrass <i>Eleusine indica</i>		
Primrose, cutleaf evening <i>Oenothera laciniata</i>		
Pusley, Florida <i>Richardia scabra</i>		
Sicklepod <i>Cassia obtusifolia</i>	5 to 12"	
Spanishneedles <i>Bidens bipinnata</i>		
Filaree <i>Erodium spp.</i>	12"	21 oz.
Sprangletop <i>Leptochloa spp.</i>		

¹Use these rates to control barnyardgrass in Alabama, Arkansas,

Mississippi, Missouri, Louisiana and Texas for preplant treatments.

~~* For those rates less than 14 ounces per acre, this product at rates up to 14 ounces per acre may be used where heavy weed densities exist.~~

~~** For control in no-till systems, use 7 ounces per acre.~~

* For control in no-till systems, use 7 ounces per acre.

** For those rates less than 14 ounces per acre, this product at rates up to 14 ounces per acre may be used where heavy weed densities exist.

■ TANK MIXTURES ■

■ Roundup® WSD plus BANVEL ■

■ Roundup WSD plus 2,4-D ■

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

These tank mixtures are recommended for use in fallow and reduced tillage areas only. Follow use directions as given in the "Low-Volume Broadcast Application" section.

This product plus Banvel or 2,4-D will control the annual grasses and broadleaf weeds previously listed for this product alone at the indicated heights (except 3.5 ounces per acre applications), plus the following broadleaf weeds. For those weeds previously listed at 3.5 ounces of this product alone per acre, use 5 ounces in these tank mixtures.

NOTE: 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 Banvel is applied within 45 days of planting. The addition of Banvel in a mixture with this product may provide short-term residual control of selected weed species.

Apply 5 to 7 ounces of this product plus 0.25 lb. a.i. of Banvel or 0.5 pound a.i. of 2,4-D per acre to control dense populations of the following annual broadleaf weeds when less than the height indicated:

Cocklebur (12")
Xanthium strumarium

Kochia* (6")
Kochia scoparia

Lambsquarters (12")
Chenopodium album

Lettuce, prickly (6")
Lactuca serriola

Marestail/Horseweed (6")
Conyza canadensis

Morningglory (6")
Ipomoea spp.

Pigweed, redroot (12")
Amaranthus retroflexus

Pigweed, smooth (12")
Amaranthus hybridus

Thistle, Russian (12")
Salsola kali

*Controlled with Banvel tank mixture only.

Apply 7 ounces of this product plus 0.5 pound a.i. of 2,4-D per acre to control the following annual broadleaf weeds when less than 6 inches in height.

Ragweed, common
Ambrosia artemisiifolia

Ragweed, giant
Ambrosia trifida

Smartweed, Pennsylvania
Polygonum pensylvanicum

Velvetleaf
Abutilon theophrasti

HIGH-VOLUME BROADCAST APPLICATIONS

When applied as directed under the conditions described, this

Roundup WSD RUPWSD97.doc

(8/24/92)

~~(Roundup WSD 93, Sec. A1)~~

product will control the weeds listed below when water carrier volumes are 10 to 40 gallons per acre for ground applications.

Use 14 ounces of this product per acre if weeds are less than 6 inches tall. If weeds are over 6 inches tall, use 21 ounces of this product per acre. If weeds have been mowed, grazed, or cut, allow adequate time for new growth to reach recommended stages prior to treatment. These rates will also provide control of weeds listed in the "Low-Volume Broadcast Application" section.

WEED SPECIES

Balsamapple*

Momordica charantia

Bassia, fivehook

Bassia hyssopifolia

Brome

Bromus spp.

Fiddleneck

Amsinckia spp.

Flaxleaf Fleabane

Conyza bonariensis

Fleabane

Erigeron spp.

Kochia

Kochia scoparia

Lettuce, prickly

Lactuca serriola

Panicum

Panicum spp.

Ragweed, common

Ambrosia artemisiifolia

Ragweed, giant

Ambrosia trifida

Smartweed, Pennsylvania

Polygonum pennsylvanicum

Sowthistle, annual

Sonchus oleraceus

Sunflower

Helianthus annuus

Thistle, Russian

Salsola kali

Velvetleaf

Abutilon theophrasti

*Apply with hand-held equipment only.

PERENNIAL WEEDS

Apply this product as follows to control or destroy most 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.

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 on perennial weeds. The improvement in performance may be apparent where environmental stress is a concern. Refer to the "Mixing, Additives and Application Instructions" section of this label.

When applied as recommended under the conditions described, this product WILL CONTROL the following PERENNIAL WEEDS:

Alfalfa

Medicago sativa

Alligatorweed*

Alternanthera philoxeroides

Artichoke, Jerusalem

Helianthus tuberosus

Bahiagrass

Paspalum notatum

Bentgrass

Agrostis spp.

Bermudagrass
Cynodon dactylon

Bermudagrass, water (knotgrass)
Paspalum distichum

Bindweed, field
Convolvulus arvensis

Bluegrass, Kentucky
Poa spp.

Blueweed, Texas
Helianthus ciliaris

Brackenfern
Pteridium aquilinum

Bromegrass, smooth
Bromus inermis

Bursage, woollyleaf
Franseria tomentosa

Canarygrass, reed
Phalaris arundinacea

Cattail
Typha spp.

Clover, red
Trifolium pratense

Clover, white
Trifolium repens

Cogongrass
Imperata cylindrica

Dallisgrass
Paspalum dilatatum

Dandelion
Taraxacum officinale

Dock, curly
Rumex crispus

Dogbane, hemp
Apocynum cannabinum

Fescues
Festuca spp.

Fescue, tall
Festuca arundinacea

Guineagrass
Panicum maximum

Horsenettle
Solanum carolinense

Horseradish
Armoracia rusticana

Johnsongrass
Sorghum halepense

Kikuyugrass
Pennisetum clandestinum

Knapweed
Centaurea repens

Lantana
Lantana camara

Milkweed
Asclepias spp.

Muhly, wirestem
Muhlenbergia frondosa

Mullein, common
Verbascum thapsus

Napiergrass
Pennisetum purpureum

Nightshade, silverleaf
Solanum elaeagnifolium

Nutsedge, purple, yellow
Cyperus rotundus
Cyperus esculentus

Orchardgrass

Dactylis glomerata

Pampasgrass
Cortaderia jubata

Paragrass
Brachiaria mutica

Phragmites*
Phragmites spp.

Quackgrass
Agropyron repens

Redvine*
Brunnichia ovata

Reed, giant
Arundo donax

Ryegrass, perennial
Lolium perenne

Smartweed, swamp
Polygonum coccineum

Spurge, leafy*
Euphorbia esula

Sweet potato, wild*
Ipomoea pandurata

Thistle, Canada
Cirsium arvense

Timothy
Phleum pratense

Torpedograss*
Panicum repens

Trumpet creeper*
Campsis radicans

Vaseygrass
Paspalum urvillei

Wheatgrass, western
Agropyron smithii

*Partial Control

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

See "Directions for Use" and "Mixing, Additives and Application Instructions" sections of this label for labeled uses and specific application instructions.

Alfalfa--Apply 14 ounces of this product per acre in 3 to 10 gallons of water per acre. Make application 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--Apply 3.5 pounds of this product per acre or apply a mixture of 0.9 ounce of this product per each gallon of spray solution with hand-held equipment to provide partial control. Apply when most of the plants are in bloom. Repeat applications will be required to maintain such control.

Bentgrass--For suppression in grass seed production areas. For ground applications only, apply 21 ounces of this product in 10 to 20 gallons of water per acre. Ensure entire crown area has resumed growth prior to a fall application. Bentgrass should be actively growing and 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. Failure to use tillage after treatment may result in unacceptable control.

Bermudagrass--For control, apply 4.4 pounds of this product per acre and, for partial control, apply 2.6 pounds per acre. Treat when bermudagrass is actively growing and seedheads are present. Retreatment may be necessary to maintain control. Allow 7 or more days after application before tillage.

Bermudagrass, water (knotgrass)--Apply 21 ounces of this product in 5 to 10 gallons of water per acre. Apply when water bermudagrass is actively growing and 12 to 18 inches in length. Allow 7 or more days before tilling, flushing or flooding the field.

Fall applications only--Apply 14 ounces 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 actively growing and 12 to 18 inches in length. Allow 7 or more days before tillage.

Bindweed, field--For control, apply 3.5 to 4.4 pounds of this

product per acre west of the Mississippi River and 2.6 to 3.5 pounds east of the Mississippi River. Apply when the weeds are actively growing and are at or beyond full bloom. Do not treat when the weeds are under drought stress as good soil moisture is necessary for active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage.

Also for control, apply 1.8 pounds of this product plus 0.5 pound a.i. of Banvel in 10 to 20 gallons of water per acre. At these rates, apply using ground application only.

The following tank mixtures with 2,4-D may be applied using aerial application equipment (except in California) in fallow and reduced tillage systems only.

For suppression on irrigated agricultural land apply 14 to 28 ounces 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 7 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. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length.

In California only, apply 14 ounces to 4.4 pounds 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 14 ounces of this product in 3 to 10 gallons of water per acre. Apply to actively growing bindweed that has reached a length of 12 inches or greater. Allow maximum weed emergence and runner growth. Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth. Allow 3 or more days after application before tillage.

Bluegrass, Kentucky/Bromegrass, smooth/Orchardgrass--Apply 28 ounces of this product in 10 to 40 gallons of water per acre when the grasses are actively growing and most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 14 to 21 ounces 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. Allow 7 or more days after application before tillage.

Orchardgrass (sods going to no-till corn)--Apply 14 to 21 ounces of this product per acre 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 three days following application before planting. A sequential application of atrazine will be necessary for optimum results.

Blueweed, Texas--Apply 3.5 to 4.4 pounds of this product per acre west of the Mississippi River and 2.6 to 3.5 pounds per acre east of the Mississippi River. Apply when the weeds are actively growing and are at or beyond full bloom. Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth. New leaf development indicates active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage.

Brackenfern--Apply 2.6 to 3.5 pounds of this product per acre as a broadcast spray or a mixture of 0.6 to 0.9 ounces of this product per each gallon of spray solution with hand-held equipment. Apply to fully expanded fronds which are at least 18 inches long.

Bursage, woollyleaf--For control, apply 1.8 pounds of this product plus 1 pint of Banvel per acre. For partial control, apply 14 ounces of this product plus 1 pint of Banvel per acre in 3 to 20 gallons of water 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/Timothy/Wheatgrass, western--Apply 1.8 to 2.6 pounds of this product per acre. For best results, apply to actively growing plants when most have reached the boot-to-head stage of growth. Allow 7 or more days after application before tillage.

Cogongrass--Apply 2.6 to 4.4 pounds of this product in 10 to 40 gallons of water per acre. Apply when cogongrass is at least 18 inches tall and actively growing in late summer or fall. Allow 7 or more days after application before tillage or mowing. Due to uneven stages of growth and the dense nature of vegetation preventing good spray coverage, repeat treatments may be necessary to maintain control.

Dandelion/Dock, curly--Apply 2.6 to 4.4 pounds of this product per acre when plants are actively growing and most have reached the early bud stage of growth. Allow 7 or more days after application before tillage.

Also for control, apply 7 ounces of this product plus 0.5 pound a.i. 2,4-D in 3 to 10 gallons of water per acre.

Dogbane, hemp--Apply 3.5 pounds of this product per acre. Apply when actively growing and when most weeds 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. Allow 7 or more days after application before tillage.

For suppression, apply 7 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, tall--Apply 2.6 pounds of this product in 10 to 40 gallons of water per acre to actively growing plants when most have reached boot-to-early seedhead stage of development.

Fall applications only--Apply 14 ounces of this product in 3 to 10 gallons of water per acre. Apply to fescue in the fall when actively growing and plants have 6 to 12 inches of new growth. Allow 7 or more days after application before tillage. A sequential application of 7 ounces per acre of this product plus nonionic surfactant will improve long-term control and control seedlings germinating after fall treatments or the following spring.

Guineagrass--Apply 2.6 pounds of this product per acre or use a mixture of 0.6 ounces per each gallon of spray solution with hand-held equipment. Apply to actively growing guineagrass when most have reached at least the 7-leaf stage of growth. Ensure thorough coverage when using hand-held equipment. Allow 7 or more days after application before tillage.

Johnsongrass/Ryegrass, perennial--Apply 14 to 42 ounces of this product per acre. In annual cropping systems apply 14 to 28 ounces of this product per acre. Apply 14 ounces of this product in 3 to 10 gallons of water per acre. Use 28 ounces of this product when applying 10 to 40 gallons of water per acre. In noncrop or areas where annual tillage (no-till) is not performed, apply 28 to 42 ounces of this product in 10 to 40 gallons of water per acre. For best results, apply to actively growing plants when most 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 14 ounce per acre rate.

For burndown of Johnsongrass, apply 7 ounces per acre 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 mixture of 0.6 ounces of this product per each gallon of spray solution with hand-held equipment when Johnsongrass is 12 to 18 inches in height. Coverage should be uniform and complete.

Kikuyugrass--Apply 1.8 to 2.6 pounds of this product per acre. Spray when most kikuyugrass is at least 8 inches in height (3 or 4-leaf stage of growth) and actively growing. Allow 3 or more days after application before tillage.

Knapweed/Horseradish--Apply 3.5 pounds of this product per acre. Apply when actively growing and when most weeds 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. Allow 7 or more days after application before tillage.

Lantana--Apply this product as a mixture of 0.6 to 0.7 ounce per each gallon of spray solution using hand-held equipment only. Apply to actively growing lantana at or beyond the bloom stage of growth. Use the higher application rate for plants that have reached the woody stage of growth. Allow 7 or more days after application before tillage.

Milkweed, common--Apply 2.6 pounds of this product per acre. Apply when actively growing and most of the milkweed has reached the late bud to flower stage of growth. Following small grain harvest or mowing, allow milkweed to regrow to a mature stage prior to treatment. Allow 7 or more days after application before tillage.

Muhly, wirestem--Apply 14 to 28 ounces of this product per acre. Use 14 ounces of this product in 3 to 10 gallons of water per acre. Use 28 ounces 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 and actively growing. 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. This product will not provide residual control of wirestem muhly from seeds which germinate after application of this product. Do not tank-mix with residual herbicides when using the 14 ounce per acre rate.

Nightshade, silverleaf--For control, apply 28 ounces of this product in 3 to 10 gallons of water per acre. Applications should

be made when at least 60 percent of the plants have berries. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage. Do not treat when weed is under drought stress as good soil moisture is necessary for active growth.

Nutsedge: purple, yellow--Apply 2.6 pounds of this product per acre as a broadcast spray, or apply a mixture of 0.6 to 1.1 ounces per each gallon of spray solution from hand-held equipment to control existing 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 of 14 to 28 ounces of this product in 3 to 10 gallons of water per acre will 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 suppression to partial control of existing plants, apply 7 to 28 ounces of this product per acre 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. Wait 7 days after treatment before tillage or mowing.

Pampasgrass--Apply this product as a mixture of 0.9 to 1.1 ounces per each gallon of spray solution using hand-held equipment. Apply to plants that are actively growing at or beyond the boot stage of growth. Thorough coverage is necessary for best control.

Phragmites--For partial control of phragmites in Florida and the counties of other states bordering the Gulf of Mexico, apply 4.4 pounds per acre as a broadcast spray or apply a mixture of 1.1 ounces per each gallon of spray solution from hand-held equipment. In other areas of the U.S., apply 2.6 pounds per acre as a broadcast spray or apply a mixture of 0.6 ounces per each gallon of spray solution from hand-held equipment 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.

Quackgrass--In Annual Cropping Systems, or in Pastures and Sods

Followed by Deep Tillage--Apply 14 to 28 ounces of this product per acre. For the 14 ounce rate, apply in 3 to 10 gallons of water per acre. For the 28 ounce rate, apply in 10 to 40 gallons of water per acre. Do not tank mix with residual herbicides when using the 14 ounce rate. Spray when quackgrass is 6 to 8 inches in height and actively growing. 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, for best results use a moldboard plow.

Quackgrass--Pasture or Sod or Other Noncrop Areas Where Deep Tillage is Not Planned Following Application--Apply 28 to 42 ounces in 10 to 40 gallons of water per acre. Spray when the quackgrass is greater than 8 inches tall and actively growing. Do not till between harvest and fall application or in fall or spring prior to spring application. Allow 3 or more days after application before tillage.

Redvine--For suppression, apply 10.5 ounces of this product per acre at each of two applications 7 to 14 days apart or a single application of 28 ounces per acre. Apply recommended rates in 5 to 10 gallons of water per acre. Apply to actively growing plants in late September or early October, which are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least one week before a killing frost.

Reed, giant--For control of giant reed, apply a mixture of 1.1 ounces of this product per each gallon of spray solution when plants are actively growing. Best results are obtained when applications are made in late summer to fall.

Smartweed, swamp--Apply 2.6 to 4.4 pounds of this product per acre when plants are actively growing and most have reached the early bud stage of growth. Allow 7 or more days after application before tillage.

Also for control, apply 7 ounces of this product plus 0.5 pounds active ingredient of 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall. Apply when plants are actively growing and most have reached the early bud stage of growth. Allow 7 or more days after application before tillage.

Spurge, leafy--For suppression, apply 7 ounces of this product plus 0.5 pound active ingredient 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall. Apply when plants are actively growing. If mowing has occurred prior to treatment, apply when most of the plants are 12 inches tall. Allow 7 or more days after application before tillage.

Sweet Potato, wild--Apply this product as a mixture of 1.1 ounces per each gallon of spray solution using hand-held equipment. Apply to actively growing weeds that are at or beyond the bloom stage of growth. Repeat applications will be required. Allow the plant to reach the recommended stage of growth before retreatment. Allow 7 or more days before tillage.

Thistle, Canada--Apply 28 to 42 ounces of this product per acre. Apply to actively growing thistles when most 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 of Canada thistle, apply 14 ounces per acre of this product, or 7 ounces of this product plus 0.5 pound a.i. 2,4-D per acre 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.

Torpedograss--Apply 3.5 to 4.4 pounds of this product per acre to provide partial control of torpedograss. Apply to actively growing torpedograss 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. Allow 7 or more days after application before tillage.

Trumpetcreeper--For control, apply 28 ounces of this product per acre in 5 to 10 gallons of water per acre. Apply to actively growing plants in late September or October, 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.

Other perennials listed on this label--Apply 2.6 to 4.4 pounds of this product per acre. Apply when actively growing and most have reached early head or early bud stage of growth. Allow 7 or more days after application before tillage.

WOODY BRUSH AND TREES

When applied as recommended under the conditions described, this product CONTROLS or PARTIALLY CONTROLS the following woody brush, plants and trees:

Alder

Alnus spp.

Ash*

Fraxinus spp.

Aspen, quaking

Populus tremuloides

Bearmat (Bearclover)

Chamaebatia foliolosa

Birch

Betula spp.

Blackberry

Rubus spp.

Broom:

French

Cytisus monspessulanus

Scotch

Cytisus scoparius

Buckwheat, California*

Eriogonum fasciculatum

Cascara*

Rhamnus purshiana

Catsclaw*

Acacia greggi

Ceanothus*

Ceanothus spp.

Chamise

Adenostoma fasciculatum

Cherry:

Bitter

Prunus emarginata

Black

Prunus serotina

Pin

Prunus pensylvanica

Coyote brush
Baccharis consanguinea

Creeper, Virginia*
Parthenocissus quinquefolia

Dewberry
Rubus trivialis

Elderberry
Sambucus spp.

Elm*
Ulmus spp.

Eucalyptus
Eucalyptus spp.

Hasardia*
Haplopappus squamosus

Hawthorn
Crataegus spp.

Hazel
Corylus spp.

Honeysuckle
Lonicera spp.

Kudzu
Pueraria lobata

Locust, black*
Robinia pseudoacacia

Madrone
Arbutus menziesii

Manzanita
Arctostaphylos spp.

Maple:

Red**
Acer rubrum

Sugar
Acer saccharum

Roundup WSD RUPWSD97.doc

~~(Roundup WSD 93, Sec. A1)~~

(6/24/92)

Vine*

Acer circinatum

Monkey Flower*

Mimulus guttatus

Oak:

Black*

Quercus velutina

Northern Pin

Quercus palustris

Post

Quercus stellata

Red

Quercus rubra

Southern Red

Quercus falcata

White*

Quercus alba

Persimmon*

Diospyros spp.

Poison Ivy

Rhus radicans

Poison Oak

Rhus toxicodendron

Poplar, yellow*

Liriodendron tulipifera

Raspberry

Rubus spp.

Rose, multiflora

Rosa multiflora

Russian-olive***

Elaeagnus angustifolia

Sage, black

Salvia mellifera

Sagebrush, California
Artemisia californica

Salmonberry
Rubus spectabilis

Sassafras
Sassafras aibidum

Sourwood
Oxydendrum arboreum

Sumac:
Poison*
Rhus vernix

Smooth*
Rhus glabra

Winged*
Rhus copallina

Sweetgum
Liquidambar styraciflua

Swordfern*
Polystichum munitum

Tallowtree, Chinese
Sapium sebiferum

Tan Oak
Lithocarpus densiflorus

Thimbleberry
Rubus parviflorus

Tobacco, tree*
Nicotiana glauca

Trumpet creeper
Campsis radicans

Willow
Salix spp.

- * Partial control
- ** See below for control or partial control instructions.
- *** This product is not registered in California for use on Russian-olive.

NOTE: If brush has been mowed or tilled or trees have been cut, do not treat until regrowth has reached the recommended stages of growth.

Apply this product when plants are actively growing and, unless otherwise directed, after full leaf expansion. 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 application is made in the spring to early summer when brush species are at high moisture content and are flowering.

Ensure thorough coverage when using hand-held equipment. Symptoms may not appear prior to frost or senescence with fall treatments.

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

See "Directions for Use", and "Mixing, Additives, and Application Instructions" sections of this label for labeled uses and specific application instructions.

Apply this product as follows to control or partially control the following woody brush and trees.

Alder/Dewberry/Honeysuckle/Post Oak/Raspberry--For control, apply 2.6 to 3.5 pounds per acre of this product as a broadcast spray or a mixture of 0.6 to 0.9 ounces per each gallon of spray solution with hand-held equipment.

Aspen, quaking/Cherry: bitter, black, pin/Hawthorn/Oak, southern red/Sweetgum/Trumpet creeper--For control, apply 1.8 to 2.6 pounds of this product per acre as a broadcast spray or a mixture of 0.6 to 0.9 ounces per each gallon of spray solution with hand-held equipment.

Birch/Elderberry/Hazel/Salmonberry/Thimbleberry--For control, apply 1.8 pounds per acre of this product as a broadcast spray or a mixture of 0.6 ounces per each gallon of spray solution with hand-held equipment.

Blackberry--For control, apply 2.6 to 3.5 pounds per acre of this

product as a broadcast spray, or a mixture of 0.6 to 0.9 ounces per each gallon of spray solution with hand-held equipment. Make application after plants have reached full leaf maturity. Best results are obtained when applications are made in late summer or fall. After berries have set or dropped in late fall, blackberry can be controlled by applying a mixture of 0.4 ounces per each gallon of spray solution with hand-held equipment. For control of blackberries after leaf drop and until killing frost or as long as stems are green, apply 2.6 to 3.5 pounds of this product in 10 to 40 gallons of water per acre.

Broom: French, Scotch--For control, apply a mixture of 0.9 to 1.1 ounces per each gallon of spray solution with hand-held equipment.

Buckwheat, California/Hasardia/Monkey Flower/Tobacco, tree--For partial control of these species, apply a mixture of 0.6 to 1.1 ounces per each gallon of spray solution as a foliar spray with hand-held equipment. Thorough coverage of foliage is necessary for best results.

Catsclaw--For partial control, apply a mixture of 0.6 to 0.9 ounces per each gallon of spray solution with hand-held equipment.

Coyote Brush--For control, apply a mixture of 0.9 to 1.1 ounces per each gallon of spray solution with hand-held equipment when at least 50 percent of the new leaves are fully developed.

Eucalyptus--For control of eucalyptus resprouts, apply a mixture of 1.1 ounces per each gallon of spray solution with hand-held equipment when resprouts are 6 to 12 feet tall. Ensure complete coverage. Apply when plants are growing actively. Avoid application to drought-stressed plants.

Kudzu--For control, apply 3.5 pounds of this product per acre as a broadcast spray or a mixture of 1.1 ounces per each gallon of spray solution with hand-held equipment. Repeat applications will be required to maintain control.

Madrone resprouts--For suppression or partial control, apply a mixture of 1.1 ounces per each gallon of spray solution to resprouts less than 3 to 6 feet tall. Best results are obtained with spring/early summer treatments.

