# <u>Specimen Label</u>



## Herbicide

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A non-selective broad spectrum systemic herbicide for control of annual and perennial weeds and woody plants in noncrop areas and industrial sites, such as utility, railroad and roadside rightsof-way, airports, natural and production (plantations) forests for site preparation, mid-rotation release treatments, and timber stand improvement activities, wildlife and habitat management areas, wildlife openings, natural areas, such as wildlands, campgrounds, parks and recreational areas, wildlife refuges, rangeland and in and around seasonally dry wetlands including ditchbanks, dry ditches and dry canals and grazed areas on listed noncrop sites

Avoid contact of herbicide with foliage, green stems, exposed non-woody roots or fruit of crops, desirable plants and trees, because severe injury or destruction may result.

Active Ingredient:

glyphosate: N-(phosphonomethyl)glycine,

dimethylamine salt	50.2%
Other Ingredients	49.8%
Total	

Contains 5.07 lb per gallon glyphosate, dimethylamine salt (4 lb per gallon glyphosate acid).

## **Precautionary Statements**

Hazards to Humans and Domestic Animals

EPA Reg. No. 62719-556

## CAUTION

Causes Moderate Eye Irritation • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals Avoid contact with eyes or clothing.

## Personal Protective Equipment (PPE)

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

## Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as natural rubber
- Shoes plus socks

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

## Engineering Controls

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

## **User Safety Recommendations**

Users should:

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

## First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

If on skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

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.

## **Environmental Hazards**

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

## Physical or Chemical Hazards

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

Do not mix, store or apply this product or spray solutions of this product in galvanized steel or unlined steel (except stainless steel) containers or spray tanks. This product, or spray solutions of this product react with such containers and tanks to produce hydrogen gas that may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

## Directions for Use

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

Read all Directions for Use carefully before applying.

#### This is an end-use product. Dow AgroSciences does not intend and has not registered it for reformulation.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

## **Agricultural Use Requirements**

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

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

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

- Coveralls
- Chemical-resistant gloves made of any waterproof material such as natural rubber
- Shoes plus socks

## **Non-Agricultural Use Requirements**

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

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

## Storage and Disposal

**Pesticide Storage**: Do not contaminate water, food, feed or seed by storage or disposal.

**Pesticide Disposal:** Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures. Emptied container contains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

#### Nonrefillable containers 5 gallons or less:

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

#### Refillable containers larger than 5 gallons:

**Container Handling:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

#### Nonrefillable containers 5 gallons or larger:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

## **Product Information**

Accord<sup>®</sup> XRT II herbicide is a broad spectrum, systemic, postemergence herbicide with no soil residual activity. It is intended for control of annual and perennial weeds and woody plants and brush. It is formulated as a water soluble liquid containing surfactant; no additional surfactant is needed.

**Time to Symptoms:** The active ingredient in 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 two to four days, but on most perennial weeds visible effects may not occur for seven days or more. Extremely cool or cloudy weather following treatment may slow activity of this product and delay development of visual symptoms. Visible effects are a gradual wilting and yellowing of the plant that advances to complete browning of above ground growth and deterioration of underground plant parts.

**Stage of Weeds:** Annual weeds are easiest to control when they are small. Best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity.

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

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

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

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

**Maximum Application Rates:** The maximum application rates specified in this label are given in units of volume, either fluid ounces, pints or quarts, of this product per acre. The maximum allowed application rates apply to this product combined with the use of any and all other glyphosate-containing herbicides, either applied separately or in a tank mix, on the basis of total pounds of glyphosate (acid equivalents) per acre. If more than one glyphosate-containing product is applied to the same site within the same year, ensure that the total of pounds acid equivalent gyphosate does not exceed the maximum allowed. Do not apply more than 7 quarts (8 lb glyphosate acid) of this product per acre per year.

## **Herbicide Resistance Management**

Glyphosate, the active ingredient in this product, is a group 9 herbicide (inhibitor of EPSP synthase). Some naturally occurring weed biotypes that are tolerant (resistant) to glyphosate may exist due to genetic variability in a weed population. Where resistant biotypes exist, the repeated use of herbicides with the same mode of action can lead to the selection for resistant weeds. Certain agronomic practices reduce the likelihood that resistant weed populations will develop, and can be utilized to manage weed resistance once it occurs.

## To delay the selection for glyphosate resistant weeds, use the following practices:

- Scout fields before and after application to detect weed escapes or shifts in weed species.
- Start with a clean field by applying a burndown herbicide or by tillage.
- Control weeds early when they are small.
- Add other herbicides, such as a selective and/or a residual herbicide, and cultural practices, such as tillage or crop rotation, where appropriate.
- Use the application rate for the most difficult to control weed in the field. Do not tank mix with other herbicides that reduce this product's efficacy through antagonism or with ones that encourage application rates of this product below those specified on this label.
- Control weed escapes and prevent weeds from setting seeds.
  Before moving from one site to another, clean equipment to minimize
- the spread of weed seeds or plant parts.
- Use new commercial seed that is as free of weed seed as possible.
- Report any incidence of repeated non-performance of this product against a particular weed species to the local retailer, county extension agent, or Dow AgroSciences representative.

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

- Tank mix this product or apply it sequentially with an appropriately labeled herbicide with a different mode of action to achieve control if a naturally occurring resistant biotype is present in the field.
- Cultural and mechanical control practices, such as crop rotation or tillage, may also be used.
- To control weed escapes, including resistant biotypes, before they set seed, scout treated fields after applying this product.
- Thoroughly clean equipment before leaving any site known to contain resistant biotypes.

Because the presence of glyphosate resistance in weed populations is difficult to detect prior to use, Dow AgroSciences accepts no liability for any losses that may result from the failure of this product to control glyphosate-resistant weeds.

## Control and Management of Glyphosate-Resistant Ryegrass (Not for Use in California)

**Preemergence:** To control other emerged weeds, apply this product in a tank mix with a preemergence herbicide labeled for control of ryegrass.

**Preemergence and Postemergence:** To control other emerged weeds, apply this product in a tank mix with a residual preemergence herbicide and a postemergence herbicide (other than glyphosate) labeled for control of ryegrass. Apply before ryegrass is more than 4 inches in height.

**Postemergence:** To control other emerged weeds, apply this product in a tank mix with another postemergence herbicide labeled for control of ryegrass. Apply before ryegrass is more than 4 inches in height.

Not all herbicides are registered in each state or for all use sites (orchards, noncrop areas, or ditch banks) or crops for the management of ryegrass. When using this product in a tank mix, refer to each product's label and observe the most restrictive label's precautions and limitations.

## Attention

Avoid contact of herbicide with foliage, green stems, exposed non-woody roots or fruit of crops, desirable plants and trees, because severe injury or destruction may result.

## AVOID DRIFT. Use extreme care when applying this product to prevent injury to desirable plants and crops.

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing or when there are other meteorological conditions that favor spray drift. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. **Avoid applying at excessive speed or pressure.** 

**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.

## **Spray Drift Management**

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

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

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

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

#### Aerial Drift Reduction Advisory

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

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

#### **Controlling Droplet Size:**

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** Do not exceed the nozzle manufacturer's recommended pressures. Use the lower spray pressures for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles Use the minimum number of nozzles that provide uniform coverage.

