Specimen Label



Specialty Herbicide

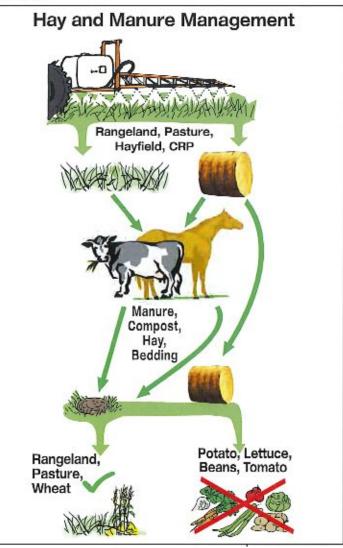
*Trademark of Dow AgroSciences LLC

For control of susceptible weeds and certain woody plants, including many invasive and noxious weeds, on non-cropland areas including industrial sites, rights-of-way (such as roadsides, electric utility and communication transmission lines, pipelines, and railroads), non-irrigation ditch banks, natural areas (such as wildlife management areas, wildlife openings, wildlife habitats, recreation areas, campgrounds, trailheads and trails), and grazed areas in and around these sites.

IMPORTANT ADVISORY TO PREVENT INJURY TO DESIRABLE PLANTS

- It is mandatory to follow the "Use Precautions and Restrictions" section of this product label.
- Carefully read the section "Plant Residues or Manure."
- Manure and urine from animals consuming treated grass or hay may contain enough aminopyralid to cause injury to sensitive broadleaf plants.
- Inform the recipient of hay or manure from animals grazing pastures or feeding on hay from areas treated with aminopyralid of the label use precautions and restrictions.
- Consult with a Dow AgroSciences representative if you do not understand the "Use Precautions and Restrictions".

Call [1-(800) 263-1196] Customer Information Group.



Not For Sale, Distribution, or Use in New York State.

GROUP	4	HERBICIDE
Active Ingredient: Tritsopropanofommer	elum salt of 2-pyridine	40.6%

Acid Equivalent: aminopyralid (2-pyridine carboxylic acid, 4-amino-3,6dichloro-) - 21.1% - 2 lb/gat

EPA Reg. No. 62719-537

Keep Out of Reach of Children CAUTION

Refer to inside of label booklet for Directions for Use.

Notice: Head the entire label. Use only according to label directions. Before using this product, read Warranty Discleimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

in case of emergency endangering health or the environment involving this product, cell 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or





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back scate as guide.



nominacicap on glassi and point isso sprayer or effect devices. No Suid will poor from the mala container. Hoplace cap for storage in scaled condition.

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Causes Moderate Eye Irritation

Avoid contact with eyes or clothing.

Personal Protective Equipment (PPE)

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.

User Safety Recommendations

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

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 dector for treatment advice.

First Aid (Cont.)

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

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 washwater or rinsate.

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.

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 posticide regulation.

Not For Sale, Distribution, or Use in New York State.

Entry Restrictions: For applications on non-cropland areas, do not enter or allow worker entry into treated areas until sprays have dried.

Storage and Disposal

Do not contaminate water, food, feed or fortifizer by storage or disposal. Open dumping is prohibited.

Pesticide Storage: If this product is exposed to subfreezing temperatures, the active ingredient may crystallize and settle out of solution. Under these conditions the product should be warmed to at least 40°F and agitated well to dissolve any crystallized active ingredient. prior to use.

Peaticide Disposel: Wester resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Nonrefillable containera 5 gallons or leas:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of ina sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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 rinsale 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 8ow begins to drip. Hold coptainer apside down over application equipment or 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.

Refiliable containers larger than 5 gallons:

Container Handling: Refillable container. Refill this container with posticide 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, ampty the remaining contents from this container into application. equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two inhutes. Pour or pump resate into application equipment or rinaate collection system. Repeat this rinsing procedure two more times.

Nonrefillable containers larger than 5 gallons:

Container Handling: Nonrefiliable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in-

Storage and Disposal (Cont.)

a sanitary tandfill, or by incineration, or by other procedures allowed by state and local authorities.

Triple rinse or pressure rinse container (or equivatent) 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 rineste into application equipment or a mix tank or store rineste 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 nix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or 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 rinsets 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.

Milestone® VM specialty herbicide may be applied by serial or ground equipment to control susceptible weeds and certain woody plants, including invasive and noxious weeds on non-cropland areas including industrial sites, rights-of-way (including roadsides, electric utility and continuorication transmission lines, pipelines, and railroads), non-injustion ditch banks, natural areas (including wildlife management areas, wildlife openings, wildlife habitats, recreation areas, camparcunds, traitheads and traits), and grazed areas in and around these sites without injury to most grasses.

It is permissible to treat non-irrigation ditch banks, seasonally dry wetlands (such as flood plains, deltas, marshes, swamps, or bogs) and transitional areas between upland and toward sites. Mitestone VM can be used to the waters edge. Do not apply directly to water and take precautions to minimize spray drift onto water.

Resistance Management Guidelines

- Development of plant populations resistant to this herbicide mode of action is usually not a problem on non-cropland sites since these sites receive infrequent pesticide applications.
- Slmilar looking biotypes of a given weed species occurring in a treated area may vary in their susceptibility to a herbicide. Application of a herbicide below its labeled rate may allow more tolerant weeds to survive and a shift to more tolerant biotypes within the treated area.
- Where identified, spreading of resistent weeds to other fields may be prevented by cleaning harvesting and tillage equipment before moving to other areas and by planting weed-free seed.
- Contract your extension specialist, certified crop consultant, or Dow AgroSciences representative for the latest resistance management information.

Use Precautions and Restrictions

Consult with a Dow AgroSciences representative if you do not understand the "Use Precautions and Restrictions." Call (1-800-263-1196) for more information.

- This product is not intended for reformulation or repackaging into other end-use products.
 Maximum Application Rate: On all labeled use sites do not broadcast
- Maximum Application Rate: On all labeled use sites do not broades: apply more than 7 fl oz per acre of Milestone VM per year. The total encount of Milestone VM applied broadcast, as a ro-treatment, and/or spot treatment cannot exceed 7 fl oz per acre per year. Spot troatments may be applied at an equivalent broadcast rate of up to 0.22 fb acid equivalent (14 fl oz of Milestone VM) per acre per annual growing season; however, not more than 50% of an acre may be reated at that rate. Do not apply more than a total of 0.11 lb acid equivalent (7 fl oz per acre of Milestone VM) per annual growing season as a result of broadcast, spot or repent applications.
 Avoiding Injury to Non-Target Plants: Do not aerially apply
- Avoiding Injury to Non-Target Plants: Do not aerially apply
 Milestone VM within 50 feet of a border downwind (in direction of
 wind movement), or allow spray driff to come in contact with, any
 broadleaf crop or other desirable broadleaf plants, including, but not
 limited to, affelfa, cotton, dry beans, flowers, grapes, lottuce, potatoes,
 radishes, soybeans, sugar beets, sunflowers, tobacco, tometoes

or other broadleaf or vegetable crop, fruit trees, ornamental plants, or soll where sensitive crops are growing or will be planted. Avoid application ander conditions that may allow spray drift because very small quantities of spray may seriously injure susceptible crops. Read and consider the "Precautions for Avoiding Spray Brift and Spray Brift Advisory" at the end of the label to help minimize the potential for spray drift.

- Milestone VM is highly active against many broadleaf plant species. Do not use this product on areas where loss of desirable broadleaf plants, including legumes, cannot be folerated.
- Do not use on grasses grown for hay intended for export.
- Do not use on grasses grown for seed production.
- Chemigation: Do not apply this product through any type of irrigation system.
- Do not contaminate water intended for irrigation or domestic purposes. Do not treat inside banks or bottoms of irrigation ditches, either dry or containing water, or other channels that carry water that may be used for irrigation or domestic purposes.
- Do not apply this product on residential or commercial lawns, turf, or ornamental plantings.
- Trees adjacent to or in a treated area can occasionally be affected by yout uptake of Milastone VM. Do not apply Milastone VM within the root zone of desirable trees unless such injury can be tolerated. Use special caution near roses, and leguminous trees such as locusts, redbud, milriosa, and caragana.

Seeding grasses;

- Preemergence: Mitestone VM may be applied in the spring or early summer, depending on the target weed species, and grass planted the following fall or winter when appropriate for the grass species being planted.
- Postemergence: During the season of establishment, Milestone VM should be applied only after perennial grasses are well established (have developed a secondary root system and are vigorous. Most perennial grasses are tolerant to Milestone VM at this stage of development. Milestone VM may suppress certain established grasses, such as smooth bromegrass (*Bromus inormis*), especially when plants are stressed by adverse environmental conditions. Plants should recover from this transient suppression with the ensot of environmental conditions favorable to grass growth and apon release from weed competition.
 Seeding Legumes or Susceptible Wildflowers: Do not plant legumes
- Seeding Legumes or Susceptible Wildflowers: Do not plant legumes
 or susceptible wildflowers until a soil bioassay has been conducted
 to determine if residues of Milestone VM remaining in the soil will
 adversely affect establishment of legumes and wildflowers.
- Grazing and Haying Restrictions: There are no restrictions on grazing or hay hervest following application of Milestone VM at labeled rates. Cutting hay too soon after spraying weeds will reduce weed control. Walt 14 days after herbicide application to cut grass hay to allow herbicide to work. Do not transfer grazing animals from areas treated with Milestone VM to areas where sensitive broadleaf crops occur without first allowing 3 days of grazing on an unbreated pasture. Otherwise, urine and menure may contain enough Milestone VM to cause injury to broadleaf plants.
- Grazing Poisonous Plants: Herbicide application may increase palatability of certain poisonous plants. Do not graze treated areas until poisonous plants are dry and no longer palatable to livestock.

Plant Residues or Manure:

- Do not use Milestone VM-treated plant residues, including hay
 or straw from treated areas, or manure from animals that have
 grazed forage or eaten hay hervested from treated areas within the
 previous 3 days as compost or mulch that will be applied to areas
 where commercially grown mushrooms or susceptible broadleaf
 plants may be grown.
- Do not spread manure from animals that have grazed or consumed forage or hay from treated areas within the previous 3 days on land used for growing susceptible broadleaf crops.
 Manure from animals that have grazed forage or eaten hay
- Manure from animals that have grazed forage or eaten hay harvested from Milestone VM-treated areas within the previous 3 days may only be spread on pasture grasses, grass grown for seed, and wheat.
- Do not plant a broadleaf crop in Salds treated in the previous year
 with manure from animals that have grazed forage or eaten hay
 harvested from Milestone VM-treated areas until an adequately
 sensitive field bloassay is conducted to determine that the
 Milestone VM residues in the soil is at a level that is not injurious to
 the crop to be planted.

- To promote herbicide decomposition, plant residues should be eventy incorporated in the surface soil or burned. Breakdown of Milestone VM in plant residues or martine is more rapid under warm, moist soil conditions and may be accelerated by supplemental frigation.
- Grop Rotation: Do not rotate non-cropland to cropland for one year following an application of Milestone VM. Do not plant a broadleaf crop until an adequately sensitive field bleasay shows that the level of aminopyralid present in the soil will not adversely affect that broadleaf crop.
- Field Bloassay Instructions: In a representative section of an area previously treated with this product, plant short test rows of the intended species across the original direction of application in a manner to sample variability in field conditions such as soit texture, soit organic matter, soit pH, rainfelt pattern or drainage. The field bioassay can be initiated at any time after application and before the planting of the intended species. Observe the seeded species for symptoms of herbicidal activity, such as poor stand (effect on seed germination), chlorosis (yellowing), necrosis (dead teaves or shoots), or stanting (reduced growth). If herbicidal symptoms do not occur, the intended seeded species may be planted. If herbicidal activity is observed, do not plant the field to the intended species, plant only to wheat, forage grasses, native grasses or grasses grown for hay.

Sprayer Clean-Out instructions

It is recommended that separate apray equipment be used on highly sensitive crops such as tobacco, soybeans, peauts and tomatoes. Do not use spray equipment used to apply Milastons VM for other applications to land planted to, or to be planted to, broadleaf plants unless it has been determined that all residues of this herbicide has been removed by thorough cleaning of equipment.

Equipment used to apply Milestone VM should be thoroughly cleaned before reusing to apply any other cheroicals as follows:

- Plinse and flush application equipment thoroughly after use. Dispose of rinse water in non-cropland area away from water supplies.
- Ringe a second time, adding 1 quart of bousehold arramonia or tank cleaning agent for every 25 gallons of water. Circulate the solution through the online system so that all internal surfaces are contacted (15 to 20 minutes). Let the solution aland for several hours, preferably overnight.
- 3. Flush the solution out of the spray tank through the boom.
- Place the system twice with clean water, recirculating and draining each time.
- Spray nozzles and screens should be removed and cleaned separately.

Application Methods

Apply the specified rate of Milestone VM as a cearse low-pressure spray. Do not apply this product with mist blower systems that deliver very fine spray droplets. Spray volume should be sufficient to uniformly cover foliage. Increase spray volume to ensure therough and uniform coverage when larget vegetation is tall and/or dense. To enhance toliage wetting and coverage, an approved non-tonic agricultural surfactant may be acted to the spray mixture as specified by the surfactant label.

Ground Broadcast Application: Higher spray volumes (greater than 10 gellons per scre) generally provides better coverage and better control, particularly in dense and/or tall foliage.

Agrief Scoadcast Application: Do not apply less than 2 gaillons per acretotal spray volume. Five gaillons per acre or greater will generally provide better coverage and better control, particularly in danse and/or tall follage.

High-Volume Foliar Application: High volume foliar treatments may be applied at rates equivalent to broadcast up to a maximum of 7 fl oz per acre per annual growing season. Use sufficient spray volume to thoroughly and uniformly wet foliage and stems but not to runoff.

Spot Application: Spot treatments may be applied at an equivalent broadcast rate of up to 0.22 ib acid equivalent (14 if oz of Milestone VM) per acre per enobel growing season; however, not more than 50% of an acre may be treated at that rate. Do not apply more than a total of 0.11 lb acid equivalent (7 if oz per acre of Milestone VM) per annual growing season as a result of broadcast, spot or repeat applications. Spray volume should be sufficient to thoroughly and uniformity wet weed foliage but not to the point of runoif.

Repeat treatments may be made, but the total amount of Mitestone VM applied must not exceed 7 those per acre per year. To prevent misapplication, spot treatments should be applied with a callbrated-sprayer.

Note: Table 1 below shows mixes for various sprayer outputs in gallons per acre (GPA).

Table 6: Amount of Milostone VM horbicide (in mL) to mix in 1 gallon of water

Milestone VM amount (in mL) to mix with various application rates

	with various application rates				
GPA	5 filoz/a	7 fl oz/a	14 fl oz/a		
20	7,5	10.5	21,0		
30	5.0	7.0	14.0		
40	3,8	5.3	10.5		
50	3.0	4.2	8,4		
60	2.5	3.5	7.0		
70	2.1	3.0	6.0		
80	1.9	2.6	5.3		
90	1.7	2.3	4.7		
100	1.5	2.1	4.2		

Use a syringe to measure co

Conversions:

1 tsp ... 5 mL 30 mL = 1 fluid ounce | loc -- I mL

 $3 ext{ tsp} = 1 ext{ Tosp}$ $2 ext{ Tosp} = 1 ext{ fluid number}$

Table 2: Application rates in the table below are based on treating an area of 1000 sq ft. An area of 1000 sq ft is about 31.5 ft by 31.5 ft (10.5 by 10.5 yards) in size. Mix the amount of Milestone VM (8 oz or milliliters) corresponding to the desired broadcast rate in 0.5 to 2.5 gallons of water, depending upon the spray volume required to treat 1000 sq ft. A delivery volume of 0.5 to 2.5 gallons per 1000 sq ft is equivalent to 22 to 109 gallons per acre.

Amount of Milestone VM per 1000 sq ft to Equal Broadcast Rate				
Broadcast Rate	Amount of Mileston	e VM per 1000 sq ft		
(fl oz/acre)	(fl az)	(Milliliters)		
3	0.069	2		
5	0.115	3.4		
7	0.161	4.8		

Note: 1 mL = 1 cc and 1 field ounce (fl αz) = 29.8 milliliters (mt.) = 2 tablespoons = 8 teaspoons

To calculate the amount of Milestone VM for areas larger than 1000 sq ft: Multiply the table value (flioz or mililliters) by the area to be treated in "thousands" of square foot. For example, if the area to be treated is 3500 sq g, multiply the table value by 3.5 (3500 sq ft divided by 1000 sq g = 3.5).

Mixing Instructions

Mixing with Water: To prepare the spray, add about helf the required amount of water in the spray tank. Then, with agitation, add the specified amount of Milestone and other registered tank mix herbicides. Finally, with continued agitation, add the rost of the water and additives such as surfactants or drift control and deposition aids.

Addition of Surfactants or Adjuvants on Alf Labled Use Sites: For post emergent applications, a non-lonic surfactant (of at least 80% active ingredient) at 0.25 to 0.5 % volume per volume (1 to 2 quarts per 100 gallons of spray) is recommended to enhance herbicide activity under adverse environmental conditions (such as, high temperature, low relative humidity, drought conditions, dualy plant surfaces) or when weeds are heavily pubescent or more mature.

Tank Mixing with Other Herbicides: Milestone at rates of up to 7 fl oz per acre may be mixed with tabeled rates of other herbicides registered for application on all labeled use sites. Milestone may be applied in tank mix combination with labeled rates of other herbicides provided: (1) the task mix product is labeled for the timing and method of application for the use site to be treated and (2) mixing is not prohibited by the label of the registered fank mixed products, and (3) that the tank mix combination is physically compatible (see tank mix compatibility testing below). When tank mixing, use only in accordance with the restrictions, precautions and limitations on the respective product labels.

- Read carefully and follow all applicable use directions, precautions, and finitations on the respective product labels.
- Do not exceed specified application rates. If products containing the same active ingredient are mixed, do not exceed the maximum allowable active ingredient uso rates.
- For direct injection or other spray equipment where the product formulations will be mixed in unfiltuted form, special care should be taken to ensure tank mix compatibility.
- Always perform a jar test to ensure the compatibility of products to be used in tank mixture.

Tank Mix Compatibility Testing: Perform a jar test prior to mixing in a sprey tank to ensure compatibility of Milestone and other pesticides or carriers. Use a clear glass jar with hid and mix ingredients in the same order and proportions as will be used its the spray tank. The mixture is compatible if the materials mix readily when the jar is inverted several times. The mixture should remain stable after standing for 1/2 hour or, if separation occurs, should readily remix if agitated. An incompatible mixture is indicated by separation into distinct layers that do not readily remix when agitated and/or the presence of flakes, precipitates, gets, or heavy oily flim in the jar. Use of an appropriate compatibility and may resolve mix incompatibility. If the mixture is incompatible do not use that tank mix partner in tank mixtures.

Mixing with Sprayable Liquid Fertilizer Solutions: Milestone is usually compatible with liquid fertilizer solutions. It is anticipated that Milestone will not require a compatibility agent for mixing with fertilizers; however, a compatibility test (jar test) should be made prior to mixing. Jar tests are particularly important when a new batch of fertilizer or posticide is used, when water sources change, or when tank mixture ingredients or concentrations are changed. Compatibility may be determined by mixing the spray components in the desired order and proportions in a clear glass jar before large scale mixing of spray components in the spray tank.

Note: The lower the temperature of the liquid fertilizer, the greater the likelihood of mixing problems. Use of a compatibility ald may be required if Milestone is mixed with a 2,4-D-containing product and liquid fortilizer. Mixing Milestone and 2,4-D in N-P or N-P-K liquid fertilizer solutions is more difficult than mixing with streight nitrogen fertilizer and should not be attempted without first conducting a successful compatibility jar test. Agitation in the spray tank must be vigorous to be comparable with jar test agitation. Apply the spray mixture the same day it is prepared while maintaining continuous agitation. Rinse the spray tank thosoughty after use.

Note: Foliar-applied liquid fertilizers themselves can cause yellowing of the foliage of forage grasses and other vagetation.

Milestone VM may be applied to all labeled use sites as an aerial or ground broadcast treatment, as a spot or high volume fotiar application, to control susceptible weeds and certain woody plants, including invasive weeds (see Weeds Controlled Section).

Do not use Milestone VM if loss of legumes species or other broadleaf species cannot be tolerated.

Mifestone VM may be applied post emergence as a broadcast spray or as a spot application to control weeds including, but not limited to, those listed on this label. When a rate range is given use the higher rate to control weeds at advanced growth stages, or under less than favorable growing conditions, or for longer residual control. Best results are obtained when spray volume is sufficient to provide uniform coverage of treated weeds. For optinium uptake and translocation of Milestone, avoid mowing, haying, shredding, burning or soil disturbance in treated areas for at least 14 days following application.

Milestone VM also provides preemergence control of emerging seadlings of susceptible weeds, and re-growth of certain peranulal weeds following application. Preventing establishment of weeds will depend upon application rate, season of application, and environmental conditions after application.

Milestone VM cap provide long-term control of susceptible weeds. The length of control is dependent upon the application rate, condition and growth stage of target weeds, environmental conditions at and following application, and the density and vigor of competing desirable vegetation. Long-term weed control is most effective where grass vegetation is allowed to recover from overgrazing, drought, etc., and compete with weeds.

Milestone VM can be an Important component of integrated vegetation management programs designed to renovate or restore desired plant communities. To maximize and extend the benefits of wood control provided by Milestone VM, it is important that other vegetation management practices, including proper grazing management, biological control agents, replanting, fartilization, prescribed fire, etc., be used in appropriate sequences and combinations to farther alteviate the adverse effects of weeds on desirable plant species and to promote development of desired plant communities. Agricultural and natural resources specialists with federal and state government agencies can provide guidance on best management programs.

Weeds Controlled

The following weeds will be controlled with the rates of Milestone VM indicated in table 3. For best results, most weeds should be treated when they are actively growing and under conditions favorable for growth. Use a higher rate in the rate range when growing conditions are less than favorable or when weed foliage is tall and dense or when residual control is desired. Milestone VM also provides preomergence control of germinating seeds and control of emerged seedlings of susceptible weeds following application.

Table 3: Weeds Controlled

Note: Numbers in parentheses (-) refer to specific use directions for a particular weeds species.

Common Name	Scientific Name	Rate Pango (ti oz/acre)	Life Cycle	Plant Family
amazanth, spiny	Amaranthus spinosus	4 to 7	annual	Amaranthaceae
bedstraw	Galium spp.	4 to 7	perennial	Rubiaceae
baggarticks	Bidens spp.	4 to 7	अगराधक <u>ी</u>	Asteracea
broomweed, annual	Amphiachyris draeunculoides	4 to 7	ໝາກນລl	Asteraceae
burdock, common*, **	Acction minus	4 to 7	bienniat	Asteraceae
buttercup, hairy*	Ranunculus sardous	4 to 7	annual	Ranunculaceae
buttercup, tall*, **	Ranunculus acris	4 to 7	perennial	Ranunculaceae
cemelthorn	Alhagi pseudalhagi	5 to 7	perermiel	Fabaceae
chamomile, scentless	Matricaria Inodora	4 to 7	ansual	Asteraceae
chicory*	Cichorium intybus	4 to 7	perennial	Asteraceae
chickweed	Stellaria media	7	ยกดุบลุโ	Caryophyllaceae

Table 3: Weeds Controlled (Cont.)