Maple, red--For control, apply a mixture of 0.6 to 1.1 ounces per each gallon of spray solution with hand-held equipment when at least 50 percent of the new leaves are fully developed. For partial control, apply 1.8 to 3.5 pounds of this product per acre as a broadcast spray.

Maple, sugar/Oak, northern pin/Oak red--For control, apply a mixture of 0.6 to 0.9 ounces per each gallon of spray solution with hand-held equipment when at least 50 percent of the new leaves are fully developed.

Poison Ivy/Poison Oak--For control, apply 3.5 to 4.4 pounds of this product per acre as a broadcast spray or a mixture of 1.1 ounces per each gallon of spray solution with hand-held equipment. Repeat applications may be required to maintain control. Fall treatments must be applied before leaves lose green color.

Rose, multiflora--For control, apply 1.8 pounds of this product per acre as a broadcast spray or a mixture of 0.6 ounces per each gallon of spray solution with hand-held equipment. Treatments should be made prior to leaf deterioration by leaf-feeding insects.

Sage, black/Sagebrush, California/Chamise/Tallowtree, Chinese--For control of these species, apply a mixture of 0.6 ounces per each gallon of spray solution as a foliar spray with hand-held equipment. Thorough coverage of foliage is necessary for best results.

Tan oak resprouts--For suppression or partial control, apply a mixture of 1.1 ounces per each gallon of spray solution to resprouts less than 3 to 6 feet tall. Best results are obtained with fall applications.

Willow--For control, apply 2.6 pounds of this product per acre as a broadcast spray or a mixture of 0.6 ounces per each gallon of spray solution with hand-held equipment.

Other Woody Brush and Trees listed on this label--For partial control, apply 1.8 to 3.5 pounds of this product per acre as a broadcast spray or a mixture of 0.6 to 1.1 ounces per each gallon of spray solution with hand-held equipment.

NONCROP USES

See "General Information" and "Mixing, Additives and Application

Instructions" sections of this label for essential product performance information and the following "Noncrop" sections for specific recommended uses.

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

Repeat treatments may be necessary to control weeds regenerating from underground parts or seeds.

This product does not provide residual weed control. For subsequent 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.

**INDUSTRIAL, RECREATIONAL
AND PUBLIC AREAS**

When applied as directed for "Noncrop Uses", under conditions described, this product controls annual and perennial weeds listed on this label growing in areas such as airports, ditch banks, dry ditches, dry canals, fencerows, golf courses, highways, industrial plant sites, lumber yards, parking areas, parks, petroleum tank farms and pumping installations, pipelines, power and telephone rights-of-way, railroads, roadsides, schools, storage areas, utility substations, other public areas and similar industrial or noncrop areas.

For specific rates of application and instructions for control of various annual and perennial weeds and woody brush and trees, see the "Weeds Controlled" section of this label.

This product may be applied with recirculating sprayers, shielded applicators, or wiper applicators in any noncrop site specified on this label. See the "Selective Equipment" part of "Application Equipment and Techniques" section of this label for information on proper use and calibration of this equipment.

■ **TANK MIXTURES FOR
INDUSTRIAL SITES AND
FORESTRY SITE PREPARATIONS** ■

Roundup® WSD plus OUST™

Use on industrial sites including airports, industrial plants, lumberyards, petroleum tank farms, pumping stations, pipelines, railroads, roadsides, storage areas or other similar sites where bare ground is desired.

This tank mixture may also be used as a site preparation treatment for sites to be planted to jack pine, loblolly pine, red pine, slash pine and Virginia pine.

When applied as directed for "Noncrop Uses" under the conditions described, this product plus Oust provides control of annual weeds listed in the "Weeds Controlled" section of the label for this product and Oust, and control or partial control of the perennial weeds listed below.

Apply 14 to 28 ounces of this product with 2 to 4 ounces of Oust in 10 to 40 gallons of spray solution per acre as a broadcast spray to actively growing weeds.

This mixture may be applied by aerial equipment in site prep operations. When applied by air, use the recommended rates in 5 to 15 gallons of spray solution per acre.

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

For control of annual weeds, use the lower rates of these products.

For control of the listed perennial weeds, use the higher rates of both products. For partial control, use the lower rates.

Bahiagrass
Paspalum notatum

Bermudagrass*
Cynodon dactylon

Broomsedge
Andropogon virginicus

Dock, curly
Rumex crispus

Dogfennel
Eupatorium capilliflorum

Fescue, tall

Roundup WSD RUPWSD97.667

(3/24/92)

~~Roundup WSD 93, Sec. A1~~

49 7 99

Festuca arundinacea

Johnsongrass**
Sorghum halepense

Poorjoe**
Diodia teres

Quackgrass
Agropyron repens

Trumpetcreeper*
Campsis radicans

Vaseygrass
Paspalum urvillei

Vervain, blue
Verbena hastata

*Suppression at the higher rates only.

**Control at the lower rates.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

■ **TANK MIXTURES** ■
■ **NONCROP SITES** ■

When applied as a tank mixture, this product provides control of the emerged annual weeds and partial control of the emerged perennial weeds listed in this label. When applied as a tank mixture, the following residual herbicides will provide preemergence control of the weeds listed in the individual product labels.

- **Roundup® WSD plus DIURON** ■
- **Roundup WSD plus KROVAR™ I** ■
- **Roundup WSD plus KROVAR II** ■
- **Roundup WSD plus RONSTAR™ 50WP** ■
- **Roundup WSD plus SIMAZINE,** ■

Roundup WSD RUPWSD97.doc

(9/24/92)

~~(Roundup WSD 93, Sec. A1)~~

PRINCEP™ CALIBER™ 90

- Roundup WSD plus SIMAZINE 4L ■
- Roundup WSD plus SIMAZINE 80W ■
- Roundup WSD plus SURFLAN™ 75W ■
- Roundup WSD plus SURFLAN AS ■

See the "Mixing, Additives and Application Instructions" section of this label before preparing these tank mixtures.

Read and carefully observe the label claims, cautionary statements, recommended use rates and all other information on the labels of all products used in these tank mixtures. Use according to the most restrictive label directions for each product in the mixture.

CONTROL OF EMERGED WEEDS

Annual Weeds—Apply 14 ounces per acre of this product in these tank mixtures when weeds are less than 6 inches tall and 21 ounces per acre when weeds are more than 6 inches tall.

Perennial Weeds—For partial control of perennial weeds using these tank mixtures, apply 1.8 to 4.4 pounds per acre of this product. Follow the recommendations in the "Weeds Controlled" section of this label for stage of growth and rate of application for specific perennial weeds.

PREEMERGENCE WEED CONTROL

For preemergence weed control, refer to the individual product labels for specific noncrop sites, rates, carrier volumes and precautionary statements.

Mix only the quantity of spray solution which can be used during the same day. Do not allow these tank mixtures to stand overnight as this may result in reduced weed control.

APPLY THESE TANK MIXTURES THROUGH CONVENTIONAL BROADCAST EQUIPMENT ONLY.

FARMSTEAD WEED CONTROL

When applied as directed for "Noncrop Uses", under conditions described, this product controls undesirable vegetation listed on this label around farmstead building foundations, along and in fences, sheiterbelts, and for general nonselective farmstead weed control.

For specific rates of application and instructions for control of various annual and perennial weeds, see the 'Weeds Controlled' section of this label.

FARM DITCHES

This product will suppress perennial grasses along farm ditches. Apply this product at a rate of 2.5 to 3.5 ounces per acre. Use 3.5 ounces per acre when treating tall (coarse) fescue, fine fescue, orchardgrass, or quackgrass covers. For best suppression of these species, add ammonium sulfate at a rate of 1.7 pounds per 10 gallons of spray solution. Use 2.5 ounces per acre without ammonium sulfate when treating Kentucky bluegrass.

Apply treatments in 10 to 20 gallons of spray solution per acre to actively growing perennial grass covers. For best spray distribution and coverage, use flat fan nozzles.

Where broadleaf weed control or suppression is desired, tank mix this product with an appropriate, labeled broadleaf weed herbicide.

CONSERVATION RESERVE PROGRAM (CRP ACRES)

This product can be used to control undesirable vegetation when rotating out of CRP acres or to suppress competitive growth and seed production of undesirable vegetation in CRP acres.

For specific rates of application for various annual and perennial weeds, see the "Weeds Controlled" section of this label.

CRP applications may be made with wiper applicators or conventional spray equipment.

For selective applications with broadcast spray equipment, apply 5

to 7 ounces per acre of this product 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. Some stunting of CRP perennial grasses will occur if applications are made when plants are not dormant.

HABITAT MANAGEMENT

This product is recommended for the restoration and/or maintenance of native habitats and in wildlife management areas. Apply as recommended in the "NONCROP USES" section of this label.

Habitat Restoration and Maintenance - When applied as directed, exotic and other undesirable vegetation may be controlled in habitat management areas. Applications can be made to allow recovery of native plant species, prior to planting desirable native species, and for similar broadspectrum vegetation control requirements in habitat management areas. Spot treatments can be made to selectively remove unwanted plants for habitat maintenance and enhancement. For spot treatments, care should be exercised to keep spray off of desirable plants.

Wildlife Food Plots - This product may be used as a site preparation treatment prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after applying this product before tilling.

ORNAMENTALS AND CHRISTMAS TREES

THIS PRODUCT IS NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN ORNAMENTALS AND CHRISTMAS TREES.

NOTE: Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard, or other impermeable material.

When applied as instructed for the conditions described for "Noncrop Uses", this product controls undesirable vegetation listed on this label prior to planting, within and around

greenhouses and shadehouses, and as a postdirected spray around established ornamentals and Christmas trees.

For specific rates of application and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

Where repeat applications are necessary, do not exceed 9.4 pounds of this product per acre per year.

Site Preparation—Following preplant applications of this product, any ornamental or Christmas tree species may be planted. Precautions should be taken to protect nontarget plants during site preparation applications.

Greenhouse/Shadehouse Use—This product may be used to control weeds listed on this label which are growing in greenhouses. Desirable vegetation must not be present during application and air circulation fans must be turned off.

Postdirected Spray—Use as a postdirected spray around established woody ornamental species or Christmas trees such as those listed below. Care must be exercised to avoid contact of spray, drift or mist with foliage of or green bark of established ornamental species.

Arborvitae

Thuja spp.

Azalea

Rhododendron spp.

Boxwood

Buxus spp.

Crabapple

Malus spp.

Euonymus

Euonymus spp.

Fir

Abies spp.

Pseudotsuga spp.

Jojoba

Simmondsia chinensis

Hollies

Ilex spp.

Roundup WSD RUPWSDG 1992

(Roundup WSD 23, Sec. A1)

Lilac
Syringa spp.

Magnolia
Magnolia spp.

Maple
Acer spp.

Oak
Quercus spp.

Privet
Ligustrum spp.

Pine
Pinus spp.

Spruce
Picea spp.

Yew
Taxus spp.

SILVICULTURAL SITES and
RIGHTS-OF-WAY

NOTE: NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY
IN SILVICULTURAL NURSERIES .

When applied as directed for "Noncrop Uses" under conditions described, this product controls undesirable vegetation listed on this label. This product also suppresses or controls undesirable vegetation listed on this label when applied at recommended rates for release of established coniferous species listed on this label.

For specific rates of application and instructions for control of various brush, annual and perennial weeds, see the "Weeds Controlled" section of this label. For specific rates of application for release of listed coniferous species, see the "Conifer Release" part of this section of the label.

Where repeat applications are necessary, do not exceed 9.4 pounds of this product per acre per year.

Aerial Application—This product may be applied using aerial spray

equipment for silvicultural site preparation, conifer release and rights-of-way treatments. See the "Application Equipment and Techniques" part of the "Mixing, Additives and Application Instructions" section of this label for information on how to apply this product by air.

DO NOT APPLY THIS PRODUCT BY AIR TO RIGHTS-OF-WAY SITES IN THE STATE OF CALIFORNIA.

In order to reduce the aerial application drift hazard to aquatic sites*, to nontarget sites, or any site containing desirable vegetation, always maintain appropriate buffer zones. A buffer zone of the following minimum distances should be maintained:

- Helicopters using a Microfoil™ boom, a Thru-Valve™ boom (TVB-45), or equivalent drift control systems, should maintain at least a 50-foot buffer zone.
- When using other aerial equipment:
 1. Maintain at least a 75-foot buffer zone for applications using 28 ounces per acre or less of this product.
 2. Maintain at least a 125-foot buffer zone for applications using more than 28 ounces per acre of this product.
 3. Maintain at least a 400-foot buffer zone for applications on rights-of-way when applied from 75 feet or more above ground level.

These distances should be increased if conditions favoring drift exist.

- * Aquatic sites include all lakes, ponds, and streams used for significant domestic purposes or angling.

■ SITE PREPARATION ■

Following preplant applications of this product, any silvicultural species may be planted.

■ POSTDIRECTED SPRAY ■

In established silvicultural sites, use as a spray on the foliage of undesirable vegetation. Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of desirable species.

CONIFER RELEASE

For release, apply only where conifers have been established for more than one year. Vegetation should not be disturbed prior to treatment or until visual symptoms appear after treatment. Symptoms of treatment are slow to appear, especially in woody species treated in late fall. Injury may occur to conifers treated for release, especially where spray patterns overlap or the higher rates are applied or when applications are made during periods of active conifer growth.

Applications must be made after formation of final conifer resting buds in the fall or prior to initial bud swelling in spring. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Use the following rates for conifer release to control or partially control the weeds listed in the "Weeds Controlled" section of this label.

For release of the following conifer species:

Douglas fir
Pseudotsuga menziesii

Fir
Abies spp.

Hemlock
Tsuga spp.

Pines*
Pinus spp.

Spruce
Picea spp.

* Includes all species except eastern white pine, loblolly pine or slash pine.

Apply 21 to 28 ounces of this product per acre except in Washington and Oregon, west of the crest of the Cascade Mountains. For spring treatments west of the crest of the Cascade Mountains, apply 14 ounces of this product per acre before conifer bud swell for control of annual weeds. For fall treatments in Washington and Oregon, west of the crest of the Cascade Mountains, apply 14 to 21 ounces of this product per acre before any major leaf drop of deciduous species.

For release of western hemlock, apply 14 ounces of this product per acre.

For release of the following conifer species:

Loblolly pine

Pinus taeda

Eastern white pine,

Pinus strobus

Slash pine

Pinus elliottii

Late Season Application—Apply 21 to 28 ounces of this product in a minimum of 5 gallons of spray solution per acre during early autumn. Applications made prior to September 1 or when conditions are conducive to rapid growth of conifers will create the potential for increased injury in the form of tip and/or needle burn. Injury may decrease with later applications. Some autumn colors are acceptable at time of application. Apply prior to frost or leaf drop of undesirable plants. Applications made according to label directions will release loblolly pine, eastern white pine and slash pine by reducing competition from the following species:

Ash

Fraxinus spp.

Cherry:

Black

Prunus serotina

Pin

Prunus pensylvanica

Elm

Ulmus spp.

Hawthorn

Crataegus spp.

Locust, black

Robina pseudoacacia

Maple, red

Acer rubra

Oak:

Black

Quercus velutina

Post

Quercus stellata

Southern Red
Quercus falcata

White
Quercus alba

Persimmon
Diospyros spp.

Poplar, yellow
Liriodendron tulipifera

Sassafras
Sassafras albidum

Sourwood
Oxydendrum arboreum

Sumac:
Poison
Rhus vernix

Smooth
Rhus glabra

Winged
Rhus copallina

Sweetgum
Liquidambar styraciflua

Apply only to those sites where woody brush and trees listed in this label constitute the majority of the undesirable species.

■ Roundup WSD® plus Oust Tank Mixtures ■
for Conifer Release from Herbaceous Weeds

To release loblolly pines from herbaceous weeds, tank mixtures of this product with Oust will provide control of annual weeds listed in the "Weeds Controlled" section of this and the Oust label, and partial control of the perennial weeds listed below.

Apply 7 to 10.5 ounces of this product with 2 to 4 ounces of Oust in 10 to 30 gallons of spray solution per acre. Make application to actively growing weeds as a broadcast spray over the top of the young loblolly pines.

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

This tank mixture may be applied using aerial equipment. When applying by air, use the recommended rate in 5 to 15 gallons of spray solution per acre.

For control of annual weeds below 12 inches in height (or runner length on annual vines), use the lower rates of both products. Use the higher rates of both products when annual weeds are in more advanced stages of growth and approaching flower or seed formation.

Use the higher rates of both products for partial control of the following perennial weeds. Use the lower rates for suppression of growth.

Bahiagrass

Paspalum notatum

Broomsedge

Andropogon virginicus

Dock, curly

Rumex crispus

Dogfennel

Eupatorium capilliflorum

Fescue, tall

Festuca arundinacea

Johnsongrass*

Sorghum halepense

Poorjoe*

Diodia teres

Trumpetcreeper**

Campsis radicans

Vaseygrass

Paspalum urvillei

Vervain, blue

Verbena hastata

*Control at the higher rates.

**Suppression at the higher rates only.

Pine damage may occur or can be accentuated if treatment takes place when young trees are under stress from drought, flood water, insects or disease.

Read and observe the cautionary statements and all other information appearing on the label of all herbicides used.

NOTE TO USER

This product must not be used in areas where adverse impact on federally designated endangered/threatened plant or aquatic species is likely.

Prior to making applications, the user of this product must determine that no such species are located in or immediately adjacent to the area to be treated.

CUT STUMP TREATMENTS

Woody vegetation may be controlled by treating freshly cut stumps of trees and resprouts with this product. Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut vegetation close to the soil surface. Apply a mixture of 1.5 to 3.5 pounds of this product in 1 gallon of water 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.

When used according to directions for cut stump application, this product will CONTROL, PARTIALLY CONTROL or SUPPRESS many types of woody brush and tree species, some of which are listed below:

Alder
Alnus spp.

Eucalyptus
Eucalyptus spp.

Madrone
Arbutus menziesii

Oak
Quercus spp.

Reed, giant
Arundo donax

Saltcedar

- Tamarisk spp.
- Sweetgum
Liquidambar styraciflua
- Tan Oak
Lithocarpus densiflorus
- Willow
Salix spp.

■ INJECTION AND FRILL APPLICATIONS ■

Woody vegetation may be controlled by injection or frill application of this product. Apply this product using suitable equipment which must penetrate into the living tissue. Apply a mixture of 1.8 to 3.5 pounds of this product in 1 gallon of water either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow runoff to occur from frill or cut areas in species that exude sap freely after frills or cutting. In species such as this, make frill or cut at an oblique angle so as to produce a cupping effect and use undiluted material. For best results, application should be made during periods of active growth and after full leaf expansion.

This treatment WILL CONTROL the following woody species:

- Oak
Quercus spp.
- Poplar
Populus spp.
- Sweetgum
Liquidambar styraciflua
- Sycamore
Platanus occidentalis

This treatment WILL SUPPRESS the following woody species:

- Black gum
Nyssa sylvatica
- Dogwood

62 7 99

Cornus spp.

Hickory
Carya spp.

Maple, red
Acer rubrum

**TURFGRASSES AND GRASSES
FOR SEED PRODUCTION**

■ **PREPLANT AND RENOVATION** ■

When applied as directed for "Noncrop Uses", under conditions described, this product controls most existing vegetation prior to the planting or renovation of either turfgrasses or grass seed production areas.

For specific rates of application and instructions for control of various annual and perennial weeds, and woody brush and trees, see the "Weeds Controlled" section of this label.

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.

TURFGRASSES

Where existing vegetation is growing in a field or unmowed situation, apply this product to actively growing weeds at the stages of growth listed in the "Weeds Controlled" section of this label.

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.

63 7 99

Desirable turfgrasses may be planted following the above procedures.

GRASSES FOR SEED PRODUCTION

Apply this product to actively growing weeds at the stages of growth recommended in the "Weeds Controlled" section of this label prior to planting or renovation of turf or forage grass areas grown for seed production.

DO NOT feed or graze treated areas within 8 weeks after application.

■ **ANNUAL WEED CONTROL IN
DORMANT BERMUDAGRASS
AND BAHIAGRASS TURF** ■

When applied as directed for "Noncrop Uses" under the conditions described, this product will provide control or suppression of many winter annual weeds and tall fescue for effective release of dormant bermudagrass and bahiagrass turf. Refer to the rate table for this product alone under the "Release of Bermudagrass and Bahiagrass" section of this label for recommended rates and volumes on the species to be suppressed or controlled. Treat only when turf is dormant and prior to spring greenup. Spot treatments or broadcast applications of this product in excess of 7 ounces per acre may result in injury or delayed greenup in highly maintained turfgrass areas; i.e., golf courses, lawns, etc. DO NOT APPLY TANK MIXTURES of this product plus Oust in highly maintained turfgrass areas.

**RELEASE OF BERMUDAGRASS OR
BAHIAGRASS**

NOTE: Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated. Use tank mixtures of this product plus Oust only on railroads, highways, utility plant sites, or other right-of-way areas.

When applied as directed for "Noncrop Uses" under the conditions described, this product will provide control or suppression of many winter annual weeds and tall fescue for effective release of dormant bermudagrass or bahiagrass. This product may be tank-mixed with Oust as recommended for residual control. Make applications to dormant bermudagrass or bahiagrass. Tank mixtures of this product plus Oust may delay greenup. To avoid delays in greenup and minimize injury, do not add more than 1 ounce per acre of Oust

on bermudagrass or more than one-half ounce per acre on bahiagrass, or treat when these grasses are in a semidormant condition.

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 in or beyond the 4 to 6-leaf stage.

WEEDS CONTROLLED

Rate recommendations for control or suppression of winter annuals and tall fescue are listed below:

Apply the recommended rates of this product alone or as a tank mixture in 10 to 25 gallons of water per acre.

For the best recommendation for the mixture of weeds within your geographic areas, contact your Monsanto sales representative.

**WEEDS CONTROLLED OR SUPPRESSED
WITH ROUNDUP® WSD ALONE***

NOTE: C = Control
S = Suppression

WEED SPECIES	ROUNDUP® WSD OZ/ACRE					
	3.5	5	7	10.5	14	28
Barley, little <i>Hordeum pusillum</i>	S	C	C	C	C	C
Bedstraw, catchweed <i>Galium aparine</i>	S	C	C	C	C	C
Bluegrass, annual <i>Poa annua</i>	S	C	C	C	C	C
Chervil <i>Chaerophyllum tainturieri</i>	S	C	C	C	C	C
Chickweed, common <i>Stellaria media</i>	S	C	C	C	C	C
Clover, crimson	S	S	S	C	C	C

65 7 99

<i>Trifolium incarnatum</i>							
Clover, large hop	<i>Trifolium campestre</i>	.	S	S	C	C	C
Fescue, tall	<i>Festuca arundinaceae</i>	.	.	.	.	S	S
Geranium, Carolina	<i>Geranium carolinianum</i>	.	.	S	S	C	C
Henbit	<i>Lamium amplexicaule</i>	.	S	C	C	C	C
Ryegrass	Italian	.	.	S	C	C	C
	<i>Lolium multiflorum</i>						
Speedwell, corn	<i>Veronica arvensis</i>	S	C	C	C	C	C
Vetch, common	<i>Vicia sativa</i>	.	.	S	C	C	C

* These rates apply only to sites where an established competitive turf is present.

WEEDS CONTROLLED OR SUPPRESSED
WITH ROUNDUP® WSD plus OUST*

NOTE: C = Control
S = Suppression

ROUNDUP® WSD + OUST

WEED SPECIES	ROUNDUP® WSD (OZ/A)	OUST (OZ/A)						
		3.5	5	5	7	7	5	7
Barley, little <i>Hordeum pusillum</i>		C	C	C	C	C	C	C
Bedstraw, catchweed <i>Galium aparine</i>		C	C	C	C	C	C	C
Bluegrass, annual		S	C	C	C	C	C	C

Roundup WSD RUPWSD97.doc

(Roundup WSD 93, Sec. A1)

(8/24/92)

<i>Poa annua</i>							
Chervil <i>Chaerophyllum tainturieri</i>	C	C	C	C	C	C	C
Chickweed, common <i>Stellaria media</i>	S	C	C	C	C	C	C
Clover, crimson <i>Trifolium incarnatum</i>	S	S	S	S	C	C	C
Clover, large hop <i>Trifolium campestre</i>	.	.	S	S	S	C	C
Fescue, tall <i>Festuca arundinaceae</i>	.	.	.	.	S	S	
Geranium, Carolina <i>Geranium carolinianum</i>	.	S	S	C	C	C	C
Henbit <i>Lamium amplexicaule</i>	.	S	C	C	C	C	C
Ryegrass, Italian <i>Lolium multiflorum</i>	.	S	S	C	C	C	C
Speedwell, corn <i>Veronica arvensis</i>	S	C	C	C	C	C	C
Vetch, common <i>Vicia sativa</i>	C	C	C	C	C	C	C

These rates or mixtures of rates apply only to sites where an established competitive turf is present.