- **Nozzle orientation** Orienting nozzles so that the spray is parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

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

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

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

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

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

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

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

## **Mixing Directions**

Use only clean, stainless steel, fiberglass, plastic or plastic-lined steel containers to mix, store and apply spray solutions of this product. Clean sprayer parts immediately after using this product by thoroughly flushing with water.

Eliminate any risk of siphoning the contents of the tank mix back into the carrier source while mixing. Use approved anti-back-siphoning devices where required by state or local regulations.

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

## Accord XRT II - Alone

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

- 1. Fill the mixing or spray tank with the required amount of clean water.
- 2. Add the specified amount of this product near the end of the filling process and mix well.
- During mixing and application, foaming of the spray solution may occur. To prevent or minimize foaming, 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.

## Accord XRT II – Tank Mix

This product does not provide residual weed control. For residual weed control or an alternate mode of action, tank mix this product with other herbicides. Read and carefully observe the precautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive label directions for each product in the mixture.

The user is responsible for ensuring that the specific application being made is included on the label of the product used in the tank mix when a tank mixture with a generic active ingredient, such as 2,4-D, atrazine, dicamba, diuron, or pendimethalin, is listed in the label.

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 specified in this labeling. Mixing this product with herbicides or other materials not specified on this label may result in reduced performance.

For tank mixes of this product, read all individual product labels for all products in the tank mix and observe all precautions and restrictions on the label. Add the tank mix product to the tank as directed by the label. Maintain agitation and add the required amount of this product.

Maintain good agitation at all times until the contents in the tank are sprayed. If the mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying resumes. Keep the bypass line on or near the bottom of the tank to minimize foaming. The screen size in the nozzle or line strainers should be no finer than 50 mesh.

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

#### **Hand-Held Sprayers**

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

Spray Concentration	Amount of This Product for Desired Volume		
(percent)	1 gal	25 gal	100 gal
0.5	2/3 fl oz	1 pt	2 qt
0.75	1 fl oz	24 fl oz	3 qt
1	1 1/3 fl oz	1 qt	1 gal
1.5	2 fl oz	1 1/2 qt	1 1/2 gal
2	2 2/3 fl oz	2 qt	2 gal
3.75	5 fl oz	3 3/4 qt	3 3/4 gal
5	6 1/2 fl oz	5 qt	5 gal
10	13 fl oz	10 qt	10 gal

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

#### **Colorants or Dyes**

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

## **Application Equipment and Application Methods**

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

This product may be applied with the following application equipment. Apply spray solutions in properly maintained and calibrated equipment capable of delivering desired volumes.

#### **Aerial Application**

## Do not apply this product using aerial spray equipment except under conditions as specified within this label.

For aerial application in California, refer to the supplemental label entitled for aerial applications in that state for specific instructions, restrictions and requirements.

**Avoid drift.** Do not apply when winds are gusty or under any other condition which favors drift. Drift may cause damage to any vegetation contacted to which treatment is not intended. To prevent injury to adjacent desirable vegetation, maintain appropriate buffer zones.

Do not directly apply to any body of water.

Use the specified rates of this herbicide in 3 to 25 gallons of water per acre unless otherwise specified on this label. Refer to the specific use directions of this label for volumes and application rates.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations that dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure. A drift control additive may be used. When a drift control additive is used, carefully read and observe the precautionary statements and all other information specified 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 components are most susceptible.** The maintenance of an organic coating (paint), which meets aerospace specification MIL-C-38413, may prevent corrosion.

## **Ground Application**

Apply the specified rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified on this label. Increase the spray volume with the rate range as density of weeds increases to ensure complete coverage. In order not to spray a fine mist, carefully select proper nozzles. Use flat fan nozzles for best results with ground application equipment. Check spray pattern for uniform distribution of spray droplets.

#### Hand-Held and Backpack Application

Apply to foliage of vegetation to be controlled. Do not spray to the point of runoff for applications made on a spray to wet basis. Use coarse sprays only. For low volume directed spray applications, spray coverage should be uniform with at least 50 percent of the foliage contacted. For best results, cover the top one-half of the plant. To ensure adequate spray coverage, spray both sides of large or tall woody brush and trees, when foliage is thick and dense, or where there are multiple sprouts.

#### **Selective Equipment**

This product may be diluted with water and applied through shielded applicators, hooded sprayers, wiper applicators or sponge bars to weeds listed on this label growing in any noncrop site specified on this label. Avoid contact of herbicide with desirable vegetation as serious injury or death is likely to occur.

Adjust application equipment used above desired vegetation so that the lowest spray stream or wiper contact is at least 2 inches above the desirable vegetation. Droplets, mist, foam, or splatter of the herbicide settling on desirable vegetation is likely to result in discoloration, stunting or destruction.

Better results are 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 weeds varies so that not all weeds are contacted. If this occurs, repeat treatment may be necessary.

#### Shielded and Hooded Applicators

A shielded or hooded applicator directs the herbicide solution onto weeds while shielding desirable vegetation from the herbicide. Use nozzles that provide uniform coverage within the treated area. Keep shields on these sprayers adjusted to protect desirable vegetation. **Exercise extreme care to avoid contact of herbicide with desirable vegetation.** 

#### 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.

Adjust application equipment used over the top of desirable vegetation so that the wiper contact point is at least 2 inches above the desirable vegetation. Better results are obtained when more of the weed is exposed to the herbicide solution. Weeds should be a minimum of 6 inches above the desirable vegetation. Adjust the applicator height to ensure adequate contact with weeds as weeds not contacted by the herbicide solution will not be affected. Poor contact may occur when weeds are growing in dense clumps, in severe weed infestations, or when weed height varies dramatically. If this occurs, repeat treatment may be necessary.

Operate this equipment at ground speeds no more 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.

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

Do not use wiper equipment when weeds are wet.

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

#### **Rope or Sponge Wick Applicators**

Use 25 to 70 percent solutions of this product in water.

#### **Panel Applicators and Pressure Feed Systems**

Solutions ranging from 25 to 100 percent of this product in water may be used.

This product controls the following weeds when applied as directed: corn, volunteer sicklepod

corn, volunteer		
panicum, Texas		
rye, common		
shattercane		

This product suppresses the following weeds when applied as directed:

smutgrass

sunflower

Spanishneedles

raqweed. common

starbur, bristly

ragweed, giant

thistle, Canada

thistle, musk

vaseygrass

velvetleaf

beggarweed, Florida bermudagrass dogbane, hemp dogfennel guineagrass johnsongrass milkweed nightshade, silverleaf pigweed, redroot

#### Injection Systems

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

#### **CDA Equipment**

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

Controlled droplet application equipment produces a spray pattern that is not easily visible. Exercise extreme care to avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation, as damage or destruction may result.