Common Name Scientific Name		Rate Range (ff oz/acre)	Lite Cycle	Pleat Family	
cinquefoli, sulfur (1)*, **	Potentilla recta	4 to 7	perennial	Rosateae	
cocklebur	Xanthium strumanum	3 to 5	อททบอโ	Asteraceae	
cłover	Trifolium spp.	5 to 7	perennial	Fabaceae	
croton, tropic	Croton glandulosus	3 to 5	annual	Euphorbiaceae	
crownvetch	Securigera varia	5 to 7	perennial	Fabaccae	
cadweed, purpře	Gamochaeta purpurea	4 to 7	априя	Astezaceae	
daisy, oxeye (1)*, **	Leucanthemum vulgare	4407	peronnial	Asteraceae	
dock, cufy*	Rumex crispus	4 to 7	perennial	Polygonacoae	
evening primrose, culteaf	Oenothera laciniata	4 to 7	annual	Onagraceae	
fiddleneck, common	Amsinckia intermedia	7	annual	Boragineceze	
fireweed	Epilobium angustifolium	5 to 7	perennial	Onagraceae	
fleabane, flax-leaf	Conyza bonariensis	4 to 7	annual	Asteraceae	
hawkweed, orange (2)*, **	Hieracium aurantlacum	4 to 7	perennial	Asteracese	
hawkweed, yellow (2)*, **	Hieracium caespitosum	4 to 7	регелліаІ	Asteracoae	
herabit*	Lamium amplexicaule	5 to 7	annual/ biennial	Lamiaceae	
horsesettle, Carolisa**	Solenum carolinense	4 to 7	perennia!	Solanaceae	
horseweed (marestail)	Conyza canadensis	4 to 7	annual	Asteracese	
ironweed, talf	Vernonia gigantea	5 to 7	perennial	Asteraceae	
konweed, western	Vernonia baldwinii	7	perennial	Asteraceae	
knapweed, diffuse (3)*, **	Centaurea diffusa	5 to 7	blennlal/ perennial	Asteraceae	
кларweed, Russian (4)*, **	Acroptilon repens	5 to 7	perennial	Asteraceae	
knapweed, spotted (3)*, **	Centaurea stoebe	5 to 7	biennial/ perennial	Asteraceae	
кдарweeds	Centaurea spp.	5 to 7	biennial/ perennial	Asteraceae	
kudzu*, **	Pueraria montana	7	perennial	Fabaceae	
lady's fhumb*	Polygonum persicaria	3 to 5	aกภบอโ	Pelygonaceae	
lambaquaders	Chenopodium album	5 to 7	สถานสโ	Chenopodiaceae	
lespedeza, giviliual	Lespedoza striata	5 to 7	annual	Fabecese	
lacust, black	Robinia pseudoacacia	7	woody perennial	Fabaceae	
locust, husiey	Gleditsia triacanthos	7	woody perennial	Fabaceae	
mayweed, scentless*	Tripicurospormum perforata	4 to 7	annยย์	Asteraceae	
mayweed, stinking*, **	Anthemis cotula	7	annual	Asteraceae	
medic, black*	Medicago lupulina	4 to 6	perennial	Fabaceae	
тimosa	Albizia julibrissin	7	woody perennial	Fabaceae	
mullein (5)	Verbascum spp.	7	biennial	Scrophulariaceae	
oxtongue, bristly	Picris echicides	5 to 7	lainneid	Asteraceae	
ragweed, common**	Ambrosia artemisiifolia	3 to 5	annual (Asteraceae	
regweed, western	Ambrosia psilostachya	4 to 7	perennial	Asteraceae	
ragwort, tansy", **	Senecio jacobasa	5 to 7	perennial	Asteraceae	
redbud	Cercis Canadensis	7	woody perennial	Fabaceae	
PROT	Rosa spp.	7	Woody perennial	Rosacese	
rush skeletonwood	Chondrilla luncea	5 to 7	perennial	Антелесеве	
smarlweed, Pennsylvania	Polygonum pensylvanicum	3 to 5	annual	Polygonacoae	
sneezeweed, bitter	Helenium атылы	4 to 7	annual	Asteraceae	
soda apple, tropical (6)*, **	Solanum vlanum	5 to ?	perennial	Solanaceze	
sowthistle, perennial*, **	Sonchus arvensis	3 to 5	perennial	Asteraceae	
spanishneedles	Bidens bipinnete	1607	annual	Asteraceae	
star-thistle, Maita (7) *,**	Centaures melitensis	3 to 5	annual	Asteraceae	
starthirstle, purple (7) *.**	Centaurea calcitrapa	3 to 5	biennial	Asteraceze	
star thistle, yellow (7)*, **	Centaurea calcurapa Centaurea sulstitialis	3 to 5	annual	Asteraceae Asteraceae	
St. Johnswort, common	Hypericum perforatum	5 to 7	perennial	Clusiacoae	

Table 3: Weeds Controlled (Cont.)

Common Name	Scientific Name	Rate Range (fl oz/acre)	Life Cycle	Plant Femily
sunflower, common	Helianthus annuos	4 to 7	annual	Asteraceae
Eagsel .	Dipsacus spp.	4 to 7	blenniat	Dipsacaceae
thistie, artichoke	Cynara cardunculus	5 to 7	perennial	Asteracea
thistle, bull (6)*, **	Cirsium vulgare	3 to 5	bjeggiat	Asteraceae
thistle, Cenada (9)*, **	Cirsium arvense	5 to 7	peronulal	Asteraceae
thistie, woolly distaff	Corfhamus lanatus	4 to 7	annual	Asteraceae
thistie, Ralian	Carduus pycnocephalus	7	annual	Аятельовар
thistie, musk (8)*, **	Carduus nutans	3 to 5	blennfat	Asteraceae
thistie, piumeless (8)*, **	Carduus acanthoides	3 to 5	biennia)	Asteraceae
thistie, Scotch*, **	Onopordum scanthium	5407	biennial	Asteraces
vetch	Vicia sop.	3 to 7	регопиза	Fabaceao
wisteria	Wisteria brachybotris	7	woody perennial	Fabaceae
wormwood, absinth(10)*, **	Arternisia absinthium	6 to 7	इञ्चरकामाईस्रो	Asteraceae
yarrow, corneron	Achillea miliefallum	7	peronnial	Asteraceae

Savasive plants are introduced species that are indicated to be invasive in the USDA-NRCS, PLANTS Database (http://plants.usda.gov/index.html). **Plants designated as noxious weeds in at least one state (PLANTS Database, USDA-NRCS, http://plants.usda.gov/index.html).

- Sulfur cinquefoil or oxeye daisy: Apply Milestone at 4 to 6 thought per acre to plants in the prebud stage of development.

 Orange or yellow hawkweeds: Apply Milestone at 4 to 7 thought per acre to plants in the bolting stage of development.

 Diffuse and aported knapweeds: Apply Milestone at 5 to 7 thought per acre when plants are actively growing with the optimum time of application occurring from rosette to the bofting stages of development or in the fall. Plants will be controlled by mid-summer and fall applications even though plants may not show any changes in form or stature the year of application.
- Russian knapweed: Apply Milestone at 5 to 7 ft oz per sore to plants in the spring and summer to plants from early but to flowering stage and to domiant plants in the fall.
- Mullein: Apply to the resette stage
- Tropicat soda apple: Apply Mitestone at 5 to 7 ≴ oz per acre at any growth stage, but application by flowering will reduce seed production
- Malta, purple, and Yellow starthistie: Apply Milestone at 3 to 5 fl oz per acre to plants at the resette through boiling growth stages.

 Bull, mask, and plumetees thisties: Apply Milestone at 3 to 5 fl oz per acre in the spring and early summer to resette or boiling plants or in the fall to seedlings and resettes. Apply at 4 to 5 ft oz when plants are at the late boil through early flowering growth stages. 2,4-D at 1 lb ae/acre should be tank-mixed with Milestone starting at the late bud stages.
- Canada thistle: Apply Milestone at 5 to 7 ® oz per agre either in the spring to plants in the prebud to early bud growth stage the goal is to insure all plants have emerged. Applications are also effective in the fall before a killing frost.
- (10) Absinth wormwood: Apply 8 to 7 fl oz per acre before wormwood is 12 inches tall. When applying by air on CRP, coverage is important and a minimum of 3 GPA is specified. Semove all duff and litter by fire ar mowing for best results

Precautions for Avoiding Spray Drift

Avoid application under conditions that may allow apray drift because very small quantities of spray, which may not be visible, may injure susceptible crops. This product should be applied only when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, non-target crops and other plants) is minimal (e.g., when wind is blowing away from the sensitive areas. A drift control ald may be added to the spray solution to further reduce the potential for drift. If a drift control sid is used, follow the use directions and precautions on the manufacturer's label. Do not use a thickening agent with Microfoli, Thru-Valve booms, or other spray delivery systems that cannot accommodate thickened spray solutions.

Ground Equipment: With ground equipment spray drift can be reduced by keeping the spray boom as low as possible; by applying 10 gallons or more of spray per acre; by keeping the operating apray pressures at the manufacturer's specified minimum pressures for the specific nozzle type used (fow pressure nozzles are available from spray equipment manufacturers); and by spraying when the wind velocity is low (follow state regulations). Avoid calm conditions which may be conducive to thermal inversions. Direct sprays no higher than the tops of target vegetation and keep spray pressures low enough to provide совияе ярхву droplets to minimize difft.

Aerial Application: Avoid spray drift at the application site. The Interaction of many equipment and weather related factors determine the potential for spray drift. Users 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:

- The distance of the outer most operating nozzles on the boom must not exceed 75% of wingspan or 85% of the rotor diameter.
- Nozzles should be pointed backward parallel with the air stream or not pointed downwards more than 45 degrees.

State regulations must be followed.

The applicator should be familiar with and take into account the information covered in the following Aerial Drift Reduction Advisory. This information is advisory in nature and does not supersede mandatory label requirements.

Aerial Drift Reduction Advisory

Information on Droptet Size: The most affective 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 crift it 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. Mozzles with higher rated flows produce larger droplets.

- Pressure Do not exceed the nozzle manufacturer's specified pressures. For many nozzle types lower pressure produces larger droplots. 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 will provide uniform coverage.
- Nozzle Orientation Orient rozzles so that the soravis released parallel to the airstream to produce larger droplets than other orlentations. Significant deflection from notizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzie types, narrower spray angles produce larger droptets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lawest drift.

Boom Longth: The distance of the outer most operating pozzles on the boxim must not exceed 75% of wingspan or 85% of rotor diameter.

Application Reight: Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe aduces 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 speads of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be ayojded 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 driff.

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 local, low level temperature inversion because drift potential is high. Temperature inversions restrict vertical als 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 similard choud 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 the smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, white smake that moves upward and rapidly dissipates indicates good vertical air mixing.

Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Bisks of Use and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. To the extent permitted by law, otherwise, use by the buyes or any other aser constitutes acceptance of the terms under Warranty Disclaimer, Inherent Bisks of Use and Limitation of Remedies.

Warranty Disclaimer

Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent permitted by law, Dow AgroSciences MAKES NO OTHER EXPHESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICLE AR PERPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Crop Injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soll conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, burricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. To the extent permitted by law, all such risks shall be assumed by buyer.

Limitation of Remedies

To the extent permitted by law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

- Refund of purchase price paid by buyer or user for product bought,
- Replacement of amount of product used.

To the extent permitted by faw, Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unloss Dow AgroSciences is promptly notified of such loss or damage in writing, To the extent permitted by faw, in no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Wagranty Disclaimer or this Limitation of Remedles in any manner.

Firedemark of Dow AgroSciences LLC

Produced for Dow AgroSciences LLC Indianapolis, IN 46268

Label Code: 002-880-003 Replaces Label: D02-880-002 LOES Number: 010-02121

EPA accepted 12/4/89

Revisions:

- 1. Added advisory and graphics to prevent injury to desirable plants
- Added restrictions on grasses grown for hay intended for export, grasses grown for seed, turf, and poisonous plants. Revised Storage and Disposal

Specimen Label



Dow AgroSciences



HERBICIDE

^bTrademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

For control of annual and perennial weeds and woody plants in natural and production (plantations), forests for site preparation, mid-rotation release treatments, timber stand improvement activities, noncrop sites including industrial sites, rights-of-way (including roadsides, electric utility and communication transmission lines, pipelines, railroads, airports), irrigation and drainage ditches, canals, reservoirs, natural areas (including wildlife management areas, wildlife openings, wildlife habitats and refuges, parks and recreational areas, campgrounds, trailheads and trails), rangeland, and in and around aquatic sites and wetlands; also for perennial grass release, and grass growth suppression and grazed areas on these 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.

Group		HERBICIDE :
Active Ingredient: glyphosata i N-(phosp	hanamethvijalvelna.	
		53.8%
Other Ingredients		
		100.0%
1		

†Contains 5.4 to per gallon glyphosate, isopropytamine salt (4 lb per gallon glyphosate acid).

Precautionary Statements

Hazards to Humans and Domestic Animals

SPA Reg. No. 62719-324

CAUTION

Harmful If Inhaled

Avoid breathing spray mist. Remove contaminated clothing and wash before reuse. Wash thoroughly with scap and water after handling.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes pšus socks.

Follow manufacturer's instructions for cleaning/mainfaining PPE. If no such instructions for washables, 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 posticides [40 CFB 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 tollet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an amhulance, than give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Bave 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.

Environmental Hazards

Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Treatment of aquatic weeds can result in oxygen depletion or less due to decomposition of dead plants. This oxygen less can cause tish suffocation.

in case of leak or spill, soak up and remove to a landfill.

Physical or Chemical Hazards

Sprey satisfies 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 apray solutions of this product in galvanized steel or unlined steel (except stainless stool) 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 flams, spark, welder's forch, lighted digarette 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 cazefully 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 shrough drift. Only protocted 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, nursevies, 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:

- Coverails
- . Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Non-Agricultural Use Requirements

The requirements is this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pestloidas (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 apray solution has dried,

Storage and Disposal

Do not confaminate water, food, feed or seed by storage or disposal. Pesticide Storage: Store above 10°F (-12°C) to keep product from crystallizing. Crystals will settle to the bottom. If allowed to crystallize, place in a warm room BB°F (20°C) for several days to redissolve and roll or shake container or recirculate in mini-bulk containers to mix well before using.

Pesticide Disposal: Wastes resulting from use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for posticide disposation in accordance with applicable Federal, state or local procedures.

Norretiliable containers 5 gallons or less:

Container Handling: Norrefillable container. Do not rease 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 seriorida. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow bogins to disp. 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 finsate for later use or disposal. Insert pressure rinsing nezzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 30 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.

Refiliable containers larger than 5 gallons:

Container Handling: Refilable container. Hefill 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 before final disposal, empty the remaining contents from this 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 rineate into application equipment or rineate collection system. Repeat this finsing procedure two more times. Then offer for rocycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Nonrefiliable containers 5 gallons or larger:

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

Triple finse 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 and 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. Hepast 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 of collect rinsate for later use or disposal. Insert pressure rinsing nazzie in the side of the contener, 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 sankary landfill, or by incineration, or by other procedures allowed by state and focal authorities.

Product Information

This product is a broad spectrum, systemic, posteniergent 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.

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 are a gradual writing and yellowing of the plant that advances to complete browning of effects or most annual weeds occur within two to four days, but on most percential weeds visible effects may not occur for seven days or more. Extremely cool or cloudy weather

following treatment may slow the activity of this product and delay development of visual symptoms.

Stage of Weeds: Annual weeds are easiest to control when they are small. Bost control of most parennial weeds is obtained when treatment is made at late growth stages approaching maturity. Refer to the annual, perennial and woody brush and trees rate tables for specific weeds. Always use the higher rate within the rate range for heavy or dense weed growth or when weeds are growing in an undisturbed (noncultivated) area. When treating weeds with disease or insect damago, weeds heavily covered with dust, or weeds under pour growing conditions, reduced weed control may result.

Cultural Considerations: Reduced control may result when applications are made to aroual or personal 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.

Spray Coverage: For twist results, spray coverage should be uniform and complete.

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.

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. Unemorged plants arising from unattached underground rhizomes or rootstocks of perennials will not be affected by the herbicide and will continue to grow.

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

Maximum Application Rates: The maximum application rates specified in this fabol are given in units of volume, either fluid ources, 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- or sulfacette-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- or sulfacette-containing product is applied to the same site within the same year, ensure that the total of pounds acid equivalent glyphosate does not exceed the maximum allowed.

Do not apply more than 8 quasts of this product (8 lb glyphosate acid) per acre per year for all use sites listed on this label.

IMPORTANT: When using this product, unless otherwise specified, mix with a surfactant, such as a nonionic surfactant containing 80% or greater active ingredient. For conifer release (pine release) use only surfactants that are approved for conifer release and specified on the surfactant label as safe for use in conifer release (pine release). Use of this product without surfactant will result in reduced herbiddo performance. Ammonlum suifate, drift control additives, or dyes and colorants may be used. See Mixing Directions and the surfactant manufacturer's label for more information.

Grazing Restrictions: This product may be used to freet undestrable vegetation in utility rights-of-way that pass through postures, rangeland, and forestry sites that are being grazed. For tank mix applications, comply with all restrictions appearing on the tank mix product label.

Except for lactating dairy animals there are no grazing restrictions following the labeled applications of this product.

For lactating dairy animals there are no grazing restrictions for the following labeled applications of this product:

- Where the spray can be directed onto undesirable woody brush and trees, including in handgun spray to wet or low volume directed spray treatments.
- For tree injection of frill applications and for out stump treatments.

For broadcast applications, observe the following restrictions for factating dairy animals:

- For application rates between 4.5 and 7.5 quarts per acre, no more than 15 percent of the available grazing area may be treated.
 For application rates less than 4.5 quarts per acre, no more than
- For application rates less than 4.5 quarts por acre, no more than 25 percent of the available grazing size, may be freated.

These restrictions do not apply to pastures, rangeland or forestry sites outside of utility rights-of-way.

Herbicide Resistance Management

Glyphosate, the active ingredient in this product, is a group 9 herbicide (inhibitor of EPSP synthase). Some naturally occurring wood blotypes that are tolerant (resistant) to glyphosate may exist due to genetic variability in a weed population. Where resistant biotypes exist, the repeated use

of harblaides with the same mode of action can lead to the selection for resistant weeds. Gertain 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 apacies.
- Start with a clean field by applying a burndown herbicide or by tillage.
- Control weeds early when they are small.
- Add other herbicidés, including a selective and/or a residual herbicide, and cultural practices, including 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 afficient through entagonism or with ones that encourage application rates of this product below those specified on this label.
- Control wood escapes and prevent woods from setting seeds.
- In situations where resistant weeds are a problem, 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 retaller, 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 herblolde with a different mode of action to achieve control if a naturally occurring resistant biotype is present in the site.
- Cultural and mechanical control practices, including crop rotation or tillage, may also be used.
- To control weed escapes, including resistant biotypes, before they set seed, scout treated sites after applying this product.
- Thoroughly clear equipment before leaving any site known to contain resistent 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 woods.

Attention

Avoid contact of herbicide with foliage, green stems, exposed nonwoody 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 lavor spray drift. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or time 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 must 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 supersede the mandatory label requirements.

Importance of Droplet Size: The most effective way to reduce drift soteptial 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 it applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Remidlity, and Temperature Inversions).

Controlling Droplet Size:

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows product largor 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.
- nazzles instead of increasing pressure.

 Number of Nazzles Use the minimum number of nazzles 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 beam 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.

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

Wind: Orift potential is towest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Do not apply this product when wind speed is 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. Oroplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Do not apply this product during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droptets 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 attitude 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 as inversion, while smoke that moves upwards and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas: Apply this postloide only 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. 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.

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, including visibly muddy water or water from pends and ditches that is not clear.

Rodeo - Alone

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 clean water.
- Add the specified amount of this product end nonlonic surfactant near the end of the filling process and mix well.
- 3. During miking and application, feaming of the spray solution may occur. To prevent or minimize feaming, 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-feam or defeaming agent.

Rodeo - Tank Mix

This product does not provide residual weed control. For residual weed control or an atternate 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 appearing to the most restrictive label directions for each product in the mixture.

Onder certain conditions, at certain growth stages, and/or under other circumstances, some tank mix products have the potential to cause injury. Read all labels for products used in the tank mix prior to using them to determine the potential for crop injury.

Tank mixing with other herbicides, insecticides, fungicides, micronutrients or foliar fertilizers may result in reduced weed control or injury. Do not use these products in applications with this product unless otherwise noted in this 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 berbicides 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.

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 ingradient, including 2,4-D, arealine, dicamba, dicron, or pendimethalin, is used.

Read all individual product labets for all products in the tank mix and observe all precautions and restrictions on the labet. Use according to the most restrictive directions for each product in the tank mix. Always practermine the compatibility of all tank mix products, together in the carrier, by mixing small proportional quantities in advance of mixing and applying them to the use site. Add the tank mix product to the tank as directed by the labet. Maintain agitation and add the required amount of this product.

Maintain good agitation at all tintes until the contents in the tank are sprayed. If the mixture is allowed to sottle, therough 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 must be no finer than 50 mash.

Note: If tank mixing with Garson[®] 3A herbicida, ensure that Garlon 3A is well mixed with at least 75 percent of the total spray volume before adding this product to the spray tank to avoid incompatibility.

Hand-Held Sprayers

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

Nonionic Surfactant

When using this product, unloss otherwise specified, mix with a surfactant, including a nonionic surfactant containing 80% or more active ingredient. For conifer release (pine release), use only surfactants that are approved for conifer release and specified on the surfactant label as safe for use in conifer release. Using this product without surfactant will result in reduced herbicide performance.

Colorants or Dyes

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

Drift Control Additives

Drift control additives may be used with all equipment types except wiper applicators, sponge bars and CDA equipment. When a drift control additive is used, read and carefully observe the precautionary statements and all other information appearing on the additive label.

Application Equipment and Application Methods

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

Apply spray solutions in property maintained and calibrated equipment capable of delivering desired volumes.

This product may be applied with the following application equipment and application methods.

Aerial Application

Equipment: Fixed wing and helicopter

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

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

Oo 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 fess 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 airefeern 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 tabet.

Ensure uniform application. To avoid streaked, eneven or overapped application, use appropriate marking devices.

Aerial Application Restrictions in California Only

AVOID ORIH: Do not apply when winds are gusty or under any other condition which favors drift. Drift may cause damage to any vegetation contacted to which treatment is not intended. To prevent injury to adjacent desirable vegetation, appropriate buffer zones must be maintained.

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

Make aerial applications with helicopter only. To ensure uniform application, avoid streaking, uneven, or overlapped application, and use appropriate marking devices.

Use the following guidefines when serial applications are made near crops or desirable perennial vegetation after budbreak and before total leaf drop, and/or near other desirable vegetation or annual crops:

- Do not apply this product using aerial equipment in residential areas.
- Do not apply within 160 feet of all desirable vegetation or crop(s).
- If wind up to 5 miles per hour is blowing toward desirable vegetation or crop(s), do not apply within 500 feet of the desirable vegetation or crop(s).
- Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crop(s) may require buffer zones in excess of the 500-foot minimum buffer.
- Do not goply when winds are in excess of 10 miles per hour or when inversion conditions exist.

Use only coarse sprays to minimize drift. Do not use nezzles or nezzle configurations that dispense spray as fine spray droplets. Do not angle nezzles forward into the airstream and do not increase spray volume by increasing nezzle pressure above the manufacturer's directions.

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. Prolonged exposure of this product to uncoated steel surfaces may result in corrosion and possible failure of the part. Landing gear is most susceptible. The maintenance of an organic coating (paint) which meets aerospace specification MtL-C-38413 may prevent corrosion.

ADDITIONAL LIMITATIONS FOR AERIAL APPLICATION IN FRESNO COUNTY, CALIFORNIA ONLY

Always read and follow the label directions and precautionary statements for all products used in the agrial application.

The following information applies only from February 15 through March 31 within the following boundaries of Fresno County, California: North: Fresno County line

South; Fresno County line East, State Righway 99 West Observe the following directions to minimize off-site movement during aerial application of this product. Minimization of off-site movement is the responsibility of the grower, Pest Control Advisor and aerial applicator.

Written Directions

Written directions MUST be submitted by or on behalf of the applicator to the Fresho County Agricultural Commissioner 24 hours price to the application. These written directions MUST state the proximity of surrounding crops and that conditions of each manufacturar's product tabel and this tabel have been satisfied.

Aerial Applicator Training and Equipment

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

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

To report known or suspected misuse of this product, call 1-800-332-9111. For additional information on the proper serial application of this product in Fresho County, call 916 - 784-1718.

Aquatic and Noncrop Sites

When this product is applied under the conditions described, it controls or partially controls the labeled weads growing in the following industrial, recreational, and public areas or other similar sites.

Aquatic sites includes all bodies of fresh and brackish water that may be flowing, nonflowing, or transient including takes, rivers, streams, pands, scops, irrigation and drainage ditches, canals, reservoirs, estuaries and similar sites.

If aquatic sites are present in the noncrop area and are part of the Intended treatment, read and observe the following directions:

- This product does not control plants that are completely submerged or have a majority of their foliage under water.
- There is no restriction on the use of treated water for irrigation, recreation, or domestic purposes.
- Consult local and state fish and game agency and water control authorities before applying this product to public water. Permits may be required to treat such water.
- To make aquatic applications around and within 1/2 mile of active potable water Intakes, the water Intake must be turned off for a minimum period of 48 hours after the application. The water intake may be turned on prior to 48 hours if the glyphosate level in the intake water is below 0.7 parts per million as determined by laboratory analysis. These aquatic applications may be made only in those cases where there are alternative water sources or holding pends that would permit the turning off of an active potable water intake for a minimum period of 48 hours after the application.

Restrictions:

Do not apply this product within 1/2 mile upstream of an active potable
water intake in flowing water (i.e., river stream, etc.), or within 1/2 mile
of an active potable water intake in a standing body of water, such as a
lake, pond, or reservoir.

Ground Application

Equipment: Boom or boomless systems, pull-type sprayer, floaters, pick-up sprayers, spray coupes and other ground broadcast equipment.

The the precitied rates of this product in 3 to 40 dellars of water per sec

Use the specified rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified on this tabol. As density of weeds increases, increase the spray volume within the rate range to ensure complete coverage. Carefully select proper nozzles to avoid spraying a fine mist. For best results with ground application equipment, use that fan nozzles. Check for ever distribution of spray droplets.

Broadcast Application for Control of Undesirable Competitive Vegetation in Larch (*Larix* spp.) Plantations in Maine

Apply this product to control or reduce competition from undesirable vegetation in Larch (Lank spp.) plantations in the state of Maine.

Application Timing

Apply only after lightfloation has occurred in 50% or more of the current year's terminal growth.

Application Directions

Broadcast Spray: Use 1 to 3 quarts of this product per acre. Apply in a total spray volume of 10 to 60 gallons per acre using ground equipment or 5 to 15 gallons per acre if applied serially. Up to 30 ft oz of Entry il surfactant may be added.

Directed Sprays: This product may be applied as a directed spray for competitive release of larch. Avoid contact of spray drift, mist or drips with follage, green bank or non-woody surface roots of desirable plants. See Application Equipment and Application Methods of the product label.

Injury to larch may occur, especially where spray patterns overfas or filgher rates of this product or surfactant were applied. Demage can be accentuated if application is made when larch is actively growing or is under stress. Make applications only if some level of injury to larch is acceptable.

Hand-Held and High-Volume Including Backpack Application Equipment: Knapsack and backpack sprayers, pump-up pressure sprayers, handgurs, hand wands, misiblowers, lances, and other hand-field and motorized spray equipment used to direct the spray onto weed follage. Note: This product is not registered in Arizona or California for use in misiblowers.

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 best results, cover the top helf of the plant and at least half of the total foliage. To ensure adequate spray coverage, spray both sides of large or tall woody brush and treus, when foliage is thick and dense, or where there are multiple sprouts.