RELEASE OF ACTIVELY GROWING BERMUDAGRASS

When applied as directed, this product will aid in the release of bermudagrass by providing control of annual species listed in the "Weeds Controlled" section of this and the Oust label, and suppression or partial control of certain perennial weeds.

For control or suppression of those annual species listed on this label, use 7 to 21 ounces of this product as a broadcast spray in 10 to 25 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or length of runner in annual vines). Use the higher rate as weeds increase in size or as they approach flower or seedhead formation.

Use the higher rate of this product for partial control of the following perennial species. Use the lower rates for suppression of growth. For best results, see the "Weeds Controlled" section of this label for proper stage of growth.

Bahiagrass

Paspalum notatum

Bluestem, silver

Andropogon saccharoides

Fescue, tall

Festuca arundinacea

Johnsongrass**

Sorghum halepense

Trumpet creeper*

Campsis radicans

Vaseygrass

Paspalum urvillei

*Suppression at higher rates only.

**Control at the higher rates.

This product may be tank-mixed with Oust. If tank-mixed, use no more than 7 to 14 ounces per acre of this product with 1 to 2 ounces of Oust per acre.

Use the lower rates of both mixtures to control annual weeds below 6 inches in height (or runner length in annual vines that are listed in the "Weeds Controlled" section of this booklet and the Oust label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages.

Use the higher rates of this product to provide partial control of the following perennial weeds. Use the lower rates for suppression of growth.

Bahiagrass

Paspalum notatum

Bluestem, silver

Andropogon saccharoides

Broomsedge

Andropogon virginicus

Dock, curly

Rumex crispus

Dogfennel

Eupatorium capilliflorum

Fescue, tall

Festuca arundinacea

Johnsongrass*

Sorghum halepense

Poorjoe**

Diodia teres

Trumpet creeper*

Campsis radicans

Vaseygrass

Paspalum urvillei

Vervain, blue

Verbena hastata

*Suppression at higher rates only.

**Control at the higher rates.

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

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

**COOL SEASON TURF
GROWTH REGULATION (1)**

When applied as directed, this product will suppress growth and seedhead development of listed turf species in industrial sites.

This product is recommended for management of coarse turf on roadside rights-of-way or other industrial areas. Do not use on high-quality turf or other areas where some turf color changes cannot be tolerated. Slight turf discoloration may occur but turf will regreen and regrow under moist conditions as effects of this

product wear off.

Apply 1.8 to 2.5 ounces of this product per acre alone or in a recommended tank mixture. Spray volumes of 10 to 40 gallons per acre are recommended.

This product can be used for growth and seedhead suppression of:

**Tall Fescue
Smooth Brome**

For best results, apply this product in a recommended tank mixture to actively growing turfgrasses after greenup in the spring of the year. For suppression of seedheads, applications must be made before boot-to-seedhead stage of development. Applications made from seedhead emergence until maturity may result in turf discoloration or injury.

After mowing or removal of seedheads, this product in a recommended tank mixture may also be used to suppress the growth of certain turfgrasses. Allow turf to recover from stress caused by heat, drought, or mowing before making applications. Applications made to turf under stress may increase the potential for discoloration or injury.

ANNUAL GRASSES

For growth suppression of some annual grasses such as annual ryegrass, wild barley and wild oats, apply 1 to 1.8 ounces of this product in 10 to 40 gallons of spray solution per acre. Applications should be made when annual grasses are actively growing and before the seedheads are in the boot stage of development. Treatments made after seedhead emergence may cause injury to the desired grasses.

TANK MIXTURES

For the following tank mixtures, consult each product label for weeds controlled and the correct stage of application. Do not treat turf under stress.

Tank mixtures plus 2,4-D Amine

For additional weed control benefits, up to 1 pound a.i. per acre of 2,4-D amine may be added to the following tank mixtures. Consult the label for 2,4-D amine for weeds controlled.

TALL FESCUE

Roundup® WSD plus Telar™

For suppression of tall fescue growth and seedheads, and control or partial control of some annual weeds, apply this tank mixture after greenup and prior to boot-to-seedhead stage of development. Use up to one-half ounce of Telar per acre.

This tank mixture can also be applied after mowing or removal of tall fescue seedheads for turf growth suppression. Make only one of the above applications per growing season.

Roundup WSD plus Oust™

For suppression of tall fescue growth and seedheads, and control or partial control of some annual weeds, apply this tank mixture after greenup and prior to boot-to-seedhead stage of development. Use up to one-fourth ounce of Oust per acre.

Roundup WSD plus Escort™

This tank mixture can be applied after mowing or removal of tall fescue seedheads for turf growth suppression and control or partial control of some annual weeds. Use up to one-third ounce of Escort per acre.

NOTE: This product is not registered for use with Escort in California.

SMOOTH BROME

Roundup WSD plus Oust

For suppression of smooth brome growth and seedheads and control or partial control of some annual weeds, apply this tank mixture after greenup and prior to boot-to-seedhead stage of development. Use up to one-fourth ounce of Oust per acre.

(1) This product is not approved for cool season turf growth regulation in California.

**BAHIAGRASS SEEDHEAD AND
VEGETATIVE SUPPRESSION**

When applied as directed in the indicated noncrop areas (roadsides, airports, golf course roughs and plant sites), this product will provide significant inhibition of seedhead emergence and will suppress vegetative growth for a period of approximately 45 days with single applications and approximately 120 days with sequential applications.

Apply this product 1 to 2 weeks after full greenup of bahiagrass or after the bahiagrass has been mowed to a uniform height of 3 to 4 inches. Applications must be made prior to seedhead emergence. Apply 2.5 ounces per acre of this product in 10 to 25 gallons of water per acre.

Sequential applications of this product may be made at approximately 45 day intervals to extend the period of seedhead and vegetative growth suppression. For continued seedhead suppression, sequential applications must be made prior to seedhead emergence. Apply no more than 2 sequential applications per year. As a first sequential application, apply 1.8 ounces of this product per acre. A second sequential application of 1 to 1.8 ounces per acre may be made approximately 45 days after the last application.

A tank mixture of this product plus Oust **may be applied only on roadsides** for seedhead inhibition and vegetative suppression. Apply 2.5 ounces per acre of this product plus 0.25 ounce per acre of Oust 1 to 2 weeks following an initial spring mowing. When using this product plus Oust for suppression of bahiagrass, make only one application per year.

CROPPING SYSTEMS

When applied as directed for "Cropping Systems", under the conditions described, this product controls annual and perennial weeds listed on this label, prior to the emergence of direct seeded crops or prior to transplanting of crops listed on this label.

See "General Information" and "Mixing, Additives and Application Instructions" sections of this label for essential product performance information.

See the following "Cropping Systems" sections for specific recommended uses..

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

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Except as otherwise specified on this label, repeat treatments must be made before the crop emerges in accordance with the instructions of this label.

Except as otherwise specified in a crop section of this label, the combined total of all treatments must not exceed 7 pounds per acre of this product per year.

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

Do not harvest or feed treated vegetation for 8 weeks following application. Following spot treatment or selective equipment use, allow 14 days before grazing domestic livestock or harvesting forage grasses and legumes.

ROW CROPS

CORN (ALL)*
 COTTON*
 PEANUTS
 SORGHUM (MILO)*
 SOYBEANS*
 SUGARCANE*

CEREAL GRAINS

- BARLEY*
- BUCKWHEAT*
- MILLET (PEARL, PROSO)*
- OATS*
- RICE**
- RYE*
- TRITICALE*
- WHEAT (ALL)*
- WILD RICE*

CITRUS

- CALAMONDIN
- CHIRONJA
- CITRON
- GRAPEFRUIT
- KUMQUAT
- LEMON
- LIME
- MANDARIN ORANGE
- ORANGE (ALL)
- PUMMELO
- TANGELO
- TANGERINE
- TANGORS

TREE NUTS

- ALMOND
- BEECHNUT
- BRAZIL NUT
- BUTTERNUT
- CASHEW
- CHESTNUT
- CHINQUAPIN
- FILBERT
- HAZELNUT
- HICKORY NUT
- MACADAMIA
- PECAN
- PISTACHIO
- WALNUT (BLACK, ENGLISH)

VINE CROPS

- GRAPES
- KIWI FRUIT

TREE FRUITS

- APPLE
- APRICOTS
- CHERRY (SWEET, SOUR)
- LOQUAT
- NECTARINE
- OLIVE
- PEACH
- PEAR
- PLUM/PRUNE (ALL)
- QUINCE

VEGETABLES

- ARTICHOKE, JERUSALEM
- ASPARAGUS*
- BEANS (ALL)
- BEEF GREENS
- BEETS (RED, SUGAR)
- BROCCOLI (ALL)
- BRUSSELS SPROUTS
- CABBAGE (ALL)
- CABBAGE, CHINESE
- CANTALOUPE***
- CARROT
- CAULIFLOWER
- CASABA MELON***
- CELERY
- CHARD, SWISS
- CHICORY
- COLLARDS
- CRENSHAW MELON***
- CUCUMBER ***
- EGGPLANT***
- ENDIVE
- GARLIC***
- GOURDS***
- GROUND CHERRY***
- HONEYDEW MELON***
- HONEY BALL MELON***
- HORSERADISH
- KALE
- KOHLRABI
- LEEK
- LENTILS
- LETTUCE
- MANGO MELON***
- MELONS (ALL)***
- MUSKMELON***

MUSTARD GREENS
 OKRA
 ONION
 RAPE GREENS
 PARSLEY
 PARSNIPS
 PEAS (ALL)
 PEPPER (ALL)***
 PERSIAN MELON***
 POTATO (IRISH, SWEET)
 PUMPKIN***
 RADISH
 RHUBARB
 RUTABAGA
 SPINACH (ALL)
 SQUASH (SUMMER, WINTER)***
 TOMATILLO***
 TOMATO*** (+)
 TURNIP
 WATERCRESS***
 WATERMELON***
 YAMS

SMALL FRUITS AND BERRIES

BLACKBERRY
 BLUEBERRY
 BOYSENBERRY
 CRANBERRY
 CURRANT
 DEWBERRY
 ELDERBERRY
 GOOSEBERRY
 HUCKLEBERRY
 LOGANBERRY
 OLALLIEBERRY
 RASPBERRY (BLACK, RED)

FORAGE CROPS AND LEGUMES

ALFALFA*
 FORAGE GRASSES*
 FORAGE LEGUMES*

TROPICAL CROPS

ACEROLA
 ATEMOYA
 AVOCADO
 BANANA (PLANTAINS)

- BREADFRUIT
- CANISTEL
- CARAMBOLA
- CHERIMOYA
- COCOA BEANS
- COFFEE
- DATES
- FIGS
- GENIP
- GUAVA
- JABOTICABA
- JACKFRUIT
- LONGAN
- LYCHEE
- MANGO
- MAYHAW
- PAPAYA
- PASSION FRUIT
- PERSIMMONS
- PINEAPPLE****
- POMEGRANATE
- SAPODILLA
- SAPOTE (BLACK, MAMEY, WHITE)
- SOURSOP
- SUGAR APPLE
- TAMARIND
- TEA

- * Spot treatments may be applied in these crops.
- ** Do not treat rice fields or levees when the fields contain flood water.
- *** Apply only prior to planting. Allow at least 3 days between application and planting.
- **** Do not feed or graze treated pineapple forage following application.
- † Use is restricted to direct seeded crops only.

When applying this product prior to transplanting 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 1/2 inch natural rainfall or by applying water via a sprinkler irrigation system.

Spot Treatment (Only those crops with "*" can be spot treated.) Applications in growing crops must be made prior to heading of

small grains and milo, initial pod set in soybeans, silking of corn, or boll opening on cotton.

For forage grasses and forage legumes see "Spot Treatment" in the "Pastures" section of "Cropping Systems" in this label.

For dilution and rates of application using boom or hand-held equipment, see "Mixing, Additives and Application Instructions" and "Weeds Controlled" sections of this label.

NOTE: FOR FORAGE GRASSES AND FORAGE LEGUMES, NO MORE THAN ONE-TENTH OF ANY ACRE SHOULD BE TREATED AT ONE TIME. FOR ALL OTHER CROPS, 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.

Selective Equipment—This product may be applied through recirculating sprayers, shielded applicators, or wiper applicators in cotton and soybeans. Shielded and wiper applicators may also be used in tree crops and grapes. Wiper applicators may be used in rutabagas, forage grasses and forage legumes, including pasture sites and grain sorghum (milo).

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 the following time intervals between application and harvest:

Cotton, Soybeans	7 days
Apples, Atemoya, Avocado, Breadfruit, Canistel, Carambola, Cherry, Citrus, Grapes, Dates, Jaboticaba, Jackfruit, Longan, Lychee, Passion Fruit, Pear, Persimmons, Rutabagas, Sapodilla, Sapote, Soursop, Sugar Apple, Tamarind	14 days
Stone Fruit	17 days
Nut Crops.....	21 <u>3</u> days
Sorghum (milo)*	40 days

* Do not use roller applicators. Do not feed or graze treated milo fodder. Do not ensile treated vegetation.

ASPARAGUS

When applied as directed for "Cropping Systems" under the conditions described, this product controls weeds listed on this label in asparagus.

For specific rates of applications and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

Prior to Crop Emergence—Apply this product prior to crop emergence for the control of emerged labeled annual and perennial weeds. DO NOT APPLY WITHIN A WEEK BEFORE THE FIRST SPEARS EMERGE.

Spot Treatment—Apply this product 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.

Postharvest—Apply this product after the last harvest and all spears have been removed. If spears are allowed to regrow, delay application until ferns have developed. Delayed treatments should be applied as 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.

NOTE: Select and use recommended types of spray equipment for postemergence postharvest applications. A directed spray is any application where the spray pattern is aligned in such a way as to avoid direct contact of the spray with the crop. A shielded spray is any application where a physical barrier is positioned and maintained between the spray and the crop to prevent contact of spray with the crop.

BERRIES AND SMALL FRUITS

For cranberries, apply after fruit set and no later than 30 days before harvest.

For other berries, apply as a preplant broadcast application, or as a directed spray or wiper application post-planting.

Wiper applicators may be used in cranberries in accordance with instructions in this section.

See "General Information" and "Mixing, Additives and Application Instructions" sections of this label for essential product performance information.

See the "Selective Equipment" part of the "Application Equipment

and Techniques" section of this label for information on recommended use and calibration of this equipment.

Allow a minimum of 14 days between last application and harvest of small fruits and berries.

For Wick or other Wiper Applicators—Mix 3.5 pounds of this product in 4 gallons of water. Apply the solution to emerged weeds. Apply after cranberry fruit set and no later than 30 days before harvest.

In severe infestations, reduce equipment ground speed to ensure that adequate amounts of this product are wiped on the weeds. A second treatment in the opposite direction may be beneficial.

Do not permit herbicide solution to contact desirable vegetation, including green shoots, canes, or foliage.

FALLOW AND REDUCED
TILLAGE SYSTEMS

FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO SUPPLEMENTAL LABEL.

Use this product in fallow and reduced tillage systems for control of annual weeds prior to emergence of crops listed in this label. Refer to the "Weeds Controlled" section of this label for specific rates and instructions. This product may be applied using ground or aerial spray equipment. See the "Application Equipment and Techniques" section of this label for instructions.

- TANK MIXTURES ■
- ROUNDUP® WSD plus BANVEL ■
- ROUNDUP WSD plus 2,4-D ■
- ROUNDUP WSD plus GOAL™ ■

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

Applications of 2,4-D or Banvel must be made at least 7 days prior to planting corn. Refer to the 2,4-D product label for application restrictions prior to planting soybeans.

The addition of Banvel in a mixture with this product may provide short-term residual control of selected weed species. Some crop injury may occur if Banvel is applied within 45 days of

planting. Refer to the Barvel and 2,4-D labels for cropping restrictions and other use instructions.

Roundup® WSD plus Goal Tank Mixtures

This product alone or in tank mixtures with Goal will provide control of those weeds listed below.

Make applications when weeds are actively growing and at the recommended stages of growth. Avoid spraying when weeds are subject to moisture stress, when dust is on the foliage or when straw canopy covers the weeds.

Roundup® WSD 5 oz/acre

Wheat	18"~
Barley	12"
Bluegrass,	
annual	6"
Barnyardgrass	6"
Rye	6"

Roundup® WSD 7 oz/acre

Annual grasses at left plus:

Ryegrass,	
annual	6"
Chickweed	6"
Groundsel	6"
Marestail	6"
Rocket, London	6"
Shepherdspurse	6"
Crabgrass	12"
Johnsongrass,	
seedling	12"
Lambsquarters	12"
Oats, wild	12"
Pigweed, redroot	12"
Mustards	12"

Use 14 ounces of this product per acre where heavy weed densities exist.

Roundup® WSD 5 oz/acre + <u>GOAL** 2 to 4 fluid oz/acre</u>	Roundup® WSD 7 oz/acre + <u>GOAL** 2 to 4 fluid oz/acre</u>
Annual grasses above plus:	Annual weeds above plus:
Cheeseweed, common 3"	Cheeseweed, common 6"
Chickweed 3"	Groundsel 6"
Groundsel 3"	Chickweed 12"
Rocket, London 6"	Rocket, London 12"
Shepherdspurse 6"	Shepherdspurse 12"

* Maximum height or length in inches.

** Use the higher rate when weeds approach maximum recommended height or stands are dense.

Use 14 ounces of this product per acre in mixtures with 2 to 4 fluid ounces of Goal per acre where heavy weed densities exist.

These recommended tank mixtures may be applied using ground or aerial spray equipment. Refer to the "Weeds Controlled" section of this label for specific rates and instructions.

ECOFARMING SYSTEMS

The recommendations made in this section are not registered for use in California.

The Ecofarming System consists of the following rotation: winter wheat, corn/sorghum, ecofallow.

Use the following tank mixtures for control of emerged annual weeds before planting corn or sorghum in the Ecofarming System.

ROUNDUP® WSD at 7 to 9 ounces per acre
plus
2,4-D at 0.375 to 0.5 pound a.i. per acre
plus
ATRAZINE at 0.75 to 1 pound a.i. per acre
plus
Lasso® at 2.5 to 3 quarts per acre

The above tank mixture should be applied in 28-0-0 or 32-0-0

Roundup WSD RUPWSD97.doc

(Roundup WSD 93, Sec. A1)

liquid fertilizer carrier at 20 to 30 gallons per acre. The liquid fertilizer may be diluted with water to achieve the desired carrier volume.

WEEDS CONTROLLED - The following weeds, up to a maximum height of 4 inches, will be controlled:

Brome, downy

Bromus tectorum

Cheat

Bromus secalinus

Foxtail, green

Setaria viridis

Foxtail, yellow

Setaria lutescens

Kochia*

Kochia scoparia

Lettuce, prickly

Lactuca serriola

Pigweed, redroot

Amaranthus retroflexus

Thistle, Russian

Salsola kali

Wheat, volunteer

Triticum aestivum

*For improved control of kochia, add 4 fluid ounces per acre (0.125 pound a.i. per acre) of Banvel to the above tank mixture.

Risk of crop injury from 2,4-D or Banvel can be reduced by applying this treatment 7 to 14 days before planting.

Refer to the label booklet for Lasso herbicide for preemergence weed control achieved by this tank mixture.

Refer to the specific product labels for crop rotation restrictions and cautionary statements for all products used in these tank mixtures.

AID TO TILLAGE

This product, when used in conjunction with preplant tillage practices, will provide control of downy brome, cheat, volunteer wheat, tansy mustard and foxtail. Apply 3.5 ounces of this product in 3 to 10 gallons of water per acre. Make applications when weeds are actively growing and before they are 6 inches in height. Application must be followed by conventional tillage practices no later than 15 days after treatment and before regrowth occurs. Allow at least 1 day after application before tillage. Tank mixtures with residual herbicides may result in reduced performance.

PASTURES

Apply this product prior to planting forage grasses and legumes.

Pasture or Hay Crop Renovation—When applied as a broadcast spray, this product controls the annual and perennial weeds listed in this label prior to planting forage grasses or legumes. Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

Spot Treatment—When applied as a spot treatment as recommended, this product controls annual and perennial weeds listed in this label which are growing in pastures, forage grasses and forage legumes composed of bahiagrass, bermudagrass, bluegrass, brome, fescue, orchardgrass, ryegrass, timothy, wheatgrass, alfalfa or clover.

Wiper Application—When applied as directed, this product controls or suppresses the weeds listed under "Wiper Applicators" in the "Selective Equipment" section of this label.

For spot treatment and wiper application, apply in areas where the movement of domestic livestock can be controlled. No more than one-tenth of any acre should be treated at one time. Further applications may be made in the same area at 30 day intervals. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

SUGARCANE

When applied as directed for "Cropping Systems", under the conditions described, this product controls those emerged annual and perennial weeds listed on this label growing in or around sugarcane or in fields to be planted to sugarcane. This product will also control undesirable sugarcane.

NOTE: Where repeat treatments are necessary, do not exceed a total of 9.4 pounds of this product per acre per year. Do not apply to vegetation in or around ditches, canals or ponds containing water to be used for irrigation.

Broadcast Treatment—Apply this product in 10 to 40 gallons of water per acre on emerged weeds growing in fields to be planted to sugarcane.

For specific rates of application and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

For removal of last stubble or ratoon cane, apply 3.5 to 4.4 pounds of this product in 10 to 40 gallons of water per acre to new growth having at least 7 or more new leaves. Allow 7 or more days after application before tillage.

Spot Treatment in or Around Sugarcane Fields—For dilution and rates of application using hand-held equipment, see "Mixing, Additives and Application Instructions" and "Weeds Controlled" sections of this label.

For control of volunteer or diseased sugarcane, make a mixture of 0.6 ounce of this product per each gallon of spray solution and spray to wet the foliage of vegetation to be controlled.

NOTE: When spraying volunteer or diseased sugarcane, the plants should have at least 7 new leaves.

Avoid spray contact with healthy cane plants since severe damage or destruction may result.

Do not feed or graze treated sugarcane forage following application.

CONSERVATION TILLAGE, MINIMUM TILLAGE AND NO-TILL SYSTEMS
CORN AND SOYBEANS
Tank Mixtures

The recommendations made in this section are not registered for use in California.

When applied as recommended under the conditions described, the tank mixtures listed in this section control many emerged weeds, and give preemergence control of many annual weeds where corn or soybeans will be planted directly into a cover crop, established sod, or in previous crop residues.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures. Use according to the most restrictive label directions for each product in the mixture. For mixing instructions, see the "Mixing, Additives and Application Instructions" section of this label.

Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre before, during or after planting. Do not apply these mixtures after crop emergence.

The addition of 1 to 2 percent dry ammonium sulfate by weight may increase the performance of this product.

NOTE: When using these tank mixtures, do not exceed 3.5 pounds of this product per acre.

CORN

For residual control, this product may be tank-mixed with the following herbicides or combination of herbicides:

- | | |
|----------------|-----------|
| LASSO/ALACHLOR | ATRAZINE |
| MICRO-TECH® | PARTNER® |
| LARIAT | CYANAZINE |
| BULLET® | SIMAZINE |
| DUAL™ | PROWL™ |
| BICEP™ | |

For improved burndown, this product may be tank-mixed with 2,4-D or dicamba. Applications of 2,4-D or dicamba must be made at least 7 days prior to planting corn. See the "Weeds Controlled" section for specific rate information.

SOYBEANS

For residual control, this product may be tank-mixed with the following herbicides or combination of herbicides:

- | | |
|----------------|--------------|
| CANOPY™ | LOROXTM PLUS |
| COMMAND™ | PARTNER |
| DUAL™ | PURSUIT™ |
| GEMINI™ | PURSUIT™PLUS |
| LASSO/ALACHLOR | PREVIEW™ |
| MICRO-TECH ® | PROWL™ |
| SENCOR™ | TURBO™ |
| SQUADRON™ | SCEPTER™ |

LEXONE™

LINURON

For improved burndown, this product may be tank-mixed with the following herbicides:

- 2,4-DB
- 2,4-D*

* See the label for 2,4-D for intervals between application and planting.

CORN AND SOYBEANS

Annual Weeds--For difficult-to-control weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 14 ounces per acre in these tank mixtures. For other labeled annual weeds, apply 7 to 10.5 ounces of this product per acre when weeds are less than 6 inches tall, and 14 to 21 ounces when weeds are over 6 inches tall. For a complete list of annual weeds controlled, see the "Weeds Controlled" section of this label.