#### **Use Sites**

Use this product in noncrop areas, such as airports, apartment complexes, Christmas tree farms, commercial sites, Conservation Reserve Program (CRP) areas, ditch banks, driveways, dry ditches, dry canals, fencerows, golf courses, greenhouses, industrial sites, landscape areas, lumber yards, manufacturing sites, municipal sites, natural areas, office complexes, ornamentals, parks, parking areas, pastures, petroleum tank farms and pumping installations, plant nurseries, public areas, railroads, rangeland, recreation areas, rights-of-way, roadsides, shadehouses, sod or turf seed farms, sports complexes, storage areas, substations, turfgrass areas, utility sites, warehouse areas and wildlife management areas.

This product may also be used in non-food crop sites, such as Christmas tree farms, plant nurseries, and sod or turf seed farms.

Apply this product to control any weeds listed in the Weeds Controlled section of the label unless otherwise specified.

## **Cut Stump**

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

alder	reed, giant
eucalyptus	saltcedar
madrone	sweetgum
oak	tan oak
pepper, Brazilian	willow
pine, Austrian	

#### **Precautions and Restrictions:**

- Do not make cut stump applications when the roots of desirable woody brush or trees may be grafted to the roots of the cut stump. Some sprouts, stems, or trees may share the same root system.
- Adjacent trees that are of a similar age, height and spacing may indicate shared roots.
- Injury is likely to occur to non-treated stems or trees when one tree or more that shares a common root is treated.

## **Forestry Site Preparation**

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

In forestry sites, use this product in site preparation prior to planting any tree species including Christmas trees, eucalyptus, hybrid tree cultivars and silvicultural nursery sites.

Use a higher rate in the rate range for control or partial control of woody brush, trees and hard to control perennial herbaceous weeds. For best results, apply to actively growing woody brush and trees after full leaf expansion and before fall color and leaf drop. Use increased rates within the rate range to control perennial herbaceous weeds from emergence up to the appearance of seedheads, flowers or berries.

Use a lower rate in the rate range to control annual herbaceous weeds and actively growing perennial herbaceous weeds after seedheads, flowers or berries appear. Apply to foliage of actively growing annual herbaceous weeds anytime after emergence.

#### **Tank Mixes**

This product may be used in tank mix combination with other herbicide products to broaden the spectrum of vegetation controlled. When tank mixing, read and observe applicable use directions, precautions and limitations on the respective product labels. Use according to the most restrictive precautionary statements for each product in the mixture.

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

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

Arsenal Applicators Concentrate	Garlon 4
Chopper	Landmark XP
Escort	Oust
Escort XP	Oust XP
Garlon 3A	Westar

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

#### Precautions and Restrictions:

 Do not apply this product as an over the top broadcast spray for forestry conifer or hardwood release unless otherwise specified on this label.

## **Noncrop Areas and Industrial Sites**

#### Tank Mix Products for Noncrop Areas

See the rate tables in the Annual Weeds, Perennial Weeds, and Woody Brush and Trees sections for specific application rates. For improved results, apply 4 to 7 quarts of this product per acre may be used for difficult to control species, where dense stands occur, or where conditions for control are not ideal. The following herbicides, when applied as a tank mix, provide preemergence and/or postemergence control of the weeds listed in the individual product labels.

The following list of products may be tank mixed with this product provided that the product is labeled for use on the target site. Any specified rate of this product may be used in a tank mix with these products. Refer to the product labels for specified sites and application rates.

Tank Mix Product	Rate per Acre
Arsenal <sup>1</sup>	0.5 – 4 pints
2,4-D	0.5 – 1 İb
Garlon 3A	1 – 6 pints
Garlon 4	1 – 6 pints
diuron	4 – 8 İb
diuron + 2,4-D	4 – 8 lb + 0.5 – 1 lb
diuron + Garlon 3A	4 – 10 lb + 1 – 2 pints
diuron + Garlon 4	4 – 10 lb + 1 – 2 pints
Hyvar X	4 – 8 lb
Hyvar X + 2,4-D	4 – 8 lb + 0.5 – 1 lb
Hyvar X + Garlon 3A	4 – 8 lb + 1 – 2 pints
Hyvar X + Garlon 4	4 – 8 lb + 1 – 2 pints
Krovar I DF	4 – 6 lb
Krovar I DF + 2,4-D	4 – 6 lb + 0.5 – 1 lb
Krovar I DF + Garlon 3A	4 – 6 lb + 1 – 2 pints
Krovar I DF + Garlon 4	4 – 6 lb + 1 – 2 pints
Oust	2 – 6 oz
Oust + 2,4-D	2 – 6 oz + 0.5 – 1 lb
Oust + Garlon 3A	2 – 6 oz + 1 – 2 pints
Oust + Garlon 4	2 – 6 oz + 1 – 2 pints
Spike 80W	2 – 5 lb
Spike 80W + 2,4-D	2 – 5 lb + 0.5 – 1 lb
Spike 80W + Garlon 3A	2 – 5 lb + 1 – 2 pints
Spike 80W + Garlon 4	2 – 5 lb + 1 – 2 pints
<sup>1</sup> Arsenal is not approved for use in	the state of California.

<sup>1</sup>Arsenal is not approved for use in the state of California.

Read and carefully follow the label claims, precautionary statements, specified use rates and all other information on the labels of the products used in the tank mix. Use according to the most restrictive label directions for each product in the mixture.

During the mixing process and during application, maintain good agitation at all times. Ensure that the tank mix product(s) is well mixed with the spray solution before adding this product. Mix only the amount of spray solution that will be used during the same day. Reduced weed control may result if a tank mixture is allowed to stand overnight. If the spray mix is allowed to settle, thorough agitation is required to resuspend the mixture before spraying is resumed.

#### Weed Control, Trim and Edge, and Bare Ground

This product may be used in general noncrop and non-food areas. It may be applied with any application equipment described in this label. This product may be used to trim and edge around objects in noncrop sites, for spot treatment of unwanted vegetation, and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. This product may be used prior to planting an area to ornamentals, flowers, turfgrass (sod or seed), or prior to laying asphalt or beginning construction projects.

To maintain bare ground, repeated applications of this product may be used.

**Tank Mixes:** The following products may be tank mixed with this product provided that the product is labeled for application at the use site. Refer to the label of the tank mix partner for use sites and applications rates.

Arsenal	Garlon 4	Plateau
atrazine	Karmex DF	Poast
Barricade 65WG	Krovar I DF	Princep DF
Certainty	Landmark II MP	Princep 4L
Crossbow L	Landmark MP	Ronstar 50WP
dicamba <sup>1</sup>	Landmark XP	Sahara
diuron <sup>1</sup>	Milestone	simazine <sup>1</sup>
Endurance	Oust	Telar
Escort	Oust XP	Transline
Goal 2XL	Outrider	Vanquish
Escort XP	Pendulum 3.3 EC	Velpar DF
Gallery 75DF	Pendulum WDG	Velpar L
Garlon 3A	pendimethalin	2,4-D
<b>4 - - - - - - - - - -</b>		

<sup>1</sup>Tank mixes with products containing this single active ingredient may be made provided the specific product is labeled for application at the use site.