High Volume Sprays: Prepare a 3/4 to 2 percent solution of this product in water, add a nonionic surfactant and apply to foliage of vegetation to be controlled. For specific rates of application and instructions for control of various annual and perennial weeds, see the Weeds Controlled section.

Make applications on a spray to wat basis with uniform and complete spray coverage. Do not spray to point of runoff.

Low Volume Directed Sprays: This product may be used as a 5 to 10 percent solution in low volume directed sprays for spot treatment of trees and brush. This treatment method is most effective in areas where there is a low density of undustrable trees or brush. If a straight stream nozzle is used, start the application at the top of the targeted vegetation and spray from top to bottom in a lateral zigzag motion. Ensure that at least 50 percent of the leaves are contacted by the spray solution. For flat fan and cone nozzles and with hand-directed mist blowers, mist the application over the foliage of the targeted vegetation. Treat small, open-branched trees only from one side. If the foliage is thick or there are multiple root sprouts, apply from several sides to ensure adequate spray coverage. Propare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table.

Spray Solution:

Desired		Amount of This Product							
Volume	0.5	0.75	1	1.25	1.5	2	5	8	10
1 gal	2/3 fl oz	t ⊈oz	1 {/3 fl oz	1 2/3 fl oz	2 fl oz	2 2/3 fl oz :	6 5/2 fl oz	10 1/4 fl oz	13 fi oz
25 gal	1 pt	1 3/2 pt	1 qt	1 1/4 qt	1 1/2 qt	?qt	1 1/4 gal	2 gal	2 1/2 gal
100 gat	2 qt	3 qt	1 gal	1 1/4 gat	3 3/2 gal	2 gal -	5 gel	8 gal	10 gal

² Tablespoons = ! fl oz

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

Selective Equipment

Equipment: Recirculating sprayers, strietded and hooded sprayers, wiper applicators and sponge bars.

Do not contact desirable vegetation with herbloide. Dropfets, mist, foam, or splatter of the herbloide settling on desirable vegetation is fikely 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 shiolded or hooded applicator disects the herbicide solution anto 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 profect desirable vegetation. Exercise extreme care to avoid contact of the 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 wiper applicators 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 ereas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if two applications are made in apposite directions.

Droptets, mist, foam, or splatter of the herbicide settling onto desirable vegetation may result in discoloration, stunting or destruction. Avoid leakage or dripping onto destrable vegetation. Adjust height of applicator to ensure adequate contact with weeds. Keep wiping surfaces clean. Be aware that on stoping ground the herbicide solution may migrate, causing dripping on the fewer and and drying of the wicks on the upper and 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 whose parts by thoroughly flushing with water immediately after using this product.

For best results, use a nonionic surfactant at a rate of 10 percent by volume of total herbicide solution for all wilper applications.

Injection Systems

Equipment: Aerial or ground injection sprayers.

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.

Controlled Droplet Applicator (CDA)

Equipment: Hand-held or boom-mounted applicators that produce a appay consisting of a narrow range of droplet sizes.

The rate of this product applied per acre by vehicle-mounted CDA equipment must not be less than the amount specified on 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 annual weeds with hand-held CDA units, apply a 20 percent solution of this avoduct at a flow rate of 2.9 oz per minute and a walking speed of 1.5 mph (1.1/2 pints of product per scre). For control of parennial woods, apply a 20 to 40 percent solution of this product at a flow rate of 2.9 oz per minute and a walking speed of 0.75 mph (3 to 6 pints of product per acre).

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

Use Sites

Use this product in noncrop areas, including airports, apartment complexes, aquatic sites, Christmas tree farms, commercial sites, Conservation Roserve Program (CRP) areas, ditch banks, driveways, dry ditches, dry carals, fencerows, golf courses, graerhouses, habitat management, industrial areas, fumber yards, manufacturing sites, municipal sites, natural areas, office complexes, ornamentals, parking areas, parks, pastures, petroleum tank farms and pumping installations, plant nurseries, public areas, raifroads, rangeland, recreation areas, utility rights-of-way, roadsidos, shadehousus, sod or turf seed farms, sports complexes, storage areas, substations, turfgrass areas, utility sites, warchouse areas, wildlife habitat management areas, and in grazed areas on these sites.

Aquatic Sites

This product may be applied to emerged weeds in all bodies of fresh and brackish water that may be flowing, nonflowing or transient including lakes, rivers, streems, ponds, estuaries, rice fevees, seeps, irrigation and drainage ditches, casals, reservoirs, wastewater treatment facilities, wildlife habitat restoration and management areas and similar sites.

If aquatic sites are present in the noncrop area and are part of the intended treatment, read and observe the following directions:

- This product does not control plants that are completely submerged or have a majority of their foliage under water.
- There is no restriction on the use of treated water for irrigation, recreation or domestic purposes.
- Consult local and state fish and game agency and water control authorities before applying this product to public water. Permits may be required to treat such water.
- To make aquatic applications around and within 1/2 mile of active potable water intakes, the water intake must be turned off for a minimum period of 48 hours after the application. The water intake may be turned on prior to 48 hours if the glyphosate level in the intake water is below 0.7 parts per million as determined by laboratory analysis. These aquatic applications may be made only in those cases where there are alternative water sources or holding ponds which would perwift the turning off of an active potable water intake for a minimum period of 48 hours after the application.
- For treatments after draw down of water or in dry ditches, allow 7 days
 or more after treatment before reintroduction of water to achieve
 maximum weed control. Apply this product within 1 day after draw
 down to ensure application to actively growing weeds.
- Floating mats of vegetation may require retreatment. Avoid wash off
 of sprayed foliage by spray boat or recreational boat backwash or by
 rainfall within 6 hours of application. Do not re-treat within 24 hours
 following the initial treatment.
- Applications made to moving bodies of water must be made while traveling upstream to prevent concentration of this herbloide in water.
 When making any bankside applications, do not overlap more than 1 foot into open water. Do not spray in bodies of water where weeds do not exist. The maximum application rate of 7.1/2 pints per acre must not be exceeded in any single broadcast application that is being made over water.
- When amerged infestations require treatment of the total surface area of impounded water, treating the area in strips may avoid oxygen depletion due to decaying vegetation. Oxygen depletion may result in tish kilt.

Restrictions:

 Do not apply this product directly to water within 1/2 mile upstream of an active potable water intake in flowing water (i.e., river, stream, etc.), or within 1/2 mile of an active potable water intake in a standing body of water, such as a lake, pond or reservoir. This restriction does not apply to intermittent inadvertent overspray of water in terrestrial use sites.

Wetland Sites

This product may be applied to undesirable vegetation in and around water (aquatic areas) and wetlands found in forestry, utility rights-of-way sites or other site listed on the fabel, including where these sites are adjacent to or surrounding domestic water supply reservoirs, supply streams, takes and ponds.

If wetland sites are present, read and observe the following directions:

- There is no restriction on the use of treated water for irrigation, recreation or domestic purposes.
- Consult local public water control authorities before applying this
 product in and around public water. Permits may be required to weat in
 such areas.

Restrictions:

- Do not apply this product directly to water within \$72 mile upstream of an active potable water intake in flowing water (i.e., river, stream, etc.), or within 1/2 mile of an active potable water Intake in a standing body of water, such as a lake, pond or reservoir. This restriction does not apply to intermittent inadvartant overspray of water in terrestrial use sites.
- · Do not spray open bodies of water where woody brush, trocs and herbaceous weeds do not exist. Do not apply more than 3 3/4 quarts per acre in a single over water broadcast application except in stream crossings in utility right-of-way or where applications will result in less than 20 percent of the total water area being treated. In either of these locations, any specified rate may be applied:

Christmas Tree Plantations

Broadcast Application (Gregoriand Washington Only).

Broadcast apply this product over the established Christmas tree species Douglas fir (Pseudotsuga menzicsil), fir species (Abies spp.), plne species (Pinus spp.) (except eastern white, lobbilly, longlest, shortlest, slash), and spruce species (Pices spp.). Use 1 quart of this product per acre in 5 to 30 gallons of water par acro. For best results, add up to 10 flioz of Entry It surfactant per sore. If using a different surfactant, tollow the manufacturer's directions for use and ensure conifor safety has been adequately tested for that surfaction. Apply after trees have completed at least a full growing season since planting or transplanting.

Apply only in the fall after the formation of the final conifer resting buds or in the spring prior to initial bud swelt. Final resting buds must be fully hardened and in the dormark stage. Applying this product at any other time may result in unacceptable injury to the Christmas tress. Avoid spray pattern overlan as injury may occur.

In some areas, 1 to 2 quarts of this product per acre may be used. Consult your local representative for specific use instructions if rates greater than 1 quart per acre are required.

For best results, do not use drift control additives as they may increase injury to Christmas trees.

Precautions and Restrictions:

- Preharvest Interval: On not apply within 1 full year prior to tree harvest.
- Ensure that adoquate buffers are maintained to prevent difft onto nearby desirable crops or vegetation.

Cut Stump

Treat out stumps in any noncrop site fisted on this label. This product will control regrowth of freshly out 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 carriblium. Gut trees or resprouts close to the soil surface. Apply a 50 to 100 percent solution of this product to freshly out 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.

When used according to directions for out stump application, this product will control, partially control or suppress most woody brush and free species, some of which are listed below:

Common Name қфег coyotebrush¹ dogwood¹ eccalyptus hickotý: madrone, Pacific maple1 aak poppertree, Brazilian Australian-pine, poplar: reed, giant sattcedar sweetgum¹ sycamore^s

tán oak

wallegor

Scientitic Name Alnus spp. Baccharis pilularis Consus spp. Eucalyptus app. Caryá spp. Arbutus menziesil Acer app. Quercus spp. Schlaus tereblathifelius Casuarina equisetifolia Populus app. Arundo donax Tamarix ramosissima Liquidambar styrecifiue

Platanus occidentalis

Lithecarous donsifiorus

Salix spp. ¹Do not use this product on these species in the state of California.

Precautions and Restrictions:

- Do not make out 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 ago, height and spacing may Indicate shared roots.
- Injury is likely to accur to non-treated stems or trees when one tree or more that shares a common root is troated.

Injection and Frill (Woody Brush and Trees)

Woody vegetation may be controlled by injection or frill application of this product. 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 frunk diameter at breast height (DBH). This is best achieved by applying 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 free 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 fritled or out areas in species that exude sap freely. In species such as this, make frill or outs 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 full leaf expansion.

This product controls the following woody species:

Common Name Scientific Name oak Опетия врф Populus spp. Liquidambar styraciflua Platanus occidentalis poplar sweetgum svcamore

This product suppresses the following woody species:

Scientitic Name Common Name Nyssa sylvatica Comus spp. błackgum¹ dogwood Carya spp. hickory maple, red Acer robrom

10o not use this product on these species in the state of California.

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, eucalyotus, hybrid tree cultivars and silvicultural nursery sites. Unless otherwise specified, make applications of this product for control or partial control of herbaceous weeds, woody brush and trees listed in the Weeds Controlled section.

Application Rates

Method of Application	Rate	Spray Volume (gal/acre)
Broadcast		
aerial	1.5 - 7.5 qt/acro	5 - 30
graund	1	10 - 60
Spray to Wet		
handgun, backpack	0.75 - 2%	spray to wet
mistblower	by volume	
Low Volume Directed Spray ¹		
hалбдил, backpack	5 - 10%	partial coverage
misthlower	by volume	

¹ For low volume directed spray applications, coverage should be uniform with at least 50% of the foliage contacted. For best results, coverage of the top one-half of the plant, including the growing tip, is important (over the top and down coverage). To ensure adequate spray coverage. apray all sides of large or tall woody brush and trees, when foliage is thick and dense, or where there are multiple sanse or tall sprouts.

Use a higher rate in the rate sange for control or partial control of woody brush, traes and hard to control parennial herbaceous weeds. For best results, apply to actively growing woody brush and trees after full leaf expansion and before leaf drop. Use increased rates within the rate range to control perennial herbaccous woods from emergence up to the appearance of seedheads, flowers or berries. Use a lower rate in the rate range to control annual horbaceous weeds and actively growing perennial herbaceous weeds after seedheads, flowers or betries appear. Apply to foliage of actively growing annual herbaceous weeds anytime after amergence.

This product has no herbicidal or residual activity in the soil. Where repeat applications are necessary, do not apply more than Biguarts of woduct per acre per year.

Tank Mixes

This product may be used in tank mix combination with other herbloide 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. Any specified rate of this product may be used in a tank mix.

Note: For forestry site preparation, make sure the tunk 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:

Product	Method of Application	Rate
Milestone VM1	broadcast ³	5 – 7 fl oz/acre
Garlon 3A²		1 – 4 qt/acre
Garlon 4		
Arsenal Applicators Concentrate		2 – 16 fl oz/acre
Escort		1/2 - 1 1/2 oz/acre
Chapper		4 – 32 fl az/eara
Oust XP		I 4 oz/acre
Arsenal Applicators Concentrate	spray to wet	1/32 – 1/2% by volume
Arsenal Applicators Concentrate	low volume directed spray	1/8 – 1/2% by valume

¹Use Milestone VM only in those states that have a Special Local Need label for use in forestry.

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

Aerial Application

Acrially apply this product by helicopter only in forestry sites. See Aerial Application in Application Equipment and Application Methods for more details.

Ground Application

Apply this product using suitable ground equipment for broadcast applications in forestry sites. See Ground Application in Application Equipment and Application Methods for more details. Unless otherwise specified, apply the specified raises of this product as a broadcast apray in sufficient spray volume to grovide complete and uniform coverage of plant follage. Check for even distribution throughout the spray pattern.

Hand-Held and Backpack Application

Apply this product using handgun and backpack equipment in forestry sites. See Hand-Held and Backpack Application in Application Equipment and Application Methods for more details. For apray to wet applications, coverage should be uniform and complete, but not to the point of runoff.

This product may be used for low volume directed sprays for spot treatment of trees and brush. It is most effective in areas where there is a low density of undesirable trees or brush. For flat fan and cono nozzlos, spray the foliage of the targeted vegetation. Small, open branched trees need only be treated from one side. If the foliage is thick or there are multiple most sprays, apply from several sides to ensure adequate spray coverage.

Forestry Conifer and Hardwood Release

Directed Sprays and Selective Equipment

Apply this product as a directed spray or with selective equipment in forestry conifer and hardwood sites, including Christmas tree plantations and silvicultural nurseries. A surfactant must be used with this product. Use only surfactants approved for conifer release and specified on the surfactant label as safe for use in conifer release (pine release). Using this product without a surfactant will result in reduced herbicide performance. See Mixing Directions and Application Equipment and Application Methods sections.

Avoid contact of apray drift, mist or drips with tollage, green bank or nonwoody surface roots of desirable plant species.

Tank Mixos: When tank mixing, road 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.

Broadcast Application Outside Area of Southeastern United States Apply this product as a broadcast application for refease of Douglas iir (Pocudotsuga menziosii), fir (Abios species), hemlock (Tsuga species), pines (Pinus species) (includes all species except lobibility, tonglest, shortleaf, or slash), and California redwood (Sequoris species) outside the area of the southeastern United States. Apply this product as a broadcast application only after formation of final coniter resting buds in the fall or prior to initial bud swelling in the spring. Note: Except where specified, make broadcast applications of this product only where conifers have been established for more than one year.

Injury may occur to conifers treated for release, especially where spray patterns everlap or the higher rates are applied. Damage can be accentuated if applications are made when conifers are actively growing, are under stress from drought, flood water, improper planting, insects, animal damage or diseases.

Apply 3/4 to 1.1/2 quarts per acre as a broadcast spray. Apply 3/4 to 1.1/8 quarts of this product per acre to release Douglas fit, pine and sprace species at the end of the first growing season (except California), Ensure all conifers are well hardened off.

A surfactant must be used with this product for optimum wood control. Use only surfactants approved for use in over the top release applications. Using this product without a surfactant will result in reduced herbicide performance. For best results, do not use a surfactant for release of hemlook species or California redwood. In mixed conifer stands, injury to these species may result if a surfactant is used. See Mixing Directions and Application Equipment and Application Methods sections.

For release of Douglas fir, a nonionic surfactant for over the top foliar spray may be used. To avoid possible confer injury, use nonionic surfactants at 2 flips per acce at elevations above 1500 feet, or 1 flips per acce in the coastal range or at elevations below 1500 feet. Using a higher rate of surfactant may result in unacceptable confer injury. Ensure the ponionic surfactant has been adequately tested for safety to Douglas fir before using.

Tank Mixes with Oust XP: Apply 3/4 to 1 1/2 quarts of this product with 1 to 3 oz of Oust XP per soze to release jack pine and white. Use 1 to 1 1/2 oz of Oust XP per acre with this product to release white pine. Make applications to actively growing weeds as a broadcast spray over the top of established conifers. Make applications after formation of conifer resting bads in the late summer or fall.

Tank Mixes with Arsenal Applicators Concentrate: Apply 3/4 to 1.1/8 quarts of this product with 2 to 6 fl oz of Arsenal Applicators Concentrate per acre to release Douglas fir. Apply 1.1/2 quarts of this product with 1 to 2.1/2 fl oz of Arsenal Applicators Concentrate per acre to release balsam fir and red spruce.

In Maine and New Hampshire, apply up to 2 1/4 quarts of this product per acre to control or suppress difficult to control bardwood species. For the release of red pine, balsam fir, red spruce, white spruce, Norway spruce, and black spruce with dense tough to control brush, and where make up a large component of the notesirable trees, this product may be tank mixed with 1 to 2 1/2 floz of Arsenal Applicators Concentrate and 1 to 3 oz of Oust XP per acre. Apply this mix as a broadcast spray.

Broadcast Application in Southeastern United States

Apply this product as a broadcast application for release of lobiolly pine (Plnus taeda), eastern white pine (Plnus strobus), shortleaf pine (Plnus ethinata), slash pine (Plnus ethiotii), Virginia pine (Plnus virginiana), and fongleaf pine (Plnus palustris) in the southeastern United States.

Apply 1.3/8 to 1.7/8 quarts of this product per ecre as a broadcast spray during late summer or early fall after the confers have hardened off. For applications at the end of the first growing season, use 3/4 quart of this product alone or in a tank mix.

Tank Mixes with Arsenal Applicators Concentrate: For conifer release, apply 3/4 to 1 1/2 quarts of this prodect with 2 to 16 fl oz of Arsenal Applicators Concentrate per acre as a broadcast spray. Use only on conifer species that are labeled for over the top spray for both products. Use the higher specified rates for dense tough to control wood brush and frees.

Herbaceous Release

When applied as directed, this product plus listed residual herbicides provide postemergence control of the annual weeds and control or suppression of the perennial weeds listed in this label, and residual control of the weeds listed in the residual herbicide label. Make applications to actively growing weeds as a broadcast spray over the top of labeled confers.

Use a surfactant labeled for use in over the top herbaceous refease applications. Using this product without a surfactant will result in reduced herbicide performance. See Mixing Directions and Application Equipment and Application Methods sections on this tabel.

^eEnsure that Gazlon 3Á is thoroughly mixed with water before adding this product. Agitation is required while mixing this product with Gazlon 3A to avoid compatibility problems.

When using a tank mix partner, up to the maximum labeled rate for a treatment site may be applied in combination with this product.

Wood control may be reduced if spray solution water volumes exceed 25 gailons per sore for these treatments.

Tank Mixes with Oust XP: Apply \$2 to 18 ft oz of this product with 2 to 4 oz of Oust XP per acre to release labbolly pines. Apply 9 to 12 ft oz of this product with 2 to 4 oz of Oust XP per acre to refease slash pines.

Tank Mix with Atrazine: Apply 3/4 quarts of this product with 4 lb at of atrazine per acre to release Couglas fir. Apply only over Douglas fir that that been established for at least one full growing season. Apply in the early spring, usually mid-March through early April. Injury will occur if applications are made after bud swell in the spring. For this use, do not add surfactant to the tank mix.

In Malno and Now Hampshire, for release of red pine, balsam fir, red spruce, white spruce, Norway spruce, and black spruce with heavy grass and herbaceous weeds infesting the site, up to 2 1/4 quarts of this product per acre may be tank mixed with 1 to 3 oz of Oust XP to control grass, herbaceous weeds and woody brush. Apply this mix as a broadcast spray.

Mid-Rotation Conifer Release and Spot Treatments for Crop Tree Release and Timber Stand Improvement

This product is applied as a ground broadcast or directed spray application for mid-rotation release applications under the canopy of pines (and other conifers) and hardwoods. Make applications using application techniques that prevent or minimize direct contact to the foliage of crop trees (including in stands of pine, other conifers, or hardwood). This may be accomplished using directed sprays and ground oquipment with nozzles oriented to target only undestrable understory vegetation below the crop tree canopy. This product is applied as a spot, individual plant treatment for woody and herbaceous woods (see Hand-Held and Backpack Application in Application Equipment and Application Methods section). When making spot applications, do not allow spray to contact the foliage of distrible crop trees.

Noncrop Areas and Industrial Sites

See the rate tables in the Annual Weeds, Perennial Weeds, and Woody Brush and Trees sections for specific application rates. This product has no harbicidal or resistant activity in the soit. Where repeat applications are necessary, do not apply more than 8 quarts of this product per acre per year.

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 troes after full loaf expansion and before full color and leaf drop. Use increased rates within the rate range for difficult to control species, where dense stands occur, or where conditions for control are not ideal and to control peronnial 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 woods after seedheads, flowers or berries appear. Apply to foliage of actively growing annual herbaceous weeds anytime after emergence.

Tank Mixing for Noncrop Areas

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. Any specified rate of this product may be used in a tank mix.

Maintain good agitation at all times during the mixing process and application. 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 or to planting an area to ornamentals, flowers, turfgrass (sod or seed), or prior to laying asphalt or beginning construction projects.

To maintain bere ground, repeated explications of this product may be used.

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.

Turfgrass Renovation, Seed or Sod Production

This product controls most existing vagetation prior to renovating turigrass areas or establishing turigrass grown for seed or soc. For maximum control of axisting vagetation, dolay planting or seeding 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 turigrass, including bermudagrass, summer or fail applications provide the best control. Where existing vegetation is growing under mowed turigrass management, apply this product after omitting at last one regular mowing to allow sufficient grown for good interception of the sprey.

Do not disturb soil or underground plant parts before treatment. Delay tillage or renovation techniques, including vertical mowing, coring, or sticing, for seven days after application to allow translocation into underground plant parts.

Desirable turfgrass may be plened following the above procedures.

Hand-held equipment may be used for spot treatment of unwanted

naria-neid equipment may be used for spot treatment of unwanted vegetation growing in existing turigrass. Broadcast or hand-heid aquipment may be used to control sod remnants or other unwanted vegetation after sod is harvested.

Do not feed or graze turigrass grown for seed or sod production for eight weeks following application.

Ornamentals and Plant Nurseries

Post-Direct and Trim and Edge

This product may be used as a post-directed spray around established woody ornamental species, including arborvitae, azalea, boxwood, crabapplo, cuonymus, fir, Douglas fir, jojoba, holilics, filac, magnolia, maple, dak, provet, pine, spruce and yew. This product may also be used to firm and edge around trees, buildings, sidewalks and reads, potted plants and other objects in a nursery solting.

Desirable plants may be protected from the spray solution by using shields or deverings made of cardboard or other impermeable material. Do not use this product for any over the top broadcast spray in ornamentals. Exercise care to avoid contact of spray, drift or mist with foliage or green back of established ornamental species.

Site Preparation

This product may be used prior to planting any ornamental, nursery or Christines tree species.

Greenhouse/Shadehouse

This product may be used to control weeds growing is and around greenhouses and shadchouses. Destrable vegetation must not be present during application and air circulation fans must be furned off,

Wildlife Habitat Management

This product may be used to control exetic and other undesirable vegetation in habitat management and natural areas, including rangeland and wildlife ratiges. Apply to allow recovery of native plant species, prior to planting desirable native species, and for broad spectrum vegetation control. Apply spot treatments to selectively remove unwented plants for habitat 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 tilings to needed to prepare a seedbed, wait 7 days after application before tilling to allow transfocation listo underground plant parts.

Hollow Stem Injection

Apply this product to control giant knotweed (*Polygonum sachalinense*), Japanese knotweed (*Polygonum cuspidatum*), or other invasive knotweeds using Individual stem treatment. Use a hand-held injection device that delivers the specified amount of this product into these hollow stem plants.

Make a hote through both sides of the stem about 6 inches above the ground, just below a node, using an awf or other pointed tool. Inject 5 mL of undiluted product directly into this hole in the hollow stem. Treat each stem of the knotweed plant.

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 1420 stems per acre.

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 freatment of unwarted vegetation, eliminate unwanted woods growing an established shrub bods or ornamental plantings, and prior to planting an area to ornamentals, flowers, furfgrass (sod or seed), or prior to laying asphalt or beginning construction projects.

All of the label instructions apply to park and recreational areas.

Railroads

All of the instructions in the Noncrop Areas and Industrial Sites and Roadside sections 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.

Brush Control

Apply 3 to 8 quarts of this product per acre as a broadcast spray, using boom-type or boomiess nozzles. Applications up to 80 gellons of sprey 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 5 to 10 percent solution of this product when using low volume directed sprays for apot treatment.

Roadsides

Ail of the instructions in the Noncrop Areas and Industrial Sites and Railroads sections apply to madsides.

Shoulder Treatments

Use this product on road shoulders. Apply It with boom spreyers, shielded boom sprayers, high volume off-center nozzles, OC nozzle clusters, manifold nozzle systems, hand-held equipment, and similar equipment, and under-deck mowing plus herbicide systems...