Perennial Weeds--At normal application times in minimum tillage systems, perennial weeds may not be at the proper stage of growth for control. See the "Weeds Controlled" section of this label for the proper stage of growth for perennial weeds.

Use of 1.8 to 3.5 pounds of this product per acre in the tank mixtures mentioned above, under these conditions provides top kill and reduces competition from many emerged perennial grass and broadleaf weeds. For emerged perennial weeds controlled, see the "Weeds Controlled" section of this label.

To obtain the desired stage of growth, it may be necessary to apply this product alone in the late summer or fall and then follow with a label-approved, seedling weed control program at planting.

USE OF THESE TANK MIXTURES FOR BERMUDAGRASS OR JOHNSONGRASS CONTROL IN MINIMUM TILLAGE SYSTEMS IS NOT RECOMMENDED. For bermudagrass control, follow the instructions under "Control of Perennial Weeds" section of this label and then use a label-approved, seedling weed-control program in a minimum tillage or conventional tillage system. For Johnsongrass control, follow instructions under "Control of Perennial Weeds" section of this label, and then use a label-approved seedling weed-control program with conventional tillage.

PREHARVEST APPLICATIONS

When applied as directed under the conditions described, this product controls annual and perennial weeds listed on this label prior to the harvest of cotton and soybeans.

SOYBEANS

Apply after pods have set and lost all green color. Allow a minimum of 7 days between application and harvest of soybeans. Care should be taken to avoid excessive seed shatter loss due to ground application equipment.

Do not feed or graze treated areas within 25 days after preharvest application.

DO NOT APPLY MORE THAN 5 1/4 POUNDS PER ACRE OF THIS PRODUCT FOR PREHARVEST APPLICATIONS.

DO NOT APPLY MORE THAN 14 OUNCES PER ACRE OF THIS PRODUCT BY AIR.

For specific rates and application instructions for control of various annual and perennial weeds, see the "WEEDS CONTROLLED" section of this label.

This product may be applied by both ground and aerial application equipment. See the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for instructions for ground and aerial applications.

NOTE: It is not recommended that soybeans grown for seed be treated because a reduction in germination or vigor will occur.

The use of this product for preharvest soybeans is not registered in California.

COTTON

Broadcast Applications--This product may be applied using either aerial or ground spray equipment. For ground applications with broadcast equipment, 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.

FOR AERIAL APPLICATIONS, REFER TO THE "APPLICATION EQUIPMENT AND TECHNIQUES" AND "AERIAL EQUIPMENT" SECTIONS OF THIS LABEL.

FOR AERIAL APPLICATIONS IN CALIFORNIA, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS.

DO NOT EXCEED A MAXIMUM RATE OF 14 OUNCES PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR.

Weed Control--For specific rates of application and instructions for control of various annual and perennial weeds for this product used alone or in the following tank mixtures, see the "Weeds Controlled" section of this label.

To control johnsongrass using multiple-directed or broadcast over-the-top spray equipment, apply 14 ounces of this product in 10 to 20 gallons of water per acre. Ensure complete coverage.

For partial control of field bindweed, apply 14 ounces of this product in 3 to 20 gallons of water per acre. Apply when bindweed is actively growing and 12 inches or greater in length. Reduced performance may result if bindweed is under drought stress.

TANK MIXTURES

- ROUNDUP® WSD plus DEF™ 6
- ROUNDUP WSD plus FOLEX™
- ROUNDUP WSD plus PREP™
- ROUNDUP WSD plus PREP plus DEF 6 or FOLEX

When applied as recommended under the conditions described, these tank mixtures control annual and perennial weeds listed on this label prior to the harvest of cotton. For application guidelines, precautions and userates, refer to the DEF 6, Folex and Prep labels.

This product when tank mixed with DEF 6 or Folex defoliants may provide enhancement of cotton leaf drop and regrowth inhibition.

Timing of Application--Apply this product or these tank mixtures for preharvest weed control after 60 percent of the cotton bolls have opened.

NOTE: DO NOT APPLY TO CROPS GROWN FOR SEED. Allow a minimum of 7 days between application and harvest. Do not feed or graze treated cotton forage or hay following preharvest applications.

TREE AND VINE CROPS

This product is recommended for weed control in established groves, vineyards, and orchards, or for site preparation prior to transplanting crops listed in this section. Applications may be made with boom equipment, CDA, shielded sprayers, hand-held and high-volume wands, lances, or orchard guns, or with wiper applicator equipment, except as directed in this section. See the "Application Equipment and Techniques" section of this label for specific information on use of equipment.

When applying this product, refer to the "Weeds Controlled" section of this label and to specific recommendations in this section for rates to be used.

NOTE

Repeat treatments may be necessary to control weeds originating from underground parts of untreated weeds or from seeds. This product does not provide residual weed control. For subsequent weed control, use repeated applications of this product. Do not apply more than 9.4 pounds of this product per acre per year.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT, OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT, OR OTHER PARTS OF TREES OR VINES. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

AVOID PAINTING OUT STUMPS WITH THIS PRODUCT AS INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR IN ADJACENT TREES.

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.

For specific rates of applications and instructions, see the "Weeds Controlled" section of this label, and to specific recommendations which follow.

MIDDLES MANAGEMENT

FOR ANNUAL WEEDS IN MIDDLES BETWEEN ROWS OF TREE AND VINE CROPS

For citrus crops treat uniformly between trees.

Roundup WSD RUPWSD97.gsc

18/21/92

(Roundup WSD 93, Sec. A1)

■ **ROUNDUP® WSD** ■
 ■ **ROUNDUP WSD plus GOAL™** ■

This product alone or in mixtures with Goal will control or suppress the annual weeds listed below.

Apply the recommended rates of this product, either alone or in mixtures with Goal in 3 to 10 gallons of water per acre. Apply when weeds are actively growing and less than 6 inches in height or diameter. If weeds are under drought stress, irrigate prior to application. Reduced control may occur if weeds have been mowed prior to application. Up to 21 ounces per acre of this product may be used to control weeds which have been mowed, are stressed, or are growing in dense populations.

WEED SPECIES	MAXIMUM HEIGHT/DIAMETER (INCHES)	RATE PER ACRE	
		ROUNDUP® WSD (OUNCES)	GOAL (FLUID OUNCES)
Barley <i>Hordeum vulgare</i>	6	3.5	--
Bluegrass, annual <i>Poa annua</i>			
Barnyardgrass <i>Echinochloa crus-galli</i>	6	5	--
Chickweed, common <i>Stellaria media</i>			
Red Maids <i>Galandrinia ciliata</i>			
Crabgrass <i>Digitaria spp.</i>	6	7	--
Fleabane, flaxleaf <i>Conyza bonariensis</i>			OR
Groundsel, common <i>Senecio vulgaris</i>		7 to 14	+ 4 to 16**
Junglerice <i>Echinochloa colonum</i>			
Lambsquarters, common <i>Chenopodium album</i>			
Pigweed, redroot <i>Amaranthus retroflexus</i>			
Rocket, London <i>Sisymbrium irio</i>			
Ryegrass, common			

Lolium multiflorum
 Shepherdspurse
Capsella bursa-pastoris
 Sowthistle, annual
Sonchus oleraceus

Cheeseweed, common 3 5 to 14 + 4 to 16
Malva spp.

Cheeseweed, common 6 7 to 14 + 4 to 16
Malva spp.

Filaree*
Erodium spp.

Horseweed/Marestail
Conyza canadensis

Nettle, stinging
Urtica dioica

Purselane, common*
Purpurella oleracea

* Suppression only.

**The mixture of this product plus Goal is recommended when weeds are stressed or growing in dense populations.

STRIPS

FOR ANNUAL AND PERENNIAL WEEDS IN STRIPS
 OF TREE AND VINE CROPS

■ **TANK MIXTURES WITH RESIDUAL HERBICIDES** ■

When applied as a tank mixture, this product provides control of the emerged annual weeds and control or suppression of emerged perennial weeds listed in this label. The following residual herbicides will provide preemergence control of those weeds listed in the individual product labels.

- **ROUNDUP® WSD plus GOAL™ 1-6E** ■
- **ROUNDUP WSD plus KARMEX™ DF** ■
- **ROUNDUP WSD plus KROVAR™ I** ■
- **ROUNDUP WSD plus KROVAR™ II** ■
- **ROUNDUP WSD plus SIMAZINE,
PRINCEP CALIBER 90** ■

- ROUNDUP WSD plus SIMAZINE 4L ■
- ROUNDUP WSD plus SIMAZINE 80W ■
- ROUNDUP WSD plus SOLICAM™ 80DF ■
- ROUNDUP WSD plus SURFLAN™ AS ■
- ROUNDUP WSD plus SURFLAN 75W ■
- ROUNDUP WSD plus SIMAZINE (80W, or 4L, or PRINCEP CALIBER 90) plus SURFLAN (AS or 75W) ■
- ROUNDUP WSD plus GOAL ~~(1.6E)~~ plus SURFLAN (AS or 75W) ■
- ROUNDUP WSD plus GOAL ~~(1.6E)~~ plus SIMAZINE (80W, or 4L, or PRINCEP CALIBER 90) ■
- ROUNDUP WSD plus GOAL ~~(1.6E)~~ plus SURFLAN (AS or 75W) plus SIMAZINE (80W, 4L, or PRINCEP CALIBER 90) ■

Do not apply these tank mixtures in Puerto Rico.

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

Read and carefully observe the label claims, cautionary statements, rates and all other information on the labels of all products.

RECOMMENDED RATES

Annual Weeds - Apply 14 ounces to 4.4 pounds per acre of this product in these tank mixtures. Use rates at the higher end of the recommended range when weeds are stressed, growing in dense populations or are greater than 12 inches tall.

Perennial Weeds - Apply 7 ounces to 4.4 pounds per acre of this product in these tank mixtures to control or suppress perennial weeds. Follow the recommendations in the "Weeds Controlled" section of this label for stage of growth and application rates

for specific perennial weeds.

■ **ROUNDUP WSD plus GOAL plus SIMAZINE/SURFLAN** ■

This product plus low rates of Goal in three-way or four-way mixtures with simazine and/or Surflan will provide postemergence control of the weeds listed below.

Refer to the individual simazine and Surflan labels for preemergence rates, weeds controlled, precautionary statements and other important information.

Apply these tank mixtures in 3 to 40 gallons of water.

Apply 14 ounces to 4.4 pounds per acre of this product plus 4 to 48 fluid ounces per acre of Goal plus labeled rates of simazine and/or Surflan to control the following weeds:

- Barley, wild
Hordeum leporinum
- Bluegrass, annual
Poa annua
- Cheeseweed, common
Malva spp.
- Chickweed, common
Stellaria media
- Filaree*
Erodium spp.
- Fleabane, flaxleaf
Conyza bonariensis
- Groundsel, common
Senecio vulgaris
- Horseweed/Marestail
Conyza canadensis
- Nettle, stinging
Urtica dioica
- Pineappleweed
Matricaria matricariodes
- Rocket, London
Sisymbrium irio
- Shepherdspurse
Capsella bursa-pastoris
- Sowthistle, annual
Sonchus oleraceus

*Use a minimum of 21 ounces of this product in these mixtures.

NOTE: This recommendation does not preclude the use of Goal in these mixtures at higher, labeled rates for preemergence weed control.

Roundup WSD RUPWSD97.doc

~~(Roundup WSD 93, Sec. A1)~~

(8/24/92)

■ PERENNIAL GRASS SUPPRESSION ■
ORCHARD FLOORS

When applied as directed, this product will suppress vegetative growth as indicated below.

Bahiagrass

This product will provide significant inhibition of seedhead emergence and will suppress vegetative growth for a period of approximately 45 days with a single application and approximately 120 days with sequential applications. Apply this product 1 to 2 weeks after full green-up or after mowing to a uniform height of 3 to 4 inches. Applications must be made prior to seedhead emergence. Apply 2.5 ounces of this product in 10 to 25 gallons of water per acre.

Sequential applications of this product may be made at approximately 45-day intervals to extend the period of seedhead and vegetative growth suppression. For continued seedhead suppression, sequential applications must be made prior to seedhead emergence. Apply no more than 2 sequential applications per year. As a first sequential application, apply 1.8 ounces of this product. A second sequential application of 1 to 1.8 ounces may be made approximately 45 days after the last application.

Bermudagrass

For burndown, apply 14 to 28 ounces of this product in 3 to 20 gallons of water per acre. Use 14 ounces of this product in 3 to 20 gallons of water per acre east of the Rocky Mountains. Use 14 to 28 ounces of this product in 3 to 10 gallons of water per acre west of the Rocky Mountains. 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.

Suppression only (east of the Rocky Mountains)—Apply 2.5 to 7 ounces of this product in 3 to 20 gallons of water per acre no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Rates of 2.5 to 4.5 ounces of this product should be used in shaded conditions or where a lesser degree of suppression is desired. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated.

Suppression only (west of the Rocky Mountains)-Apply 7 ounces of this product in 3 to 10 gallons of water per acre to bermudagrass up to 6 inches in height and no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated.

Cool Season Grass Covers

For suppression of tall fescue, fine fescue, orchardgrass and quackgrass, apply 3.5 ounces of this product in 10 to 20 gallons of water per acre. For best suppression, add ammonium sulfate to the spray solution at a rate of 2 percent by weight or 17 pounds per 100 gallons of spray solution.

For suppression of Kentucky bluegrass covers, apply 2.5 ounces of this product. Do not add ammonium sulfate.

For best results, mow cool-season grass covers in the spring to even their height and apply the recommended rate of this product 3 to 4 days after mowing. Avoid treating cool season grass covers under poor growing conditions, such as drought stress (drip irrigation), disease or insect damage.

**LOW VOLUME APPLICATION
(FLORIDA AND TEXAS)**

For burndown or control of the weeds listed, apply the recommended rates of this product in 3 to 30 gallons of water per acre. Where weed foliage is dense, use 10 to 30 gallons of water per acre.

Annual Weeds

Goatweed--Apply 1.8 to 2.6 pounds per acre of this product plus 17 pounds of ammonium sulfate per 100 gallons of water. Apply in 20 to 30 gallons of water per acre when plants are actively growing. Use 1.8 pounds per acre when plants are less than 8 inches tall and 2.6 pounds per acre when plants are greater than 8 inches. If goatweed is greater than 8 inches tall, the addition of Krovar II or Karmex may improve control. Use labeled rates for these residual products.

Read and carefully observe the label claims, cautionary statements, rates and all other information on the Krovar II and Karmex labels.

Perennial Weeds

Apply when weeds are actively growing and at the growth stages

listed in the "Perennial Weeds Controlled" section of this label. If perennial weeds are mowed, allow weeds to regrow to the recommended stage of growth.

S = Suppression
PC = Partial control

B = Burndown
C = Control

WEED SPECIES	ROUNDUP® WSD RATE PER ACRE			
	0.9lbs	1.8lbs	2.6lbs	4.4lbs
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

TREE CROPS

Citrus**:** calamondin, chironja, citron, grapefruit, kumquat, lemon, lime, mandarin, orange, pummelo, tangelo, tangerine, tangors.

Nuts:** almond, beechnut, Brazil nut, butternut, cashew, chestnuts, chinquapin, filbert, hazelnut, hickory nut, macadamia, pecan, pistachio, walnut.

Pome Fruit*: apple, loquat, mayhaw, pear, quince.

Stone Fruit:** apricots, cherries, nectarines, olives, peaches, plums/prunes.

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

For citron and olives, apply as a directed spray only.

Any application equipment listed in this section may be used in apricots, nectarines, peaches, and plums/prunes growing in Arizona, California, Colorado, Idaho, Kansas, Kentucky, New Jersey, North Dakota, Oklahoma, Oregon, Texas, Utah, and Washington, except for peaches grown in the states specified in the following paragraph. In all other states use wiper equipment only.

For PEACHES grown in Alabama, Arkansas, Florida, Georgia,

Louisiana, Mississippi, North Carolina, South Carolina, and Tennessee only, apply with a shielded boom sprayer or shielded wiper applicator which prevents any contact of this product with the foliage or bark of trees. Apply no later than 90 days after first bloom. Applications made after this time may result in severe damage. Remove suckers and low hanging limbs at least 10 days prior to application. Avoid applications near trees with recent pruning wounds or other mechanical injury. Apply only near trees which 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.

Tropical Fruit: acerola*, atemoya*, avocado*, banana (plantains)*~~****~~, breadfruit*, canistel*, carambola*, cherimoya*, cocoa bean*, coffee****, dates*, figs*, genip*, guava****, jaboticaba*, jackfruit*, longan*, lychee*, mango*, mayhaw*, papaya****, passion fruit*, persimmons*, pomegranate*, sapodilla*, sapote*, soursop*, sugar apple*, tamarind*, tea*. In coffee and banana, delay applications 3 months after transplanting to allow the new coffee or banana plant to become established.

NOTE:

- * Allow a minimum of 14 days between last application and harvest.
- ** Allow a minimum of ~~21~~ 31 days between last application and harvest of these crops.
- *** Allow a minimum of 17 days between last application and harvest.
- **** Allow a minimum of 28 days between last application and harvest.
- ***** Allow a minimum of 1 day between last application and harvest.

VINE CROPS

Kiwi Fruit

Grapes: Any variety of table, wine, or raisin grape may be treated with any equipment listed in this section.

Applications should not be made when green shoots, canes, or foliage are in the spray zone.

Allow a minimum of 14 days between last application and harvest.

In the northeast and Great Lakes regions, applications must be made prior to the end of bloom stage of grapes to avoid injury.

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™DEF is a trademark of ~~Mobay Chemical Company~~ Bayer.

™Microfoil is a trademark of Union Carbide Agricultural Products, Inc.

™Thru-Valve is a trademark of Waldrum Specialties, Inc.

This product is protected by
U.S. Patent No.
4,405,531.
Other patents pending.

99 of 99

No license granted under any
non-U.S. patent(s).

EPA Reg. No. 524-427 ~~.....~~ A 000.09/53

In case of an emergency involving this product,
Call Collect, day or night, (314) 694-4000.

©MONSANTO COMPANY ~~1993~~ 1997

MONSANTO COMPANY
~~AGRICULTURAL PRODUCTS~~
ST. LOUIS, MISSOURI 63167

Roundup WSD RUPWSD97.doc ~~.....~~ (2/24/92)

~~(Roundup WSD-93, Sec. 71)~~

9992

PM 25

524-502

10/29/97

page 1 of 98

Please See Page 3 for label accepted stamp.

DEPLOY® DRY

Herbicide by Monsanto

Complete Directions for Use

EPA Reg. No. 524-427

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

®DEPLOY is a registered trademark of Monsanto Company

~~1993-1~~

A-000.09/53

Read each of these sections of this label for essential product performance information.

USE THESE CONVENIENT SECTION MARKERS.

GENERAL INFORMATION

MIXING, ADDITIVES, AND APPLICATION INSTRUCTIONS

WEEDS CONTROLLED

NONCROP USES

CROPPING SYSTEMS

CONSERVATION, MINIMUM AND NO-TILL SYSTEMS

TREE AND VINE CROPS

Read the entire label before using this product.

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

REFORMULATION IS PROHIBITED. SEE INDIVIDUAL CONTAINER LABEL FOR

REPACKAGING LIMITATIONS.

LIMIT OF WARRANTY AND LIABILITY

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

(INDEX PAGES)
PRECAUTIONARY STATEMENTS

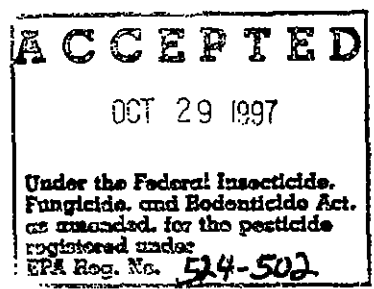
Hazards to
Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

HARMFUL IF SWALLOWED OR INHALED.
MAY CAUSE EYE IRRITATION.

Avoid contact with skin, eyes or clothing.
Avoid breathing dust.



Personal Protective Equipment:

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

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

User Safety Recommendation:
Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

FIRST AID: IF IN EYES, immediately flush with plenty of water. Get medical attention.

IF ON SKIN, immediately flush with plenty of water. Remove material from skin and clothing.

IF INHALED, remove individual to fresh air. Seek medical attention if breathing difficulty develops.

IF SWALLOWED, remove visible granules from mouth and rinse mouth with water. Offer a glass of water or milk, induce vomiting immediately as directed by medical personnel. NEVER GIVE

ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Get medical attention.

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

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 disposing of equipment washwaters.

Physical or Chemical Hazards

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

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

ACTIVE INGREDIENT:

* Glyphosate, N-(phosphonomethyl)glycine, in the form of its monoammonium salt..... 95.293.96%

INERT INGREDIENTS:..... 4.86.04%
100.00%

* Equivalent to 86.585% of the acid, glyphosate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exception 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 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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12-4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, waterproof gloves, and shoes plus socks.

Non-Agricultural Use Requirements

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

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

For more product information, call toll-free 1-800-323-1421.

Storage and Disposal

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

See container label for STORAGE AND DISPOSAL instructions.

GENERAL INFORMATION

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

This product, a water soluble granule, mixes readily with water to be applied as a foliar spray for the control or destruction of most herbaceous plants. It may be applied through most standard industrial or field-type sprayers after dilution and thorough mixing with water in accordance with label instructions.

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 visual effects of control. 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.

Unless otherwise specified on this label, delay application until vegetation has emerged and reached the stages described for control of such vegetation under the "Weeds Controlled" section of this label. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the herbicide and will continue to grow. For this reason, best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity.

Always use the higher rate of this product per acre within the recommended range when (1) weed growth is heavy or dense, or (2) weeds are growing in an undisturbed (noncultivated) area.

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

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.

Rainfall or irrigation occurring within 6 hours after application may reduce effectiveness. Heavy rainfall or irrigation within 2 hours after application may wash the chemical off the foliage and a repeat treatment may be required.

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.

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

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

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.

ATTENTION

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

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants, or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow spray drift to occur. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

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

MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES. DO NOT APPLY WHEN WIND OR OTHER CONDITIONS FAVOR DRIFT. HAND GUN APPLICATIONS SHOULD BE PROPERLY DIRECTED TO AVOID SPRAYING DESIRABLE PLANTS. NOTE: REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS WATER FROM PONDS AND UNLINED DITCHES.

MIXING

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the recommended amount of this product (see the "Directions for Use" and "Weeds Controlled" sections of this label) near the end of the filling process and mix well. Remove hose from tank immediately after filling to avoid siphoning back into the carrier source. During mixing and

application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

This product can be applied in clear nitrogen fertilizer carriers at carrier volumes of 10 to 60 gallons per acre. Before mixing with nitrogen fertilizers, pre-dissolve this product in water using the following ratios:

Deploy Dry	WATER
0.5 pound	1 to 2 pints
1.0 pound	1 to 2 quarts
10 pounds	2.5 to 5 gallons

SURFACTANT REQUIREMENT

When using this product, mix 4 or more quarts of a nonionic surfactant per 100 gallons of spray solution. Use a nonionic surfactant labeled for use with herbicides. The surfactant must contain 80 percent or more active ingredient.

TANK MIXTURES

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

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

1. Place a 20 to 35 mesh screen or wetting basket over filling port.
2. Through the screen, fill the sprayer tank one-half full with water and start agitation.
3. If a wettable powder is used, make a slurry with the water carrier, and add it SLOWLY through the screen into the tank. Continue agitation.
4. If a flowable formulation is used, premix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.
5. If an emulsifiable concentrate formulation is used, premix one part emulsifiable concentrate with two parts water. Add diluted mixture slowly through the screen into the tank.

Continue agitation.

- 6. Continue filling the sprayer tank with water, remove the screen and add the required amount of this product near the end of the filling process.
- 7. Add nonionic surfactant to the spray tank before completing the filling process.
- 8. Add individual formulations to the spray tank as follows: wettable powder, flowable, emulsifiable concentrate, drift control additive, water soluble liquid, and water soluble granule followed by surfactant.

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 bottom of tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. For best results with conventional ground applications equipment, use flat fan nozzles.

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

ADDITIVES

SURFACTANTS

When using this product, mix 4 or more quarts of a nonionic surfactant per 100 gallons of spray solution. Use a nonionic surfactant labeled for use with herbicides. The surfactant must contain 80 percent or more active ingredient. Read and carefully observe surfactant cautionary statements and other information appearing on the surfactant label.

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, 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

11 7 98

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. Do not use herbicide rates lower than recommended in this label.

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.

**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

Broadcast Spray

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

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

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

Selective Equipment -- Recirculating sprayers, shielded sprayers and wiper applicators.

See the appropriate part of this section for specific instructions and rates of application.