This product provides control of emerged annual weeds and control or partial control of emerged perennial weeds, woody brush and trees when applied in a tank mix to bare ground.

To control or partially control the following perennial weeds, apply 1.5 to 3 pints of this product plus 2 to 4 oz of Oust or Oust XP per acre.

bahiagrass	fescue, tall
bermudagrass	johnsongrass
broomsedge	poorjoe
dallisgrass	quackgrass
dock, curly	vaseygrass
dogfennel	vervain, blue

#### **Precautions and Restrictions:**

• Do not aerially apply this product in a tank mix with dicamba in California.

#### **Chemical Mowing**

**Perennials:** This product suppresses perennial grasses listed in this section to serve as a substitute for mowing. Apply this product at a rate of 6 fl oz per acre to treat tall fescue, fine fescue, orchardgrass, quackgrass or reed canarygrass covers. Use 4.6 fl oz of this product per acre when treating Kentucky bluegrass. Apply treatments in 10 to 40 gallons of spray solution per acre. Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

**Annuals:** For growth suppression of some annual grasses, such as annual ryegrass, wild barley and wild oats growing in coarse turfgrass on roadsides or other industrial areas, apply 3 to 3.75 fl oz of this product in 10 to 40 gallons of spray solution per acre. Apply when annual grasses are actively growing and before the seedheads are in the boot stage of development. Treatments may cause injury to the desired grasses.

## Turfgrass

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

Apply 6 to 48 fl oz of this product per acre in 10 to 40 gallons of water per acre. Use only in areas where bermudagrass or bahiagrass are desirable groundcovers and where some temporary injury or discoloration can be tolerated.

Treatments in excess of 12 fl oz per acre may result in injury or delayed greenup in highly maintained areas, such as golf courses and lawns.

#### Precautions and Restrictions:

• Do not apply tank mixes of this product plus Oust in highly maintained turfgrass areas.

Actively Growing Bermudagrass: This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. Use only in areas where some temporary injury or discoloration can be tolerated.

#### **Precautions and Restrictions:**

- Do not apply more than 12 fl oz of this product per acre in highly maintained turfgrass areas.
- Do not apply tank mixtures of this product plus Oust or Oust XP in highly maintained turfgrass areas.

#### Turfgrass Renovation, Seed, or Sod Production

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

Desirable turfgrasses may be planted following the above procedures.

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

#### **Precautions and Restrictions:**

- Do not disturb soil or underground plant parts before treatment.
- Delay tillage or renovation techniques, such as vertical mowing, coring or slicing, for seven days after application to allow translocation into underground plant parts.
- If the application rate used is 2 quarts or less per acre, no waiting period is required between treatment and feeding or grazing livestock.
- If the application rate used is more than 2 quarts per acre, remove livestock before applying this product and wait 8 weeks after applying before resuming grazing or harvesting.

## **Glyphosate-Resistant Horseweed**

#### (Not for Use in California)

Use this product to control and manage glyphosate-resistant horseweed (marestail, *Conyza canadensis*). Apply 24 fl oz of this product per acre before marestail is more than 6 inches in height. Make applications when horseweed is still in the rosette stage of growth to enhance control.

**Tank Mixes:** The following products may be tank mixed with this product provided that the product is labeled for application at the target site. Refer to the label of the tank mix partner for use sites and applications rates. Read and carefully follow the label directions on the tank mix partner. Use according to the most restrictive precautionary statements for each product in the mixture.

2,4-D<sup>1</sup> Crossbow L dicamba<sup>1</sup> Gallery 75 DF Krovar I DF Landmark II MP Landmark MP Milestone Overdrive

Transline Vanquish Velpar DF

Telar DF

<sup>1</sup>Tank mixes with products containing this generic active ingredient may be made provided the specific product is labeled for application on the use site.

## **Habitat Management**

## Habitat Restoration and Management

This product may be used to control exotic and other undesirable vegetation in habitat management and natural areas, including rangeland and wildlife refuges. Apply to allow recovery of native plant species, prior to planting desirable native species, and for similar broad spectrum vegetation control requirements. Apply spot treatments to selectively remove unwanted plants for habitat maintenance and enhancement.

## Wildlife Food Plots

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

## **Hollow Stem Injection**

Apply this product through hand-held injection devices that deliver the specified amount of this product into targeted hollow stem plants growing in any noncrop site listed on this label. To control the following hollow stem plants, follow the use directions below:

Tai	rget Plants				
Common Name	Scientific Name	Use Directions			
castorbean	Ricinus communis	Inject 4 mL of this product per plant into the lower portion of the main stem			
hemlock poison	Conium maculatum	Inject one leaf cane per plant, 10 to 12 inches above the root crown, with 5 mL of a 5 percent by volume solution of this product.			
hogweed, giant	Hercleum mantegazzianum	Inject one leaf cane per plant 12 inches above the root crown with 5 mL of a 5 percent by volume solution of this product.			
horsetail field	Equisetum arvense	Inject one segment above the root crown with 0.5 mL of this product per stem using a low volume syringe capable of accurately delivering this amount of product.			
knotweed, bohemian	Polygonum bohemicum	Inject 5 mL of this product per stem between the second and third internode.			
knotweed, Japanese	Polygonum cuspidatum				
reed, giant	Arundo donax	Inject 6 mL of this product per stem between the second and third internode.			
thistle, Canada	Circisum arvense	Cut 8 to 9 of the tallest plants at bud stage in a clump with clippers. Use a cavity needle pushed into the stem center and then slowly removed as 0.5 mL of this product per stem is injected into the stem.			

#### **Precautions and Restrictions:**

 Do not apply more than a total of 8 quarts of this product per acre for all treatments combined. At 5 mL per stem, 8 quarts will treat approximately 1300 stems per acre.

## Injection and Frill (Woody Brush and Trees)

This product may be used to control woody brush and trees by injection or frill applications. Apply this product using suitable equipment that penetrates into the living tissue. Apply the equivalent of 1 mL of this product per each two to three inches of trunk diameter at breast height (DBH). This is best achieved by applying a 50 to 100 percent concentration of this product either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Do not make any applications that allow runoff to occur from frilled or cut areas in species that exude sap freely. In species such as this, make the frill or cuts at an oblique angle to produce a cupping effect and use a 100 percent undiluted concentration of this product. For best results, apply during periods of active growth and after full leaf expansion. This product controls many species; some of these species are listed below.

Control	Partial Control
oak poplar sweetgum sycamore	black gum dogwood hickory maple, red

## Non-Food Tree, Shrub, or Vine Production Sites (Not for Use in California)

**Types of Applications:** Site preparation, post-directed, trim and edge, wiper application

This product may be used for general weed control prior to the planting of and around established ornamentals or any woody tree, shrub, or vine species including arborvitae, azalea, boxwood, crabapple, eucalyptus, euonymus, fir, douglas fir, jojoba, hollies, lilac, magnolia, maple, oak, poplar, privet, pine, spruce and yew, growing in plant nurseries, on Christmas tree farms, or on other non-food tree production sites.