Guardrails and Other Obstacles to Mowing

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

Spot Treatment

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

Fank Mixes: This product may be used in tank mix combination with other herbicide products to broaden the spectrum of vegetation controlled and for residual week control. Follow applicable use directions, precautions and limitations on the respective product labels. Use according to the most restrictive procautionary statements for each product in the mixture. Any specified rate of this product may be used in a tank mix.

Chemical Mowing

Peromials: This product suppresses peronnial grasses listed in this section to serve as a substitute for mowing. Use 4,5 ft oz of this product per acre when treating Kentucky bluegrass, tall feacue, fine feacue, orchardgrass, or quackgrass. Apply 12 ft oz of this product per acre when treating bermudagrass. Apply 4,5 to 8 ft oz of this product per acre when treating bahiagrass. Use the higher rates when grass is under heat stress. Apply 3 pints of this product per acre when treating tarpedograss or paragrass. Apply treatments in 10 to 26 galfons of spray solution per acre.

Annuals: For growth suppression of some annual grassus, including annual ryegrass, wild burley and wild data growing in coarse turigrass on roadsides or other industrial areas, apply 3 to 3.75 flioz of this product in 0 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.

Release of Dormant Bermudagrass or Bahiagrass

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 bahlagrass are desirable groundcovers and where some temporary injury or discolaration can be colerated. Treatments of more than 12 fl oz per acre may result in injury or delayed greenup in highly maintained areas, including golf courses and laure.

For best results on winter apprais, treat when weeds are in an early growth stage (less than 6 inches in height) after most have germinated. For best results on tall feacue, freat when feacus is in or beyond the 4- to 6-feaf stage.

Tank Mixes: This product may be used in tank mix combination with other herbicide products to broaden the spectrum of vegetation controlled and for residual weed control. When tank mixing, read and follow all applicable used directions, precautions, and limitation on the respective product labels. Use according to the most restrictive precautionary statements for each product in the mixture. Any specified rate of this product may be used in a tank mix.

Actively Growing Bermudagrass

Use this product to control of partially control many annual and perezintal woods for offective release of actively growing bermudagrass. Use only in areas where some temporary injury or discoloration can be tolerated. 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.

Apply up to 2.25 pints of this product in 10 to 40 gallons of spray solution per acre. Use the lower rate when treating annual woods loss than 6 inches in height (or runner length). Use the higher rate as weeds increase in size or as they approach flower or seedbead formation.

Actively Growing Bahiagrass

For suppression of vogetable growth and seedhead inhibition of bablagrass for approximately 45 days, apply 4,5 fl oz of this product in 10 to 40 galfons 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 3 fl oz of this product per acre, followed by an application of 1.5 to 3 fl oz per acre about 45 days later. Make no more than two applications per year.

Tank Mixes: This product may be used in tank mix combination with other herbicids products to broaden the spectrum of vegetation controlled and for residual weed control. When tank mixing, read and follow all applicable use directions, precautions, and limitation on the respective product labels. Use according to the most restrictive precautionary statements for each product in the mixture. Any specified rate of this product may be used in a tank mix.

Utility Sites

Use this product for control of brush, tree, and weed control and side trimming in areas including electrical power, plositine and telephone rights of ways, and other sites associated with these rights-of-ways including substations, roadsides, and railroads, this product may be applied with any application equipment or method described on this lates unless specifically prohibited.

Tank Mixes: This product may be used in tank mix combination with other herbicide products to breaden the spectrum of vegetation controlled and for residual weed control. When tank mixing, read and follow all applicable use directions, precautions, and limitation on the respective product labels. Use according to the most restrictive precautionary statements for each product in the mixture. Any specified rate of this product may be used in a tank mix.

Rangelands

Use this product to control or suppress many annual weeds growing in perennial cool and warm season grass rangelands. 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/ cheatgrass (Bromus tectorum), Japanese brome (Bromus japonicus), soft chess (Bromus mollis), cheat (Bromus socialinus), cereal rye and jointed goatgrass. Apply B 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 alto 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-loaf 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 seed bank before reastablishing desirable perennial grasses. Apply in the fall or spring.

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

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 applications to control tall weeds. See Wiper Application section for specific instructions. 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 coarts or less of this product per acre for spot treatments or wiper applications. No more than 10 percent of the lotal site may be treated at any one time when using more than 2.25 quarts of this product per save 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.

Type of Pastures: Bahiagrass, bermudagrass, bluegrass, brome, fescue, orchardgrass, ryegrass, timothy, wheatgrass, alfalfa, clover

Spot Treatment and Wiper Application

This groduct may be applied as a spot treatment or as a wiper application. Make applications in the same area at 30-day intervals. See Wiper Application section for specific instructions.

Precautions and Restrictions:

- For spot treatment and wiper applications, the entire field or any portion of it may be treated when using a rate of 2.25 quarts or loss per acre.
 Do not treat more than 10 percent of any sore at one time if applying
- more than 2.25 quarts per acre as a spot treatment or wiper
- To achieve maximum performance, remove domestic livestock before application and wait 14 days after application before grazing fivestock or harvesting.

Proplant, Preemergence, and Pasture Renovation

Apply this product gries to planting or emergence of forage grasses and legumes. In addition, কৈছে product may be used to control perennial pasture species listed on this label prior to re-planting.

Precautions and Restrictions:

- If the application rates total 2.25 quarts or less per acre, there is no waiting paried between treatment and feeding or livestock grazing is required.
- If the application rates total more \$1an 2.25 quarts per acre, remove domestic livestock before application and wait eight weeks after application before grazing or harvesting.

 Crops listed for treatment in this label may be planted into the treated
- area at any time. Wait 30 days between application and planting for all other crops.

Bamboo

Use this product on roadside rights-of way to control or suppress bamboo. Use the higher rate in the rate range for dense stands and larger plants. Mow or out bamboo and allow it to resprout to have sufficient foliage in order for the spray solution to completely cover the foliage. Optimum control or suppression of bamboo is achieved when this product is applied between August and October (prior to frost). One application of this product plus a surfactant will not eradicate bamboo. Several mowings and applications are required to completely control.

Apply the specified rate plus a surfactant (1/4 to 1/2% v/v), such as a nonlanic surfactant containing 80% active ingredient or more. Using this product without a surfactant results in reduced performance.

Application Method	Rate	Spray Volume (gal/acre)
ground broadcast	1.5 – 7.5 qt/acre	10 - 60
handgun spray to wet	0.75 2%	spray to wet
handgun or backpack low volume directed spray	4 – 10%	apray to cover

Restrictions:

Do not apply more than a total of 8 quarts of this product per acre.

Annual Weeds, Perennial Weeds, and Woody Brush and Trees

Annual Weeds

Apply 24 flioz of this groduct 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 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 move than 6 inches. tall or for smaller woods growing under stressed conditions. Use the higher concentration for fough to control species or for weeds more than 24 inches tall. Apply prior to seedhead formation in grass or bud formation in broadleaf woods.

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 onehalf of the plant. To ensure adequate spray coverage, spray both sides of large or tail weeds when foliage is thick and dense or where there are multiple sprouts.

Common Name anoda, spuned balsamappie¹ bartev barnyardgrass bassia, fivehook bittorcress bluegrass, ennuali bluegrass, bulbous brome, downy/cheatgrass brome, Japanese buttersup Carolina foxtail Carolina gerenium castorbean chamomile, mayweed cheat chervil chickweed cacklebur, comman coreopais, plains corn, volunteer crabgrass dwartdandelion, Vizginia eastern mannagrass eclipta falsedandellon falseflax, smallseed fiddieneck fleid pennycross fleabane, annual fleabane, hairy fleabane, rough Pšorida pusley foxtail roxtais goatgrass, jointed geosetgrass groundael, common ñenbit horseweod/marostail itehgrass johnsongrass unglerice knotweed kochia² lambsquarters, common mallow, little medusahead morningglory mustard, blue musterd, tumble mustard, wild panicum, fall pigweed, redroot pigweed, smooth prickly lettuce puncturevine purslane, commoл ragweed, common ragweed, gjant rocket, London Ausslan-thistic гуе, сегея ryegrass, Italian^a sandbur, field sesbarila, hemp shattercane shepherd's-purse sicklepad signatgrass, broadleaf smartweed, Pennsylvania sowthistic, annual Spanistineedjes^a speedwelf, corn speedwelf, purslane

Scientific Name Annda cristata Momordica charantia Hordeum vulgare Echinochioa cros-galli Bassia hyssopifolia Cardamine spp. Ров аллығ Poa bulbosa Bromus tectorum Bromus Japonicus *Папилсийи*я зор, Nopecurus carolinianus Geranium carolinianum Ricinus communis Anthemis cotula Bromus secalinus Anthriscus cerefolium Cerestium vulgatum Xanthlum strumarium Coreopsia finotorie Zea mays Digitaria spp. Krigia virginica Glyceria spp. Eclipta prostrata Pyrrhopappus carolinianus Camelios microcarpa Amsinckia spp. Thlaspi arvense Erigeron annuus Conyza bonariensis Erlgeron strigosus Elichardle scabre Seteria spp. Aegilops cylindrica Eleusine Indica Senecio vulgaris Lamium amplexicaule Conyza cariadensis Rottboellia conhinchinensis Sorghum halepense Echinochloa colona Polygonum spp. Knchia scoparia Chenopodium album Malva parvillora Taeniatherum caput-medusae ipomoea spp. Chorlspora tenella Sisymbrium altissimum Sinapis arvensis amapis arvensis Avena fatua Panicum dichetemillerum Amaranthus retroffexus Amaranthus hybridus Lactuca serriola Tribulus terrestris Portulaca oleracea Ambrosia artemisilfolia Ambrosia trifida Sisymbrium irio Salsola tragus Secale cereale Lollum perenne Cenchrus spinifex Sesbania herbacea Sorghum bicolor Capsella bursa-pastoris Sonna obtusifolia Urachiaa platyphylla Polygonum pensylvanicum Sonchus oleraceus Bidens bipinnata Veronica arvensis

Veronica peregrina Laptochica spp.

Chamaesyce spp.

sprængletop agurge, annuat

Common Name (Cont.) spurge, prostrete spurge, prostrete spurge, spotted spurry, umbrella strinkgrass sunflower, common tansymustand, princkly Texas panicum yelvetleaf

Verginia pepperweed Wheat witchgrass woolly cupgrass yellow moket Scientific Name
Charnessyce humistrata
Charnessyce meculata
Holosteum umbellatum
Eragrostis cillanensis
Helianthus annuus
Descurainia pinnata
Sida spinosa
Panicum spp.
Abution theophrasti
Lepidium virginicum
Triticum aestivum
Panicum capillare
Eriochioa villosa
Barbarea vulgaris

Apply with hand-held equipment only.
200 not treat knobia in the button stage.
3Apply 3 pints of product per sore.

Perennial Weeds

Rest results are obtained when perennial weeds are treated after they reach the reproductive stage of growth (seedhead initiation in grasses and bud formation in broadscaves). Bost 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 percentals including bermudagrass, dock, field bindweed, hemo doobane, milkweed and Canada thistle.

Use a 4 to 7 percent solution of this product in low volume directed spray applications. Spray coverage should be Enform 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.

Allow 7 days or more a Common Name affaffa alligatorweed¹ arise/fannel artichake, Jeruselam bahiagrass beachgrass, European bentgrass bermudagrass bermudagrass bermudagrass beholweed, field bluegrass, Kentucky blueweed, Texas brackenfern brome, smeoth bursage, woollyleaf canarygrass, reed cattail clover, red clover, white cogongrass cordgraes cutgrass, giant¹ dallisgrass dandellon dook, curly dogbane, hemp fescue tail

cutgrass, giant' dallisgrass dandellan dock, curty dogbane, hemp fescua fescue, tall German ivy guineagrass horsenettle horseradish iceplant, crystalline juhnsongrass knapweed, Russian lantana, largeleaf lespedeza, common lespedeza, sericea locastrife, purple lotus, American maidencane milkweed muhly, wirestem mullein, common napiergrass nightshada, silverloaf nutsedge, purpla utsedge, yellow orchardgrass

Scientific Name Medicago sativa Alternanthera philoxeroides Foenleulum vulgare Helianthus tuberosus Paspalum nofatum Ammophila arenaria Agrostis spp. Cynodon dactylon Convolvulus arvensis Poe pratensis Helianthus ciliaris Pteridium aquilinum Bromus inermis Ambrosia grayi Phalaris arundinacee Typha spp. Infolium pretense Trifolium repens Imperata clylindrica mperata cryanonca Spartina spp. Zizaniopsis miliacea Paspalum dilatatum Taraxacum officinalo Rumex orispus nunes onspia Apocynum cennebinum Festuca spp. Lalium arundinaceum Senecjo mikenioides Urochloa maxima Solanum carolinenso Armoraçia rusticana Mesembryanthemum crystallinum Sorghum halepense Pennisetum clandestinum Acroptilon repens Lantana camara Kummerowia striata Lespedeza cuneata Lythrum salicaria Nelumbo lutea Panicum hemitomon Asclepias app. Muhlenbergia frondosa Verbascum thapsus Pennisetum purpureum rreniiseant pirparent Solanum elaeagnifolium Cyperus rotundus Cyperus esculentus Dactylis glomerata

Common Name painpasgrass paragrass paragrass phragmites² poison-hemiock quackgrass redvine reed, giant ryegrass, perennial smartwead, swamp sowthistle, perennial spatterdock starthistle, yellow sweet potato, wild¹ thistle, cartichoke thistle, Canada timothy torpedograss¹ trumpetcreapor tules, common vaseygrass velvotgrass water ferm³ waterhyscinth waterlettuce waterprimrose wheatgrass, western

Cortaderia selioana
Urochloa mutica
Phraymides spp.
Conium maculatum
Elymus repens
Enumichia cresta
Anundo donax
Lolium perenne
Polygonum amphibium
Sonotius arvensis
Nuphar lutea
Centauroa solstitialis
Ipomoee pendurata
Cynara cardunculus
Cirsium arvense
Phileum pratense
Panicum repens
Campsis radicans
Scirpus acutus
Paspalum urvillei
Holcus spp.
Salvinia spp
Eichornia crassipes
Pistia stratiotes
Ludwigia spp.
Pescopyrum smithii

Scientific Name

1 Partial control.

² Partial control in southeastern states.

3 Not for use in California

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 or carry summer when brush species are at high moisture content and are flowering.

Ensure thorough coverage when using hand-held equipment.

Sae Low Volume Directed Spray Application section of label. Spray coverage should be uniform with at least 50 percent of the foliage contacted. For best results, cover the top half to 2/3 of the plant foliage. 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 supescence 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 undestrable decidious species are acceptable provided no major leaf drop has occurred. Reduced performance may result if fall treatments are made following a frost.

Note: If brish has been mowed or tilfed, or trees have been cut, do not treat until regrowth has reached the specified stage of growth.

this product will control, partially control, or suppress the following wedgy brush and trees.

Common Name aider

ash¹ aspen, quaking beardlover, bearmat beach birch

bittercherry
blackberry
blackgum
blue gum, Tasmanian
brackonforn
broom, Scotich
broom, Scotich
buckwheat, California¹
cascara¹
catclaw-virse¹
ceanothus
chamise
cherry

cherry, pin copperleat, hophornibeam coyotebrush

deer vetch dewberry, southern dagwaad

cherry, black

Scientific Name

Ninus spp.
Fraxinus spp.
Populus tremuloides
Ceanothus prostratus
Fagus spp.
Betule spp.

Fagus spp.
Betula spp.
Betula spp.
Prumus emarginata
Rubus spp.
Nyssa sylvatica
Eucalyptus globulus
Pteridium aquilinum
Genista monspossulana
Cytisus scoparius
Enogonum fasciculatum
Frangula purshlana
Macfadyana unguls-cati
Ceanothus spp.
Adenostoma fasciculatum
Prumus spp.
Prumus spe.

Autorostoma raseicui Prunus serotine Prunus pensylvanica Acalypha ostrylfolla Baccharia pilularia Lotus unifoliolatus Rubus trivlalis Curnus app. Common Name (Cont.)

elderberry fillul gorse hasardia¹ hawthorn hazel hickory holly, Florida honeyauckle hombeam, American kudzu locust, black¹ madrone, Pacific manzanita maple, red maple, sugar maple, vino¹ monkeyflower¹ oak oak, black* овк, рис oak, post oak, red oak, southern red oak, white! popportree, Brazilian persimmon¹ pine. polson-ivy, eastern poison-oak poison-sumac³ prunus raspberry redhod, eastern rose, multiflora Russlan-olive яаде,: black, white sagebrush, California salmonberry saltcedar*

saltbush, see myrtle

tallowtree, Chinese oak, tanbark resprouts thimbloberry, western

sumac, smooth! sumac, dwarf! sweetgum swordlem!

tobacco, tree trumpetcreeper

Virginia creeper^t waxmyrtle, acuthern¹

willow vellow-poplar 1

yerba santa

Partial control

sassafras sourwood

Scientific Name

Sambucus nigra Ulmus spp. Ulex europacus Haplopappus squamosus

Crataegus app.

Coryluš spp. Carya app. Schinus terebiothilolius

Lonicera spp. Carphus caroliniana Pueraria montana Robinia pseudoacacia Arbutus menziesii

Arctostaphylos app. Acer spp. Acer rubrum Acer saccharum Acer circinatum Mimulus guttatus Quercus spp. Quercus kellogia

Quarcus palustris Quercus stellata Quercus rubra Quercus falcata

Quercus alba Schinus terebinthifolius Diaspyras spp.

Pknus spp. Toxicodendron radicans

Taxicadendran spp. Toxicodendron vernix Pamas spp.

Rubus spp. Cercis canadensis Hosa multiflora Elaeagnus angustitolia

Salvia spp. Artemisla californica Rubus speciabilis Tamarix ramosissima Baccharls halimifolia Sassafras albidum Oxydendrum erboreum

Rhus glabra Rhus copallinum Liquidamber styraciflua Polystichum munitum Triadica sebifora Lithocarpus densiflorus Rubus parviflorus Nicotiana glauca

Campsis radicans Parthenocissus quinquefolia Myrica cerifera

Salix spp.

Liriadendron tulipitera Eriodictyon californicum

Terms and Conditions of Use

It terms at the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopered package at cace to the solicy for a full refund of purchase price paid. Otherwise, to the extent permitted by law, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

Warranty Disclaimer

Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT PERMITTED BY LAW, Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

ti is impressible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excassive rainfall, drought, tornadoes, hurricanes), presence of other materials, the marrier of application, or other factors, all of which are beyond the control of Dow AgroSciences or the selter. To the extent permitted by law, all such risks shall be assumed by buyes.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other regal theories), shall be limited to, at Dow AgroSciences' efection, one of

- Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

To the extent permitted by law, Dow AgroSpiences shall not be liable for lesses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such less or damage in writing. To the extent permitted by law, in no case shall flow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the Warranty Displaimer, Inherest Hisks of Use, and Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employoe or salos agent of Dow AgroSciences or the selfer is authorized to vary or exceed the terms of the Warranty Disclaimer or Limitation of Remedies in any manner.

"Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

Produced for Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268

i abel Code: 1002-148-007 Replaces Label: 002-148-006 LOES Number: 010-01471 EPA accepted 08/20/15

Revisions:

- Updated trademark
- Glypro Tank Mix: Revised last sentence before NOTE to read, "The screen size in the pozzle or line strainers must be no finer than 50 mash."
- Added section on Additional Limitations for Aprilal Application in Fresno County, California Only.
- Add salvinia under Peromial Weeds
- 5. Rolled supplemental tubels for Non-Aq uses into Section 3 label

GROUP 2 HERBICIDE



HERBICIDE

Ony Flowable
Active Ingredient
Meta than meta)
Meta (1) Flowable
Meta) 2 ([[]] - nethoy 6-methy-1-3.5-titati2-ylaming Ladony faming laffony (Beresole
Other lagredients
Total

TOTAL TOTAL EPA Reg. No. 432-1549 EPA Est. No. 352-IL-001

Norrelitable Container

KEEP OUT OF REACH OF CHILDREN CAUTION

Si tested no endende la efigueta, besque a alguien para que se la explique a usted en debelle, (il pos de not unclendand this label, find começone to explain it to you in detail.)

Net Weight 1 Pound 84122394 AD1780754 150622AV3 See Inside leadlet for complete First Aid Instructions, Proceedinary Statements, Directions for the and Storage and Disposal Instructions.

AGRICULTURAL USES

AGRICULTURAL USE

AGRICULTURAL USE
REQUIREMENTS
Its this product only in accordance edition to investigate and with the little of the product only in accordance edition to investigate and with the little of the product of the product of the product of agricultural workers on investigation of agricultural workers on investigation of agricultural workers on investigation of agricultural workers on agreements for the production of agricultural workers on agricultural production of agricultural workers of agricultural production of agricultural production of a social and energy production of a social and energy production of a social and energy production of the production of the production of the production of the product that are covered by the Window Production Standard and that involves conduct with the production of the product

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after the field 5 minder, then central tensury in preser,

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potter control center or declar, are plony for tensury also control. 1-500-134-7577 for emergency medical

textimed information.

PRECAUTIONARY STATEMENTS

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PRECAUTION ARY STATEMENTS
HAZANGS TO RUHAMAS AND DOMESTIC ANHALIS
AUTHOR CAUSE (PRITADO, AND DOMESTIC ANHALIS
AUTHOR CAUSE (PRITADO, AND CONTROL WITH ARIA (PL),
FERSONAL PROTECTIVE EQUIPMENT (PPE)
Applicators and other handless waste wear:
Long-sherved stritted bay pacts.
Hotor resealchear's instructions for chaning/maintaining
FFF. If no such instructions for vocabulies exist, use deferent
and but with Keep and wosh FFF appraising from other
lands:

USER SAFETY RECOMMENDATIONS
USERS SKOTLD: Wash hards before eating, drinking, chewing gurn, using tobacco or using the tolict.

ENVIRONMENTAL HAZARDS

Do not apply disordly to writer or to write where sufficient
water is present, or to intend to make where sufficient
water in the sufficient of the sufficient of the sufficient or disorder of the open of water water. Do not contain that evolution water water clearly
explained or disorder of designed water water water or insafe.

Dis landation is injurious to pleafe all authority for
comprehenses. Waterpall plants may be attenuity effected
to red all and authority.

Produced for Bayer Environmental Science A filmion of Bayer CropScience LP 2 Y. W. Alexander Drive Research Titangle Park, NC 27709

Bayer

GROUP 2 HERBICIDE



Escort

HERBICIDE

Dry Flowable

By Weight

Active Ingredient
Metsulturen methyi
Methyl 2-liii/4-methoxy-5-methyl-1,3,5-briazin2-y(jamino)-carbonyljaminojsultonyljberzzats...
Other Ingredients TOTAL

EPA Reg. No. 432-1549 EPA Est. No. 352-IL-001

Nonrefillable Container

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usled no entiende la eliqueta, busque a algulen para que se la explique a usted en detalle, (il you do not understand this label, find someone to explain it to you in detait,)

See inside leaflet for complete First Aid Instructions, Precautionary Statements, Directions for Use and Storage and Disposal Instructions.

Net Weight 1 Pound 84122394 A01780754 150622AV3

AGRICULTURAL USES

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 the protection of agricultural workers on terms, forests, nurseries, and greenhouses, and transfers of agricultural pesticides. It contains requirements for training, documentation, notification, and emergency assistance. It also contains specific instructions and exceptions perfaining to the statements on this label about personal protective equipment (PPF) 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 to not enter or allow worker early mo-freated areas during the restricted-entry interval (REI) of 4 hours. PPE required for early entry to breated areas that is permitted under the Worker Protection Standard and that involves contact with restrictions. anything that has been treated, such as plants, soll, or water is:

Coveralis
 Shoes plus socks

FIRST AID

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or dector for further

treatment solvice.

If IN EYES: Hold eye open and risse slowly and gently with water for 15-20 minutes. Remove contact lenses, it present, after the first 5 minutes, then continue rissing eye. Call a polson control center or doctor for further treatment advice. Have the product container or label with you when calling a prison control center or doctor, or going for freatment. You may also contact 1-900-334-7577 for emergency medical treatment information. treatment information.

treatment information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTIONI Causes eye initiation. Avoid contact with skin, eyes, or clothing. Avoid breathing dust or spray misst.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

Long-elseved shirt and long pants.

Since plus socks.

Follow manufacturer's instructions for cleaning/maintaining

PPE. If no such instructions for weshables exist, use detergent and bot water. Keep and wesh PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS
USERS SHOULD: Wash hands before eating, drinking, chewing gum, using balacco or using the toilet.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertibil areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.
This herbicide is injurious to plants at extremely low concentrations. Nonlarget plants may be adversely effected from drift and non-off.

Produced for: Bayer Environmental Science A Division of Bayer CropScience LP 2 T. W. Alexander Drive Research Triangle Park, NC 27709

Bayer

DIRECTIONS FOR USE

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

Escort® XP Herbicide must be used only in accordance with instructions on this label or in separately published Bayer Cropscience LP instructions.

Bayer CropScience LP will not be responsible for losses or damages resulting from the use of this product in any manner not specified on this label. User assumes all risks associated with such non-specified use.

Do not apply more than 4 ounces of Escort® XP Herbicide per acre per year. Do not use on food or feed crops except as specified by this label or supplemental labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency in your State responsible for pesticide regulation.

PRODUCT INFORMATION

Escort® XP Herbicide is a dispersible granule that is mixed in water and applied as a spray by ground or aerial application.