■ **AERIAL EQUIPMENT** ■

Use the recommended rates of this herbicide in 3 to 15 gallons of water per acre unless otherwise specified on this label. See the "Weeds Controlled" section of this label for specific rates. Unless otherwise specified, do not exceed 14 ounces per acre. **Aerial applications of this product may be made in annual cropping conventional tillage systems, fallow and reduced tillage**

systems, preharvest, silvicultural sites, and rights-of-way. Refer to the individual use area sections of this label for recommended volumes and application rates. FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS.

Avoid direct application to any body of water.

AVOID DRIFT--DO NOT APPLY DURING INVERSION CONDITIONS, WHEN WINDS ARE GUSTY, OR UNDER ANY OTHER CONDITION WHICH FAVORS DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

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

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

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. 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.

This product plus Oust, Banvel or 2,4-D tank mixtures may not be applied by air in California.

■ BROADCAST EQUIPMENT ■

For control of annual or perennial weeds listed on this label using broadcast equipment -- Use the recommended rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified on this label. See the "Weeds Controlled" section of this label for specific rates. As density of weeds increases, spray volume should be increased within the recommended range to ensure complete coverage. Carefully select proper nozzle to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

■ **CONTROLLED DROPLET APPLICATION (CDA)** ■

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

For the control of labeled annual weeds with hand-held CDA units, apply a mixture of 10.5 ounces of this product per each gallon of spray solution at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 MPH (14 ounces per acre). For the control of labeled perennial weeds, apply a mixture of 10.5 to 21 ounces of this product per each gallon of spray solution at a flow rate of 2 fluid ounces per minute and a walking speed of 0.75 MPH (28 to 56 ounces 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.

■ **HAND-HELD and HIGH-VOLUME EQUIPMENT** ■

Use coarse sprays only.

Mix this product in clean water and apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff.

For control of annual weeds listed on this label, apply a mixture of 0.3 ounces of this product per each gallon of spray solution to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds. Allow three or more days before tillage or mowing.

For annual weeds over 6 inches tall, or unless otherwise specified, use a mixture of 0.6 ounces of this product per each gallon of spray solution. For best results, use a mixture of 1.1 ounces of this product per each gallon of spray solution on harder-to-control perennials, such as bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle.

When using application methods which result in less than complete

coverage, use a mixture of 3 ounces of this product per each gallon of spray solution for annual and perennial weeds, and 3 to 6 ounces per each gallon of spray solution for woody brush and trees.

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

■ SELECTIVE EQUIPMENT ■

This product may be applied through a recirculating spray system, a shielded applicator, or a wiper applicator after dilution and thorough mixing with water to listed weeds growing in any noncrop site specified on this label and only when specifically recommended in cropping systems.

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

A shielded applicator directs the herbicide solution onto weeds while shielding desirable vegetation from the herbicide.

A wiper applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution.

AVOID CONTACT WITH DESIRABLE VEGETATION.

Contact of the herbicide solution with the desirable vegetation may result in damage or destruction. Applicators used above desired vegetation should be adjusted so that the lowest spray stream or wiper contact point is at least two 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 APPLICATORS

When applied as directed under conditions described for shielded applicators, this product will control those weeds listed in the "Weeds Controlled" section of this label.

Use the following equation to convert from a broadcast rate per acre to a band rate per acre.

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \frac{\text{Herbicide Broadcast RATE per acre}}{\text{Herbicide Band RATE per acre}} = \frac{\text{Herbicide Band RATE per acre}}{\text{Herbicide Broadcast RATE per acre}}$$

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \frac{\text{Broadcast VOLUME of solution per acre}}{\text{Band VOLUME of solution per acre}} = \frac{\text{Band VOLUME of solution per acre}}{\text{Broadcast VOLUME of solution per acre}}$$

Use nozzles that provide uniform coverage within the treated area. Keep shields on shielded sprayers adjusted to protect desirable vegetation. **EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT WITH DESIRABLE VEGETATION.**

For specific rates of application and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

WIPER APPLICATORS

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

Avoid leakage or dripping onto desirable vegetation. Adjust height of applicator to insure 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 one-day period, as reduced activity may result from use of leftover solutions. Clean wiper parts immediately after using this product by thoroughly flushing with water.

For Rope or Sponge Wick Applicators -- Mix 3.5 pounds of this product plus 1 quart nonionic surfactant in 2 gallons of water.

For Porous-Plastic Applicators -- Mix 3.5 to 8 pounds of this product plus 1 quart nonionic surfactant in 2 gallons of water. Dissolve this product in water before filling the wiper applicator.

When applied as recommended under the conditions described for "Wiper Applicators", this product **CONTROLS** the following weeds:

ANNUAL GRASSES

Corn

Zea mays

Panicum, Texas

Panicum texanum

Rye, common

Secale cereale

Shattercane

Sorghum bicolor

ANNUAL BROADLEAVES

Sicklepod

Cassia obtusifolia

Spanishneedles

Bidens bipinnata

Starbur, bristly

Acanthospermum hispidum

When applied as recommended under the conditions described for "Wiper Applicators", this product **SUPPRESSES** the following weeds:

ANNUAL BROADLEAVES

Beggarweed, Florida
Desmodium tortuosum

Dogfennel
Eupatorium capilliflorum

Pigweed, redroot
Amaranthus retroflexus

Ragweed, common
Ambrosia artemisiifolia

Ragweed, giant
Ambrosia trifida

Sunflower
Helianthus annuus

Thistle, musk
Carduus nutans

Velvetleaf
Abutilon theophrasti

PERENNIAL GRASSES

Bermudagrass
Cynodon dactylon

Guineagrass
Panicum maximum

Johnsongrass
Sorghum halepense

Smutgrass
Sporobolus poiretii

Vaseygrass
Paspalum urvillei

PERENNIAL BROADLEAVES

Dogbane, hemp
Apocynum cannabinum

Milkweed
Asclepias syriaca

Nightshade, silverleaf
Solanum elaeagnifolium

19 7 98

Thistle, Canada
Cirsium arvense

WEEDS CONTROLLED

This herbicide controls many annual and perennial grasses and broadleaf weeds.

ANNUAL WEEDS

- Apply to actively growing grass and broadleaf weeds.
- Allow at least 3 days after treatment before tillage.
- For maximum agronomic benefit, apply when weeds are 6 inches or less in height.
- To prevent seed production, applications should be made prior to seedhead formation.
- This product does not provide residual control; therefore, delay application until maximum weed emergence. Repeat treatments may be necessary to control later germinating weeds.

**LOW-VOLUME BROADCAST APPLICATION
(LOW-RATE TECHNOLOGY)**

When applied as directed under the conditions described, this product will control the weeds listed below when:

Water carrier volumes of 3 to 10 gallons per acre for ground applications and 3 to 5 gallons per acre for aerial applications are recommended. (See "Aerial Equipment" in the "Application and Equipment Techniques" section of this label for approved sites.)

NOTE

- 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 on annual weeds. The improvement in performance may be apparent where environmental stress is a concern. Refer to the "Mixing, Additives and Application Instructions" section of this label.
- 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.
 - Refer to the "Tank Mixtures" portion of this section for control of additional broadleaf weeds.
-

WEED SPECIES	MAXIMUM HEIGHT/LENGTH	RATE PER ACRE**
Foxtail <i>Setaria spp.</i>	12"	3.5 oz.
Barnyardgrass <i>Echinochloa crus-galli</i>	6" (0 to 4" 4 to 6"	5 oz. 7 oz. ¹⁾ 10.5 oz. ²⁾
Bluegrass, annual <i>Poa annua</i>		
Brome, downy** <i>Bromus tectorum</i>		
Mustard, blue <i>Chorispora tenella</i>		
Mustard, tansy <i>Descurainia pinnata</i>		
Mustard, tumble <i>Sisymbrium altissimum</i>		
Mustard, wild <i>Sinapis arvensis</i>		
Spurry, umbrella <i>Holosteum umbellatum</i>		
Barley <i>Hordeum vulgare</i>	12"	
Rye <i>Secale cereale</i>		
Sandbur, field <i>Cenchrus spp.</i>		
Shattercane <i>Sorghum bicolor</i>		
Stinkgrass <i>Eragrostis cilianensis</i>		

Wheat <i>Triticum aestivum</i>	18"	
Morningglory <i>Ipomoea spp.</i>	2"	7 oz.
Sicklepod <i>Cassia obtusifolia</i>		
Bluegrass, bulbous <i>Poa bulbosa</i>	6"	
Cheat <i>Bromus secalinus</i>		
Chickweed, common <i>Stellaria media</i>		
Chickweed, mouseear <i>Cerastium vulgatum</i>		
Corn <i>Zea mays</i>		
Goatgrass, jointed <i>Aegilops cylindrica</i>		
Groundsel, common <i>Senecio vulgaris</i>		
Horseweed/Marestail <i>Conyza canadensis</i>		
Lambsquarters, common <i>Chenopodium album</i>		
Pennycress, field Fanweed <i>Thlaspi arvense</i>		
Rocket, London <i>Sisymbrium irio</i>		
Ryegrass, Italian <i>Lolium multiflorum</i>		

Shepherdspurse <i>Capsella bursa-pastoris</i>		
Spurge, annual <i>Euphorbia</i> spp.		
Buttercup <i>Ranunculus</i> spp.	12"	
Cocklebur <i>Xanthium strumarium</i>		
Crabgrass <i>Digitaria</i> spp.		
Dwarf dandelion <i>Krigia cespitosa</i>		
Falseflax, smallseed <i>Camelina microcarpa</i>		
Foxtail, Carolina <i>Alopecurus carolinianus</i>		
Johnsongrass, seedling <i>Sorghum halepense</i>		
Oats, wild <i>Avena fatua</i>		
Panicum, fall <i>Panicum dichotomiflorum</i>		
Panicum, Texas <i>Panicum texanum</i>		
Pigweed, redroot <i>Amaranthus retroflexus</i>		
Pigweed, smooth <i>Amaranthus hybridus</i>		
Witchgrass <i>Panicum capillare</i>		
Sicklepod <i>Cassia obtusifolia</i>	3 to 4"	10.5 oz.
Signalgrass, broadleaf	4"	

<i>Brachiaria platyphylla</i>		
Horseweed/Marestail <i>Conyza canadensis</i>	7 to 12"	
Lambsquarters, common <i>Chenopodium album</i>		
Spurge, annual <i>Euphorbia spp.</i>		
Rice, red <i>Oryza sativa</i>	4"	14 oz.
Teaweed <i>Sida spinosa</i>		
Sprangletop <i>Leptochloa spp.</i>	6"	
Geranium, Carolina <i>Geranium carolinianum</i>	12"	
Goosegrass <i>Eleusine indica</i>		
Primrose, cutleaf evening <i>Oenothera laciniata</i>		
Pusley, Florida <i>Richardia scabra</i>		
Sicklepod <i>Cassia obtusifolia</i>	5 to 12"	
Spanishneedles <i>Bidens bipinnata</i>		
Filaree <i>Erodium spp.</i>	12"	21 oz.
Sprangletop <i>Leptochloa spp.</i>		

¹Use these rates to control barnyardgrass in Alabama, Arkansas, Mississippi, Missouri, Louisiana and Texas for preplant treatments.

~~* For those rates less than 14 ounces per acre, this product at rates up to 14 ounces per acre may be used where heavy weed densities exist.~~

~~** For control in no-till systems, use 7 ounces per acre.~~

~~* For control in no-till systems, use 7 ounces per acre.~~

** For those rates less than 14 ounces per acre, this product at rates up to 14 ounces per acre may be used where heavy weed densities exist.

■ TANK MIXTURES ■

■ Deploy Dry plus BANVEL ■

■ Deploy Dry plus 2,4-D ■

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

These tank mixtures are recommended for use in fallow and reduced tillage areas only. Follow use directions as given in the "Low-Volume Broadcast Application" section.

This product plus Banvel or 2,4-D will control the annual grasses and broadleaf weeds previously listed for this product alone at the indicated heights (except 3.5 ounces per acre applications), plus the following broadleaf weeds. For those weeds previously listed at 3.5 ounces of this product alone per acre, use 5 ounces in these tank mixtures.

NOTE: 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 Banvel is applied within 45 days of planting. The addition of Banvel in a mixture with this product may provide short-term residual control of selected weed species.

Apply 5 to 7 ounces of this product plus 0.25 lb. a.i. of Banvel or 0.5 pound a.i. of 2,4-D per acre to control dense populations of the following annual broadleaf weeds when less than the height indicated:

Cocklebur (12")

Xanthium strumarium

Kochia* (6")

Kochia scoparia

Lambsquarters (12")

Chenopodium album

Lettuce, prickly (6")

Lactuca serriola

Marestail/Horseweed (6")

Conyza canadensis

Morningglory (6")

Ipomoea spp.

Pigweed, redroot (12")

Amaranthus retroflexus

Pigweed, smooth (12")

Amaranthus hybridus

Thistle, Russian (12")

Salsola kali

*Controlled with Banvel tank mixture only.

Apply 7 ounces of this product plus 0.5 pound a.i. of 2,4-D per acre to control the following annual broadleaf weeds when less than 6 inches in height.

Ragweed, common

Ambrosia artemisiifolia

Ragweed, giant

Ambrosia trifida

Smartweed, Pennsylvania

Polygonum pennsylvanicum

Velvetleaf

Abutilon theophrasti

HIGH-VOLUME BROADCAST APPLICATIONS

When applied as directed under the conditions described, this product will control the weeds listed below when water carrier volumes are 10 to 40 gallons per acre for ground applications.

Use 14 ounces of this product per acre if weeds are less than 6

inches tall. If weeds are over 6 inches tall, use 21 ounces of this product per acre. If weeds have been mowed, grazed, or cut, allow adequate time for new growth to reach recommended stages prior to treatment. These rates will also provide control of weeds listed in the "Low-Volume Broadcast Application" section.

WEED SPECIES

Balsamapple*

Momordica charantia

Bassia, fivehook

Bassia hyssopifolia

Brome

Bromus spp.

Fiddleneck

Amsinckia spp.

Flaxleaf Fleabane

Conyza bonariensis

Fleabane

Erigeron spp.

Kochia

Kochia scoparia

Lettuce, prickly

Lactuca serriola

Panicum

Panicum spp.

Ragweed, common

Ambrosia artemisiifolia

Ragweed, giant

Ambrosia trifida

Smartweed, Pennsylvania

Polygonum pennsylvanicum

Sowthistle, annual

Sonchus oleraceus

Sunflower

Helianthus annuus

Thistle, Russian
Salsola kali

Velvetleaf
Abutilon theophrasti

*Apply with hand-held equipment only.

PERENNIAL WEEDS

Apply this product as follows to control or destroy most 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.

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 on perennial weeds. The improvement in performance may be apparent where environmental stress is a concern. Refer to the "Mixing, Additives and Application Instructions" section of this label.

When applied as recommended under the conditions described, this product WILL CONTROL the following PERENNIAL WEEDS:

Alfalfa
Medicago sativa

Alligatorweed*
Alternanthera philoxeroides

Artichoke, Jerusalem
Helianthus tuberosus

Bahiagrass
Paspalum notatum

Bentgrass
Agrostis spp.

Bermudagrass
Cynodon dactylon

Bermudagrass, water (knotgrass)

Paspalum distichum

Bindweed, field
Convolvulus arvensis

Bluegrass, Kentucky
Poa spp.

Blueweed, Texas
Helianthus ciliaris

Brackenfern
Pteridium aquilinum

Bromegrass, smooth
Bromus inermis

Bursage, woollyleaf
Franseria tomentosa

Canarygrass, reed
Phalaris arundinacea

Cattail
Typha spp.

Clover, red
Trifolium pratense

Clover, white
Trifolium repens

Cogongrass
Imperata cylindrica

Dallisgrass
Paspalum dilatatum

Dandelion
Taraxacum officinale

Dock, curly
Rumex crispus

Dogbane, hemp
Apocynum cannabinum

Fescues
Festuca spp.

Fescue, tall

Festuca arundinacea

Guineagrass

Panicum maximum

Horsenettle

Solanum carolinense

Horseradish

Armoracia rusticana

Johnsongrass

Sorghum halepense

Kikuyugrass

Pennisetum clandestinum

Knapweed

Centaurea repens

Lantana

Lantana camara

Milkweed

Asclepias spp.

Muhly, wirestem

Muhlenbergia frondosa

Mullein, common

Verbascum thapsus

Napiergrass

Pennisetum purpureum

Nightshade, silverleaf

Solanum elaeagnifolium

Nutsedge, purple, yellow

Cyperus rotundus

Cyperus esculentus

Orchardgrass

Dactylis glomerata

Pampasgrass

Cortaderia jubata

Paragrass

Brachiaria mutica

Phragmites**Phragmites spp.***Quackgrass***Agropyron repens***Redvine****Brunnichia ovata***Reed, giant***Arundo donax***Ryegrass, perennial***Lolium perenne***Smartweed, swamp***Polygonum coccineum***Spurge, leafy****Euphorbia esula***Sweet potato, wild****Ipomoea pandurata***Thistle, Canada***Cirsium arvense***Timothy***Phleum pratense***Torpedograss****Panicum repens***Trumpet creeper****Campsis radicans***Vaseygrass***Paspalum urvillei***Wheatgrass, western***Agropyron smithii****Partial Control**

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

See "Directions for Use" and "Mixing, Additives and Application Instructions" sections of this label for labeled uses and specific application instructions.

Alfalfa--Apply 14 ounces of this product per acre in 3 to 10 gallons of water per acre. Make application 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--Apply 3.5 pounds of this product per acre or apply a mixture of 0.9 ounce of this product per each gallon of spray solution with hand-held equipment to provide partial control. Apply when most of the plants are in bloom. Repeat applications will be required to maintain such control.

Bentgrass--For suppression in grass seed production areas. For ground applications only, apply 21 ounces of this product in 10 to 20 gallons of water per acre. Ensure entire crown area has resumed growth prior to a fall application. Bentgrass should be actively growing and 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. Failure to use tillage after treatment may result in unacceptable control.

Bermudagrass--For control, apply 4.4 pounds of this product per acre and, for partial control, apply 2.6 pounds per acre. Treat when bermudagrass is actively growing and seedheads are present. Retreatment may be necessary to maintain control. Allow 7 or more days after application before tillage.

Bermudagrass, water (knotgrass)--Apply 21 ounces of this product in 5 to 10 gallons of water per acre. Apply when water bermudagrass is actively growing and 12 to 18 inches in length. Allow 7 or more days before tilling, flushing or flooding the field.

Fall applications only--Apply 14 ounces 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 actively growing and 12 to 18 inches in length. Allow 7 or more days before tillage.

Bindweed, field--For control, apply 3.5 to 4.4 pounds of this product per acre west of the Mississippi River and 2.6 to 3.5 pounds east of the Mississippi River. Apply when the weeds are actively growing and are at or beyond full bloom. Do not treat when the weeds are under drought stress as good soil moisture is necessary for active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage.

Also for control, apply 1.8 pounds of this product plus 0.5 pound

a.i. of Banvel in 10 to 20 gallons of water per acre. At these rates, apply using ground application only.

The following tank mixtures with 2,4-D may be applied using aerial application equipment (except in California) in fallow and reduced tillage systems only.

For suppression on irrigated agricultural land apply 14 to 28 ounces 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 7 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. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length.

In California only, apply 14 ounces to 4.4 pounds 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 14 ounces of this product in 3 to 10 gallons of water per acre. Apply to actively growing bindweed that has reached a length of 12 inches or greater. Allow maximum weed emergence and runner growth. Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth. Allow 3 or more days after application before tillage.

Bluegrass, Kentucky/Bromegrass, smooth/Orchardgrass--Apply 28 ounces of this product in 10 to 40 gallons of water per acre when the grasses are actively growing and most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 14 to 21 ounces 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. Allow 7 or more days after application before tillage.

Orchardgrass (sods going to no-till corn)--Apply 14 to 21 ounces of this product per acre 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 three days following application before planting. A sequential application of atrazine will be necessary for optimum results.

Blueweed, Texas--Apply 3.5 to 4.4 pounds of this product per acre west of the Mississippi River and 2.6 to 3.5 pounds per acre east of the Mississippi River. Apply when the weeds are actively growing and are at or beyond full bloom. Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth. New leaf development indicates active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage.

Brackenfern--Apply 2.6 to 3.5 pounds of this product per acre as a broadcast spray or a mixture of 0.6 to 0.9 ounces of this product per each gallon of spray solution with hand-held equipment. Apply to fully expanded fronds which are at least 18 inches long.

Bursage, woollyleaf--For control, apply 1.8 pounds of this product plus 1 pint of Banvel per acre. For partial control, apply 14 ounces of this product plus 1 pint of Banvel per acre in 3 to 20 gallons of water 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/Timothy/Wheatgrass, western--Apply 1.8 to 2.6 pounds of this product per acre. For best results, apply to actively growing plants when most have reached the boot-to-head stage of growth. Allow 7 or more days after application before tillage.

Cogongrass--Apply 2.6 to 4.4 pounds of this product in 10 to 40 gallons of water per acre. Apply when cogongrass is at least 18 inches tall and actively growing in late summer or fall. Allow 7 or more days after application before tillage or mowing. Due to uneven stages of growth and the dense nature of vegetation preventing good spray coverage, repeat treatments may be necessary to maintain control.

Dandelion/Dock, curly--Apply 2.6 to 4.4 pounds of this product per acre when plants are actively growing and most have reached the early bud stage of growth. Allow 7 or more days after application before tillage.

Also for control, apply 7 ounces of this product plus 0.5 pound a.i. 2,4-D in 3 to 10 gallons of water per acre.

Dogbane, hemp--Apply 3.5 pounds of this product per acre. Apply when actively growing and when most weeds 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. Allow 7 or more days

after application before tillage.

For suppression, apply 7 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, tall--Apply 2.6 pounds of this product in 10 to 40 gallons of water per acre to actively growing plants when most have reached boot-to-early seedhead stage of development.

Fall applications only--Apply 14 ounces of this product in 3 to 10 gallons of water per acre. Apply to fescue in the fall when actively growing and plants have 6 to 12 inches of new growth. Allow 7 or more days after application before tillage. A sequential application of 7 ounces per acre of this product plus nonionic surfactant will improve long-term control and control seedlings germinating after fall treatments or the following spring.

Guineagrass--Apply 2.6 pounds of this product per acre or use a mixture of 0.6 ounces per each gallon of spray solution with hand-held equipment. Apply to actively growing guineagrass when most have reached at least the 7-leaf stage of growth. Ensure thorough coverage when using hand-held equipment. Allow 7 or more days after application before tillage.

Johnsongrass/Ryegrass, perennial--Apply 14 to 42 ounces of this product per acre. In annual cropping systems apply 14 to 28 ounces of this product per acre. Apply 14 ounces of this product in 3 to 10 gallons of water per acre. Use 28 ounces of this product when applying 10 to 40 gallons of water per acre. In noncrop or areas where annual tillage (no-till) is not performed, apply 28 to 42 ounces of this product in 10 to 40 gallons of water per acre. For best results, apply to actively growing plants when most 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 14 ounce per acre rate.

For burndown of Johnsongrass, apply 7 ounces per acre 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 mixture of 0.6 ounces of this product per each gallon of spray solution with hand-held equipment when Johnsongrass is 12 to 18 inches in height. Coverage should be uniform and complete.

Kikuyugrass--Apply 1.8 to 2.6 pounds of this product per acre. Spray when most kikuyugrass is at least 8 inches in height (3 or 4-leaf stage of growth) and actively growing. Allow 3 or more days after application before tillage.

Knapweed/Horseradish--Apply 3.5 pounds of this product per acre. Apply when actively growing and when most weeds 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. Allow 7 or more days after application before tillage.

Lantana--Apply this product as a mixture of 0.6 to 0.7 ounce per each gallon of spray solution using hand-held equipment only. Apply to actively growing lantana at or beyond the bloom stage of growth. Use the higher application rate for plants that have reached the woody stage of growth. Allow 7 or more days after application before tillage.

Milkweed, common--Apply 2.6 pounds of this product per acre. Apply when actively growing and most of the milkweed has reached the late bud to flower stage of growth. Following small grain harvest or mowing, allow milkweed to regrow to a mature stage prior to treatment. Allow 7 or more days after application before tillage.

Muhly, wirestem--Apply 14 to 28 ounces of this product per acre. Use 14 ounces of this product in 3 to 10 gallons of water per acre. Use 28 ounces 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 and actively growing. 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. This product will not provide residual control of wirestem muhly from seeds which germinate after application of this product. Do not tank-mix with residual herbicides when using the 14 ounce per acre rate.

Nightshade, silverleaf--For control, apply 28 ounces of this product in 3 to 10 gallons of water per acre. Applications should be made when at least 60 percent of the plants have berries. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage. Do not treat when weed is under drought stress as good soil moisture is necessary for active growth.