Do not use this product as an over the top broadcast spray in ornamentals and Christmas trees unless otherwise directed. Take care to avoid contact of spray, drift, or mist with foliage or green bark of desirable ornamental species. Use this product to control weeds growing in and around greenhouses and shadehouses. During application, desirable vegetation must not be present. Air circulation fans must be turned off until after the application has dried.

#### Site Preparation

Use this product prior to planting any tree, shrub or vine, including Christmas tree species, in a nursery or production setting.

#### Post-Directed and Trim and Edge

Use this product as a post-directed spray around established woody ornamental species or to trim and edge around trees, buildings, sidewalks, roads, potted plants and other objects in a production setting. Protect desirable plants from the spray solution by using shields or coverings made of cardboard or other impermeable material.

## Wiper Application

Use this product through wick or other suitable wiper applicators to control or partially control undesirable vegetation around established trees, shrubs, or vines. See Selective Equipment section of this label for further information about the proper use of wiper applicators.

## Parks, Recreational and Residential Areas

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

All of the instructions in the Noncrop Areas and Industrial Sites section apply to park and recreational areas.

## Poplar (Populus spp.) Production

Types of Applications: Preplant, in-crop, wiper applicator

#### Preplant

This product is for use prior to planting *Populus* species, including hybrid poplars and hybrid cottonwoods.

#### In-Crop

Use a 1.5 percent spray solution as a spray to wet application for the control of undesirable woody brush and trees. To control herbaceous weeds, use a 0.75 to 1.5 percent solution. Avoid contact of spray, drift, or mist with foliage, green bark or non-woody surface roots of poplar trees.

#### Wiper Applicator

This product may be used through wick or other suitable applicators for control or partial control of grass and broadleaf weeds listed on the label.

For wick applicators, mix 2.75 quarts of this product with 2 gallons of water to make a 25 percent solution. For wiper systems that can handle thicker solutions, such as force fed systems, a solution containing 25 to 100 percent of this product may be used.

For best results, allow the herbicide solution to contact the maximum amount of leaf surface. As weed density increases, decrease equipment speed to allow sufficient herbicide to flow to wet all surfaces contacted. Weeds not contacted will be unaffected.

To avoid injury or death of desirable plants, prevent contact of herbicide with non-target vegetation, including foliage, green stems, exposed non-woody roots or fruit.

#### Railroads

All of the instructions in the Noncrop Areas and Industrial Sites section apply to railroads.

Bare Ground, Ballast and Shoulders, Crossings, and Spot Treatment Use this product to maintain bare ground on railroad ballast and shoulders. Repeat applications of this product may be used as weeds emerge to maintain bare ground. Use this product to control tall growing weeds to improve line of sight at railroad crossings and reduce the need for mowing along rights-of-way. For crossing applications, use up to 80 gallons of spray solution per acre.

Tank Mixes: Mix this product with the products in the table below for ballast, shoulder, spot, bare ground, and crossing treatments as well as for enhanced control of woody brush and trees. The specific product used must be labeled for use on these sites. Follow applicable use directions, precautions and limitations on the respective product labels. Use according to the most restrictive precautionary statements for each product in the mixture.

Arsenal	Oust XP
atrazine <sup>1</sup>	Outrider
dicamba <sup>1</sup>	Sahara DG
diuron <sup>1</sup>	simazine <sup>1</sup>
diuron	
Escort	Spike 80DF
Escort XP	Telar DF
Garlon 3A	Transline
Garlon 4	Vanquish
Hyvar X	Velpar DF
Hyvar X-L	Velpar L
Krovar I DF	2,4-D <sup>1</sup>
Oust	

<sup>1</sup>Tank mixes with products containing this single generic active ingredient may be made provided the specific product is labeled for application at the use site.

#### **Brush Control**

Use this product to control woody brush and trees on railroad rights-ofway. Apply 3 to 8 guarts of this product per acre as a broadcast spray, using boom-type or boomless nozzles. Applications up to 80 gallons of spray solution per acre may be used. Apply a 3/4 to 1.5 percent solution of this product when using high volume spray to wet applications. Apply a 4 to 7 percent solution of this product when using low volume directed sprays for spot treatment.

Tank Mixes: This product may be mixed with the following herbicide products for ballast, shoulder, spot, bare ground and crossing treatments, as well as for enhanced control of woody brush and trees. The specific product must be labeled for use on these sites. Refer to the individual product labels for approved sites and application rates

Arsenal atrazine <sup>1</sup> dicamba <sup>1</sup> diuron <sup>1</sup>	Krovar I DF Sahara DG simizine <sup>1</sup> Spike 80DF
Escort	Tordon K
Escort XP	Transline
Garlon 3A	Vanquish
Garlon 4	Velpar DF
Hyvar X	Velpar L
Hyvar X-L	2,4-D <sup>1</sup>

<sup>1</sup>Tank mixes with products containing this single generic active ingredient may be made provided the specific product is labeled for application at the use site.

#### **Bermudagrass Release**

Use this product to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. Apply 0.75 to 2.25 pints of this product in up to 80 gallons of spray solution per acre. Use a lower rate in the rate range when treating annual weeds

below 6 inches in height (or runner length). Use a higher rate in the rate range as weeds increase in size or as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

bahiagrass bluestem, silver fescue. tall

johnsongrass trumpetcreeper vaseygrass

This product may be tank mixed with Oust or Oust XP. If tank mixed, use no more than 0.75 to 2.25 pints of this product with 1 to 2 oz of Oust or Oust XP per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust or Oust XP label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

bahiagrass blackberry bluestem, silver broomsedge dallisgrass dewberry dock. curly dogfennel

fescue, tall johnsongrass poorjoe raspberry trumpetcreeper vaseygrass vervain. blue

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

## Rangelands

Use this product to control or suppress many annual weeds growing in perennial cool and warm season grass rangelands, pastures, and industrial sites. Preventing weed seed production is critical to the successful control of annual grassy weeds invading these perennial grass sites. Eliminate most of the viable seeds with follow up applications in sequential years. Delay grazing of treated areas to encourage growth of desirable perennials. Allowing desirable perennials to flower and reseed in the treated area will encourage successful transition.

Bromus: Use this product to control or suppress downy brome (Bromus tectorum), Japanese brome (Bromus japonicus), soft chess (Bromus mollis), cheatgrass (Bromus secalinus), cereal rye and jointed goatgrass found in rangelands, pastures and industrial sites. Apply 6 to 12 fl oz of this product per acre as a broadcast treatment.

For best results, coincide treatments with early seedhead emergence of the most mature plants. Delaying the application until this growth stage maximizes the emergence of other weedy grass flushes. Make applications to the same site each year until seed banks are depleted and the desirable perennial grasses become established on the site.

Medusahead: Apply 12 fl oz of this product per acre to control or suppress medusahead at the 3-leaf stage when plants are actively growing. Delaying applications beyond this stage results in reduced or unacceptable control. Repeat applications in subsequent years to eliminate the seedbank before reestablishing desirable perennial grasses. Apply in the fall or spring.