Escort® XP Herbicide is registered for the control of annual and perennial weeds and unwanted woody plants on private, public and military lands, on rights-of-way, industrial sites, non-crop areas, ditchbanks of dry drainage ditches, certain types of unimproved turf grass, and confler and hardwood plantations, including grazed areas on these sites. Do not use on irrigation ditches. Escort® XP Herbicide controls weeds and woody plants primarily by postemergent activity. Although Escort® XP Herbicide has preemergence activity, best results are generally obtained when Escort® XP Herbicide is applied to foliage after emergence or dormancy break. Generally, for the control of annual weeds, Escort® XP Herbicide provides the best results when applied to young, actively growing weeds. For the control of perennial weeds, applications made at the bud/bloom stage or while the target weeds are in the fall rosette stage may provide the best results. The use rate depends upon the weed species and size at the time of application.

The degree and duration of control may depend on the following:

- · weed spectrum and infestation intensity
- · weed size at application
- · environmental conditions at and following treatment
- · soil pH, soil moisture, and soil organic matter

Escori® XP Herbicide may be applied on conifer and hardwood plantations, and non-crop sites that contain areas of temporary surface water caused by the collection of water between planting beds, in equipment ruts, or in other depressions created by management activities. It is permissible to treat intermittently flooded low lying sites, seasonally dry flood plains and transitional areas between upland and lowland sites when no water is present. It is also permissible to treat marshes, swamps and bogs after water has receded as well as seasonally dry flood deltas. DO NOT make applications to natural or man-made bodies of water such as lakes, reservoirs, ponds, streams, and canals.

BIOLOGICAL ACTIVITY

Escort® XP Herbicide is absorbed primarily through the foliage of plants, and by the roots to a lesser degree. Plant cell division is generally inhibited in sensitive plants within a few hours following uptake. Two to 4 weeks after application, leaf growth slows followed by discoloration and tissue death. The final affects on annual weeds are evident about 4 to 6 weeks after application. The ultimate affect on perennial weeds and woody plants occurs in the growing season following application.

Warm, moist conditions following treatment promote the activity of Escort® XP Herbicide, while cold, dry conditions may reduce or delay activity. Weeds and brush hardened off by cold weather or drought stress may not be controlled. Weed and brush control may be reduced if rainfall occurs soon after application.

ADJUVANTS

The use of a surfactant is recommended to enhance the control of susceptible plants, except where noted. Apply at a minimum rate (concentration) of 1/4% volume/volume (1 quart per 100 gallons of spray solution), or at the manufacturer's recommended rate. Use only EPA approved surfactants containing at least 80% active ingredient. Certain types of surfactants, such as those incorporating acetic acid (i.e. LI-700), may not be compatible with Escort® XP Herbicide and may result in decreased performance. Certain surfactants may not be suitable for use on desirable plants, such as turf and conifers, listed on this label. Consult the surfactant manufacturer's label for appropriate uses.

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INVASIVE SPECIES MANAGEMENT

This product may be considered for use on public, private, and tribal lands to treat certain weed species infestations that have been determined to be invasive, consistent with the Federal Interagency Committee for the Management of Noxious and Exotic Weeds (FICMNEW) National Early Detection and Rapid Response (EDRR) System for invasive plants.

Effective EDRR systems address invasions by eradicating the invader where possible, and controlling them when the invasive species is too established to be feasibly eradicated. Once an EDRR assessment has been completed and action is recommended, a Rapid Response needs to be taken to quickly contain, deny reproduction, and if possible eliminate invader. Consult your appropriate state extension service, forest service, or regional multidisciplinary invasive species management coordination team to determine the appropriate Rapid Response.

RESISTANCE

Escort® XP Herbicide, which contains the active ingredient metsulfuron methyl, is a Group 2 herbicide based on the mode of action classification system of the Weed Science Society of America.

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant bio-types. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

INTEGRATED PEST MANAGEMENT

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices almod at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants, or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

PREPARING FOR USE - Site Specific Considerations

Understanding the risks associated with the application of Escort® XP Herbicide is essential to aid in preventing off-site injury to desirable vegetation and agricultural crops. The risk of off-site movement, both during and after application, may be affected by a number of site specific factors such as the nature, texture and stability of the soil, the intensity and direction of prevailing winds, vegetative cover, site slope, rainfall, drainage patterns, and other local physical and environmental conditions. A careful evaluation of the potential for off-site movement from the intended application site including movement of treated soil by wind or water erosion, must be made prior to using Escort® XP Herbicide. This evaluation is particularly critical where desirable vegetation or crops are grown on neighboring land for which the use of Escort® XP Herbicide is not labeled. If prevailing local conditions may be expected to result in off-site movement and cause damage to neighboring desirable vegetation or agricultural crops, do not apply Escort® XP Herbicide.

Before applying Escort® XP Herbicide the user must read and understand all label directions, precautions and restrictions completely, including these requirements for a site specific evaluation. If you do not understand any of the instructions or precautions on the label, or are unable to make a site specific evaluation yourself, consult your local agricultural dealer, cooperative extension service, land managers, professional consultants, or other qualified authorities familiar with the area to be treated. If you still have questions regarding the need for site specific considerations, please call 1-800-331-2867.

TANK MIXES

Escort® XP Herbicide may be tank mixed with other herbicides registered for the use sites described in this label. Use only those tank mix partners which are labeled for the appropriate use site. When tank mixing, use the most restrictive label limitations for each of the products being used in the

AGRICULTURAL USES

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 Pro-

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
- · Shoes plus socks

CONIFER PLANTATIONS

Application Information

Escort® XP Herbicide is registered for the control of many species of weeds and deciduous trees on sites where conifers are growing or are to be planted. Apply by ground equipment or by air (helicopter only). Refer to the "Weeds Controlled" and "Brush Species Controlled" for a listing of susceptible species.

Application Timing
Apply Escort® XP Herbicide after weeds have emerged or after undesirable hardwoods have broken winter dormancy and have reached the point of full leaf expansion.

Conifer Site Preparation

-- Application Before Transplanting

After consulting the "Weeds Controlled" and "Brush Species Controlled" tables, apply the rates of Escort® XP Herbicide specified for the most difficult to control species on the site.

Southeast-Apply up to 4 ounces per acre for loblolly and slash pines. Transplant the following planting season.

Northeast and Lake States-Apply up to 2 ounces per acre for red pine. Transplant the following planting season. Apply up to 2 ounces per acre for black, white and Norway spruce. Transplant the following spring.

West-Apply up to 2 ounces per acre prior to planting Douglas Fir, Sitka Spruce, Western Red Cedar, Western Hemlock, Ponderosa Pine, and Grand Fir in the Coast Rangeland and western slope of the Cascades in Oregon and Washington. These conifer species listed can be planted anytime after application. Other conifer species can be planted providing the user has prior experience indicating acceptable tolerance to Escort® XP Herbicide soil residues.

Without prior experience, it is recommended that other species be planted on a small scale to determine selectivity before large-scale plantings are made as unacceptable injury may occur. Bayer CropScience LP will not assume responsibility for injury to any conifer species not listed on this label.

Tank Mix Combinations-

For broader spectrum control, the following products may be used in combination with Escort® XP Herbicide.

Glyphosate (4 pound active per gallon)
Tank mix 1 to 2 ounces of Escort® XP Herbicide with 2 to 10 quarts of glyphosate per acre. Refer to the product container for a list of species controlled

Imazapyr (4 pound active per gallon)

Tank mix 1 to 2 ounces of Escort® XP Herbicide with 10 to 24 fluid ounces of imazapyr per acre. Loblolly and slash pines may be transplanted the planting season following application. This combination controls ash, black gum, cherry, hawthorn, honeysuckle, hophornbeam, persimmon, oaks (red, white and water), sassafras, sweetgum, Vaccinium species, and sup-presses blackberry, dogwood, elms, myrtle dahoon, hickories, and red maple.

Glyphosate (4 pound active per gallon) + Imazapyr (4 pound active per

Tank mix 1/2 to 1 ounce of Escort® XP Herbicide with 16 to 64 fluid ounces of glyphosate and 10 to 12 fluid ounces of imazapyr per acre. Slash and lobiolly pines may be transplanted the planting season following application. This combination controls cherry, dogwood, elms, oaks (red and water), persimmon, sassafras, sweetgum and suppresses hickory.

Velpar® L [VU] Herbicide or Velpar® DF [VU] Herbicide

Tank mix 1 to 2 ounces of Escort® XP Herbicide per acre with Velpar® L [VU] Herbicide or Velpar® DF [VU] Herbicide at the rates specified on the container for various soil textures. Loblolly and slash pines may be transplanted the planting season following application. Refer to the product container for a list of species controlled.

Oust@ Extra Herbicide

Tank mix 1/2 to 1 1/2 ounces of Escort® XP Herbicide with 2 to 3 ounces of Oust® Extra Herbicide per acre for herbaceous weed control. Refer to the product container and the "Weeds Controlled" section of this label for a listing of the weeds controlled. Loblolly and slash pines may be transplanted the planting season following application. Tank mix 2 ounces of Escort® XP Herbicide with 3 ounces of Oust® Extra Herbicide per acre for herbaceous weed control and early spring suppression of bull thistle and Canada thistle in the Coast Rangeland and western slope of the Cascade Mountains. Douglas fir may be transplanted at least 90 days following application.

Release--Hardwood Control and Suppression

Escort® XP Herbicide may be used for application over the top of established slash and loblolly pine to control the species listed in "Weeds Controlled" and "Brush Species Controlled" section of this label. Apply 1 to 4 ounces per acre to control the species indicated, including kudzu.

Tank Mix Combinations-

For broader spectrum control the following products may be used in combination with Escort® XP Herbicide.

Imazapyr (4 pound active per gallon)
Tank mix 1 to 2 ounces of Escort® XP Herbicide with 8 to 16 fluid ounces of imazapyr per acre for application to loblolly pine. Refer to the imazapyr label regarding the use of surfactants and the appropriate application timing with respect to the age and development stage of the pines. This combination controls ash, black gum, cherry, hawthorn, honeysuckle, hophornbeam, oaks (red, white and water), sassafras, sweetgum, Vaccinium species, and suppresses blackberry, dogwood, elms, myrtle dahoon, hickories, persimmon, and red maple.

Velpar® L [VU] Herbicide or Velpar® DF [VU] Herbicide

Tank mix 1 to 2 ounces of Escort® XP Herbicide with Velpar® L [VU] Herbicide or Velpar® DF [VU] Herbicide at the rates specified on the container for various soil textures. This combination may be applied to loblolly and slash pines.

Release--Herbaceous Weed Control

Escort® XP Herbicide may be applied to transplanted loblolly and slash pine for the control of herbaceous competition. Consult the "Weeds Controlled" for a listing of the susceptible species and application rates. Best results are obtained when Escort® XP Herbicide is applied just before weed emergence until shortly after weed emergence.

Tank Mix Combinations-

For broader spectrum control the following products may be used in combination with Escort® XP Herbicide.

Imazapyr (4 pound active per gallon)

Tank mix 1/2 to 1 ounce of Escort® XP Herbicide with 4 fluid ounces of imazapyr per acre. The tank mix may be used on loblolly pine.

Velpar® L [VU] Herbicide or Velpar® DF [VU] Herbicide

Tank mix 1/2 to 1 ounce of Escort® XP Herbicide with Velpar® L [VU] Herbicide or Velpar® DF [VU] Herbicide at the rates specified on the container for various soil textures. This combination may be applied to loblolly and slash pines.

Release - Directed Spray in Conifers

Western US

To release conifers from competing brush species, such as, blackberry, salmonberry, snowberry, thimbleberry and wild roses, mix 2 to 4 ounces of Escort® XP Herbicide per 100 gallons of spray solution. Direct spray onto the follage of competing brush species using a knapsack or backpack sprayer. For best results, apply any time after the brush species have reached full leaf stage but before autumn coloration. For best results at application, the majority of the brush must be less than six feet in height to help ensure adequate spray coverage. Thorough coverage of the target foliage is necessary to optimize results. Care must be taken to direct the Escort® XP Herbicide spray solution away from the conifer foliage.

NOTE:

Escort® XP Herbicide may cause temporary yellowing and or growth suppression when the spray solution contacts conifer foliage. The use of a surfactant with Escort® XP Herbicide may improve brush control results. When using a surfactant with Escort® XP Herbicide, extra precaution must be taken to avoid contact with conifer foliage. Excessive drift onto conifers may result in severe injury.

IMPORTANT PRECAUTIONS—CONIFER PLANTATIONS ONLY

- Applications of Escort® XP Herbicide made to conifers that are suffering from loss of vigor caused by insects, diseases, drought, winter damage, animal damage, excessive soil moisture, planting shock, or other stresses may injure or kill the trees.
- Applications of Escort® XP Herbicide made for herbaceous release must only be made after adequate rainfall has closed the planting slit and settled the soil around the roots following transplanting.
- Do not apply Escort® XP Herbicide to conifers grown as ornamentals.
- Escort® XP Herbicide applications may result in damage and mortality to other species of conifers when they are present on sites with those listed in the preceding specifications for conifer plantations.

HARDWOOD PLANTATIONS

Application Information

Escort® XP Herbicide may be used at rates of up to 2 ounces per acre for the control of many weed species on sites where yellow poplar is growing or is to be planted, and on sites where red alder is to be planted. Apply by ground equipment or by air (helicopter only). Refer to the "Weeds Controlled" sections of this label for a listing of susceptible species.

Application Timing

Escort® XP Herbicide may be applied as a site preparation treatment prior to planting red alder or yellow poplar. As a prior to planting site preparation treatment for red alder, Escort® XP Herbicide may be tank mixed with other herbicides labeled for this use.

Escort® XP Herbicide may also be applied over-the-top of planted yellow poplar seedlings after the soil has settled around the root system, but before the seedlings have broken dormancy (prior to bud break).

Release--Herbaceous Weed Control

Escort® XP Herbicide may be applied to yellow poplar for the control of herbaceous competition. Consult the "Weeds Controlled" for a listing of the susceptible species and specified application rates. Best results are obtained when Escort® XP Herbicide is applied just before weed emergence until shortly after weed emergence.

Tank Mix Combinations-

Tank mix 1/2 ounce of Escort® XP Herbicide with 4 to 6 pints of Velpar® I. [VU] Herbicide as directed on the package label for "RELEASE--HERBACEOUS WEED CONTROL" in pine plantations in the eastern U.S. Follow the Velpar® L [VU] Herbicide label directions regarding altering the application rate by soil texture.

IMPORTANT PRECAUTIONS— HARDWOOD PLANTATIONS ONLY

- Application of Velpar® L [VU] Herbicide and Escort® XP Herbicide made to yellow poplar that are suffering from loss of vigor caused by insects, disease, drought, winter damage, animal damage, excessive soil moisture, planting shock, or other stresses may injure or kill the seedlings.
- Applications of Escort® XP Herbicide made for release must only be made after adequate rainfall has closed the planting slit and settled the soil around the roots following transplanting,
 The use of surfactant is not recommended for applications made over
- The use of surfactant is not recommended for applications made over the tops of trees.
- Careful consideration must be given by an experienced and knowledgeable forester to match the requirements of yellow poplar and/or red alder to the conditions of the site. Treatment of yellow poplar and/or red alder planted on a site inadequate to meet its requirements may injure or kill the seedlings.

PASTURE, RANGELAND, AND CONSERVATION RESERVE PROGRAM (CRP)

Escort® XP Herbicide is registered for the control of broadleaf weeds, brush and several woody vine species in the establishment, maintenance, and restoration of pasture, rangeland, and Conservation Reserve Program (CRP).

Escort® XP Herbicide may be tank mixed with other pesticides labeled for use in pasture, rangeland, and CRP. Read and follow the labels on all products used in the tank mix. Observe the most restrictive precautions on each of the product's labels. Application of Escort® XP Herbicide to pasture, rangeland and CRP may be made by ground or air. Use a sufficient volume of water to ensure thorough coverage of the targeted weeds with the equipment being used. In Idaho, Oregon and Washington use a minimum application volume of 3 gallons of spray solution per acre.

APPLICATION INFORMATION FOR GRASS ESTABLISHMENT IN PASTURE, RANGELAND, AND CONSERVATION

RESERVE PROGRAM (CRP)
Escort® XP Herbicide is registered for the control or suppression of broadleaf weeds to aid in the establishment of the following perennial native or improved grasses planted in pasture, rangeland, and acres enrolled in the Conservation Reserve Program (CRP):

Blue Gramma Sideoats gramma Bluestems-Switchgrass-Big Little Blackwell Wheatgrasses-**Plains** bluebunch Sand crested WW Spar intermediate pubescent Siberian Buffalograss Green sprangletop slender Kleingrass Lovegrassessteambank Atherstone tall Sand thickspike Weeping western Wilman Wildrye grass-Orchardgrass Russian

Maximize potential for grass establishment by consulting with the Natural Resource and Conservation Service of other government agencies or local experts concerning planting techniques and other cultural practices.

Performance from Escort® XP Herbicide may not always be satisfactory due to the inability of newly planted grass stands to sufficiently compete with weeds and the severity of weed pressure in new grass stands.

An additional herbicide application or mowing may be needed.

Use Rates and Application Timing for Grass Establishment in Pasture, Rangeland and CRP

Preplant (prior to planting) or Preemergence (after planting but before

grass emergence)
Do not use more than 1/10 ounce/acre of Escort® XP Herbicide for grass establishment in pasture, rangeland, and CRP. Apply Escort® XP Herbicide at 1/10 ounce/acre on all labeled grasses except orchardgrass and Russian wildrye grass. Do not apply Escort® XP Herbicide preplant or preemergence to orchardgrass and Russian wildrye grass as severe crop injury may result.

Early postemergence to new plantings

Apply Escort® XP Herbicide at 1/10 ounce/acre, plus a non-ionic surfactant at the rate of 2 to 4 pints/100 gallons of spray solution on all labeled grasses anytime after grass emergence.

Do not use a spray adjuvant other than non-ionic surfactant. Because grass species differ in time of emergence, apply only after the majority of grasses are in the 3 to 4 leaf stage.

Postemergence to stands with 1 - 5 leaf grasses planted the previous season.

Apply Escort® XP Herbicide at 1/10 ounce/acre plus a non-ionic surfactant at the rate of 2 to 4 pints/100 gallons of spray solution on all labeled grasses when the majority of the grasses have one or more leaves.

Do not use a spray adjuvant other than non-lonic surfactant.

APPLICATION INFORMATION FOR ESTABLISHED GRASSES IN PASTURE, RANGELAND, AND CONSERVATION RESERVE PROGRAM (CRP)

Use Rates for Established Grasses in Pasture, Rangeland, and CRP

Apply up to 1 2/3 ounces Escort® XP Herbicide per acre as a broadcast application to established grasses in pasture, rangeland and CRP. For spot applications, use 1 ounce per 100 gallons of water. Do not apply more than 1 2/3 ounces of Escort® XP Herbicide per acre per year in pasture, rangeland, and CRP.

Refer to the Weeds Controlled section of the section 3 label for a listing of the weeds controlled by Escort® XP Herbicide and the appropriate use rate to obtain control.

Application Timing – Established Grasses in Pasture, Rangeland, and CRP

Escort® XP Herbicide may be applied to established native grasses such as bluestems and grama, and on other established grasses such as bermudagrass, bluegrass, orchardgrass, bromegrass, fescue and timothy that were planted the previous growing season (or earlier) and are fully tilllered, unless otherwise directed on this label. Specific application timing information on several of these grass species follows: information on several of these grass species follows:

Minimum time from Grass establishment Escort® XP Herbicide application
2 months
6 months
12 months
24 months

Rotation Intervals in Pasture, Rangeland, and CRP for Overseeding and Renovation

Location	Crop or Grass Species	Maximum Escort® XP Herbicide Rate on Pasture, Rangeland, and CRP (oz per A)	Minimum Rotation Interval (months)
AL, AR, FL, GA, KY, LA, MS, NC, OK, SC, TN, TX, VA, WV	Alfalfa, red clover, white clover, sweet clover, bermudagrass, bluegrass, rye- grass, tall fescue	1/10 to 3/10	4
	Wheat (except durum)	1/10 to 3/10	1
	Durum, barley, oat	1/10 to 3/10	10
			/continues

(continued)

Rotation Intervals in Pasture, Rangeland, and CRP for Overseeding and Renovation (continued)

Location	Crop or Grass Species	Maximum Escort® XP Herblcide Rate on Pasture, Rangeland, and CRP (oz per A)	Minimum Rotation Interval (months)
ALL STATES NOT	Red clover, white clover, and sweet clover	1/10 to 2/10	12
INCLUDED ABOVE	Bermudagrass, bluegrass, ryegrass	1/10 to 2/10	6
ABOVE	Tall Fescue	1/10 to 2/10	18
	Wheat (except durum)	1/10 to 2/10	1
	Durum, barley, oat	1/10 to 2/10	10
ALL AREAS WITH SOIL PH OF 7.5 OR LESS	Russian wildrye	1/10 to 1/2	1
	Green needlegrass, switchgrass, sheep fescue	1/10 to 1	1
	Meadow brome, smooth brome, alta fescue, red fescue, meadow foxtall, orchardgrass, Russian wildrye, timothy	1/10 to 1	2
ALL AREAS WITH SOIL PH OF 7.9 OR LESS	Alkali sacoton, mountain brome, blue grama, thickspike wheatgrass	1/10 to 1	1
	Sideoats grama, switchgrass	1/10 to 1/2	2
	Western wheatgrass	1/10 to 1	2
	Sidecats grama, switchgrass, big bluestern	1/10 to 1	3

Fescue Precautions:

Note that Escort® XP Herbicide may temporarily stunt tall fescue, cause it to turn yellow, or cause seedhead suppression. To minimize these symptoms, take the following precautions:

Do not use more than 4/10 ounce/acre of Escort® XP Herbicide.

Tank mix Escort® XP Herbicide with 2,4-D.

- Use the lowest specified rate for target weeds.
- . Use a non-ionic surfactant at 1/2 to 1 pint per 100 gallons of spray solution.
- Make application later in the spring after the new growth is 5 to 6 inches tall, or in the fall.
- Do not use surfactant when liquid nitrogen is used as a carrier.
- Do not use a spray adjuvant other than non-ionic surfactant.

The first cutting yields may be reduced due to seedhead suppression resulting from treatment with Escort® XP Herbicide.

Timothy Precautions:

Timothy should be at least 6 inches tall at application and be actively growing, Applications of Escort® XP Herbicide to timothy under any other conditions may cause crop yellowing and/or stunting. To minimize these symptoms, take the following precautions:

- Do not use more than 4/10 ounce/acre Escort® XP Herbicide.
- Tank mix Escort® XP Herbicide with 2, 4-D.
- Use the lowest specified rate for target weeds.
- . Use a non-ionic surfactant at 1/2 pint per 100 gallons of spray solution
- Make applications in the late summer or fall.
- Do not use surfactant when liquid nitrogen is used as a carrier.
- Do not use spray adjuvant other than non-ionic surfactant.

Application of Escort® XP Herbicide to Pensacola bahiagrass, ryegrass (Italian or perennial) and Garrison's creeping foxtail may cause severe injury to and/or loss of forage.

Other Pasture and Rangeland Grasses

Varieties and species of forage grasses differ in their tolerance to herbicides. When using Escort® XP Herbicide on a particular grass for the first time, limit use to a small area. If no injury occurs throughout the season, larger acreage may be treated the following season.

Broadleaf forage species, such as alfalfa and clover, are highly sensitive to Escort® XP Herbicide and will be severely stunted or injured by Escort® XP Herbicide

SPOT TREATMENTS

Escort® XP Herbicide may be used for use as spot treatment to control noxious and troublesome weeds on pasture, rangeland and CRP.

Application Information

Escort® XP Herbicide may be used to control many species of weeds, including noxious weeds, in forage grasses growing on pasture, rangeland, and CRP. Refer to the "Weeds Controlled" section of the package label or supplemental labeling for a listing of susceptible weed species. If the sprayer is calibrated, consult the package label or other supplemental labeling to select the application rate per acre of Escort® XP Herbicide appropriate for the target weeds. Or mix one gram of Escort® XP Herbicide per one gallon of water along with a suitable surfactant. Spray to the point of wetting the entire surface of the target weeds, approximately 40 gallons of solution per acre. When applied in this manner there is no grazing restrictions following the use of Escort® XP Herbicide, Applications may be made at anytime of the year, except when the soil is frozen.

CROP ROTATION

Before using Escort® XP Herbicide, carefully consider your crop rotation plans and options. For rotational flexibility, do not treat all of your pasture, rangeland or CRP acres at the same time.

Minimum Rotational Intervals

Minimum rotation intervals* are determined by the rate of breakdown of Escort® XP Herbicide applied. Escort® XP Herbicide breakdown in the soil is affected by soil pH, presence of soil microorganisms, soil temperature, and soil moisture. Low soil pH, high soil temperature, and high soil moisture increase Escort® XP Herbicide breakdown in soil, while high soil pH, low soil temperature, and low soil moisture slow Escort® XP Herbicide breakdown.

Of these 3 factors, only soil pH remains relatively constant. Soil temperature, and to a greater extent, soil moisture, can vary significantly from year to year and from area to area. For this reason, soil temperatures and soil moisture should be monitored regularly when considering crop rotations.

* The minimum rotation interval represents the period of time from the last application to the anticipated date of the next planting.

Soil pH Limitations

Escort® XP Herbicide should not be used on soils having a pH above 7.9, as extended soil residual activity could extend crop rotation intervals beyond normal. Under certain conditions, Escort® XP Herbicide could remain in the soil for 34 months or more, injuring wheat and barley. In addition, other crops planted in high-pH soils can be extremely sensitive to low concentrations of Escort® XP Herbicide.