Nutsedge: purple, yellow--Apply 2.6 pounds of this product per acre as a broadcast spray, or apply a mixture of 0.6 to 1.1 ounces per each gallon of spray solution from hand-held equipment to

control existing 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 of 14 to 28 ounces of this product in 3 to 10 gallons of water per acre will 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 suppression to partial control of existing plants, apply 7 to 28 ounces of this product per acre 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. Wait 7 days after treatment before tillage or mowing.

Pampasgrass--Apply this product as a mixture of 0.9 to 1.1 ounces per each gallon of spray solution using hand-held equipment. Apply to plants that are actively growing at or beyond the boot stage of growth. Thorough coverage is necessary for best control.

Phragmites--For partial control of phragmites in Florida and the counties of other states bordering the Gulf of Mexico, apply 4.4 pounds per acre as a broadcast spray or apply a mixture of 1.1 ounces per each gallon of spray solution from hand-held equipment. In other areas of the U.S., apply 2.6 pounds per acre as a broadcast spray or apply a mixture of 0.6 ounces per each gallon of spray solution from hand-held equipment 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.

Quackgrass--In Annual Cropping Systems, or in Pastures and Sods Followed by Deep Tillage--Apply 14 to 28 ounces of this product per acre. For the 14 ounce rate, apply in 3 to 10 gallons of water per acre. For the 28 ounce rate, apply in 10 to 40 gallons of water per acre. Do not tank mix with residual herbicides when using the 14 ounce rate. Spray when quackgrass is 6 to 8 inches in height and actively growing. 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, for best results use a moldboard plow.

Quackgrass--Pasture or Sod or Other Noncrop Areas Where Deep Tillage is Not Planned Following Application--Apply 28 to 42 ounces in 10 to 40 gallons of water per acre. Spray when the quackgrass is greater than 8 inches tall and actively growing. Do not till between harvest and fall application or in fall or spring prior to spring application. Allow 3 or more days after application before tillage.

Redvine--For suppression, apply 10.5 ounces of this product per acre at each of two applications 7 to 14 days apart or a single application of 28 ounces per acre. Apply recommended rates in 5 to 10 gallons of water per acre. Apply to actively growing plants in late September or early October, which are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least one week before a killing frost.

Reed, giant--For control of giant reed, apply a mixture of 1.1 ounces of this product per each gallon of spray solution when plants are actively growing. Best results are obtained when applications are made in late summer to fall.

Smartweed, swamp--Apply 2.6 to 4.4 pounds of this product per acre when plants are actively growing and most have reached the early bud stage of growth. Allow 7 or more days after application before tillage.

Also for control, apply 7 ounces of this product plus 0.5 pounds active ingredient of 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall. Apply when plants are actively growing and most have reached the early bud stage of growth. Allow 7 or more days after application before tillage.

Spurge, leafy--For suppression, apply 7 ounces of this product plus 0.5 pound active ingredient 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall. Apply when plants are actively growing. If mowing has occurred prior to treatment, apply when most of the plants are 12 inches tall. Allow 7 or more days after application before tillage.

Sweet Potato, wild--Apply this product as a mixture of 1.1 ounces per each gallon of spray solution using hand-held equipment. Apply to actively growing weeds that are at or beyond the bloom stage of growth. Repeat applications will be required. Allow the plant to reach the recommended stage of growth before retreatment. Allow 7 or more days before tillage.

Thistle, Canada--Apply 28 to 42 ounces of this product per acre. Apply to actively growing thistles when most 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 of Canada thistle, apply 14 ounces per acre of this product, or 7 ounces of this product plus 0.5 pound a.i. 2,4-D per acre 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.

Torpedograss--Apply 3.5 to 4.4 pounds of this product per acre to provide partial control of torpedograss. Apply to actively growing torpedograss 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. Allow 7 or more days after application before tillage.

Trumpetcreeper--For control, apply 28 ounces of this product per acre in 5 to 10 gallons of water per acre. Apply to actively growing plants in late September or October, 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.

Other perennials listed on this label--Apply 2.6 to 4.4 pounds of this product per acre. Apply when actively growing and most have reached early head or early bud stage of growth. Allow 7 or more days after application before tillage.

WOODY BRUSH AND TREES

When applied as recommended under the conditions described, this product CONTROLS or PARTIALLY CONTROLS the following woody brush, plants and trees:

- Alder**
Alnus spp.
- Ash***
Fraxinus spp.
- Aspen, quaking**
Populus tremuloides

Bearmat (Bearclover)
Chamaebatia foliolosa

Birch
Betula spp.

Blackberry
Rubus spp.

Broom:
French
Cytisus monspessulanus

Scotch
Cytisus scoparius

Buckwheat, California*
Eriogonum fasciculatum

Cascara*
Rhamnus purshiana

Catsclaw*
Acacia greggi

Ceanothus*
Ceanothus spp.

Chamise
Adenostoma fasciculatum

Cherry:
Bitter
Prunus emarginata

Black
Prunus serotina

Pin
Prunus pensylvanica

Coyote brush
Baccharis consanguinea

Creeper, Virginia*
Parthenocissus quinquefolia

Dewberry
Rubus trivialis

Elderberry
Sambucus spp.

Elm*
Ulmus spp.

Eucalyptus
Eucalyptus spp.

Hasardia*
Haplopappus squamosus

Hawthorn
Crataegus spp.

Hazel
Corylus spp.

Honeysuckle
Lonicera spp.

Kudzu
Pueraria lobata

Locust, black*
Robinia pseudoacacia

Madrone
Arbutus menziesii

Manzanita
Arctostaphylos spp.

Maple:

Red**
Acer rubrum

Sugar
Acer saccharum

Vine*
Acer circinatum

Monkey Flower*
Mimulus guttatus

Oak:

Black*
Quercus velutina

Northern Pin
Quercus palustris

Post
Quercus stellata

Red
Quercus rubra

Southern Red
Quercus falcata

White*
Quercus alba

Persimmon*
Diospyros spp.

Poison Ivy
Rhus radicans

Poison Oak
Rhus toxicodendron

Poplar, yellow*
Liriodendron tulipifera

Raspberry
Rubus spp.

Rose, multiflora
Rosa multiflora

Russian-olive***
Elaeagnus angustifolia

Sage, black
Salvia mellifera

Sagebrush, California
Artemisia californica

Salmonberry
Rubus spectabilis

Sassafras
Sassafras albidum

Sourwood
Oxydendrum arboreum

Sumac:**Poison****Rhus vernix***Smooth****Rhus glabra***Winged****Rhus copallina***Sweetgum***Liquidambar styraciflua***Swordfern****Polystichum munitum***Tallowtree, Chinese***Sapium sebiferum***Tan Oak***Lithocarpus densiflorus***Thimbleberry***Rubus parviflorus***Tobacco, tree****Nicotiana glauca***Trumpetcreeper***Campsis radicans***Willow***Salix spp.*

* Partial control

** See below for control or partial control instructions.

*** This product is not registered in California for use on Russian-olive.

NOTE: If brush has been mowed or tilled or trees have been cut, do not treat until regrowth has reached the recommended stages of growth.

Apply this product when plants are actively growing and, unless otherwise directed, after full leaf expansion. 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 application is made

in the spring to early summer when brush species are at high moisture content and are flowering.

Ensure thorough coverage when using hand-held equipment. Symptoms may not appear prior to frost or senescence with fall treatments.

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

See "Directions for Use", and "Mixing, Additives, and Application Instructions" sections of this label for labeled uses and specific application instructions.

Apply this product as follows to control or partially control the following woody brush and trees.

Alder/Dewberry/Honeysuckle/Post Oak/Raspberry--For control, apply 2.6 to 3.5 pounds per acre of this product as a broadcast spray or a mixture of 0.6 to 0.9 ounces per each gallon of spray solution with hand-held equipment.

Aspen, quaking/Cherry: bitter, black, pin/Hawthorn/Oak, southern red/Sweetgum/Trumpet creeper--For control, apply 1.8 to 2.6 pounds of this product per acre as a broadcast spray or a mixture of 0.6 to 0.9 ounces per each gallon of spray solution with hand-held equipment.

Birch/Elderberry/Hazel/Salmonberry/Thimbleberry--For control, apply 1.8 pounds per acre of this product as a broadcast spray or a mixture of 0.6 ounces per each gallon of spray solution with hand-held equipment.

Blackberry--For control, apply 2.6 to 3.5 pounds per acre of this product as a broadcast spray, or a mixture of 0.6 to 0.9 ounces per each gallon of spray solution with hand-held equipment. Make application after plants have reached full leaf maturity. Best results are obtained when applications are made in late summer or fall. After berries have set or dropped in late fall, blackberry can be controlled by applying a mixture of 0.4 ounces per each gallon of spray solution with hand-held equipment. For control of blackberries after leaf drop and until killing frost or as long as stems are green, apply 2.6 to 3.5 pounds of this product in 10 to 40 gallons of water per acre.

Broom: French, Scotch--For control, apply a mixture of 0.9 to 1.1 ounces per each gallon of spray solution with hand-held equipment.

Buckwheat, California/Hasardia/Monkey Flower/Tobacco, tree--For partial control of these species, apply a mixture of 0.6 to 1.1 ounces per each gallon of spray solution as a foliar spray with hand-held equipment. Thorough coverage of foliage is necessary for best results.

Catsclaw--For partial control, apply a mixture of 0.6 to 0.9 ounces per each gallon of spray solution with hand-held equipment.

Coyote Brush--For control, apply a mixture of 0.9 to 1.1 ounces per each gallon of spray solution with hand-held equipment when at least 50 percent of the new leaves are fully developed.

Eucalyptus--For control of eucalyptus resprouts, apply a mixture of 1.1 ounces per each gallon of spray solution with hand-held equipment when resprouts are 6 to 12 feet tall. Ensure complete coverage. Apply when plants are growing actively. Avoid application to drought-stressed plants.

Kudzu--For control, apply 3.5 pounds of this product per acre as a broadcast spray or a mixture of 1.1 ounces per each gallon of spray solution with hand-held equipment. Repeat applications will be required to maintain control.

Madrone resprouts--For suppression or partial control, apply a mixture of 1.1 ounces per each gallon of spray solution to resprouts less than 3 to 6 feet tall. Best results are obtained with spring/early summer treatments.

Maple, red--For control, apply a mixture of 0.6 to 1.1 ounces per each gallon of spray solution with hand-held equipment when at least 50 percent of the new leaves are fully developed. For partial control, apply 1.8 to 3.5 pounds of this product per acre as a broadcast spray.

Maple, sugar/Oak, northern pin/Oak red--For control, apply a mixture of 0.6 to 0.9 ounces per each gallon of spray solution with hand-held equipment when at least 50 percent of the new leaves are fully developed.

Poison Ivy/Poison Oak--For control, apply 3.5 to 4.4 pounds of this product per acre as a broadcast spray or a mixture of 1.1 ounces per each gallon of spray solution with hand-held equipment. Repeat applications may be required to maintain control. Fall treatments must be applied before leaves lose green color.

Rose, multiflora--For control, apply 1.8 pounds of this product per acre as a broadcast spray or a mixture of 0.6 ounces per each

gallon of spray solution with hand-held equipment. Treatments should be made prior to leaf deterioration by leaf-feeding insects.

Sage, black/Sagebrush, California/Chamise/Tallowtree, Chinese--For control of these species, apply a mixture of 0.6 ounces per each gallon of spray solution as a foliar spray with hand-held equipment. Thorough coverage of foliage is necessary for best results.

Tan oak resprouts--For suppression or partial control, apply a mixture of 1.1 ounces per each gallon of spray solution to resprouts less than 3 to 6 feet tall. Best results are obtained with fall applications.

Willow--For control, apply 2.6 pounds of this product per acre as a broadcast spray or a mixture of 0.6 ounces per each gallon of spray solution with hand-held equipment.

Other Woody Brush and Trees listed on this label--For partial control, apply 1.8 to 3.5 pounds of this product per acre as a broadcast spray or a mixture of 0.6 to 1.1 ounces per each gallon of spray solution with hand-held equipment.

NONCROP USES

See "General Information" and "Mixing, Additives and Application Instructions" sections of this label for essential product performance information and the following "Noncrop" sections for specific recommended uses.

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

Repeat treatments may be necessary to control weeds regenerating from underground parts or seeds.

This product does not provide residual weed control. For subsequent 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.

**INDUSTRIAL, RECREATIONAL
AND PUBLIC AREAS**

When applied as directed for "Noncrop Uses", under conditions described, this product controls annual and perennial weeds listed on this label growing in areas such as airports, ditch banks, dry ditches, dry canals, fencerows, golf courses, highways, industrial plant sites, lumber yards, parking areas, parks, petroleum tank farms and pumping installations, pipelines, power and telephone rights-of-way, railroads, roadsides, schools, storage areas, utility substations, other public areas and similar industrial or noncrop areas.

For specific rates of application and instructions for control of various annual and perennial weeds and woody brush and trees, see the "Weeds Controlled" section of this label.

This product may be applied with recirculating sprayers, shielded applicators, or wiper applicators in any noncrop site specified on this label. See the "Selective Equipment" part of "Application Equipment and Techniques" section of this label for information on proper use and calibration of this equipment.

**TANK MIXTURES FOR
INDUSTRIAL SITES AND
FORESTRY SITE PREPARATIONS**

Deploy Dry plus OUST™

Use on industrial sites including airports, industrial plants, lumberyards, petroleum tank farms, pumping stations, pipelines, railroads, roadsides, storage areas or other similar sites where bare ground is desired.

This tank mixture may also be used as a site preparation treatment for sites to be planted to jack pine, loblolly pine, red pine, slash pine and Virginia pine.

When applied as directed for "Noncrop Uses" under the conditions described, this product plus Oust provides control of annual weeds listed in the "Weeds Controlled" section of the label for this product and Oust, and control or partial control of the perennial weeds listed below.

Apply 14 to 28 ounces of this product with 2 to 4 ounces of Oust in 10 to 40 gallons of spray solution per acre as a broadcast spray to actively growing weeds.

This mixture may be applied by aerial equipment in site prep operations. When applied by air, use the recommended rates in 5 to 15 gallons of spray solution per acre.

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

For control of annual weeds, use the lower rates of these products.

For control of the listed perennial weeds, use the higher rates of both products. For partial control, use the lower rates.

Bahiagrass

Paspalum notatum

Bermudagrass*

Cynodon dactylon

Broomsedge

Andropogon virginicus

Dock, curly

Rumex crispus

Dogfennel

Eupatorium capilliforium

Fescue, tall

Festuca arundinacea

Johnsongrass**

Sorghum halepense

Poorjoe**

Diodia teres

Quackgrass

Agropyron repens

Trumpetcreeper*

Campsis radicans

Vaseygrass

Paspalum urvillei

Vervain, blue
Verbena hastata

*Suppression at the higher rates only.

**Control at the lower rates.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

■ TANK MIXTURES ■
NONCROP SITES

When applied as a tank mixture, this product provides control of the emerged annual weeds and partial control of the emerged perennial weeds listed in this label. When applied as a tank mixture, the following residual herbicides will provide preemergence control of the weeds listed in the individual product labels.

- Deploy Dry plus DIURON ■
- Deploy Dry plus KROVAR™ I ■
- Deploy Dry plus KROVAR II ■
- Deploy Dry plus RONSTAR™ 50WP ■
- Deploy Dry plus SIMAZINE,
PRINCEP™ CALIBER™ 90 ■
- Deploy Dry plus SIMAZINE 4L ■
- Deploy Dry plus SIMAZINE 80W ■
- Deploy Dry plus SURFLAN™ 75W ■
- Deploy Dry plus SURFLAN AS ■

See the "Mixing, Additives and Application Instructions" section of this label before preparing these tank mixtures.

Read and carefully observe the label claims, cautionary statements, recommended use rates and all other information on the labels of all products used in these tank mixtures. Use according to the most restrictive label directions for each product in the mixture.

CONTROL OF EMERGED WEEDS

Annual Weeds—Apply 14 ounces per acre of this product in these tank mixtures when weeds are less than 6 inches tall and 21 ounces per acre when weeds are more than 6 inches tall.

Perennial Weeds—For partial control of perennial weeds using these tank mixtures, apply 1.8 to 4.4 pounds per acre of this product. Follow the recommendations in the 'Weeds Controlled' section of this label for stage of growth and rate of application for specific perennial weeds.

PREEMERGENCE WEED CONTROL

For preemergence weed control, refer to the individual product labels for specific noncrop sites, rates, carrier volumes and precautionary statements.

Mix only the quantity of spray solution which can be used during the same day. Do not allow these tank mixtures to stand overnight as this may result in reduced weed control.

APPLY THESE TANK MIXTURES THROUGH CONVENTIONAL BROADCAST EQUIPMENT ONLY.

FARMSTEAD WEED CONTROL

When applied as directed for "Noncrop Uses", under conditions described, this product controls undesirable vegetation listed on this label around farmstead building foundations, along and in fences, shelterbelts, and for general nonselective farmstead weed control.

For specific rates of application and instructions for control of various annual and perennial weeds, see the 'Weeds Controlled' section of this label.

FARM DITCHES

This product will suppress perennial grasses along farm ditches. Apply this product at a rate of 2.5 to 3.5 ounces per acre. Use 3.5 ounces per acre when treating tall (coarse) fescue, fine

fescue, orchardgrass, or quackgrass covers. For best suppression of these species, add ammonium sulfate at a rate of 1.7 pounds per 10 gallons of spray solution. Use 2.5 ounces per acre without ammonium sulfate when treating Kentucky bluegrass.

Apply treatments in 10 to 20 gallons of spray solution per acre to actively growing perennial grass covers. For best spray distribution and coverage, use flat fan nozzles.

Where broadleaf weed control or suppression is desired, tank mix this product with an appropriate, labeled broadleaf weed herbicide.

**CONSERVATION RESERVE PROGRAM
(CRP ACRES)**

This product can be used to control undesirable vegetation when rotating out of CRP acres or to suppress competitive growth and seed production of undesirable vegetation in CRP acres.

For specific rates of application for various annual and perennial weeds, see the "Weeds Controlled" section of this label.

CRP applications may be made with wiper applicators or conventional spray equipment.

For selective applications with broadcast spray equipment, apply 5 to 7 ounces per acre of this product 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. Some stunting of CRP perennial grasses will occur if applications are made when plants are not dormant.

HABITAT MANAGEMENT

This product is recommended for the restoration and/or maintenance of native habitats and in wildlife management areas. Apply as recommended in the "NONCROP USES" section of this label.

Habitat Restoration and Maintenance - When applied as directed, exotic and other undesirable vegetation may be controlled in habitat management areas. Applications can be made to allow

recovery of native plant species, prior to planting desirable native species, and for similar broadspectrum vegetation control requirements in habitat management areas. Spot treatments can be made to selectively remove unwanted plants for habitat maintenance and enhancement. For spot treatments, care should be exercised to keep spray off of desirable plants.

Wildlife Food Plots - This product may be used as a site preparation treatment prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after applying this product before tilling.

ORNAMENTALS AND CHRISTMAS TREES

THIS PRODUCT IS NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN ORNAMENTALS AND CHRISTMAS TREES.

NOTE: Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard, or other impermeable material.

When applied as instructed for the conditions described for "Noncrop Uses", this product controls undesirable vegetation listed on this label prior to planting, within and around greenhouses and shadehouses, and as a postdirected spray around established ornamentals and Christmas trees.

For specific rates of application and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

Where repeat applications are necessary, do not exceed 9.4 pounds of this product per acre per year.

Site Preparation—Following preplant applications of this product, any ornamental or Christmas tree species may be planted. Precautions should be taken to protect nontarget plants during site preparation applications.

Greenhouse/Shadehouse Use—This product may be used to control weeds listed on this label which are growing in greenhouses. Desirable vegetation must not be present during application and air circulation fans must be turned off.

Postdirected Spray—Use as a postdirected spray around established

woody ornamental species or Christmas trees such as those listed below. Care must be exercised to avoid contact of spray, drift or mist with foliage of or green bark of established ornamental species.

Arborvitae

Thuja spp.

Azalea

Rhododendron spp.

Boxwood

Buxus spp.

Crabapple

Malus spp.

Euonymus

Euonymus spp.

Fir

Abies spp.

Pseudotsuga spp.

Jojoba

Simmondsia chinensis

Hollies

Ilex spp.

Lilac

Syringa spp.

Magnolia

Magnolia spp.

Maple

Acer spp.

Oak

Quercus spp.

Privet

Ligustrum spp.

Pine

Pinus spp.

Spruce

Picea spp.

Yew

Taxus spp.

**SILVICULTURAL SITES and
RIGHTS-OF-WAY**

NOTE: NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY
IN SILVICULTURAL NURSERIES .

When applied as directed for "Noncrop Uses" under conditions described, this product controls undesirable vegetation listed on this label. This product also suppresses or controls undesirable vegetation listed on this label when applied at recommended rates for release of established coniferous species listed on this label.

For specific rates of application and instructions for control of various brush, annual and perennial weeds, see the "Weeds Controlled" section of this label. For specific rates of application for release of listed coniferous species, see the "Conifer Release" part of this section of the label.

Where repeat applications are necessary, do not exceed 9.4 pounds of this product per acre per year.

Aerial Application—This product may be applied using aerial spray equipment for silvicultural site preparation, conifer release and rights-of-way treatments. See the "Application Equipment and Techniques" part of the "Mixing, Additives and Application Instructions" section of this label for information on how to apply this product by air.

DO NOT APPLY THIS PRODUCT BY AIR TO RIGHTS-OF-WAY SITES IN THE STATE OF CALIFORNIA.

In order to reduce the aerial application drift hazard to aquatic sites*, to nontarget sites, or any site containing desirable vegetation, always maintain appropriate buffer zones. A buffer zone of the following minimum distances should be maintained:

- Helicopters using a Microfoil™ boom, a Thru-Valve™ boom (TVB-45), or equivalent drift control systems, should maintain at least a 50-foot buffer zone.
- When using other aerial equipment:
 1. Maintain at least a 75-foot buffer zone for applications using 28 ounces per acre or less of this product.

- 2. Maintain at least a 125-foot buffer zone for applications using more than 28 ounces per acre of this product.
- 3. Maintain at least a 400-foot buffer zone for applications on rights-of-way when applied from 75 feet or more above ground level.

These distances should be increased if conditions favoring drift exist.

* Aquatic sites include all lakes, ponds, and streams used for significant domestic purposes or angling.

■ **SITE PREPARATION** ■

Following preplant applications of this product, any silvicultural species may be planted.

■ **POSTDIRECTED SPRAY** ■

In established silvicultural sites, use as a spray on the foliage of undesirable vegetation. Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of desirable species.

■ **CONIFER RELEASE** ■

For release, apply only where conifers have been established for more than one year. Vegetation should not be disturbed prior to treatment or until visual symptoms appear after treatment. Symptoms of treatment are slow to appear, especially in woody species treated in late fall. Injury may occur to conifers treated for release, especially where spray patterns overlap or the higher rates are applied or when applications are made during periods of active conifer growth.

Applications must be made after formation of final conifer resting buds in the fall or prior to initial bud swelling in spring. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Use the following rates for conifer release to control or partially control the weeds listed in the "Weeds Controlled" section of this label.

For release of the following conifer species:

- Douglas fir**
- Pseudotsuga menziesii*

Fir
Abies spp.

Hemlock
Tsuga spp.

Pines*
Pinus spp.

Spruce
Picea spp.

* Includes all species except eastern white pine, loblolly pine or slash pine.

Apply 21 to 28 ounces of this product per acre except in Washington and Oregon, west of the crest of the Cascade Mountains. For spring treatments west of the crest of the Cascade Mountains, apply 14 ounces of this product per acre before conifer bud swell for control of annual weeds. For fall treatments in Washington and Oregon, west of the crest of the Cascade Mountains, apply 14 to 21 ounces of this product per acre before any major leaf drop of deciduous species.

For release of western hemlock, apply 14 ounces of this product per acre.

For release of the following conifer species:

Loblolly pine
Pinus taeda

Eastern white pine
Pinus strobus

Slash pine
Pinus elliottii

Late Season Application—Apply 21 to 28 ounces of this product in a minimum of 5 gallons of spray solution per acre during early autumn. Applications made prior to September 1 or when conditions are conducive to rapid growth of conifers will create the potential for increased injury in the form of tip and/or needle burn. Injury may decrease with later applications. Some autumn colors are acceptable at time of application. Apply prior to frost or leaf drop of undesirable plants. Applications made according to label directions will release loblolly pine, eastern white pine and slash pine by reducing competition from the following species:

Ash
Fraxinus spp.