Apply by ground or air. Make aerial applications for these uses with fixed wing or helicopter equipment. For aerial applications, apply in 2 to 10 gallons of water per acre. For ground applications, apply in 10 to 20 gallons of water per acre.

#### Spot Treatment and Wiper Application

Apply this product in rangeland, pastures, or industrial sites as a spot treatment or over the top of desirable grasses using wiper applicators to control tall weeds. Make repeat applications in the same area at 30-day intervals.

The entire site or any portion of it may be treated when using 2.25 quarts or less of this product per acre for spot treatments or wiper applications. No more than 10 percent of the total site may be treated at any one time when using more than 2.25 quarts of this product per acre for spot treatments or wiper applications. To achieve maximum performance, remove domestic livestock before application and wait 7 days after application before grazing livestock or harvesting for feed.

## Roadsides

All of the instructions in the Noncrop Areas and Industrial Sites section apply to roadsides.

#### **Shoulder Treatments**

Use this product on road shoulders. Apply it with boom sprayers, shielded boom sprayers, high volume off-center nozzles, hand-held equipment, and similar equipment.

#### **Guardrails and Other Obstacles to Mowing**

Use this product to control weeds growing under guardrails and around signposts and other objects along the roadside.

#### Spot Treatment

Use this product as a spot treatment to control unwanted vegetation growing along roadsides.

Tank Mixes: This product may be used in tank mix combination with the products listed below for shoulder, guardrail, spot and bare ground treatments. The specific product used must be labeled for use on these sites. Follow applicable use directions, precautions and limitations on the respective product labels. Use according to the most restrictive precautionary statements for each product in the mixture.

atrazine <sup>1</sup>	Oust
Clarity	Outrider
Crossbow L	Pendulum 3.3 EC
dicamba <sup>1</sup>	Pendulum WDG
diuron <sup>1</sup>	Plateau
Endurance	Princep DF
Escort	Princep 4L
Escort XP	Ronstar 50WP
Gallery 75 DF	Sahara
Krovar I DF	simazine <sup>1</sup>
Landmark II MP	Telar
Landmark MP	Vanquish
Landmark XP	2,4-Ď <sup>1</sup>

<sup>1</sup>Tank mixes with products containing this single generic active ingredient may be made provided the specific product is labeled for application at the use site.

#### **Release of Bermudagrass or Bahiagrass**

**Dormant Applications:** Use this product to partially control many winter annual weeds and tall fescue for effective release of dormant bermudagrass or bahiagrass. Treat only when turfgrass is dormant and prior to spring greenup. This product may also be tank mixed with Outrider, Oust or Oust XP for residual control. Tank mixtures of this product with Oust or Oust XP may delay greenup of bermudagrass.

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

Apply 6 to 48 fl oz of this product per acre alone or in a tank mixture with 1/4 to 1 oz of Oust or Oust XP per acre. Apply at these rates in 10 to 40 gallons of water per acre. Use only in areas where bermudagrass or bahiagrass are desirable groundcovers and where some temporary injury or discoloration can be tolerated. To avoid delays in greenup and minimize injury, add no more that 1 oz of Oust or Oust XP per acre on bermudagrass and no more than 0.5 oz of Oust or Oust XP per acre on bahiagrass. Avoid treatments when these grasses are in a semi-dormant condition.

#### **Actively Growing Bermudagrass**

Use this product to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. Apply 12 fl oz to 2.25 pints of this product in 10 to 40 gallons of spray solution per acre. Use the lower rate when treating annual weeds less than 6 inches in height (or runner length). Use the higher rate as weeds increase in size or as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

bahiagrass	johnsongrass
bluestem, silver	trumpetcreeper
fescue, tall	vaseygrass

Tank mix this product with Outrider to control or partially control johnsongrass and other weeds listed on the Outrider label. Use 6 to 24 fl oz of this product with 0.75 to 1.33 oz of Outrider per acre. Use the higher rates of both products to control perennial weeds or annual weeds more than 6 inches in height.

This product may be tank mixed with Oust or Oust XP. If tank mixed, use no more than 12 to 24 fl oz of this product with 1 to 2 oz of Oust or Oust XP per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust or Oust XP label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

fescue, tall johnsongrass poorjoe trumpetcreeper vaseygrass vervain, blue

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

#### **Actively Growing Bahiagrass**

For suppression of vegetable growth and seedhead inhibition of bahiagrass for approximately 45 days, apply 4.5 fl oz of this product in 10 to 40 gallons of water per acre. Apply one to two weeks after full greenup or after mowing to a uniform height of 3 to 4 inches. Make this application prior to seedhead emergence.

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

A tank mixture of this product plus Oust may be used. Apply 6 fl oz of this product plus 0.25 oz of Oust per acre one to two weeks following an initial spring mowing. Make only one application per year.

#### **Utility Sites**

Use this product along electrical power, pipeline and telephone rightsof-way, and other sites associated with these rights-of-way such as substations, roadsides, railroads or similar rights-of-way that run in conjunction with utilities.

Use this product in utility sites and substations for bare ground, trim and edge around objects, spot treatment of unwanted vegetation and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. Use this product prior to planting a utility site to ornamentals, flowers, turfgrass (sod or seed), or beginning construction projects. As weeds emerge, make a repeat application of this product to maintain bare ground.

Use this product in preparing or establishing wildlife openings within these sites, maintaining access roads, and side trimming along utility rights-of way. To control herbaceous weeds, use a lower rate in the rate range. Use a higher rate in the rate range to control dense stands or tough to control woody brush and trees.

Tank Mixes: Use this product in a tank mix with the following products on utility sites. The product to be used must be labeled for use on these sites. Refer to the individual product labels for specific sites and application rates.

Arsenal atrazine <sup>1</sup> Barricade 65WG dicamba <sup>1</sup> diuron <sup>1</sup> Endurance	Oust XP Outrider pendimethalin <sup>1</sup> Plateau Ronstar 50WP Sahara
Escort	simazine <sup>1</sup>
Escort XP	Telar DF
Garlon 3A <sup>2</sup>	Transline
Garlon 4 <sup>3</sup>	Vanquish
Krenite	Velpar DF
Krovar I DF	Velpar L
Oust	2,4-D <sup>1</sup>

<sup>1</sup>Tank mixtures with products containing this generic active ingredient may be made provided the specific product is labeled for application at the use site.

<sup>2</sup>Thoroughly mix Garlon 3A with water according to label directions before adding this product. Agitate this spray mixture at the time this product is added to avoid spray incompatibility problems.

<sup>3</sup>For best results, use this product alone or in a tank mix with Garlon 4 for side trimming treatments.

## Annual Weeds

Apply 24 fl oz of this product per acre if weeds are less than 6 inches in height or runner length. Use 1.25 to 3 quarts of this product per acre if weeds are more than 6 inches in height or runner length or when weeds are growing under stressed conditions. Use a higher rate in the rate range for tough to control species regardless of the size of the weed at the time of application. Treat tough to control weeds early when they are relatively small. Tank mix this product with only those products that are labeled for application at the target site. Refer to the label of the tank mix partner for use sites and application rates.