Checking Soil pH

Before using Escort® XP Herbicide, determine the soil pH of the areas of intended use. To obtain a representative pH value for the test area, take several 0" to 4" samples from different areas of the field and analyze them separately. Consult local extension publications for additional information on recommended soil sampling procedures.

BIOASSAY

A field bioassay must be completed before rotating to any crop or grass species/variety not listed in the Rotation Intervals Table, or if the soil pH is not in the specified range, or if the use rate applied is not specified in the table.

To conduct a field bioassay, grow test strips of the crop(s) or grass(es) you plan to grow the following year in fields previously treated with Escort® XP Herbicide. Crop or grass response to the bioassay will indicate whether or not to rotate to the crop(s) or grass(es) grown in the test strips.

If a field bioassay is planned, check with your local Agricultural dealer or Bayer CropScience LP representative for information detailing the field bioassay procedure.

GRAZING/HAYING

When used as directed, there is no grazing or haying restriction for use rates of 1 2/3 ounces per acre and less. Coveralls, shoes plus socks must be worn if cutting within 4 hours of treatment.

IMPORTANT PRECAUTIONS

- Do not apply more than 1 2/3 ounces of Escort® XP Herbicide per acre per year on pasture, rangeland or CRP.
- Grass species or varieties may differ in their response to various herbicides. Bayer CropScience LP recommends that you first consult your state experiment station, university, or extension agent as to sensitivity to any herbicide. If no information is available, limit the initial use of Escort® XP Herbicide to a small area. Components in a grass seed mixture will vary in tolerance to Escort® XP Herbicide so the final stand may not reflect the seed ratio.
- Under certain conditions such as heavy rainfall, high pH, prolonged cold
 weather, or wide fluctuations in day/night temperatures prior to or soon
 after Escort® XP Herbicide application, temporary discoloration and/or
 grass injury may occur. Escort® XP Herbicide should not be applied to
 grass that is stressed by severe weather conditions, drought, low fertility,
 water-saturated soils, disease, or insect damage as grass injury may
 result. Severe winter stress, drought, disease, or insect damage before or
 following application also may result in grass injury.
- Applications of Escort® XP Herbicide to pasture, rangeland, and CRP undersown with legumes may cause injury to the legumes. Legumes in a seeding mixture may be severely injured or killed following an application of Escort® XP Herbicide.
- Applications made to some established grasses may cause temporary stunting, yellowing or seedhead suppression (i.e. fescue, timothy).
- Applications made to newly established grasses less than 2 years from seeding may result in injury or loss.
- Do not apply to forage grasses known to be sensitive to Escort® XP Herbloldo such as ryegrass (Italian and perennial), bahia or Garrison's creeping foxtail.
- Broadleaf forage species, such as alfalfa and clover, are highly sensitive to Escort® XP Herbicide and will be severely injured or killed.
- The control of weeds in wheel track areas may be reduced if ground applications are made when dry, dusty field conditions exist. The addition of 2,4-D or MCPA should improve weed control under these conditions.

NON-AGRICULTURAL USES

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. Do not enter or allow others to enter the treated area until sprays have dried. Non-crop industrial weed control and selective weed control in turf (industrial, unimproved only) are not within the scope of the Worker Protection Standard.

NON-CROP SITES

Application Information

Escort® XP Herbicide is registered for weed control on private, public and military lands as follows: Uncultivated nonagricultural areas (including airports, highway, railroad and utility rights-of-way, sewage disposal areas); uncultivated agricultural areas - non-crop producing (including farmyards, tuel storage areas, fence rows, soil bank land, and barrier strips); industrial sites - outdoor (including lumberyards, pipeline and tank farms) including grazed areas on these sites. It may also be used for the control of certain noxious and troublesome weeds.

Consult the "Weeds Controlled" and "Brush Species Controlled" tables to determine the appropriate application rate.

Escort® XP Herbicide may be applied in tank mixture with other herbicides labeled for use on non-crop sites. Fully read the labels and follow all directions and restrictions on each label.

Applications may be made by ground or air. Use a sufficient volume of water to ensure thorough coverage of the target vegetation with the application equipment being used.

NATIVE GRASSES

Escort® XP Herbicide is registered for weed control and suppression in the establishment and maintenance of native grasses. It may be used where blue grama, bluestems (big, little, plains, sand, ww spar) bromegrasses (meadow), buffalograss, green sprangletop, indiangrass, kleingrass, lovegrasses (atherstone, sand, weeping, wilman), orchardgrass, sideoats

grama, switchgrass (blackwell), wheatgrass (bluebunch, intermediate, pubescent, Siberian, slender, streamband, tall, thickspike, western), and Russian wildrye are established. It may also be applied over these species in the seedling stage, except for orchardgrass and Russian wildrye.

When used as directed, there are no grazing or having restrictions for use rates of 1 2/3 ounce per acre or less. At use rates greater than 1 2/3 ounce per acre and up to 3 1/3 ounce per acre, forage grasses may be cut for hay, fodder or green forage and fed to livestock, including lactating animals, 3 days after treatment.

Rotation Intervals for Overseeding and Renovation

Location	Crop or Grass Species	Maximum Escort® XP Herbicide Rate (oz per A)	Minimum Rotation Interval (months)
AL, AR, FL, GA, KY, LA, MS, NC, OK, SC, TN, TX, VA, WV	Alfalfa, red clover, white clover, sweet clover, bermudagrass, bluegrass, ryegrass, tall fescue	1/10 to 3/10	4
	Wheat (except durum)	1/10 to 3/10	1
	Durum, barley, oat	1/10 to 3/10	10
ALL STATES NOT INCLUDED ABOVE	Red clover, white clover, and sweet clover	1/10 to 2/10	12
	Bermudagrass, bluegrass, ryegrass	1/10 to 2/10	6
	Tall Fescue	1/10 to 2/10	18
	Wheat (except durum)	1/10 to 2/10	1
	Durum, barley, oat	1/10 to 2/10	10
ALL AREAS WITH SOIL PH OF 7.5 OR LESS	Russian wildrye	1/10 to 1/2	1
	Green needlegrass, switchgrass, sheep fescue	1/10 to 1	1
	Meadow brome, smooth brome, alta fescue, red fescue, meadow foxtail, orchardgrass, Russian wildrye, timothy	1/10 to 1	2

(continued)

Rotation Intervals for Overseeding and Renovation (continued)

Location	Crop or Grass Species	MaxImum Escort® XP Herbicide Rate (oz per A)	Minimum Rotation Interval (months)
ALL AREAS WITH SOIL PH OF 7.9 OR LESS	Alkali sacoton, mountain brome, blue grama, thickspike wheatgrass	1/10 to 1	1
	Sideoats grama, switchgrass	1/10 to 1/2	2
	Western wheatgrass	1/10 to 1	2
	Sideoats grama, switchgrass, big bluestem	1/10 to 1	3

Application Information

Apply Escort® XP Herbicide at the rate of 1/10 ounce per acre for the control and suppression* of bur buttercup (testiculate), common purslane, common sunflower*, cutleaf eveningprimrose*, flixweed*, lambsquarters* (common and slimleaf), marestail*, pigweed (redroot and tumble), snow speedwell, tansymustard* and tumble mustard (Jim Hill mustard).

 Suppression is a visual reduction in weed competition (reduced population or vigor) as compared to untreated areas. Degree of suppression will vary with the size of weed and environmental conditions following treatment.

Application Timing

For established grasses, apply when weeds are in the seedling stage. For grasses in the seedling stage, apply preplant or preemergence where the soil (seed bed) has been cultivated.

IMPORTANT PRECAUTIONS—NATIVE GRASSES

- Grass species or varieties may differ in their response to various herbicides. If no information is available, limit the initial use of Escort® XP Herbicide to a small area. Components in a grass seed mixture will vary in tolerance to Escort® XP Herbicide, so the final stand may not reflect the seed ratio.
- Under certain conditions such as heavy rainfall, high pH, prolonged cold weather, or wide fluctuations in day/night temperatures prior to or soon after Escort® XP Herbicide application, temporary discoloration and/or grass injury may occur. Injury may result when Escort® XP Herbicide is

applied to grass that is stressed by severe weather conditions, drought, low fertility, water-saturated soils, disease, or insect damage. Severe winter stress, drought, disease, or insect damage before or following application also may result in grass injury.

GRASS REPLANT INTERVALS

Following an application of Escort® XP Herbicide to non-crop areas, the treated sites may be replanted with various species of grasses at the intervals listed below.

For soils with a pH of 7.5 or less, observe the following replant intervals:

Species	Rate (ounces per acre)	Replant Interval (months)
Brome, Meadow	1/21	2
	1-2	3
Brome, Smooth	1/2-1	2
	1-2	4
Fescue, Alta	1/2—1	2
	1—2	4
Fescue, Red	1/2-1	2
	1-2	4
Fescue, Sheep	1/2-1	1
	1-2	4
Foxtail, Meadow	1/2-1	2
	1-2	4
Green Needlegrass	1/2-2	1
Orchardgrass	1/2—1	2
	1—2	4
Russian wildrye	1/2-1	1
100	1	2
	2	3
Switchgrass	1/2-1	1
	1-2	3
Timothy	1/21	2
2011 10 10 5	1-2	4
Wheatgrass, Western	1/2—1	2
	1-2	3

For soils with a pH of 7.5 or greater observe the following replant intervals:

Species	Rate (ounces per acre)	Replant Interval (months)
Alkali Sacaton	1/2-1	1
	1-2	3
Bluestern, Big	1/2-2	3
Brome, Mountain	1/2—1	1
220	1-2	2
Grama, Blue	1/2-2	1
Grama, Sideoats	1/2	2
5-4576-50 5 04000000000000	>1/2	>3
Switchgrass	1/2	2
30000000000000000000000000000000000000	>1/2	>3
Wheatgrass, Thickspike	1/2—2	1
Wheatgrass, Western	1-2	2
	1/2-1	3

The specified Intervals are for applications made in the Spring to early Summer. Because Escort® XP Herbicide degradation is slowed by cold or frozen soils, applications made in the late Summer or Fall should consider the intervals as beginning in the Spring following treatment.

Testing has indicated that there is considerable variation in response among the species of grasses when seeded into areas treated with Escort® XP Herbicide. If species other than those listed above are to be planted into areas treated with Escort® XP Herbicide, a field bioassay must be performed, or previous experience may be used, to determine the feasibility of replanting treated sites.

ADDITIONAL GRASS INFORMATION APPLICATION INFORMATION FOR GRASS ESTABLISHMENT

Escort® XP Herbicide may be used for the control or suppression of broadleaf weeds to aid in the establishment of the following perennial native or improved grasses:

Blue grama	Sideoats grama
Bluestems -	Switchgrass -
big	blackwell
little	Wheatgrasses -
plains	bluebunch
sand	crested
WW spar	intermediate
Buffalograss	pubescent
Green sprangletop	Siberian
Kleingrass	slender
Lovegrassess -	steambank
atherstone	tall
sand	thickspike
weeping	Western
wilman	Wildrye grass -
Orchardgrass	Russian

Maximize potential for grass establishment by consulting with the Natural Resource and Conservation Service of other government agencies or local experts concerning planting techniques and other cultural practices.

Performance from Escort® XP Herbicide may not always be satisfactory due to the inability of newly planted grass stands to sufficiently compete with weeds and the severity of weed pressure in new grass stands.

An additional herbicide application or mowing may be needed.

Use Rates and Application Timing for Grass Establishment Preplant (prior to planting) or Preemergence (after planting but before grass emergence)

Do not use more than 1/10 ounce per acre of Escort® XP Herbicide for grass establishment.

Apply Escort® XP Herbicide at 1/10 ounce per acre on all labeled grasses except orchardgrass and Russian wildrye grass. Do not apply Escort® XP Herbicide preplant or preemergence to orchardgrass and Russian wildrye grass as severe crop injury may result.

Early postemergence to new plantings

Apply Escort® XP Herbicide at 1/10 ounce per acre, plus a non-ionic surfactant at the rate of 2 to 4 pints per 100 gallons of spray solution on all labeled grasses anytime after grass emergence.

Do not use a spray adjuvant other than non-ionic surfactant.

Because grass species differ in time of emergence, apply only after the majority of grasses are in the 3 to 4 leaf stage.

Postemergence to stands with 1 – 5 leaf grasses planted the previous season

Apply Escort® XP Herbicide at 1/10 ounce per acre plus a non-ionic surfactant at the rate of 2 to 4 pints per 100 gallons of spray solution, on all labeled grasses when the majority of the grasses have one or more leaves. Do not use a spray adjuvant other than non-ionic surfactant.

APPLICATION INFORMATION FOR ESTABLISHED GRASSES Use Rates for Established Grasses

Apply up to 1 ounce Escort® XP Herbicide per acre as a broadcast application to established grasses. For spot applications, use 1 ounce per 100 gallons of water. Do not apply more than 1 2/3 ounces of Escort® XP Herbicide per acre per year.

Refer to the Weeds Controlled section of this label for a listing of the weeds controlled by Escort® XP Herbicide and the appropriate use rate to obtain control.

Application Timing - Established Grasses

Escort® XP Herbicide may be applied to established native grasses such as bluestems and grama, and on other established grasses such as bermudagrass, bluegrass, orchardgrass, bromegrass, fescue and timothy that were planted the previous growing season (or earlier) and are fully tillered, unless otherwise directed on this label. Specific application timing information on several of these grass species follows:

Minimum time from Grass establishment ort® XP Herbicide application

Grass	ESCORES AP HERDICIDE à
Bermudagrass	2 months
Bluegrass, bromegrass, Orchardgi	rass 6 months
Timothy	12 months
Fescue	24 months

Fescue and Timothy Precautions

When used on fescue and timothy grasses, Escort® XP Herbicide may cause reduced first cutting yields due to temporary stunting, leaf yellowing, or seed head suppression. To help minimize these symptoms, follow the information below:

- · Use the lowest labeled rate for the target weeds.
- Tank mix 2,4-D with Escort® XP Herbicide applications.
- Apply Escort® XP Herbicide at no more than 4/10 ounce per acre.
- Make applications when the grasses are 5 to 6 inches tall in late summer or fall.
- Use only a non-ionic surfactant at 1/2 pint per 100 gallons of spray solution.
- When liquid nitrogen is the spray carrier, do not include the surfactant.

Other Grasses:

Application of Escort® XP Herbicide to Pensacola bahiagrass, ryegrass (Italian or perennial) and Garrison's creeping foxtail may cause severe injury to and/or loss of forage.

Varieties and species of forage grasses differ in their tolerance to herbicides. When using Escort® XP Herbicide on a particular grass for the first time, limit use to a small area. If no injury occurs throughout the season, larger acreage may be treated the following season.

Broadleaf forage species, such as alfalfa and clover, are highly sensitive to Escort® XP Herbicide and will be severely stunted or injured by Escort® XP Herbicide.

CROP ROTATION

Before using Escort® XP Herbicide, carefully consider your crop rotation plans and options.

Minimum Rotational Intervals

Minimum rotation intervals* are determined by the rate of breakdown of Escort® XP Herbicide applied. Escort® XP Herbicide breakdown in the soil is affected by soil pH, presence of soil microorganisms, soil temperature, and soil moisture. Low soil pH, high soil temperature, and high soil moisture increase Escort® XP Herbicide breakdown in soil, while high soil pH, low soil temperature, and low soil moisture slow Escort® XP Herbicide breakdown.

Of these 3 factors, only soil pH remains relatively constant. Soil temperature, and to a greater extent, soil moisture, can vary significantly from year to year and from area to area. For this reason, monitor soil temperature and soil moisture on a regular basis when considering any crop rotations.

* The minimum rotation interval represents the period of time from the last application to the anticipated date of the next planting.

Soil pH Limitations

Escort® XP Herbicide must not be used on solls having a pH above 7.9, as extended soil residual activity could extend crop rotation intervals beyond normal. Under certain conditions, Escort® XP Herbicide could remain in the soil for 34 months or more, injuring wheat and barley. In addition, other crops planted in high-pH soils can be extremely sensitive to low concentrations of Escort® XP Herbicide.

Checking Soil pH

Before using Escort® XP Herbicide, determine the soil pH of the areas of intended use. To obtain a representative pH value for the test area, take several 0" to 4" samples from different areas of the field and analyze them separately. Consult local extension publications for additional information on recommended soil sampling procedures.

BIOASSAY

A field bloassay must be completed before rotating to any crop or grass species/variety not listed in the Rotation Intervals Table, or if the soil pH is not in the specified range, or if the use rate applied is not specified in the table.

To conduct a field bioassay, grow test strips of the crop(s) or grass(es) you plan to grow the following year in fields previously treated with Escort® XP Herbicide, Crop or grass response to the bioassay will indicate whether or not to rotate to the crop(s) or grass(es) grown in the test strips.

If a field bloassay is planned, check with your local Agricultural dealer or Bayer CropScience LP representative for information detailing the field bloassay procedure.

IMPORTANT PRECAUTIONS

 Grass species or varieties may differ in their response to various herbicides. If no information is available, limit the initial use of Escort® XP Herbicide to a small area. Components in a grass seed mixture will vary in tolerance to Escori® XP Herbicide so the final stand may not reflect the seed ratio.

 Under certain conditions, such as heavy rainfall, high pH, prolonged cold weather, or wide fluctuations in day/night temperatures, prior to or soon after Escort® XP Herbicide application, temporary discoloration and/or grass injury may occur. Escort® XP Herbicide applied to grass that is stressed by severe weather conditions, drought, low fertility, water-saturated soils, disease, or insect damage can result in grass injury. Severe winter stress, drought, disease, or insect damage before or following application also may result in grass injury.

 Applications of Escort® XP Herbicide to lands undersown with legumes may cause injury to the legumes. Legumes in a seeding mixture may be severely injured or killed following an application of Escort® XP

Herbicide

Aster

 The control of weeds in wheel track areas may be reduced if ground applications are made when dry, dusty field conditions exist. The addition of 2,4-D or MCPA may improve weed control under these conditions.

WEEDS CONTROLLED

1/3 to 1/2 ounce per acre Annual sowthistle

Bahiagrass
Beebalm
Bittercress
Bitter sneezeweed
Blackeyed-susan
Blue mustard
Bur buttercup
Chicory
Clover
Cocklebur
Common groundsel
Common purslane
Common yarrow

Conical catchfly

Corn cockle
Cow cockle
Crown vetch
Dandelion
Dogfennel
False chamomile
Fiddleneck tarweed
Field pennycress
Flixweed
Goldenrod
Lambsquarters
Marestail/horseweed****
Maximillion sunflower
Miners lettuce
Pennsylvania smartweed

Plains coreopsis

Plantain

(continued)

WEEDS CONTROLLED (continued)

1/3 to 1/2 ounce per acre

Redroot pigweed
Redstem filaree
Rough floabane
Shepherd's purse
Silky crazyweed (locoweed)
Smallseed falseflax
Smooth pigweed
Sweet clover
Tansymustard

1/2 to 1 ounce per acre

Blackberry Black henbane Broom snakeweed* Buckhorn plantain Bull thistle Common crupina

Common sunflower Curly dock Dewberry Dyer's woad Garlic mustard Gorse Halogeton Henbit

1 to 2 ounces per acre

Common mullein Common tansy Field bindweed** Greasewood Gumweed Gumweed Lupine Old world climbing fi

Old world climbing fern (Lygodium) Perennial pepperweed Poison hemlock Treacle mustard Tumble mustard Wild carrot Wild garlic Wild lettuce Wild mustard Wooly croton Wood sorrel Yankeweed

Honeysuckle

Multiflora rose and other

wild roses and of wild roses Musk thistle***
Oxeye dalsy Plumeless thistle Prostrate knotweed Rosering gaillardia Seaside arrowgrass Sericea lespedeza Tansy ragwort Toasel Wild caraway

Purple loosestrife
Purple scabious
Scotch thistle
Scouringrush
Salsify
Snowberry
St. Johnswort
Sulphur cinquefoil
Western salsify
Whitetop (hoary cress)
Wild Iris

1 1/2 to 2 ounces per acre

Canada thistle**
Dalmation toadflax**
Duncecap larkspur
Russian knapweed**

toadflax** Wild parsnip larkspur Yellow toadflax** napweed**

2 ounces per acre

Onionweed

3 to 4 ounces per acre

Kudzu

* Apply fall through spring.

** Suppression, which is a visual reduction in weed competition (reduced population or vigor) as compared to untreated areas. Apply as a full coverage spray for best performance.

Tall larkspur

*** Certain biotypes of musk thistle are more sensitive to Escort® XP Herbicide and may be controlled with rates of 1/4 to 1/2 ounce per acre, Treatments of Escort® XP Herbicide may be applied from rosette through bloom stages of development.

**** Certain biotypes of marestail/horsetail are less sensitive to Escor® XP Herbicide and may be controlled by tank mixes with herbicides with a different mode of action.

Problem Weed Control

For broader spectrum control and for use on certain biotypes of broadleaf weeds which may be resistant to Escort® XP Herbicide and herbicides with

the same mode of action, the following tank mixes may be used.

Dicamba + 2,4-D

Weed	Rate of Escort® XP Herbicide	Rate of dicamba (fluid ounces/acre)	Rate of 2,4-D (fluid ounces/acre)
Kochia control	1/2	8	16
Spotted knapweed control	1/2	8	16
Rush skeletonwee suppression	d 1	8	16

INDUSTRIAL TURFGRASS UNIMPROVED ONLY

Application Information

Escort® XP Herbicide is registered for selective weed control in unimproved industrial turfgrass where certain grasses are well established and desired as ground cover. Escort® XP Herbicide may also be used for the control of certain noxious and troublesome weeds in turfgrass.

In addition to conventional spray equipment, Escort® XP Herbicide may also be applied with invert emulsion equipment. When using an invert emulsion, mix the prescribed rate of Escort® XP Herbicide in the water phase. Consult the "Weeds Controlled" table to determine which weeds will be controlled by the following application rates:

Turfgrass Type	Escort® XP Herbicide (ounces/acre)
Fescue and Bluegrass	1/4 to 1/2
Crested Wheatgrass and Smooth Brome	1/4 to 1
Bermudagrass	1/4 to 2

Application Timing

Applications may be made at anytime of the year except when the soil is frozen.

When a spring application is made on fescue or bluegrass, a second application may be made during the summer after full seedhead maturation.

Growth Suppression and Seedhead Inhibition (Chemical Mowing)

Application Information

Escort® XP Horbicide may be used for growth suppression and seedhead inhibition in well established fescue and bluegrass turfgrass at the use rate of 1/4 to 1/2 ounce per acre.

Tank Mix Combination

Escort® XP Herbicide may be tank mixed with "Embark" for improved performance in the regulation of growth and seedhead suppression. Tank mix 1/4 to 1/2 ounce of Escort® XP Herbicide with 1/8 to 1/4 pint of "Embark".

Application Timing

Application may be made after at least 2 to 3 inches of new growth has emerged until the appearance of the seed stalk.

IMPORTANT PRECAUTIONS —INDUSTRIAL TURFGRASS ONLY

- An application of Escort® XP Herbicide may cause temporary discoloration (chlorosis) or stunting of the turfgrasses. Use the lower specified rates for minimum discoloration or stunting.
- With fescue and bluegrass, sequential applications made during the same or consecutive growth periods (i.e. spring and fall) may result in excessive injury to turigrass.
- Excessive injury may result when Escor® XP Herbicide is applied to turfgrass that is under stress from drought, insects, disease, cold temperatures (winter injury) or poor fertility.
- Escort® XP Herbicide is not recommended for use on bahiagrass.

BRUSH CONTROL

Application Information

Escort® XP Herbicide is registered for the control of undesirable brush growing in non-crop areas including grazed areas on these sites. Applications may be made by air, high volume ground application, low volume ground application and ultra-low volume ground application. Except as noted for multiflora rose, Escort® XP Herbicide must be applied as a spray to the follage.

The application volume required will vary with the height and density of the brush and the application equipment used. Generally, aerial applications will require 15 to 25 gallons of water per acre; high volume ground application will require 100 to 400 gallons of water per acre; low volume ground application will require 20 to 50 gallons of water per acre; and ultra-low volume ground application will require 10 to 20 gallons of water per acre.

Regardless of the application volume and equipment used, thorough coverage of the foliage, particularly the terminal growing points, is necessary to optimize results.

Species	High Volume Rate (ounces/100 gallon)	Broadcast Rate (ounces/acre)
Ash	1—2	1-3
Aspen	1—2	1-3
Black locust	1-2	1-3
Blackberry	1-2	1-3
Camelthorn	1-2	1-3
Cherry	1-2	1-3
Cottonwood	1-2	2-3
Eastern red cedar	12	2-3
Elder	1—2	2-3
Elm	1-2	1-3
Firs	3	1-2
Hawthorn	1-2	1-3
Honeysuckle	1-2	1/2-1
Mulberry	1-2	2-3
Multiflora rose	1-2	13
Muscadine (wild grape)	12	2-3
Oaks	1—2	1—3
Ocean spray (Holodiscus)		2-3
Osage orange	1-2	2-3
Red maple	1-2	2—3
Salmonberry	1/2—1	1-3
Snowberry	1/2-1	1-3
Spruce (black and white)	3	2-3
Thimbleberry	1/2—1	1-3
Tree of heaven (Ailanthus)		1—2
Wild roses	1/2—1	1-3
Willow	1/2—1	1-3
Yellow poplar	1/21	1-3

For low volume and ultra-low volume ground applications, mix 4 to 8 ounces of Escort® XP Herbicide per 100 gallons of spray solution.

Application Timing
Make a foliar application of the specified rate of Escort® XP Herbicide during the period from full leaf expansion in the spring until the development of full fall coloration on deciduous species to be controlled. Coniferous species may be treated at anytime during the growing season.