Cherry:**Black***Prunus serotina***Pin***Prunus pensylvanica***Elm***Ulmus spp.***Hawthorn***Crataegus spp.***Locust, black***Robinia pseudoacacia***Maple, red***Acer rubra***Oak:****Black***Quercus velutina***Post***Quercus stellata***Southern Red***Quercus falcata***White***Quercus alba***Persimmon***Diospyros spp.***Poplar, yellow***Liriodendron tulipifera***Sassafras***Sassafras albidum***Sourwood***Oxydendrum arboreum***Sumac:****Poison***Rhus vernix***Smooth***Rhus glabra*

Winged

Rhus copallina

Sweetgum

Liquidambar styraciflua

Apply only to those sites where woody brush and trees listed in this label constitute the majority of the undesirable species.

■ **Deploy Dry® plus Oust Tank Mixtures** ■
for Conifer Release from Herbaceous Weeds

To release **loblolly pines** from herbaceous weeds, tank mixtures of this product with Oust will provide control of annual weeds listed in the "Weeds Controlled" section of this and the Oust label, and partial control of the perennial weeds listed below.

Apply 7 to 10.5 ounces of this product with 2 to 4 ounces of Oust in 10 to 30 gallons of spray solution per acre. Make application to actively growing weeds as a broadcast spray over the top of the young loblolly pines.

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

This tank mixture may be applied using aerial equipment. When applying by air, use the recommended rate in 5 to 15 gallons of spray solution per acre.

For control of annual weeds below 12 inches in height (or runner length on annual vines), use the lower rates of both products. Use the higher rates of both products when annual weeds are in more advanced stages of growth and approaching flower or seed formation.

Use the higher rates of both products for partial control of the following perennial weeds. Use the lower rates for suppression of growth.

Bahiagrass

Paspalum notatum

Broomsedge

Andropogon virginicus

Dock, curly

Rumex crispus

Dogfennel

Eupatorium capilliflorum

Fescue, tall

Festuca arundinacea

Johnsongrass*

Sorghum halepense

Poorjoe*

Diodia teres

Trumpetcreeper**

Campsis radicans

Vaseygrass

Paspalum urvillei

Vervain, blue

Verbena hastata

*Control at the higher rates.

**Suppression at the higher rates only.

Pine damage may occur or can be accentuated if treatment takes place when young trees are under stress from drought, flood water, insects or disease.

Read and observe the cautionary statements and all other information appearing on the label of all herbicides used.

NOTE TO USER

This product must not be used in areas where adverse impact on federally designated endangered/threatened plant or aquatic species is likely.

Prior to making applications, the user of this product must determine that no such species are located in or immediately adjacent to the area to be treated.

■ **CUT STUMP TREATMENTS** ■

Woody vegetation may be controlled by treating freshly cut stumps of trees and resprouts with this product. Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut vegetation close to the soil surface. Apply a mixture of 1.8 to 3.5 pounds of this product in 1 gallon of water 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.

When used according to directions for cut stump application, this product will CONTROL, PARTIALLY CONTROL or SUPPRESS many types of woody brush and tree species, some of which are listed below:

Alder

Alnus spp.

Eucalyptus

Eucalyptus spp.

Madrone

Arbutus menziesii

Oak

Quercus spp.

Reed, giant

Arundo donax

Saltcedar

Tamarisk spp.

Sweetgum

Liquidambar styraciflua

Tan Oak

Lithocarpus densiflorus

Willow

Salix spp.

■ **INJECTION AND FRILL
APPLICATIONS** ■

Woody vegetation may be controlled by injection or frill application of this product. Apply this product using suitable equipment which must penetrate into the living tissue. Apply a mixture of 1.8 to 3.5 pounds of this product in 1 gallon of water either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow runoff to occur from frill or cut areas in species that exude sap freely after

frills or cutting. In species such as this, make frill or cut at an oblique angle so as to produce a cupping effect and use undiluted material. For best results, application should be made during periods of active growth and after full leaf expansion.

This treatment WILL CONTROL the following woody species:

Oak

Quercus spp.

Poplar

Populus spp.

Sweetgum

Liquidambar styraciflua

Sycamore

Platanus occidentalis

This treatment WILL SUPPRESS the following woody species:

Black gum

Nyssa sylvatica

Dogwood

Cornus spp.

Hickory

Carya spp.

Maple, red

Acer rubrum

**TURFGRASSES AND GRASSES
FOR SEED PRODUCTION**

PREPLANT AND RENOVATION

When applied as directed for "Noncrop Uses", under conditions described, this product controls most existing vegetation prior to the planting or renovation of either turfgrasses or grass seed production areas.

For specific rates of application and instructions for control of various annual and perennial weeds, and woody brush and trees, see the "Weeds Controlled" section of this label.

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.

TURFGRASSES

Where existing vegetation is growing in a field or unmowed situation, apply this product to actively growing weeds at the stages of growth listed in the "Weeds Controlled" section of this label.

Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray.

Desirable turfgrasses may be planted following the above procedures.

GRASSES FOR SEED PRODUCTION

Apply this product to actively growing weeds at the stages of growth recommended in the "Weeds Controlled" section of this label prior to planting or renovation of turf or forage grass areas grown for seed production.

DO NOT feed or graze treated areas within 8 weeks after application.

**ANNUAL WEED CONTROL IN
DORMANT BERMUDAGRASS
AND BAHIAGRASS TURF**

When applied as directed for "Noncrop Uses" under the conditions described, this product will provide control or suppression of many winter annual weeds and tall fescue for effective release of dormant bermudagrass and bahiagrass turf. Refer to the rate table for this product alone under the "Release of Bermudagrass and Bahiagrass" section of this label for recommended rates and volumes on the species to be suppressed or controlled. Treat only when turf is dormant and prior to spring greenup. Spot treatments or broadcast applications of this product in excess of 7 ounces

per acre may result in injury or delayed greenup in highly maintained turfgrass areas; i.e., golf courses, lawns, etc. DO NOT APPLY TANK MIXTURES of this product plus Oust in highly maintained turfgrass areas.

**RELEASE OF BERMUDAGRASS OR
BAHIAGRASS**

NOTE: Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated. Use tank mixtures of this product plus Oust only on railroads, highways, utility plant sites, or other right-of-way areas.

When applied as directed for "Noncrop Uses" under the conditions described, this product will provide control or suppression of many winter annual weeds and tall fescue for effective release of dormant bermudagrass or bahiagrass. This product may be tank-mixed with Oust as recommended for residual control. Make applications to dormant bermudagrass or bahiagrass. Tank mixtures of this product plus Oust may delay greenup. To avoid delays in greenup and minimize injury, do not add more than 1 ounce per acre of Oust on bermudagrass or more than one-half ounce per acre on bahiagrass, or treat when these grasses are in a semidormant condition.

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 in or beyond the 4 to 6-leaf stage.

WEEDS CONTROLLED

Rate recommendations for control or suppression of winter annuals and tall fescue are listed below:

Apply the recommended rates of this product alone or as a tank mixture in 10 to 25 gallons of water per acre.

For the best recommendation for the mixture of weeds within your geographic areas, contact your Monsanto sales representative.

**WEEDS CONTROLLED OR SUPPRESSED
WITH Deploy Dry ALONE***

NOTE: C = Control
S = Suppression

WEED SPECIES	Deploy Dry OZ/ACRE					
	3.5	5	7	10.5	14	28
Barley, little <i>Hordeum pusillum</i>	S	C	C	C	C	C
Bedstraw, catchweed <i>Galium aparine</i>	S	C	C	C	C	C
Bluegrass, annual <i>Poa annua</i>	S	C	C	C	C	C
Chervil <i>Chaerophyllum tainturieri</i>	S	C	C	C	C	C
Chickweed, common <i>Stellaria media</i>	S	C	C	C	C	C
Clover, crimson <i>Trifolium incarnatum</i>	.	S	S	C	C	C
Clover, large hop <i>Trifolium campestre</i>	.	S	S	C	C	C
Fescue, tall <i>Festuca arundinaceae</i>	.	.	.	.	S	S
Geranium, Carolina <i>Geranium carolinianum</i>	.	.	S	S	C	C
Henbit <i>Lamium amplexicaule</i>	.	S	C	C	C	C
Ryegrass Italian <i>Lolium multiflorum</i>	.	.	S	C	C	C
Speedwell, corn <i>Veronica arvensis</i>	S	C	C	C	C	C
Vetch, common <i>Vicia sativa</i>	.	.	S	C	C	C

* These rates apply only to sites where an established competitive turf is present.

65 7 98

WEEDS CONTROLLED OR SUPPRESSED
WITH Deploy Dry plus OUST*

NOTE: C = Control
S = Suppression

		Deploy Dry + OUST						
WEED SPECIES	Deploy Dry (OZ/A) ÷ OUST (OZ/A)	3.5	5	5	7	7	5	7
		+	+	+	+	+	+	+
		¼	¼	½	¼	½	1	1
Barley, little <i>Hordeum pusillum</i>		C	C	C	C	C	C	C
Bedstraw, catchweed <i>Galium aparine</i>		C	C	C	C	C	C	C
Bluegrass, annual <i>Poa annua</i>		S	C	C	C	C	C	C
Chervil <i>Chaerophyllum tainturieri</i>		C	C	C	C	C	C	C
Chickweed, common <i>Stellaria media</i>		S	C	C	C	C	C	C
Clover, crimson <i>Trifolium incarnatum</i>		S	S	S	S	C	C	C
Clover, large hop <i>Trifolium campestre</i>		.	.	S	S	S	C	C
Fescue, tall <i>Festuca arundinaceae</i>		S	S
Geranium, Carolina <i>Geranium carolinianum</i>		.	S	S	C	C	C	C
Henbit <i>Lamium amplexicaule</i>		.	S	C	C	C	C	C
Ryegrass, Italian <i>Lolium multiflorum</i>		.	S	S	C	C	C	C
Speedwell, corn <i>Veronica arvensis</i>		S	C	C	C	C	C	C

Vetch, common
Vicia sativa

C C C C C C C

- * These rates or mixtures of rates apply only to sites where an established competitive turf is present.

RELEASE OF ACTIVELY GROWING BERMUDAGRASS

When applied as directed, this product will aid in the release of bermudagrass by providing control of annual species listed in the "Weeds Controlled" section of this and the Oust label, and suppression or partial control of certain perennial weeds.

For control or suppression of those annual species listed on this label, use 7 to 21 ounces of this product as a broadcast spray in 10 to 25 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or length of runner in annual vines). Use the higher rate as weeds increase in size or as they approach flower or seedhead formation.

Use the higher rate of this product for partial control of the following perennial species. Use the lower rates for suppression of growth. For best results, see the "Weeds Controlled" section of this label for proper stage of growth.

Bahiagrass

Paspalum notatum

Bluestem, silver

Andropogon saccharoides

Fescue, tall

Festuca arundinacea

Johnsongrass**

Sorghum halepense

Trumpet creeper*

Carpis radicans

Vaseygrass

Paspalum urvillei

*Suppression at higher rates only.

**Control at the higher rates.

This product may be tank-mixed with Oust. If tank-mixed, use no more than 7 to 14 ounces per acre of this product with 1 to 2 ounces of Oust per acre.

Use the lower rates of both mixtures to control annual weeds below 6 inches in height (or runner length in annual vines) that are listed in the "Weeds Controlled" section of this booklet and the Oust label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages.

Use the higher rates of this product to provide partial control of the following perennial weeds. Use the lower rates for suppression of growth.

Bahiagrass

Paspalum notatum

Bluestem, silver

Andropogon saccharoides

Broomsedge

Andropogon virginicus

Dock, curly

Rumex crispus

Dogfennel

Eupatorium capilliflorum

Fescue, tall

Festuca arundinacea

Johnsongrass*

Sorghum halepense

Poorjoe**

Diodia teres

Trumpetcreeper*

Campsis radicans

Vaseygrass

Paspalum urvillei

Vervain, blue

Verbena hastata

*Suppression at higher rates only.

**Control at the higher rates.

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

recommended, since severe injury may result.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

**COOL SEASON TURF
GROWTH REGULATION (1)**

When applied as directed, this product will suppress growth and seedhead development of listed turf species in industrial sites.

This product is recommended for management of coarse turf on roadside rights-of-way or other industrial areas. Do not use on high-quality turf or other areas where some turf color changes cannot be tolerated. Slight turf discoloration may occur but turf will regreen and regrow under moist conditions as effects of this product wear off.

Apply 1.8 to 2.5 ounces of this product per acre alone or in a recommended tank mixture. Spray volumes of 10 to 40 gallons per acre are recommended.

This product can be used for growth and seedhead suppression of:

- Tall Fescue**
- Smooth Brome**

For best results, apply this product in a recommended tank mixture to actively growing turfgrasses after greenup in the spring of the year. For suppression of seedheads, applications must be made before boot-to-seedhead stage of development. Applications made from seedhead emergence until maturity may result in turf discoloration or injury.

After mowing or removal of seedheads, this product in a recommended tank mixture may also be used to suppress the growth of certain turfgrasses. Allow turf to recover from stress caused by heat, drought, or mowing before making applications. Applications made to turf under stress may increase the potential for discoloration or injury.

ANNUAL GRASSES

For growth suppression of some annual grasses such as annual ryegrass, wild barley and wild oats, apply 1 to 1.8 ounces of this product in 10 to 40 gallons of spray solution per acre. Applications should be made when annual grasses are actively growing and before the seedheads are in the boot stage of

development. Treatments made after seedhead emergence may cause injury to the desired grasses.

TANK MIXTURES

For the following tank mixtures, consult each product label for weeds controlled and the correct stage of application. Do not treat turf under stress.

Tank mixtures plus 2,4-D Amine

For additional weed control benefits, up to 1 pound a.i. per acre of 2,4-D amine may be added to the following tank mixtures. Consult the label for 2,4-D amine for weeds controlled.

TALL FESCUE

Deploy Dry plus Telar™

For suppression of annual weeds, apply this tank mixture

after greenup and prior to boot-to-seedhead stage of development. Use up to one-fourth ounce of Oust per acre.

Deploy Dry plus Escort™

This tank mixture can be applied after mowing or removal of tall fescue seedheads for turf growth suppression and control or partial control of some annual weeds. Use up to one-third ounce of Escort per acre.

NOTE: This product is not registered for use with Escort in California.

SMOOTH BROME

Deploy Dry plus Oust

70 9 98

For suppression of smooth brome growth and seedheads and control or partial control of some annual weeds, apply this tank mixture after greenup and prior to boot-to-seedhead stage of development. Use up to one-fourth ounce of Oust per acre.

(1) This product is not approved for cool season turf growth regulation in California.

**BAHIAGRASS SEEDHEAD AND
VEGETATIVE SUPPRESSION**

When applied as directed in the indicated noncrop areas (roadsides, airports, golf course roughs and plant sites), this product will provide significant inhibition of seedhead emergence and will suppress vegetative growth for a period of approximately 45 days with single applications and approximately 120 days with sequential applications.

Apply this product 1 to 2 weeks after full greenup of bahiagrass or after the bahiagrass has been mowed to a uniform height of 3 to 4 inches. Applications must be made prior to seedhead emergence. Apply 2.5 ounces per acre of this product in 10 to 25 gallons of water per acre.

Sequential applications of this product may be made at approximately 45 day intervals to extend the period of seedhead and vegetative growth suppression. For continued seedhead suppression, sequential applications must be made prior to seedhead emergence. Apply no more than 2 sequential applications per year. As a first sequential application, apply 1.8 ounces of this product per acre. A second sequential application of 1 to 1.8 ounces per acre may be made approximately 45 days after the last application.

A tank mixture of this product plus Oust may be applied only on roadsides for seedhead inhibition and vegetative suppression. Apply 2.5 ounces per acre of this product plus 0.25 ounce per acre of Oust 1 to 2 weeks following an initial spring mowing. When using this product plus Oust for suppression of bahiagrass, make only one application per year.

CROPPING SYSTEMS

When applied as directed for "Cropping Systems", under the conditions described, this product controls annual and perennial weeds listed on this label, prior to the emergence of direct seeded crops or prior to transplanting of crops listed on this label.

See "General Information" and "Mixing, Additives and Application Instructions" sections of this label for essential product performance information.

See the following "Cropping Systems" sections for specific recommended uses.

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

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Except as otherwise specified on this label, repeat treatments must be made before the crop emerges in accordance with the instructions of this label.

Except as otherwise specified in a crop section of this label, the combined total of all treatments must not exceed 7 pounds per acre of this product per year.

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

Do not harvest or feed treated vegetation for 8 weeks following application. Following spot treatment or selective equipment use, allow 14 days before grazing domestic livestock or harvesting forage grasses and legumes.

ROW CROPS

- CORN (ALL) *
- COTTON*
- PEANUTS
- SORGHUM (MILO) *
- SOYBEANS*
- SUGARCANE*

CEREAL GRAINS

BARLEY*
BUCKWHEAT*
MILLET (PEARL, PROSO)*
OATS*
RICE**
RYE*
TRITICALE*
WHEAT (ALL)*
WILD RICE*

CITRUS

CALAMONDIN
CHIRONJA
CITRON
GRAPEFRUIT
KUMQUAT
LEMON
LIME
MANDARIN ORANGE
ORANGE (ALL)
PUMMELO
TANGELO
TANGERINE
TANGORS

TREE NUTS

ALMOND
BEECHNUT
BRAZIL NUT
BUTTERNUT
CASHEW
CHESTNUT
CHINQUAPIN
FILBERT
HAZELNUT
HICKORY NUT
MACADAMIA
PECAN
PISTACHIO
WALNUT (BLACK, ENGLISH)

VINE CROPS

GRAPES
KIWI FRUIT

TREE FRUITS

APPLE
 APRICOTS
 CHERRY (SWEET, SOUR)
 LOQUAT
 NECTARINE
 OLIVE
 PEACH
 PEAR
 PLUM/PRUNE (ALL)
 QUINCE

VEGETABLES

ARTICHOKE, JERUSALEM
 ASPARAGUS*
 BEANS (ALL)
 BEET GREENS
 BEETS (RED, SUGAR)
 BROCCOLI (ALL)
 BRUSSELS SPROUTS
 CABBAGE (ALL)
 CABBAGE, CHINESE
 CANTALOUPE***
 CARROT
 CAULIFLOWER
 CASABA MELON***
 CELERY
 CHARD, SWISS
 CHICORY
 COLLARDS
 CRENSHAW MELON***
 CUCUMBER ***
 EGGPLANT***
 ENDIVE
 GARLIC***
 GOURDS***
 GROUND CHERRY***
 HONEYDEW MELON***
 HONEY BALL MELON***
 HORSERADISH
 KALE
 KOHLRABI
 LEEK
 LENTILS
 LETTUCE
 MANGO MELON***
 MELONS (ALL)***
 MUSKMELON***
 MUSTARD GREENS
 OKRA

ONION
 RAPE GREENS
 PARSLEY
 PARSNIPS
 PEAS (ALL)
 PEPPER (ALL)***
 PERSIAN MELON***
 POTATO (IRISH, SWEET)
 PUMPKIN***
 RADISH
 RHUBARB
 RUTABAGA
 SPINACH (ALL)
 SQUASH (SUMMER, WINTER)***
 TOMATILLO***
 TOMATO*** (+)
 TURNIP
 WATERCRESS***
 WATERMELON***
 YAMS

SMALL FRUITS AND BERRIES

BLACKBERRY
 BLUEBERRY
 BOYSENBERRY
 CRANBERRY
 CURRANT
 DEWBERRY
 ELDERBERRY
 GOOSEBERRY
 HUCKLEBERRY
 LOGANBERRY
 CLALLIEBERRY
 RASPBERRY (BLACK, RED)

FORAGE CROPS AND LEGUMES

ALFALFA*
 FORAGE GRASSES*
 FORAGE LEGUMES*

TROPICAL CROPS

ACEROLA
 ATEMOYA
 AVOCADO
 BANANA (PLANTAINS)
 BREADFRUIT
 CANISTEL
 CARAMBOLA

CHERIMOYA
 COCOA BEANS
 COFFEE
 DATES
 FIGS
 GENIP
 GUAVA
 JABOTICABA
 JACKFRUIT
 LONGAN
 LYCHEE
 MANGO
 MAYHAW
 PAPAYA
 PASSION FRUIT
 PERSIMMONS
 PINEAPPLE****
 POMEGRANATE
 SAPODILLA
 SAPOTE (BLACK, MAMEY, WHITE)
 SOURSOP
 SUGAR APPLE
 TAMARIND
 TEA

- * Spot treatments may be applied in these crops.
- ** Do not treat rice fields or levees when the fields contain flood water.
- *** Apply only prior to planting. Allow at least 3 days between application and planting.
- **** Do not feed or graze treated pineapple forage following application.
- † Use is restricted to direct seeded crops only.

When applying this product prior to transplanting 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 1/2 inch natural rainfall or by applying water via a sprinkler irrigation system.

Spot Treatment (Only those crops with "*" can be spot treated.) Applications in growing crops must be made prior to heading of small grains and milo, initial pod set in soybeans, silking of corn, or boll opening on cotton.

For forage grasses and forage legumes see "Spot Treatment" in the

"Pastures" section of "Cropping Systems" in this label.

For dilution and rates of application using boom or hand-held equipment, see "Mixing, Additives and Application Instructions" and "Weeds Controlled" sections of this label.

NOTE: FOR FORAGE GRASSES AND FORAGE LEGUMES, NO MORE THAN ONE-TENTH OF ANY ACRE SHOULD BE TREATED AT ONE TIME. FOR ALL OTHER CROPS, 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.

Selective Equipment—This product may be applied through recirculating sprayers, shielded applicators, or wiper applicators in cotton and soybeans. Shielded and wiper applicators may also be used in tree crops and grapes. Wiper applicators may be used in rutabagas, forage grasses and forage legumes, including pasture sites and grain sorghum (milo).

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 the following time intervals between application and harvest:

Cotton, Soybeans	7 days
Apples, Atemoya, Avocado, Breadfruit, Canistel, Carambola, Cherry , Citrus, Grapes, Dates, Jaboticaba, Jackfruit, Longan, Lychee, Passion Fruit, Pear, Persimmons, Rutabagas, Sapodilla, Sapote, Soursop, Sugar Apple, Tamarind	14 days
Stone Fruit	17 days
Nut Crops.....	<u>21</u> <u>3</u> days
Sorghum (milo)*	40 days

* Do not use roller applicators. Do not feed or graze treated milo fodder. Do not ensile treated vegetation.

ASPARAGUS

When applied as directed for "Cropping Systems" under the conditions described, this product controls weeds listed on this label in asparagus.

For specific rates of applications and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

Prior to Crop Emergence—Apply this product prior to crop emergence for the control of emerged labeled annual and perennial weeds. DO NOT APPLY WITHIN A WEEK BEFORE THE FIRST SPEARS EMERGE.

Spot Treatment—Apply this product 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.

Postharvest—Apply this product after the last harvest and all spears have been removed. If spears are allowed to regrow, delay application until ferns have developed. Delayed treatments should be applied as 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.

NOTE: Select and use recommended types of spray equipment for postemergence postharvest applications. A directed spray is any application where the spray pattern is aligned in such a way as to avoid direct contact of the spray with the crop. A shielded spray is any application where a physical barrier is positioned and maintained between the spray and the crop to prevent contact of spray with the crop.

BERRIES AND SMALL FRUITS

For cranberries, apply after fruit set and no later than 30 days before harvest.

For other berries, apply as a preplant broadcast application, or as a directed spray or wiper application post-planting.

Wiper applicators may be used in cranberries in accordance with instructions in this section.

See "General Information" and "Mixing, Additives and Application Instructions" sections of this label for essential product performance information.

See the "Selective Equipment" part of the "Application Equipment and Techniques" section of this label for information on recommended use and calibration of this equipment.

Allow a minimum of 14 days between last application and harvest of small fruits and berries.

For Wick or other Wiper Applicators—Mix 3.5 pounds of this product in 4 gallons of water. Apply the solution to emerged weeds. Apply after cranberry fruit set and no later than 30 days before harvest.

In severe infestations, reduce equipment ground speed to ensure that adequate amounts of this product are wiped on the weeds. A second treatment in the opposite direction may be beneficial.

Do not permit herbicide solution to contact desirable vegetation, including green shoots, canes, or foliage.

**FALLOW AND REDUCED
TILLAGE SYSTEMS**

FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO SUPPLEMENTAL LABEL.

Use this product in fallow and reduced tillage systems for control of annual weeds prior to emergence of crops listed in this label. Refer to the "Weeds Controlled" section of this label for specific rates and instructions. This product may be applied using ground or aerial spray equipment. See the "Application Equipment and Techniques" section of this label for instructions.