Apply a 0.4 percent solution of this product as a spray to wet application to weeds less than 6 inches in height or runner length. Use a 0.7 to 1.5 percent solution for annual weeds more than 6 inches tall or for smaller weeds growing under stressed conditions. Use the higher concentration for tough to control species or for weeds more than 24 inches tall. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds.

Use a 4 to 7 percent solution of this product for low volume directed spray applications. Spray coverage should be uniform with at least 50 percent of the foliage contacted. For best results, cover the top one-half of the plant. To ensure adequate spray coverage, spray both sides of large or tall weeds when foliage is thick and dense or where there are multiple sprouts.

#### Rate Table

Weed Species annoda, spurred barlev barnyardgrass bassia, fivehook bittercress bluegrass, annual bluegrass, bulbous brome, downy brome, Japanese browntop panicum buttercup Carolina foxtail Carolina geranium castorbean cheatgrass cheeseweed (Malva parviflora) chervil chickweed cocklebur copperleaf, hophornbeam corn corn speedwell crabgrass dwarfdandelion eastern mannagrass eclipta fall panicum falsedandelion falseflax, smallseed fiddleneck field pennycress filaree fleabane, annual fleabane, hairy (Conyza bonariensis) fleabane, rough Florida pusley foxtail goatgrass, jointed goosegrass grain sorghum (milo) groundsel, common hemp sesbania henbit horseweed/marestail (Conyza canadensis) itchgrass johnsongrass (seedling) junglerice knotweed kochia<sup>2</sup> lambsquarters

little barley London rocket mayweed medusahead morningglory (*Ipomoea* spp.) mustard, blue mustard, tansy mustard, tumble mustard, wild nightshade, black oats pigweed plains/tickseed coreopsis prickly lettuce puncturevine purslane, common ragweed, common ragweed, giant red rice Russian thistle rye ryegrass sandbur, field shattercane shepherd's-purse sicklepod signalgrass, broadleaf smartweed, ladysthumb smartweed, Pennsylvania sowthistle, annual Spanishneedles speedwell, purslane sprangletop spurge, annual spurge, prostrate spurge, spotted spurry, umbrella stinkgrass sunflower teaweed/prickly sida Texas panicum velvetleaf Virginia copperleaf Virginia pepperweed wheat wild oats witchgrass woolly cupgrass yellow rocket

<sup>1</sup>If weed growth is heavy or dense and/or growing in an undisturbed (non-cultivated) area and/or growing under stress, up to 3 quarts per acre may be applied.

<sup>2</sup>Do not treat kochia in the button stage.

## **Perennial Weeds**

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

When using spray to wet treatments with hand-held equipment, ensure thorough coverage of the plant. For best results, use a 1.5 percent solution on harder to control perennials such as bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle.

Use a 4 to 7 percent solution of this product in low volume directed spray applications. Spray coverage should be uniform with at least 50 percent of the foliage contacted. For best results, cover the top one-half of the plant. To ensure adequate spray coverage, spray both sides of large or tall weeds when foliage is thick and dense or where there are multiple sprouts.

Allow 7 days or more after application before tillage.

#### Rate Table

	Rate	Hand-Held
Weed Species	(pt/acre)	(% Solution)
Alfalfa	1.5 - 3	1.5
For partial control.	1	T
Alligatorweed	6	1
For partial control.	1	1
Anise (fennel)		1 – 1.5
Bahiagrass	4.5 - 7.5	1.5
Beechgrass, European (Ammophila arenariai)		3.5
Bentgrass	2.25	1.5
For partial control.		1
Bermudagrass	4.5 - 7.5	1.5
Bermudagrass, water (knotgrass)	1.5	
Bindweed, field	0.75 - 7.5	
Bluegrass, Kentucky	3	
Blueweed, Texas	4.5 - 7.5	
Brackenfern	4.5 – 6	1
Bromegrass, smooth	1.5 – 3	1.5
Bursage, woolly-leaf		]
Canarygrass, reed	3 - 4.5	
Cattail	4.5 - 7.5	
Clover, red, white		
Cogongrass		
Dallisgrass		
Dandelion		
Dock, curly		
Dogbane, hemp	6	-
Fescue (except tall)	4.5 - 7.5	-
Fescue, tall	1.5 - 4.5	-
German ivy	1.75 – 3.25	1 – 1.5
Guineagrass	4.5	1
Horsenettle	4.5 - 7.5	1.5
Horseradish	6	-
Iceplant		1.5 – 2
Jerusalem artichoke	4.5 - 7.5	1.5
Johnsongrass	0.75 - 4.5	1
Kikuyugrass	3 - 4.5	1.5
Knapweed	6	-
Lantana	-	1
Lespedeza	4.5 - 7.5	1.5
Milkweed, common	4.5	1.5
Muhly, wirestem	1.5 – 3	1.5
Mullein, common	4.5 - 7.5	1.5
Napiergrass		
Nightshade, silverleaf	3	1
Nutsedge, purple, yellow	0.75 - 4.5	1 – 1.5
Orchardgrass	1.5 – 3	1.5
Pampasgrass		1 - 1.5
Paragrass	4.5 - 7.5	1.5
Paragrass	3 – 4.25	1
Phragmites	4.5 - 7.5	1 – 1.5
For partial control.		
Poison hemlock		1 – 1.5
Quackgrass	1.5 - 4.5	1.5
Redvine	1.25 – 3	-
For partial control.		1
Reed, giant		1.5
	1	1 1.0

#### Rate Table (Cont.)

Weed Species	Rate (pt/acre)	Hand-Held (% Solution)
Ryegrass, perennial	1.5 - 4.5	1
Smartweed, swamp	4.5 - 7.5	1.5
Sowthistle, perennial	3 - 4.5	
Spurge, leafy		
For partial control.		
Starthistle, yellow	3	1.5
Sweet potato, wild		
For partial control.		
Thistle, artichoke		1 - 1.5
Thistle, Canada	3 - 4.5	1.5
Timothy	3 - 4.5	
Torpedograss	6 - 7.5	
For partial control.		
Trumpetcreeper	3	1.5
For partial control.		
Vaseygrass	4.5 - 7.5	1.5
Velvetgrass		
Apply when most plants are in the early head stage.		
Wheatgrass, western	3 - 4.5	1.5

## Tank Mixtures for Improved Control of Bentgrass (*Agrostis* spp.) (Not for Use in California)

For improved control of bentgrass (*Agrostis* spp.), the following products may be tank mixed with this product: Envoy, Fusion, Fusilade II, Vantage. When tank mixing products, read and carefully observe label directions, precautionary statements and all information on the labels of each product in the mixture. Refer to each product label for the approved use sites.

Dry ammonium sulfate, at 1 to 2 percent by weight, may also be added to the spray solution. The equivalent rate of ammonium sulfate in a liquid formulation may also be used. Completely dissolve the ammonium sulfate in the spray tank before adding herbicides. Thoroughly rinse the spray system with clean water after use to reduce corrosion.