Spot Treatment

Escort® XP Herbicide may be used for the control of many species of weeds including noxious/invasive weeds in certain established grasses growing on non-crop areas.

Refer to the "Weeds Controlled" section for a listing of susceptible weed species and the application rate per acre per the target weed.

Or, mix one gram of Escort® XP Herbicide per one gallon of water along with a surfactant. Spray to the point of wetting the entire surface of the target weeds, approximately 40 gallons of solution per acre.

Tank Mix Combinations-

Escort® XP Herbicide may be tank mixed with any product labeled for non-crop brush control at the application rates specified on the companion product's label for the pests specified on the product's companion label. Read and follow the label instructions of both products when tank mixing. Follow the most restrictive limitations of any of the product labels being tank mixed.

Low Rate Applications

Imazapyr (2 pound active per gallon)
Combine 1 to 2 ounces of Escort® XP Herbicide with 1 to 4 pints of imazapyr herbicide per acre and apply as a broadcast spray. For aerial applications use a minimum of 15 gallons per acre spray volume. In addition to species listed above controlled by Escort® XP Herbicide, this combination controls black gum, hophornbeam, sassafras, sweetgum, Vaccinium species, dogwood, myrtle dahoon, hickories, and persimmon.

Picloram* (2 pound active per gallon) + Imazapyr (2 pound active per

Combine 1 to 1 1/2 ounce of Escort® XP Herbicide with 2 to 8 fluid ounces of imazapyr and 1 to 2 pints of picloram per 100 gallons of water. Apply as a high volume spray. This tank mix controls cherry, elms, box elder, maples, hackberry, redbud, ash, oaks (including shingle oak), black locust, and

^{*}Picloram is a restricted use pesticide.

Spotgun Basal Soll Treatment

For control of multiflora rose, prepare a spray suspension of Escort® XP Herbicide by mixing 1 ounce per gallon of water. Mix vigorously until the Escort® XP Herbicide is dispersed and agitate periodically while applying the spray suspension.

Apply the spray preparation with an exact delivery handgun applicator. Apply at the rate of 4 milliliters for each 2 feet of rose canopy diameter. Direct the treatment to the soil within 2 feet of the stem union. When treating large plants and more than one delivery is required, make applications on opposite sides of the plant.

For best results, make applications from early spring to summer.

IMPORTANT PRECAUTIONS -NON-CROP BRUSH ONLY

 When using tank mixtures of Escort® XP Herbicide with companion herbicides, read and follow all use instructions, application rates, warnings, and precautions appearing on the labels. Follow the most restrictive label instructions for each of the herbicides used.

SPRAY EQUIPMENT

Low rates of Escort® XP Herbicide can kill or severely injure most crops. Following an Escort® XP Herbicide application, the use of spray equipment to apply other pesticides to crops on which Escort® XP Herbicide is not registered may result in their damage. The most effective way to reduce this crop damage potential is to use dedicated mixing and application equipment.

MIXING INSTRUCTIONS

- 1. Fill the tank 1/4 to 1/3 full of water.
- 2. While agitating, add the required amount of Escort® XP Herbicide.
- Continue agitation until the Escort® XP Herbicide is fully dispersed, at least 5 minutes.
- Once the Escort® XP Herbicide is fully dispersed, maintain agitation and continue filling tank with water. Escort® XP Herbicide must be thoroughly mixed with water before adding any other material.
- As the tank is filling, add tank mix partners (if desired) then add the necessary volume of nonionic surfactant. Always add surfactant last.

- If the mixture is not continuously agitated, settling will occur. If settling occurs, thoroughly re-agitate before using.
- Escort® XP Herbicide spray preparations are stable if they are pH neutral or alkaline and stored at or below 100° F.
- If Escort® XP Herbicide and a tank mix partner are to be applied in multiple loads, pre-slurry the Escort® XP Herbicide in clean water prior to adding to the tank. This will prevent the tank mix partner from interfering with the dissolution of the Escort® XP Herbicide.

PRODUCT PRECAUTIONS

- When used as directed, there is no grazing or haying restriction for use rates of 1 2/3 ounce per acre or less. At use rates greater than 1 2/3 ounce per acre and up to 3 1/3 ounce per acre, forage grasses may be cut for hay, fodder or green forage and fed to livestock, including lactating animals, 3 days after treatment.
- Injury to or loss of desirable trees or other plants may result if spray
 equipment is drained or flushed on or near these trees or plants, or on
 areas where their roots may extend, or in locations where the product
 may be washed or moved into contact with their roots.
- Treatment of powdery, dry soil or light, sandy soil when there is little likelihood of rainfall soon after treatment may result in off target movement and possible damage to susceptible crops when soil particles are moved by wind or water. Injury to crops may result if treated soil is washed, blown, or moved onto land used to produce crops. Exposure to Escort® XP Herbicide may injure or kill most crops. Injury may be more severe when the crops are irrigated. Do not apply Escort® XP Herbicide when these conditions are identified and powdery, dry soil or light or sandy soils are known to be prevalent in the area being treated.
- Applications made where runoff water flows onto agricultural land may injure crops, Applications made during periods of intense rainfall, to soils saturated with water, to surfaces paved with materials such as asphalt or concrete, or to soils through which rainfall will not readily penetrate may result in runoff and movement of Escort® XP Herbicide.
- Do not treat frozen or snow covered soil.
- Leave treated soil undisturbed to reduce the potential for Escort® XP Herbicide movement by soil erosion due to wind or water.

PRODUCT RESTRICTIONS

- · Do not use on lawns, walks, driveways, tennis courts, or similar areas.
- . Do not apply through any type of irrigation system.
- Do not use this product in the following counties of Colorado: Saguache, Rio Grande, Alamosa, Costilla and Conejos.
- . Do not use this product in California.

SPRAYER CLEANUP

Spray equipment must be cleaned before Escort® XP Herbicide is sprayed, Follow the cleanup procedures specified on the labels of previously applied products. If no directions are provided, follow the six steps outlined below. When multiple loads of Escort® XP Herbicide are applied, it is recommended that at the end of each day of spraying, the interior of the tank be rinsed with fresh water and then partially filled, and the boom and hoses flushed. This will prevent the buildup of dried pesticide deposits that can accumulate in the application equipment.

- Drain tank; thoroughly rinse spray tanks, boom, and hoses with clean water. Loosen and physically remove any visible deposits.
- 2. Fill the tank with clean water and 1 gallon of ammonia (contains 3% active minimum) for every 100 gallons of water. Flush the hoses, boom, and nozzles with the cleaning solution. Then add more water to completely fill the tank. Circulate the cleaning solution through the tank and hoses for at least 15 minutes. Flush the hoses, boom, and nozzles again with the cleaning solution, and then drain the tank.
- Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
- Repeat step 2.
- 5. Rinse the tank, boom, and hoses with clean water.
- Dispose of the rinsate on a labeled site or at an approved waste disposal facility. If a commercial cleaner is used follow the commercial cleaner directions for rinsate disposal.

Notes:

- Mixing chlorine bleach with ammonia can cause dangerous gases to form. Clean spray equipment outdoors.
- Use steam cleaning or other commercial cleaners to facilitate the removal of any caked pesticide deposits.

- When Escort® XP Herbicide is tank mixed with other pesticides, all cleanout procedures for each product must be examined and the most rigorous procedure must be followed.
- In addition to this cleanout procedure, all pre-cleanout guidelines on subsequently applied products must be followed as per the individual product labels.

SPRAY DRIFT MANAGEMENT

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

IMPORTANCE OF DROPLET SIZE

The most effective drift management strategy is to apply the largest droplets which are consistent with pest control objectives. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable environmental conditions.

A droplet size classification system describes the range of droplet sizes produced by spray nozzles. The American Society of Agricultural and Biological Engineers (ASABE) provide a Standard that describes droplet size spectrum categories defined by a number of reference nozzles (fine, coarse, etc.). Droplet spectra resulting from the use of a specific nozzle may also be described in terms of volume mean diameter (VMD). Coarser droplet size spectra have larger VMD's and lower drift potential.

Controlling Droplet Size - General Techniques

- Nozzle Type Select a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. The use of low-drift nozzles will reduce drift potential.
- Pressure The lowest spray pressures recommended for the nozzle produce the largest droplets. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, using a higher-capacity nozzle instead of increasing pressure results in the coarsest droplet spectrum.
- Flow Rate/Orifice Size Using the highest flow rate nozzles (largest orifice) that are consistent with pest control objectives reduces the potential for spray drift. Nozzles with higher rated flows produce coarser droplet spectra.

Controlling Droplet Size - Aircraft

- Nozzle Type Solid stream, or other low drift nozzles produce the coarsest droplet spectra.
- Number of Nozzles Using the minimum number of nozzles with the highest flow rate that provide uniform coverage will produce a coarser droplet spectrum.
- Nozzle Orientation Orienting nozzles in a manner that minimizes the
 effects of air shear will produce the coarsest droplet spectra. For some
 nozzles, such as solid stream, pointing the nozzles straight back parallel
 to the airstream will produce a coarser droplet spectrum than other
 orientations.
- Pressure Selecting the pressure that produces the coarsest droplet spectrum for a particular nozzle and airspeed reduces spray drift potential. For some nozzle types, such as solid streams, lower pressures can produce finer droplet spectra and increase drift potential.

BOOM LENGTH (AIRCRAFT), AND APPLICATION HEIGHT

- Boom Length (aircraft) Using shorter booms decreases drift potential.
 Boom lengths are expressed as a percentage of an aircraft's wingspan or a helicopter's rotor blade diameter. Shorter boom length and proper positioning can minimize drift caused by wingtip or rotor vortices.
- Application Height (aircraft) Applications made at the lowest height that are consistent with pest control objectives and the safe operation of the aircraft will reduce the potential for spray drift.
- Application Height (ground) Applications made at the lowest height consistent with pest control objectives, and that allow the applicator to keep the boom level with the application site and minimize bounce, will reduce the exposure of spray droplets to evaporation and wind, and reduce spray drift potential.

WIND

Drift potential is lowest when applications are made in light to gentle sustained winds (2-10 mph), which are blowing in a constant direction. Many factors, including droplet size and equipment type also determine drift potential at any given wind speed. AVOID GUSTY OR WINDLESS CONDITIONS.

Local terrain can also influence wind patterns. Every applicator is expected to be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

Setting up equipment to produce larger droplets to compensate for droplet evaporation can reduce spray drift potential. Droplet evaporation is most severe when conditions are both hot and dry.

SURFACE TEMPERATURE INVERSIONS

Drift potential is high during a surface temperature inversion. Surface inversions restrict vertical air mixing, which may cause small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Surface inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Mist or fog may indicate the presence of an inversion in humid areas, Inversions may also be identified by producing smoke and observing its behavior. Smoke that remains close to the ground, or moves laterally in a concentrated cloud under low wind conditions indicates a surface inversion. Smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are minimizing drift potential and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, that it is configured properly, and that drift potential has been minimized.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Read the specific crop use and application equipment instructions to determine if an air assisted field crop sprayer can be used.

SENSITIVE AREAS

Making applications when there is a sustained wind moving away from adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is an effective way to minimize the effect of spray drift.

DRIFT CONTROL ADDITIVES

Using product compatible drift control additives can reduce drift potential. When a drift control additive is used, read and carefully observe cautionary statements and all other information on the additive's label. If using an additive that increases viscosity, ensure that the nozzles and other application equipment will function properly with a viscous spray solution. Preferred drift control additives have been certified by the Chemical Producers and Distributors Association (CPDA).

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store product in original container only. Store in a cool, dry place.

Pesticide Disposal: Waste resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling:

Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 50 Pounds): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 50 Pounds): Nonrefillable container. Do not reuse or refill this container. Triple 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. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropr

other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom, and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available authorities.

(continued)

STORAGE AND DISPOSAL (continued)

Nonrefillable Paper or Plastic Bags, Fiber Sacks including Flexible Intermediate Bulk Containers (FIBC) or Fiber Drums With Liners: Nonrefillable container. Do not reuse or refill this container. Completely empty paper or plastic bag, fiber sack or drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer for recycling if available or dispose of empty paper or plastic bag, fiber sack or fiber drum and liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

Refillable Fiber Drums With Liners: Refillable container (fiber drum only). Refilling Fiber Drum: Refill this fiber drum with Escort® XP Herbicide containing metsulfuron methyl only. Do not reuse this fiber drum for any other purpose. Cleaning before refilling is the responsibility of the refiller. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Disposing of Fiber Drum and/or Liner: Do not reuse this fiber drum for any other purpose other than refilling (see preceding). Cleaning the container (liner and/or fibor drum) before final disposal is the responsibility of the person disposing of the container. Offer the liner for recycling if available or dispose of liner in a sanitary land-fill, or by incineration. Do not burn, unless allowed by state and local ordinances. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner. To clean the fiber drum before final disposal, completely empty the liber drum by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer the fiber drum for recycling if available or dispose of in a sanitary land-fill, or by incineration. Do not burn, unless allowed by state and local ordinances.

All Other Refillable Containers: Refillable container. Refilling Container: Refill this container with Escort® XP Herbicide containing metsulfuron methyl only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If damage is found, do not use the container, contact Bayer CropScience LP at the number below for instructions. Check for leaks after refilling and before transporting. If leaks are found, do not reuse or transport container, contact Bayer CropScience LP at the number below for instructions. Disposing of Container: Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom, and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour, or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by inclineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local a

Outer Foil Pouches of Water Soluble Packets (WSP): Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or, dispose of the empty outer foil pouch in the trash as long as WSP is unbroken. If the outer pouch contacts the formulated product in any way, the pouch must be triple rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer pouch as described previously.

Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact Bayer CropScience LP at 1-800-334-7577, day or night.

Bayer (reg'd), the Bayer Cross (reg'd), Escort®, Oust® and Velpar® are registered trademarks of Bayer. Embark is a registered trademark of PBI Gordon Corporation.

CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY AND LIABILITY

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, plant injury, other property damage, as well as other unintended consequences may result because of factors beyond the control of Bayer CropScience LP. Those factors include, but are not limited to, weather conditions, presence of other materials or the manner of use or application. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

For product information call: 1-800-331-2867

Produced for: Bayer Environmental Science A Division of Bayer CropScience LP 2 T. W. Alexander Drive Research Triangle Park, NC 27709

Bayer



For control of undesirable vegetation growing within specified aquatic sites, forestry sites, pasture/rangeland, and nonagricultural lands; and for establishment and maintenance of wildlife openings, release of unimproved Bermudagrass and Bahiagrass, bareground weed control, and for use under certain paved surfaces

Active Ingredient:

* Equivalent to 22.6% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-pyridinecarboxylic acid or 2 pounds acid per gallon

EPA Reg. No. 241-346

EPA Est. No.

CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See inside for complete First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty, and state-specific crop and/or use site restrictions.

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

Net Contents:



FIRST AID		
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to by a poison control center or doctor. DO NOT give anything by mouth to an unconscious person. 	
lf in eyes	 Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes; then continue rinsing eyes. Call a poison control center or doctor for treatment advice. 	
lf on skin or clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.	
lf ìnhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice. 	
	HOTLINE NUMBER	

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical freatment information: 1-800-832-HELP (4357).

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION, Harmful if swallowed. Avoid contact with eyes or clothing.

Personal Protective Equipment (PPE)

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

Mixers, loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves made of any waterproof. material
- Shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions are given for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them.

Engineering Controls

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands with plenty of soap and water before eating, drinking, chewing gum, using tobacco, or using the
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Physical and Chemical Hazards

Spray solutions of Arsenal* herbicide must be mixed, stored, and applied only in stainless steel, fiberglass, plastic, and plastic-lined steel containers.

Thoroughly clean application equipment, including landing gear, immediately after use of this product. Prolonged exposure of this product to uncoated steel (except stainless steel) surfaces may result in corrosion and failure of the exposed part. The maintenance of an organic coating (paint) may prevent corrosion.

Environmental Hazards

This product is toxic to plants. Drift and runoff may be hezardous to plants in water adjacent to treated areas. DO NOT apply to water except as specified in this label. Treatment of aquatic weeds may result in oxygen depletion or loss because of decomposition of dead plants. This oxygen loss may cause suffocation of some aquatic organisms. DO NOT treat more than 1/2 of the surface area of the water in a single operation and wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outward in bands to allow aquatic organisms to move into untreated areas. DO NOT contaminate water when disposing of equipment washwater or rinsate.

This pesticide is toxic to vascular plants and must be used strictly in accordance with the drift precautions on the label.

Directions For Use

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

Arsenal® herbicide must be used only in accordance with the instructions on the label attached to the container. Keep containers closed to avoid spills and contamination.

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.

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 **48 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
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material
- Protective eyewear

NONAGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) 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.

DO NOT enter or allow others to enter treated areas until sprays have dried.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

Pesticide Storage

DO NOT store below 10° F.

Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

Container Handling

Nonrefiliable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) 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.

Triple rinse containers too large to shake (capacity > 5 gallons) as follows: Emply 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 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.

Refiliable Container. Refill this container with pesticide only, **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refilter.

(continued)

STORAGE AND DISPOSAL (continued)

Container Handling (continued)

Triple rinse as follows: To clean the container before linal disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

In Case of Emergency

In case of large-scale spillage regarding this product, call:

CHEMTREC 1-800-424-9300
 BASE Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate freatment
- Your local poison control center (hospital)
- BASE Corporation 1-800-832-HELP (4357)

Steps to be taken in case material is released or spilled:

- Dike and contain the splll with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.

Product Information

Arsenal® herbicide is an aqueous solution to be mixed with water and a surfactant and applied as a spray solution to controt undesirable vegetation growing within specified aquetic sites, forestry sites, pasture/rangeland and nonagricultural lands. Aquetic sites consist of standing and flowing water, estuarine/marine, wetland, and riparian areas. Nonagricultural lands include private, public and military lands as follows: uncultivated nonagricultural areas (including airports, highway, railroad and utility rights-of-way, and sewage disposal areas); uncultivated agricultural areas - noncrop producing (including farmyards, fuel

storage areas, fence rows, nonirrigation ditchbanks, and barrier strips); industrial sites - outdoor (including lumber-yards, pipeline and tank farms); and natural areas (including wildlife management areas, wildlife openings, wildlife habitats, recreation areas, campgrounds, trallheads, and trails). **Arsenal** may also be used for the release of unimproved Bermudagrass and Bahiagrass, for bareground weed control, and for use under certain paved surfaces.

Herbicidal Activity

Arsenal will control most annual and perennial grass and broadleaf weeds in addition to many brush and vine species with some residual control of undesirable species that germinate above the waterline. Arsenal is readily absorbed through emergent leaves and stems and is translocated rapidly throughout the plant with accumulation in the menstematic regions. For maximum activity, weeds should be growing vigorously at the time of application, and the spray solution should include a surfactant (see Adjuvants section for specific use directions). Treated plants stop growing soon after spray application. Chlorosis appears first in the newest leaves, and necrosis spreads from this point. In perennials, the herbicide is translocated into and kills underground or submerged storage organs. which prevents regrowth. Chtorosis and tissue necrosis. may not be apparent in some plant species until 2 or more weeks after application. Complete kill of plants may not occur for several weeks. Arsenal applications are rainfast 1 hour after treatment.

Product Use and Restrictions

Applications may be made for control of undesirable vegetation growing within specified aquatic sites, forestry sites, pasture/rangeland and nonagricultural lands. Aquatic sites consist of standing and flowing water; estuarine/marine, wetland, and riparian areas; for control of most annual and perennial grass weeds, broadleaf weeds, vines and brambtes, and hardwood brush and trees for forestry site preparation and release of conifers from woody and herbaceous competition. **Arsenal** may also be used for selective woody and herbaceous weed control in natural regeneration of certain conifers (see **Conifer Release Treatment**).

Nonagricultural lands include private, public and military lands as follows: uncultivated nonagricultural areas (including airports, highway, railroad and utility rights-of-way, and sewage disposal areas); uncultivated agricultural areas - noncrop producing (including farmyards, fuel storage areas, fence rows, nonimigation ditchbanks, and barrier strips); industrial sites - outdoor (including lumberyards, pipeline and tank farms); and natural areas (including wildlife management areas, wildlife openings, wildlife habitats, recreation areas, campgrounds, trailheads, and trails).

Restrictions and Limitations

- DO NOT use on food crops.
- DO NOT apply this product within 1/2 mile upstream of an active potable water intake in flowing water (i.e. river, stream, etc.) or within 1/2 mile of an active potable water intake in a standing body of water, such as a lake, pond, or reservoir.
- DO NOT apply to water used for irrigation except as described in Product Use and Restrictions section of this label.
- Keep from contact with fertilizers, insecticides, fungicides, and seeds.
- DO NOT drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the treated soil may be washed or moved into contact with their roots.
- DO NOT use on lawns, walks, driveways, tennis courts, or similar areas.
- DO NOT side trim desirable vegetation with this product unless severe injury and plant death can be tolerated.
 Prevent drift of spray to desirable plants.
- Clean application equipment after using this product by thoroughly flushing with water.

Nonagricultural Lands and Forestry Sites

 DO NOT apply more than 1.5 lbs acid equivalent (ae) imazapyr (equivalent to 96 fl ozs of Arsenai® herbicide) per acre per year.

Pasture/Rangeland Sites

- · For spot treatment only.
- DO NOT treat more than 1/10 of the available area to be grazed or cut for hay.
- DO NOT apply more than 0.75 to as imazapyr (equivalent to 48 fl ozs of Arsenal) per acre per year.

Aquatic Sites

- DO NOT apply more than 1.5 lbs ae imazapyr (equivalent to 96 ff ozs of Arsenal) per acre per year.
- Public waters Application of Arsenal to water can only be made by federal or state agencies, such as Water Management District personnel, municipal officials, and the U.S. Army Corps of Engineers, or those applicators who are licensed or certified as aquatic pest control applicators and are authorized by the state or local government. Treatment to other than non-native invasive species is limited to only those plants that have been determined to be a nuisance by a federal or state government entity.
- Permitting Consult local state fish and game agency and water control authorities before applying this product to public water. Permits may be required to treat such water.
- Private waters Applications may be made to private waters that are still, such as ponds, lakes, and drainage ditches where there is minimal or no outflow to public waters.
- Aerial application Aerial application to aquatic sites is restricted to helicopter only.

Irrigation water - Application to water used for irrigation that results in Arsenal residue greater than 1.0 ppb MUST NOT be used for irrigation purposes for 120 days after application or until Arsenal residue levels are determined by laboratory analysis or other appropriate means of analysis to be 1.0 ppb or less. When applications are made within 500 feet of an active irrigation intake,
 DO NOT irrigate for at least 24 hours following application to allow for dissipation.

Recreational Use of Water in Treatment Area

There are no restrictions on the use of water in the treatment area for recreational purposes, including swimming and fishing.

Livestock Use of Water in/from Treatment Area

There are no restrictions on livestock consumption of water from the treatment area.

Restrictions for Potable Water Intakes

DO NOT apply **Arsenal** directly to water within 1/2 mile upstream of an active potable water intake in flowing water (i.e. river, stream, etc.) or within 1/2 mile of an active potable water intake in a standing body of water such as a take, pond, or reservoir. To make aquatic applications around and within 1/2 mile of active potable water intakes, the water intake must be turned off during application and for a minimum of 48 hours after application. These aquatic applications may be made only in cases where there are alternative water sources or holding ponds that would permit turning off an active potable water intake for a minimum period of 48 hours after applications.

NOTE: Existing potable water intakes that are no longer in use, such as those replaced by connections to wells or a municipal water system, are not considered to be active potable water intakes. This restriction does not apply to intermittent, inadvertent overspray of water in terrestrial use sites.

Quiescent or Slow-moving Waters

In lakes and reservoirs, **DO NOT** apply **Arsenal** within 1 mile of an active irrigation water intake during the irrigation season. Applications less than 1 mile from an active irrigation water intake may be made during the off-season if the irrigation intake will remain inactive for a minimum of 120 days after application or until **Arsenal** residue levels are determined by laboratory analysis or other appropriate means of analysis to be 1.0 ppb or less.

Precautions for Avoiding Injury to Nontarget Plants

Untreated desirable plants can be affected by root uptake of **Arsenal®** herbicide from treated soil. Injury or loss of desirable plants may result if **Arsenal** is applied on or near desirable plants, on areas where their roots extend, or in locations where the treated soil may be washed or moved into contact with their roots. When making application along shorelines where desirable plants may be present, use caution to avoid spray contact with their foliage or spray application to the soil in which they are rooted. Shoreline plants that have roots which extend into the water in an area where **Arsenal** has been applied generally will not be adversely affected by uptake of the herbicide from the water.

If treated vegetation is to be removed from the application site, **DO NOT** use the vegetative matter as mulch or compost on or around desirable species.

Managing Off-target Movement

Aerial Application

- Applicators are required to use a coarse or coarser droplet size (ASABE \$572) or, if specifically using a spinning atomizer nozzie, applicators are required to use a volume mean diameter (VMD) of 385 microns or greater for release heights below 10 feet. Applicators are required to use a very coarse or coarser droplet size or, if specifically using a spinning atomizer nozzle, applicators are required to use a VMD of 475 microns or greater for release heights above 10 feet. Applicators must consider the effects of nozzle orientation and flight speed when determining droplet size.
- Applicators are required to use upwind swath displacement.
- The boom length must not exceed 60% of the wingspan or 90% of the rotor-blade diameter to reduce spray drift.
- Applications with wind speeds less than 3 mph and with wind speeds greater than 10 mph are prohibited.
- Applications into temperature inversions are prohibited.