- **TANK MIXTURES** ■
- **Deploy Dry plus BANVEL** ■
- **DEPLOY DRY plus 2,4-D** ■
- **DEPLOY DRY plus GOAL™** ■

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

Applications of 2,4-D or Banvel must be made at least 7 days prior to planting corn. Refer to the 2,4-D product label for application restrictions prior to planting soybeans.

The addition of Banvel in a mixture with this product may provide short-term residual control of selected weed species. Some crop injury may occur if Banvel is applied within 45 days of planting. Refer to the Banvel and 2,4-D labels for cropping restrictions and other use instructions.

Deploy Dry plus Goal Tank Mixtures

This product alone or in tank mixtures with Goal will provide

control of those weeds listed below.

Make applications when weeds are actively growing and at the recommended stages of growth. Avoid spraying when weeds are subject to moisture stress, when dust is on the foliage or when straw canopy covers the weeds.

Deploy Dry 5 oz/acre

Wheat	18"*
Barley	12"
Bluegrass,	
annual	6"
Barnyardgrass	6"
Rye	6"

Deploy Dry 7 oz/acre

Annual grasses at left plus:

Ryegrass,	
annual	6"
Chickweed	6"
Groundsel	6"
Marestail	6"
Rocket, London	6"
Shepherdspurse	6"
Crabgrass	12"
Johnsongrass,	
seedling	12"
Lambsquarters	12"
Oats, wild	12"
Pigweed, redroot	12"
Mustards	12"

Use 14 ounces of this product per acre where heavy weed densities exist.

Deploy Dry 5 oz/acre
+
GOAL 2 to 4 fluid oz/acre**

Deploy Dry 7 oz/acre
+
GOAL 2 to 4 fluid oz/acre**

Annual grasses above plus:

Cheeseweed, common	3"
Chickweed	3"
Groundsel	3"
Rocket, London	6"
Shepherdspurse	6"

Annual weeds above plus:

Cheeseweed, common	6"
Groundsel	6"
Chickweed	12"
Rocket, London	12"
Shepherdspurse	12"

* Maximum height or length in inches.

** Use the higher rate when weeds approach maximum recommended height or stands are dense.

Use 14 ounces of this product per acre in mixtures with 2 to 4 fluid ounces of Goal per acre where heavy weed densities exist.

These recommended tank mixtures may be applied using ground or aerial spray equipment. Refer to the 'Weeds Controlled' section of this label for specific rates and instructions.

ECOFARMING SYSTEMS

The recommendations made in this section are not registered for use in California.

The Ecofarming System consists of the following rotation: winter wheat, corn/sorghum, ecofallow.

Use the following tank mixtures for control of emerged annual weeds before planting corn or sorghum in the Ecofarming System.

- Deploy Dry at 7 to 9 ounces per acre
- plus
- 2,4-D at 0.375 to 0.5 pound a.i. per acre
- plus
- ATRAZINE at 0.75 to 1 pound a.i. per acre
- plus
- Lasso® at 2.5 to 3 quarts per acre

The above tank mixture should be applied in 28-0-0 or 32-0-0 liquid fertilizer carrier at 20 to 30 gallons per acre. The liquid fertilizer may be diluted with water to achieve the desired carrier volume.

WEEDS CONTROLLED - The following weeds, up to a maximum height of 4 inches, will be controlled:

Brome, downy
Bromus tectorum

Cheat
Bromus secalinus

Foxtail, green
Setaria viridis

Foxtail, yellow
Setaria lutescens

Kochia*
Kochia scoparia

Lettuce, prickly
Lactuca serriola

Pigweed, redroot
Amaranthus retroflexus

Thistle, Russian
Salsola kali

Wheat, volunteer
Triticum aestivum

*For improved control of kochia, add 4 fluid ounces per acre (0.125 pound a.i. per acre) of Banvel to the above tank mixture.

Risk of crop injury from 2,4-D or Banvel can be reduced by applying this treatment 7 to 14 days before planting.

Refer to the label booklet for Lass herbicide for preemergence weed control achieved by this tank mixture.

Refer to the specific product labels for crop rotation restrictions and cautionary statements for all products used in these tank mixtures.

AID TO TILLAGE

This product, when used in conjunction with preplant tillage practices, will provide control of downy brome, cheat, volunteer wheat, tansy mustard and foxtail. Apply 3.5 ounces of this product in 3 to 10 gallons of water per acre. Make applications when weeds are actively growing and before they are 6 inches in height. Application must be followed by conventional tillage practices no later than 15 days after treatment and before

regrowth occurs. Allow at least 1 day after application before tillage. Tank mixtures with residual herbicides may result in reduced performance.

PASTURES

Apply this product prior to planting forage grasses and legumes.

Pasture or Hay Crop Renovation—When applied as a broadcast spray, this product controls the annual and perennial weeds listed in this label prior to planting forage grasses or legumes. Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

Spot Treatment—When applied as a spot treatment as recommended, this product controls annual and perennial weeds listed in this label which are growing in pastures, forage grasses and forage legumes composed of bahiagrass, bermudagrass, bluegrass, brome, fescue, orchardgrass, ryegrass, timothy, wheatgrass, alfalfa or clover.

Wiper Application—When applied as directed, this product controls or suppresses the weeds listed under "Wiper Applicators" in the "Selective Equipment" section of this label.

For spot treatment and wiper application, apply in areas where the movement of domestic livestock can be controlled. No more than one-tenth of any acre should be treated at one time. Further applications may be made in the same area at 30 day intervals. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

SUGARCANE

When applied as directed for "Cropping Systems", under the conditions described, this product controls those emerged annual and perennial weeds listed on this label growing in or around sugarcane or in fields to be planted to sugarcane. This product will also control undesirable sugarcane.

NOTE: Where repeat treatments are necessary, do not exceed a total of 9.4 pounds of this product per acre per year. Do not apply to vegetation in or around ditches, canals or ponds containing water to be used for irrigation.

Broadcast Treatment—Apply this product in 10 to 40 gallons of water per acre on emerged weeds growing in fields to be planted to sugarcane.

For specific rates of application and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

For removal of last stubble or ratoon cane, apply 3.5 to 4.4 pounds of this product in 10 to 40 gallons of water per acre to new growth having at least 7 or more new leaves. Allow 7 or more days after application before tillage.

Spot Treatment in or Around Sugarcane Fields—For dilution and rates of application using hand-held equipment, see "Mixing, Additives and Application Instructions" and "Weeds Controlled" sections of this label.

For control of volunteer or diseased sugarcane, make a mixture of 0.6 ounce of this product per each gallon of spray solution and spray to wet the foliage of vegetation to be controlled.

NOTE: When spraying volunteer or diseased sugarcane, the plants should have at least 7 new leaves.

Avoid spray contact with healthy cane plants since severe damage or destruction may result.

Do not feed or graze treated sugarcane forage following application.

CONSERVATION TILLAGE, MINIMUM TILLAGE AND NO-TILL SYSTEMS
CORN AND SOYBEANS
Tank Mixtures

The recommendations made in this section are not registered for use in California.

When applied as recommended under the conditions described, the tank mixtures listed in this section control many emerged weeds, and give preemergence control of many annual weeds where corn or soybeans will be planted directly into a cover crop, established sod, or in previous crop residues.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures. Use according to the most restrictive label directions for each product in the mixture. For mixing instructions, see the "Mixing, Additives and Application Instructions" section of this label.

Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre before, during or after planting. Do not apply these mixtures after crop emergence.

The addition of 1 to 2 percent dry ammonium sulfate by weight may increase the performance of this product.

NOTE: When using these tank mixtures, do not exceed 3.5 pounds of this product per acre.

CORN

For residual control, this product may be tank-mixed with the following herbicides or combination of herbicides:

- | | |
|----------------|-----------|
| LASSO/ALACHLOR | ATRAZINE |
| MICRO-TECH® | PARTNER® |
| LARIAT | CYANAZINE |
| BULLET® | SIMAZINE |
| DUAL™ | PROWL™ |
| BICEP™ | |

For improved burndown, this product may be tank-mixed with 2,4-D or dicamba. Applications of 2,4-D or dicamba must be made at least 7 days prior to planting corn. See the "Weeds Controlled" section for specific rate information.

SOYBEANS

For residual control, this product may be tank-mixed with the following herbicides or combination of herbicides:

- | | |
|----------------|--------------|
| CANOPY™ | LOROX™ PLUS |
| COMMAND™ | PARTNER |
| DUAL™ | PURSUIT™ |
| GEMINI™ | PURSUIT™PLUS |
| LASSO/ALACHLOR | PREVIEW™ |
| MICRO-TECH ® | PROWL™ |
| SENCOR™ | TURBO™ |
| SQUADRON™ | SCEPTER™ |
| LEXONE™ | LINURON |

For improved burndown, this product may be tank-mixed with the following herbicides:

- 2,4-DB
- 2,4-D*

* See the label for 2,4-D for intervals between application and planting.

CORN AND SOYBEANS

Annual Weeds--For difficult-to-control weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 14 ounces per acre in these tank mixtures. For other labeled annual weeds, apply 7 to 10.5 ounces of this product per acre when weeds are less than 6 inches tall, and 14 to 21 ounces when weeds are over 6 inches tall. For a complete list of annual weeds controlled, see the "Weeds Controlled" section of this label.

Perennial Weeds--At normal application times in minimum tillage systems, perennial weeds may not be at the proper stage of growth for control. See the "Weeds Controlled" section of this label for the proper stage of growth for perennial weeds.

Use of 1.8 to 3.5 pounds of this product per acre in the tank mixtures mentioned above, under these conditions provides top kill and reduces competition from many emerged perennial grass and broadleaf weeds. For emerged perennial weeds controlled, see the "Weeds Controlled" section of this label.

To obtain the desired stage of growth, it may be necessary to apply this product alone in the late summer or fall and then follow with a label-approved, seedling weed control program at planting.

USE OF THESE TANK MIXTURES FOR BERMUDAGRASS OR JOHNSONGRASS CONTROL IN MINIMUM TILLAGE SYSTEMS IS NOT RECOMMENDED. For bermudagrass control, follow the instructions under "Control of Perennial Weeds" section of this label and then use a label-approved, seedling weed-control program in a minimum tillage or conventional tillage system. For Johnsongrass control, follow instructions under "Control of Perennial Weeds" section of this label, and then use a label-approved seedling weed-control program with conventional tillage.

PREHARVEST APPLICATIONS

When applied as directed under the conditions described, this product controls annual and perennial weeds listed on this label prior to the harvest of cotton and soybeans.

SOYBEANS

Apply after pods have set and lost all green color. Allow a minimum of 7 days between application and harvest of soybeans. Care should be taken to avoid excessive seed shatter loss due to ground application equipment.

Do not feed or graze treated areas within 25 days after preharvest application.

DO NOT APPLY MORE THAN 5½ POUNDS PER ACRE OF THIS PRODUCT FOR PREHARVEST APPLICATIONS.

DO NOT APPLY MORE THAN 14 OUNCES PER ACRE OF THIS PRODUCT BY AIR.

For specific rates and application instructions for control of various annual and perennial weeds, see the "WEEDS CONTROLLED" section of this label.

This product may be applied by both ground and aerial application equipment. See the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for instructions for ground and aerial applications.

NOTE: It is not recommended that soybeans grown for seed be treated because a reduction in germination or vigor will occur.

The use of this product for preharvest soybeans is not registered in California.

COTTON

Broadcast Applications--This product may be applied using either aerial or ground spray equipment. For ground applications with broadcast equipment, 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.

FOR AERIAL APPLICATIONS, REFER TO THE "APPLICATION EQUIPMENT AND TECHNIQUES" AND "AERIAL EQUIPMENT" SECTIONS OF THIS LABEL.

FOR AERIAL APPLICATIONS IN CALIFORNIA, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS.

DO NOT EXCEED A MAXIMUM RATE OF 14 OUNCES PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR.

Weed Control--For specific rates of application and instructions for control of various annual and perennial weeds for this product used alone or in the following tank mixtures, see the "Weeds

Controlled" section of this label.

To control johnsongrass using multiple-directed or broadcast over-the-top spray equipment, apply 14 ounces of this product in 10 to 20 gallons of water per acre. Ensure complete coverage.

For partial control of field bindweed, apply 14 ounces of this product in 3 to 20 gallons of water per acre. Apply when bindweed is actively growing and 12 inches or greater in length. Reduced performance may result if bindweed is under drought stress.

TANK MIXTURES

- Deploy Dry plus DEF™ 6
- DEPLOY DRY plus FOLEX™
- DEPLOY DRY plus PREP™
- DEPLOY DRY plus PREP plus DEF 6 or FOLEX

When applied as recommended under the conditions described, these tank mixtures control annual and perennial weeds listed on this label prior to the harvest of cotton. For application guidelines, precautions and userates, refer to the DEF 6, Folex and Prep labels.

This product when tank mixed with DEF 6 or Folex defoliants may provide enhancement of cotton leaf drop and regrowth inhibition.

Timing of Application--Apply this product or these tank mixtures for preharvest weed control after 60 percent of the cotton bolls have opened.

NOTE: DO NOT APPLY TO CROPS GROWN FOR SEED. Allow a minimum of 7 days between application and harvest. Do not feed or graze treated cotton forage or hay following preharvest applications.

TREE AND VINE CROPS

This product is recommended for weed control in established groves, vineyards, and orchards, or for site preparation prior to transplanting crops listed in this section. Applications may be made with boom equipment, CDA, shielded sprayers, hand-held and high-volume wands, lances, or orchard guns, or with wiper applicator equipment, except as directed in this section. See the "Application Equipment and Techniques" section of this label for specific information on use of equipment.

When applying this product, refer to the "Weeds Controlled" section of this label and to specific recommendations in this section for rates to be used.

NOTE

Repeat treatments may be necessary to control weeds originating from underground parts of untreated weeds or from seeds. This product does not provide residual weed control. For subsequent weed control, use repeated applications of this product. Do not apply more than 9.4 pounds of this product per acre per year.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT, OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT, OR OTHER PARTS OF TREES OR VINES. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

AVOID PAINTING OUT STUMPS WITH THIS PRODUCT AS INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR IN ADJACENT TREES.

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.

For specific rates of applications and instructions, see the "Weeds Controlled" section of this label, and to specific recommendations which follow.

MIDDLES MANAGEMENT

FOR ANNUAL WEEDS IN MIDDLES BETWEEN ROWS OF TREE AND VINE CROPS

For citrus crops treat uniformly between trees.

- **Deploy Dry** ■
- **DEPLOY DRY plus GOAL™** ■

This product alone or in mixtures with Goal will control or suppress the annual weeds listed below.

Apply the recommended rates of this product, either alone or in mixtures with Goal in 3 to 10 gallons of water per acre. Apply when weeds are actively growing and less than 6 inches in height or diameter. If weeds are under drought stress, irrigate prior to application. Reduced control may occur if weeds have been mowed prior to application. Up to 21 ounces per acre of this product

may be used to control weeds which have been mowed, are stressed, or are growing in dense populations.

WEED SPECIES	MAXIMUM HEIGHT/DIAMETER (INCHES)	RATE PER ACRE	
		Deploy Dry (OUNCES)	GOAL (FLUID OUNCES)
Barley <i>Hordeum vulgare</i>	6	3.5	--
Bluegrass, annual <i>Poa annua</i>			
Barnyardgrass <i>Echinochloa crus-galli</i>	6	5	--
Chickweed, common <i>Stellaria media</i>			
Red Maids <i>Calandrinia ciliata</i>			
Crabgrass <i>Digitaria spp.</i>	6	7	--
Fleabane, flaxleaf <i>Conyza bonariensis</i>			OR
Groundsel, common <i>Senecio vulgaris</i>		7 to 14	+ 4 to 16**
Junglerice <i>Echinochloa colonum</i>			
Lambsquarters, common <i>Chenopodium album</i>			
Pigweed, redroot <i>Amaranthus retroflexus</i>			
Rocket, London <i>Sisymbrium irio</i>			
Ryegrass, common <i>Lolium multiflorum</i>			
Shepherdspurse <i>Capsella bursa-pastoris</i>			
Sowthistle, annual <i>Sonchus oleraceus</i>			
Cheeseweed, common <i>Malva spp.</i>	3	5 to 14	+ 4 to 16
Cheeseweed, common <i>Malva spp.</i>	6	7 to 14	+ 4 to 16
Filaree* <i>Erodium spp.</i>			

- Horseweed/Marestail
Conyza canadensis
 - Nettle, stinging
Urtica dioica
 - Purselane, common*
Purtulaca oleracea
-

* Suppression only.

**The mixture of this product plus Goal is recommended when weeds are stressed or growing in dense populations.

STRIPS

FOR ANNUAL AND PERENNIAL WEEDS IN STRIPS
OF TREE AND VINE CROPS

■ **TANK MIXTURES WITH RESIDUAL HERBICIDES** ■

When applied as a tank mixture, this product provides control of the emerged annual weeds and control or suppression of emerged perennial weeds listed in this label. The following residual herbicides will provide preemergence control of those weeds listed in the individual product labels.

- Deploy Dry plus GOAL™ 1-6E ■
- DEPLOY DRY plus KARMEK™ DF ■
- DEPLOY DRY plus KROVAR™ I ■
- DEPLOY DRY plus KROVAR™ II ■
- DEPLOY DRY plus SIMAZINE,
PRINCEP CALIBER 90 ■
- DEPLOY DRY plus SIMAZINE 4L ■
- DEPLOY DRY plus SIMAZINE 80W ■
- DEPLOY DRY plus SOLICAM™ 80DF ■
- DEPLOY DRY plus SURFLAN™ AS ■
- DEPLOY DRY plus SURFLAN 75W ■
- DEPLOY DRY plus SIMAZINE
(80W, or 4L, or PRINCEP CALIBER 90)
plus SURFLAN (AS or 75W) ■

- DEPLOY DRY plus GOAL ~~(1.6E)~~ plus SURFLAN (AS or 75W) ■
- DEPLOY DRY plus GOAL ~~(1.6E)~~ plus SIMAZINE (80W, or 4L, or PRINCEP CALIBER 90) ■
- DEPLOY DRY plus GOAL ~~(1.6E)~~ plus SURFLAN (AS or 75W) plus SIMAZINE (80W, 4L, or PRINCEP CALIBER 90) ■

Do not apply these tank mixtures in Puerto Rico.

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

Read and carefully observe the label claims, cautionary statements, rates and all other information on the labels of all products.

RECOMMENDED RATES

Annual Weeds - Apply 14 ounces to 4.4 pounds per acre of this product in these tank mixtures. Use rates at the higher end of the recommended range when weeds are stressed, growing in dense populations or are greater than 12 inches tall.

Perennial Weeds - Apply 7 ounces to 4.4 pounds per acre of this product in these tank mixtures to control or suppress perennial weeds. Follow the recommendations in the "Weeds Controlled" section of this label for stage of growth and application rates for specific perennial weeds.

■ **DEPLOY DRY plus GOAL plus SIMAZINE/SURFLAN** ■

This product plus low rates of Goal in three-way or four-way mixtures with simazine and/or Surflan will provide postemergence control of the weeds listed below.

Refer to the individual simazine and Surflan labels for preemergence rates, weeds controlled, precautionary statements and other important information.

Apply these tank mixtures in 3 to 40 gallons of water.

Apply 14 ounces to 4.4 pounds per acre of this product plus 4 to

48 fluid ounces per acre of Goal plus labeled rates of simazine and/or Surflan to control the following weeds:

- Barley, wild**
Hordeum leporinum
- Bluegrass, annual**
Poa annua
- Cheeseweed, common**
Malva spp.
- Chickweed, common**
Stellaria media
- Filaree***
Erodium spp.
- Fleabane, flaxleaf**
Conyza bonariensis
- Groundsel, common**
Senecio vulgaris
- Horseweed/Marestail**
Conyza canadensis
- Nettle, stinging**
Urtica dioica
- Pineappleweed**
Matricaria matricariodes
- Rocket, London**
Sisymbrium irio
- Shepherdspurse**
Capsella bursa-pastoris
- Sowthistle, annual**
Sonchus oleraceus

*Use a minimum of 21 ounces of this product in these mixtures.

NOTE: This recommendation does not preclude the use of Goal in these mixtures at higher, labeled rates for preemergence weed control.

■ PERENNIAL GRASS SUPPRESSION ■
ORCHARD FLOORS

When applied as directed, this product will suppress vegetative growth as indicated below.

Bahiagrass

This product will provide significant inhibition of seedhead emergence and will suppress vegetative growth for a period of approximately 45 days with a single application and approximately 120 days with sequential applications. Apply this product 1 to 2

weeks after full green-up or after mowing to a uniform height of 3 to 4 inches. Applications must be made prior to seedhead emergence. Apply 2.5 ounces of this product in 10 to 25 gallons of water per acre.

Sequential applications of this product may be made at approximately 45-day intervals to extend the period of seedhead and vegetative growth suppression. For continued seedhead suppression, sequential applications must be made prior to seedhead emergence. Apply no more than 2 sequential applications per year. As a first sequential application, apply 1.8 ounces of this product. A second sequential application of 1 to 1.8 ounces may be made approximately 45 days after the last application.

Bermudagrass

For burndown, apply 14 to 28 ounces of this product in 3 to 20 gallons of water per acre. Use 14 ounces of this product in 3 to 20 gallons of water per acre east of the Rocky Mountains. Use 14 to 28 ounces of this product in 3 to 10 gallons of water per acre west of the Rocky Mountains. 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.

Suppression only (east of the Rocky Mountains)—Apply 2.5 to 7 ounces of this product in 3 to 20 gallons of water per acre no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Rates of 2.5 to 4.5 ounces of this product should be used in shaded conditions or where a lesser degree of suppression is desired. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated.

Suppression only (west of the Rocky Mountains)—Apply 7 ounces of this product in 3 to 10 gallons of water per acre to bermudagrass up to 6 inches in height and no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated.

Cool Season Grass Covers

For suppression of tall fescue, fine fescue, orchardgrass and quackgrass, apply 3.5 ounces of this product in 10 to 20 gallons of water per acre. For best suppression, add ammonium sulfate to the spray solution at a rate of 2 percent by weight or 17 pounds per 100 gallons of spray solution.

TREE CROPS

Citrus**:** calamondin, chironja, citron, grapefruit, kumquat, lemon, lime, mandarin, orange, pummelo, tangelo, tangerine, tangors.

Nuts:** almond, beechnut, Brazil nut, butternut, cashew, chestnuts, chinquapin, filbert, hazelnut, hickory nut, macadamia, pecan, pistachio, walnut.

Pome Fruit*: apple, loquat, mayhaw, pear, quince.

Stone Fruit*:** apricots, cherries, nectarines, olives, peaches, plums/prunes.

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

For citron and olives, apply as a directed spray only.

Any application equipment listed in this section may be used in apricots, nectarines, peaches, and plums/prunes growing in Arizona, California, Colorado, Idaho, Kansas, Kentucky, New Jersey, North Dakota, Oklahoma, Oregon, Texas, Utah, and Washington, except for peaches grown in the states specified in the following paragraph. In all other states use wiper equipment only.

For PEACHES grown in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, and Tennessee only, apply with a shielded boom sprayer or shielded wiper applicator which prevents any contact of this product with the foliage or bark of trees. Apply no later than 90 days after first bloom. Applications made after this time may result in severe damage. Remove suckers and low hanging limbs at least 10 days prior to application. Avoid applications near trees with recent pruning wounds or other mechanical injury. Apply only near trees which 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.

Tropical Fruit: acerola*, atemoya*, avocado*, banana (plantains)****, breadfruit*, canistel*, carambola*, cherimoya* cocoa bean*, coffee****, dates*, figs*, genip*, guava****, jaboticaba*, jackfruit*, longan*, lychee*, mango*,

mayhaw*, papaya****, passion fruit*, persimmons*, pomegranate*, sapodilla*, sapote*, soursop*, sugar apple*, tamarind*, tea*. In coffee and banana, delay applications 3 months after transplanting to allow the new coffee or banana plant to become established.

NOTE:

- * Allow a minimum of 14 days between last application and harvest.
- ** Allow a minimum of 21 3 days between last application and harvest of these crops.
- *** Allow a minimum of 17 days between last application and harvest.
- **** Allow a minimum of 28 days between last application and harvest.
- ***** Allow a minimum of 1 day between last application and harvest.

VINE CROPS

Kiwi Fruit

Grapes: Any variety of table, wine, or raisin grape may be treated with any equipment listed in this section.

Applications should not be made when green shoots, canes, or foliage are in the spray zone.

Allow a minimum of 14 days between last application and harvest.

In the northeast and Great Lakes regions, applications must be made prior to the end of bloom stage of grapes to avoid injury.

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