Broadcast Application: Apply 2 to 2.5 quarts of this product per acre plus

- 34 fl oz of Envoy per acre in 20 to 40 gallons per acre of spray solution.
  24 fl oz of Fusilade II per acre in 20 to 40 gallons per acre of spray solution.
- 60 fl oz of Vantage per acre in 20 to 40 gallons per acre of spray solution.
- 9 fl oz of Fusion per acre in 20 to 40 gallons per acre of spray solution.
- In the event of incomplete control, re-treatment may be necessary.

Spot Treatment: Mix 2 fl oz of this product with

- 1.3 fl oz of Envoy in 1 gallon of water and spray to wet.
- 0.75 fl oz of Fusilade II in 1 gallon of water and spray to wet.
- 3 fl oz of Vantage in 1 gallon of water and spray to wet.
- 0.25 fl oz of Fusion in 1 gallon of water and spray to wet.

**Attention:** Avoid drift. Use extreme care when applying this product to prevent injury to desirable plants and crops.

## Woody Brush and Trees

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

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

Ensure thorough coverage when using hand-held equipment. Use a 1.5 percent solution on harder to control woody brush and trees.

Apply a 4 to 7 percent solution of this product for low volume directed spray applications. Spray coverage should be uniform with at least 50 percent of the foliage contacted. For best results, cover the top one-half of the plant. Spray both sides of large or tall woody brush and trees to ensure adequate spray coverage when foliage is thick and dense or where there are multiple sprouts. Symptoms may not appear prior to frost or senescence with fall treatments.

Allow seven days or more 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.

## Rate Table

	Rate	Hand-Held Spray to Wet
Weed Species	(pt/acre)	(% Solution)
Alder	4.5 – 6	1
Ash	3 - 7.5	1 – 1.5
For partial control.		
Aspen, quaking	3 - 4.5	1
Bearmat (bearclover)	3 - 7.5	1 – 1.5
Beech		
For partial control.		
Birch	3 - 4.5	1
Blackberry	4.5 – 6	
Blackgum	3 - 7.5	
Bracken		
Broom, French, Scotch	1.75-7.5	1 - 1.5
Buckwheat, California	1.75 - 6	-
For partial control.		1
Cascara	3 - 7.5	1 - 1.5
For partial control.		
Catsclaw		1
For partial control.		J
Ceanothus	3 - 7.5	1 – 1.5
For partial control.		1
Chamise	1.75 – 7.5	1
For partial control.		
Cherry, bitter, black, pin	3 - 4.5	1
Coyote brush	4.5 - 6	1 - 1.5
Deerweed	1.75 – 4.25	1
Dogwood	3 - 7.5	1 – 1.5
For partial control.	0 110	
Elderberry	3 - 4	1
Elm	3 - 7.5	1 – 1.5
For partial control.	0 110	1 1.0
Eucalyptus		1.5
Gorse	3 - 7.5	1 – 1.5
For partial control.	0 110	1 1.0
Hasardia	1.75 - 6	1 – 1.5
For partial control.	1110 0	1 1.0
Hawthorn	3 - 4.5	1
Hazel		
Hickory	3 - 7.5	1 – 1.5
For partial control.	0 1.0	1 1.0
Honeysuckle	3 - 6	1
Hornbeam, American	3 - 7.5	1 – 1.5
For partial control.	0 1.0	1 1.0
Kudzu	6 – 7.5	1.5
Locust, black	3 - 6	1 – 1.5
For partial control.	0-0	1 1.5
Madrone resprouts		1.5
For partial control.		1.5
For partial control.	0 7 5	4 4 5
	3 - 7.5	1 – 1.5
For partial control.	0.0	4
Maple, red	3 - 6	1
Maple, sugar		

## Rate Table (Cont.)

		Hand-Held
Weed Species	Rate (pt/acre)	Spray to Wet (% Solution)
Monkey flower	1.75 - 6	1 – 1.5
For partial control.		1 1.0
Oak, black, white	3 - 6	1 – 1.5
For partial control.	0 0	1 1.5
Oak, post	4.5 - 6	1
	1.75 - 6	'
Oak, northern, pin	1.75 - 0	
Oak, scrub		
For partial control.	3 - 4.5	1
Oak, southern red Peppertree, Brazilian	3 - 4.5	1 – 1.5
(Florida holly)	3 - 7.5	1 - 1.5
For suppression		
Persimmon	3 - 7.5	1 – 1.5
For partial control.		1
Pine	3 - 7.5	1 – 1.5
Poison ivy/poison oak	6 - 7.5	1.5
Poplar, yellow	3 - 7.5	1 – 1.5
For partial control.	••	
Redbud, eastern	3 - 7.5	1 – 1.5
Rose, multiflora	3	1
Russian olive	3 - 7.5	1 – 1.5
For partial control.	0 1.0	1 1.0
Sage, black	1.75 - 6	1
Sage, white	3 - 7.5	1 – 1.5
For partial control.	0 1.0	1 1.0
Sagebrush, California	3 - 6	1
Salmonberry	3 – 4.5	-
Saltcedar	3 - 4.5	1 – 1.5
	5-7.5	1 - 1.5
For partial control Sassafras	3 - 7.5	1 – 1.5
Sourwood	5 - 7.5	1 - 1.5
For partial control.		1
Sumac, laurel, poison, smooth,	3 - 6	1 – 1.5
sugarbush, winged		
For partial control.	<u> </u>	
Sweetgum	3 - 4.5	1
Swordfern	3 - 7.5	1 – 1.5
For partial control.		
Tallowtree, Chinese		1
Tan oak resprouts		1.5
For partial control.		· · ·
Thimbleberry	3 - 4	1
For control		
Tobacco, tree	1.75 - 6	1 – 1.5
For partial control.		- I
Trumpetcreeper	3 - 4.5	1 – 1.5
Vine maple	3 - 7.5	
For partial control.		- 1
Virginia creeper	3 - 7.5	1 – 1.5
Waxmyrtle, southern		
For partial control.		
Willow	4.5 - 6	1
Yerba santa		1.5
Terba Santa		

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Label Code: D02-351-003 Replaces Label: D02-351-002 LOES Number: 010-02164

EPA accepted 11/26/10

## Revisions

- 1. Added section for herbicide resistance management.
- Added use directions for glyphosate-resistant ryegrass, glyphosateresistant horseweed, hollow stem injection, non-food tree, shrub, or vine production sites, poplar (Populus spp.) production, rangelands.
- 3. Added Brazilian pepper and Austrian pine to Cut Stump section.
- Added castorbean, cheeseweed, medusahead, plains/tickseed coreopsis, puncturevine, annual spurge, and Virginia copperleaf to Annual Weeds section.
- Added European beechgrass, German ivy, and paragrass to Perennial Weeds section.
- 6. Added deerweed, scrub oak, Brazilian peppertree, laurel, sugarbush, and yerba santa to Woody Brush and Trees section.