Ground Boom Application

- Applicators are required to use a nozzle height below
 4 feet above the ground or plant canopy and coarse or
 coarser droplet size (ASABE S572) or, if specifically using
 a spinning atomizer nozzle, applicators are required to
 use a votume mean diameter (VMD) of 385 microns or
 creater.
- Applications with wind speeds greater than 10 mph are prohibited.
- Applications into temperature inversions are prohibited.

Wind Erosion

Avoid treating powdery, dry, or light sandy soits when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Adjuvants

Postemergence applications of **Arsenal** require the addition of a spray adjuvant. When making aquatic applications, only spray adjuvants approved or appropriate for aquatic use must be used.

Nonionic Surfactant

Use a nonlonic surfactant (NIS) at the rate of 0.25% volume/volume (v/v) or higher (see manufacturer's label) of the spray solution (0.25% v/v is equivalent to 1 quart in 100 gallons). For best results, select a nonionic surfactant with a hydrophilic-to-lipophilic balance (HLB) ratio between 12 and 17 with at least 70% surfactant in the formulated product. Alcohol, fatty acid, oif, ethylene glycol, or diethylene glycol should not be considered as surfactants to meet the above requirements.

Methylated Seed Oil or Vegetable Oil Concentrate

Instead of a surfactant, a methylated seed oil (MSO) or vegetable-based seed oil concentrate may be used at the rate of 1.5 to 2 pints per acre. When using spray volumes greater than 30 gallons per acre, mix MSO or vegetable-based seed oil concentrates at a rate of 1% of total spray volume, or alternatively use a nonionic surfactant as described above. Research indicates that these oils may aid in **Arsenal** deposition and uptake by plants under moisture or temperature stress.

Silicone-based Surfactant

See manufacturer's label for specific rates. Silicone-based surfactants may reduce the surface tension of the spray dropfet allowing greater spreading on the leaf surface as compared to conventional nonionic surfactants. However, some silicone-based surfactants may dry too quickly, limiting herbicide uptake.

Invert Emulsions

Arsenat can be applied as an invert emulsion. The spray solution results in an invert (water-in-oil) spray emulsion designed to minimize spray drift and spray runoff, resulting in more herbicide on the target foliage. The spray emulsion may be formed in a single tank (batch mixing) or injected (in-line mixing). Consult the invert chemical label for proper mixing directions.

Other

An antifoaming agent, spray pattern indicator, or driftreducing agent may be applied at the product labeled rate if necessary or desired.

Tank Mixes

Arsenal may be tank mixed with other herbicides.

Consult manufacturer's labels for specific rate restrictions and weeds controlled. Always follow the more restrictive label restrictions and precautions for all products used when making an application involving tank mixes.

Application Methods

Arsenal® herbicide may be selectively applied using low-volume directed application techniques or may be broadcast-applied using ground equipment, watercraft, or aircraft. Aerlal applications to aquatic sites must be made by helicopter. In addition, Arsenal may also be applied using cut-stump, cut-stem, and frill or girdle treatment techniques within nonagricultural lands, pasture/rangeland, and aquatic sites; see Aerial Application and Ground Application sections for additional details.

Aerial Application

All precautions must be taken to minimize or eliminate spray drift. Both fixed-wing aircraft and helicopters can be used to apply Arsenal on nonagricultural lands, but only helicopters can be used for aquatic applications. DO NOT rnake applications by fixed-wing aircraft or helicopter unless appropriate buffer zones can be maintained to prevent spray drift out of the target area; or when treating open tracts of land, spray drift as a result of fixed-wing aircraft application can be tolerated. Aerial equipment designed to minimize spray drift, such as a helicopter equipped with a Microfoll™ boom, Thru-Valve™ boom, or raindrop nozzles, must be used and calibrated. Except when applying with a Microfoil boom, a drift control agent may be added at the specified label rate, DO NOT side trim with Arsenal unless death of treated tree can be tolerated.

Uniformly apply the specified amount of **Arsenal** in 2 to 30 gallons of water per acre. A foarn-reducing agent may be added at the specified label rate, if needed.

Thoroughly clean application equipment, including landing gear, immediately after use of this product. Prolonged exposure of this product to uncoated steel (except stainless steel) surfaces may result in corrosion and failure of the exposed part. The maintenance of an organic coating (paint) may prevent corrosion.

Ground Application

Foliar Application

Low-volume Foliar Application

Use equipment calibrated to deliver 5 to 20 gallons of spray solution per acre. To prepare the spray solution, thoroughly mix in water 0.5% to 5% **Arsenal** plus surfactant; see the **Adjuvants** section of this label for specific use directions. A foarn-reducing agent may be applied at the specified label rate, if needed. For difficult-to-control species (see **Aquatic Weed Control** and **Terrestrial Weed Control** sections for relative susceptibility of weed species), use the higher concentrations of herbicide and/or spray volumes, but **DO NOT** apply more than 3 quarts of **Arsenal** per acre in aquatic sites and nonagricultural lands and 1.5 quarts per acre in pasture/rangeland. Excessive wetting of foliage is not necessary.

For low-volume foliar application, select proper nozzles to avoid overapplication. Proper application is critical to ensure desirable results. Best results are achieved when spray covers the crown and approximately 70 percent of the plant. The use of an even, flat-fan tip with a spray angle of 40 degrees or less will aid in proper deposition.

Appropriate tip sizes include 4004E or 1504E. For a straight-stream and cone pattern, adjustable cone nozzles, such as 5500 X3 or 5500 X4, may be used. Attaching a rollover valve onto a Spraying Systems Model 30 gunjet or other similar spray gun allows for the use of both flat-fan and cone tips on the same gun.

Moisten, but **DO NOT** drench target vegetation causing spray solution to run off.

Low-volume Foliar Application with Backpack. For low-growing species, spray down on the crown, covering crown and penetrating approximately 70% of the plant.

For target species 4 to 8 feet tall, swipe the sides of target vegetation by directing spray to at least 2 sides of the plant in smooth vertical motions from the crown to the bottom. Make sure to cover the crown whenever possible.

For target species over 8 feet tall, lace sides of target vegetation by directing spray to at least 2 sides of the target in smooth zigzag motions from crown to bottom.

Low-volume Foliar Application with Hydraulic Handgun Application Equipment. Use the same technique as described for Low-volume Foliar Application with Backpack.

For broadcast application, simulate a gentle rain near the top of target vegetation allowing spray to contact the crown and penetrate the target foliage without falling to the understory. Herbicide spray solution that contacts the understory may result in severe injury or death of plants in the understory.

High-volume Foliar Application

For optimum performance when spraying medium-density to high-density vegetation, use equipment calibrated to deliver up to 100 gallons of spray solution per acre (GPA). Spray solutions exceeding 100 GPA may result in excessive spray runoff, causing increased ground cover injury and injury to desirable species.

To prepare the spray solution, thoroughly mix **Arsenal** in water and add a surfactant; see **Adjuvants** section for specific use directions and rates for surfactants. A feam-reducing agent may be added at the specified label rate, if needed. For difficult-to-control species (see **Aquatic Weed Control** and **Terrestrial Weed Control** sections for relative susceptibility of weed species), use the higher concentrations of herbicide and/or spray volumes, but **DO NOT** apply more than 3 quarts of **Arsenal** per acre in aquatic sites and nonagricultural lands and 1.5 quarts per acre in pasture/rangeland. Uniformly cover the foliage of the vegetation to be controlled, but **DO NOT** apply to runoff. Excessive wetting of foliage is not necessary.

Side Trimming

DO NOT side trim with **Arsenal® herbicide** unless severe injury or death of the treated tree can be tolerated. **Arsenal** is readily translocated and can result in death of the entire tree.

Cut-surface Treatment

Arsenal may be used to control undesirable woody vegetation by applying the **Arsenal** solution to the cambium area of freshly cut stump surfaces or to fresh cuts on the stem of target woody vegetation. Application can be made any time of the year except during periods of heavy sap flow in the spring. **DO NOT** overapply solution causing runoff from the cut surface.

Injury may occur to desirable woody plants if shoots extend from the same root system or their root systems are grafted to those of the treated tree.

Cut-surface Application with Dilute and Concentrate Solutions

Arsenal may be mixed as either a concentrate or dilute solution. The dilute solution may be used for application to the cut surface of the stump or to cuts on the stem of target woody vegetation. Concentrate solutions may be used for application to cuts on the stem. Use of the concentrate solution permits application to fewer cuts on the stem, especially for large-diameter trees. Follow application instructions for proper application techniques for each type of solution.

- To prepare a dilute solution, mix 8 to 12 fluid ounces of Arsenal with 1 gallon of water. A surfactant or penetraling agent may improve uptake through partially callused cambiums.
- To prepare a concentrate solution, mix 2 quarts of Arsenal with no more than 1 quart of water.

Cut-stump Treatment

Dilute Solution. Spray or brush the solution onto the cambium area of the freshly cut stump surface. Ensure that the solution thoroughly wets the entire cambium area (the wood next to the bark of the stump).

Cut-stem Treatment (injection, hack-and-squirt)

Dilute Solution. Using standard injection equipment, apply 1 milliliter (mL) of solution at each injection site around the tree with no more than 1-inch intervals between cut edges. Ensure that the injector completely penetrates the bank at each injection site.

Concentrate Solution. Using standard injection equipment, apply 1 mL of solution at each injection site. Make at least 1 injection cut for every 3 inches of diameter at breast height (DBH) on the target tree. For example, a 3-inch DBH tree will receive 1 injection cut, and a 6-inch DBH tree will receive 2 injection cuts. On trees requiring more than 1 injection site, place the injection cuts at approximately equal intervals around the tree.

Frill or Girdle Treatment

Using a hatchet, machete, or chainsaw, make cuts through the bark and completely around the tree to expose the cambium. The cut should angle downward extending into the cambium enough to expose at least 2 growth rings. Using a spray applicator or brush, apply a 25% to 100% solution of **Arsenal** into each cut until thoroughly wet. Avoid applying so much herbicide that runoff to the ground or water occurs.

Forestry Use

Site Preparation Treatment

Arsenal may be used to control labeled grass weeds, broadleaf weeds, vines and brambles, and woody brush and trees on forest sites in advance of regeneration for the following conifer crop species:

Common Name	Scientific Name	Rate (fi ozs/A)
Lobiolly pine	Pinus taeda	11001000000
Lobiolly X pitch hybrid		
Longleaf pine	Pinus palustris	48 to 80
Shortleaf pine	Pinus echinata	
Virginia pine	Pinus virginiana	
Slash pine	Pinus elliottii	40 to 64
Coastal redwood	Sequoia sempervirens	
Douglas fir	Pseudotsuga menziesii	24 to 48
Western hemlock	Tsuga heterophylla	
California red fir	Abies magnifica	24 to 40
California white fir	Abies concolor	24 10 40
Jack pine	Pinus banksiana	
Lodgepole pine	Pinus contorta	
Pitch pine	Pinus rigida	
Ponderosa pine	Pinus ponderosa	
Sugar pine	Pinus lambertiana	24 to 32
White pine	Pinus strobus	
Black spruce	Picea mariana	
Red spruce	Picea rubens	
White spruce	Picea glauca	

Use the label rate of **Arsenal** per acre applied as a broadcast foliar spray for long-term control of labeled woody plants and residual control of herbaceous weeds. Within 4 to 6 weeks of treatment, grass and other herbaceous weeds will be controlled and may provide fuel to facilitate a site preparation burn, if desired, to control conifers or other species tolerant to the herbicide.

Apply the label rate of **Arsenat** per acre in 5 to 30 gallons total spray solution for helicopter applications or 5 to 100 gallons total spray solution for mechanical ground spray and backpack applications. Use a minimum of 0.5% by volume nonionic surfactant (NIS). Use the higher label rates of **Arsenal** and higher spray volumes when

controlling particularly dense or multilayered canopies of hardwood stands or difficult-to-control species.

In certain cases, tank mixes may be necessary for chemical control of conifers and other species tolerant to **Arsena!**^a **herbicide**. Observe all precautions and restrictions on the product labels. Always follow the most restrictive label. Combinations with other products labeled for forest site preparation may kill certain plants such as legumes and blackberry, which are desirable for wildlife habitat.

Where quick initial brownout (deadening of foliage) is desired for burning, apply a tank mixture of 32 fl ozs to 64 fl ozs **Arsenál** with 16 fl ozs to 64 fl ozs glyphosate or 16 fl ozs to 48 fl ozs trictopyr ester per acre. For control of seedling pines, apply 32 fl ozs to 64 fl ozs **Arsenál** with 3 to 4 quarts glyphosate. For site preparation, rates less than 48 fl ozs **Arsenál** will provide suppression of hardwood brush and trees; some resprouting may occur.

DO NOT plant seedlings of black spruce (*Picea mariana*) or white spruce (*Picea glauca*) on sites broadcast-treated with **Arsenal** or into the treated zone of spot or banded applications for 3 months following application or injury may occur.

Herbaceous Weed Control

Use Arsenal for selective weeding in the following conifers:

Common Name	Scientific Name	Rate (fl ozs/A)
Loblofly pine	Pinus taeda	
Loblolly X pitch hybrid		12 to 20
Virginia pine	Pinus virginiana	
Longleaf pine ¹	Pinus palustris	
Slash pine'	Pinus elliottii	8 to 12
Douglas fir ¹	Pseudotsuga menziesii	

^{*}Use of surfactant is not recommended.

Arsenal may be applied as a broadcast treatment, banded over tree rows, or as a directed spray for release of young conifers from herbaceous weeds. To prevent possibility of conifer injury, DO NOT apply Arsenal when conifers are under stress from drought, disease, animal or winter injury, planting shock, or other stresses reducing confier vigor. Broadcast applications may be made by helicopter, ground, or backpack sprayer. For difficult-to-control weeds, use the higher labeled rates. Where herbaceous weeds have overtopped confer seedlings, a nonionic surfactant may be added to improve weed control (except for slash pine, long-leaf pine, and Douglas fir), at a rate not to exceed 0.5% of spray solution volume. Some minor conifer growth inhibition may be observed when herbaceous weed control treatments are made during periods of active conifer growth.

Arsenal may also be applied using backpack or handheld sprayers to control herbaceous weeds around individual conifer seedlings. Mix 0.8 ft oz to 1.2 ft ozs **Arsenal** and 0.2 oz nonionic surfactant per gation of water. Direct the spray to the weeds and minimize the amount applied to

conifer follage for best conifer tolerance. Ensure that maximum labeled rates per acre for previously listed crop species are not exceeded.

Arsenal may be tank mixed with suitometuron to broaden the spectrum of weeds controlled. For lobioity pine, apply 8 fl ozs to 12 fl ozs **Arsenal** plus 1 oz to 2 ozs sulformeturon per acre. The application of **Arsenal** plus sulformeturon on other conifer species may cause growth suppression.

Conifer Release Treatment

Arsenal may be applied as a broadcast or directed spray application for suppression of labeled brush, tree, and herbaceous weed species. Directed spray applications may be made with low-volume applications in conifer stands of all ages by targeting the unwanted vegetation and avoiding direct application to the conifer. Ensure that maximum labeled rates per acre listed for the following crop species are not exceeded.

Broadcast Applications for release of the following conifers from hardwood competition:

Common Name	Scientific Name	Rate (fl ozs/A)
Labloty pine ^a	Pinus taeda	
Loblolly X pitch hybrid ^a		24 to 40
Virginia pine³	Pinus virginiana	
Longleaf pine	Pinus palustris	
Pitch pine	Pinus rigida	24 to 32
Shortleaf pine	Pinus echinata	24 10 32
Slash pine	Pinus elliottii	
White pine'	Pinus strobus	16 to 32
California red fir	Abies magnifica	
California white fir	Abies concolor	16 to 24
Lodgepole pine ^a	Pinus contorta	10 (0 24
Douglas fir²	Pseudotsuga menziesii	
Jack pine ²	Pinus banksiana	
Błack spruce ^z	Picea mariana	12 to 24
Red spruce?	Picea rubens	12 10 24
White spruce*	Picea glauca	

DO NOT make applications to white pine stands younger then three years old. To minimize potential white pine injury, release treatments should not be made prior to July 15.

For slash pine and longleaf pine, broadcast release treatments over the top of pines for the purpose of woody plant control must be made after August 15 and only in stands 2 through 5 years old. For applications over the top of slash pine and longleaf pine, DO NOT add surfactant and use lower labeled rates on sandy soils.

^{*} Applications should be made after formation of final conifer resting buds in the fall or height growth inhibition may occur.

Mid-rotation release: For broadcast applications below the pine canopy in established stands of loblolly pine, loblolly X pitch hybrid, and Virginia pine, use 32 fliozs to 64 fliozs product per acre. For mild rotation release of other species, use rates listed in chart above.

Apply the label rate of **Arsenal® herbicide** per acre when making broadcast applications with helicopter or ground spray equipment. Refer to mixing and application instructions for proper spray volumes. A nonionic surfactant may be added at no more than 0.25% by volume.

Use the higher label rates of **Arsenal** when controlling particularly dense stands or difficult-to-control species.

Some minor conifer growth inhibition may be observed when release treatments are made during periods of active conifer growth. To minimize potential conifer height growth inhibition, **DO NOT** make broadcast applications to conifer stands except loblolly pine before the end of the second growing season. To minimize potential conifer height growth inhibition, broadcast release treatments may be made late in the growing season. To prevent possibility of conifer injury, **DO NOT** apply **Arsenal** when conifers are under stress from drought, disease, animal or winter injury, or other stresses reducing conifer vigor.

Arsenal may be used to release loblotly pine seedlings during the first growing season following planting or for one-year-old natural loblotly pine regeneration. For one-year-old lobfotly pine release, apply 24 fl ozs to 40 fl ozs per acre of **Arsenal** after July 15. Rates below 32 fl ozs per acre are intended for hardwood growth suppression; expect hardwood resprouting.

Spot Treatment of Undesirable Hardwood Vegetation

Arsenal may be used as a directed foliar or cut-stem application to control undestrable brush and hardwoods in the management of stands of all ages for the conifer species listed in the broadcast application section above. Refer to mixing and application instructions in the directed foliar or cut-stem sections above for proper use rates, equipment, and application techniques. **DO NOT** exceed maximum labeled rates per acre listed for crop species. Cut-stem applications may be used for spot treatment of undesirable hardwoods in Ponderosa pine stands using 24 fliozs or less of **Arsenal** per acre.

Avoid direct application to desired plant species or injury may occur. Injury may occur to nontarget or desirable hardwoods or coniters if they extend from the same root system, or their root systems are grafted to those of the treated tree, or their roots extend into the treated zone.

Late Rotation Vegetation Control in Western Conifer

In California, the Pacific Northwest and Inland Northwest, broadcast aerial applications of **Arsenal** up to 48 fl ozs per acre are permissible in conifer stands that are targeted for harvesting the year following treatment. Use minimum spray volume of 15 galions per acre. Significant conifer injury or mortality must be expected. **DO NOT** use this treatment if conifer injury or mortality cannot be tolerated.

Bag and Spray Application for Conifer Release

In Douglas fir and Ponderosa pine stands, broadcast applications of **Arsenal** up to 32 ff ozs per acre are permissible when the trees are covered by bags prior to the application. The bags must prevent the spray mix from contacting the conifer foliage. On sites with coarse textured soils (e.g. decomposed granite, purnice, sandy or rocky sites) or low levels of soil organic matter (generally 6% or less), significant conifer growth inhibition and mortality is possible. **DO NOT** use this treatment on these types of sites if conifer growth inhibition and mortality cannot be tolerated.

Nonagricultural Land Use

Arsenal may be used for woody and herbaceous weed control in nonagricultural lands including private, public and military lands as follows: uncultivated nonagricultural areas (including airports, highway, railroad and utility rights-of-way, and sewage disposal areas); uncultivated agricultural areas - noncrop producing (including farmyards, fuel storage areas, fence rows, nonirrigation dischbanks, and barrier strips); industrial sites - outdoor (including tumber-yards, pipeline and tank farms); and natural areas (including wildlife management areas, wildlife openings, wildlife habitats, recreation areas, campgrounds, trailheads, and trails).

Applications to nonagricultural lands are not applicable to treatment of commercial timber or other plants grown for sale or other commercial use, or for commercial seed production, or for research purposes.

Brush Control

Use the specified rate of **Arsenat** with the preferred application technique for control of undesirable brush.

Tank Mixes and Application Rates for Low-volume Foliar Brush Control*

Target Vegetation	Arsenal Rate (% by volume)	Tank Mix
Mixed hardwoods without elm, locust, or pine	1.0 to 1.5	Surfactant
Mixed hardwoods containing elm, locust, and pine		Accord® at 2% to 3% by volume plus surfactant
Mixed hardwoods with locust and pine but no elm	0.5 to 1.0	Krenite* at 2% to 5% by volume plus surfactant
Mixed hardwoods with locust and elm but no pine		Escort® at 2 ozs/A or 2.3 grams/gat plus surfactant

Tank mixes with 2,4-0 or products containing 2,4-0 have resulted in reduced **Arcenet** efficacy.

Backpack and Handheld Spray Mixing Guide

% solution	Product per gallon of mix (fi ozs)	Product per 4-gailon backpack (fl ozs)
0.25	0.3	1.3
0.5	0.6	2.6
1.0	1.3	5.1
2.0	2.6	10.2
3.0	3.8	15.4
5.0	6.4	25.6

Measuring Chart

128 fluid ounces	=	, 1 gallon
16 fluid ounces	=	firit
8 pints	=	f galfon
4 quarts	=	1 gallon
2 pints		1 quart

Selective Control of Undesirable Weeds in Unimproved Bermudagrass and Bahiagrass

Arsenais herbicide may be used on unimproved Bermudagrass and Bahiagrass turf such as roadsides, utility rights-of-way, and other nonagricultural lands. Arsenal application on established common and coastal Bermudagrass and Bahiagrass provides control of labeled broadleaf and grass weeds. Competition from these weeds is eliminated, releasing the Bermudagrass and Bahiagrass. Treatment of Bermudagrass with Arsenal results in a compacted growth habit and seedhead inhibition.

Uniformly apply with properly calibrated ground equipment using at least 10 gallons of water per acre.

Temporary yellowing of grass may occur when treatment is made after growth begins.

- DO NOT add surfactant in excess of the specified rate (1 fl oz per 25 gallons of spray solution).
- . DO NOT APPLY to grass during its first growing season.
- DO NOT APPLY to grass under stress from drought, disease, insects, or other causes.

Dosage Rate and Timing

Bermudagrass. Apply Arsenal at 6 fl ozs to 12 fl ozs per acre when Bermudagrass is dormant. Apply Arsenal at 6 fl ozs to 8 fl ozs per acre after Bermudagrass has reached full greenup. Applications made during greenup will delay greenup. Include a surfactant in the spray solution.

For additional preemergence control of annual grass and small-seeded broadleaf weeds, add **Pendulum**^a **AquaCap™ herbicide** at the rate of 3.1 to 6.3 pints per acre. Consult the **Pendulum AquaCap** label for weeds controlled and for other use directions and precautions.

For control of Johnsongrass in Bermudagrass turf, apply **Arsenal** at 8 fl ozs per acre, plus **Roundup® herbicide** at 12 fl ozs per acre, plus surfactant. For additional control of broadleaves and vines, **Garlon® 3A herbicide** may be added to the above mix at 1 to 2 pints per acre. Observe all precautions and restrictions on the **Garlon 3A** and **Roundup** labels.

Bahiagrass. Apply **Arsenal** at 4 fl ozs to 8 fl ozs per acre when Bahiagrass is dormant or after grass has initiated greenup but has not exceeded 25% greenup, include a surfactant in the spray solution; see **Adjuvants** section for specific use directions for surfactants.

Weeds Controlled in Unimproved Bermudagrass and Bahlagrass

Common Name	Scientific Name	
Bedsfraw*	Galium spp.	
Bishopweed*	Ptilimnium capillaceum	
Buttercup*	Ranunculus parviflorus	
Carolina geranium	Geranium carolinianum	
Fescue	Festuca spp.	
Foxtait	Setaria spp.	
Little barley	Hordeum pusillum	
Seedling Johnsongrass	Sorghum halepense	
White clover	Trifolium repens	
Wild carrot	Daucus carota	
Yellow woodsomel	Oxalis stricta	

^{*} Use not permitted in California unless otherwise directed by supplemental labeling.

Grass Growth and Seedhead Suppression

Arsenal may be used to suppress growth and seedhead development of certain turfgrass in unimproved areas. When Arsenal is applied to desirable turf, it may result in temporary turf damage and/or discoloration. Effects to the desirable turf may vary with environmental conditions. For optimum performance, apply before culm elongation. Applications may be made before or after mowing. If applied before mowing, allow at least 3 days of active growth before mowing. If applied after mowing, allow sufficient time for grass to recover before applying this product or injury may be amplified.

DO NOT APPLY to turf under stress (drought, cold, insect damage, etc.) or severe injury or death may occur.

Bermudagrass. Apply **Arsenal** at 6 ft ozs to 8 ft ozs per acre from early greenup to before seedhead initiation. **DO NOT** add surfactant for this application.

Cool-season Unimproved Turf. Apply Arsenal at 2 fl ozs per acre plus 0.25% nonionic surfactant. For increased suppression, Arsenal may be tank mixed with products such as Embark® growth regulator (8 fl ozs per acre). Tank mixes may increase injury to desired turf. Consult each product label for labeled turf species and other use directions and precautions. Tank mixes with 2,4-D or products containing 2,4-D may decrease the effectiveness of Arsenal.

Total Vegetation Control where Bare Ground is Desired

Arsenal* herbicide is an effective herbicide for preemergence or postemergence control of many annual and perennial broadleaf and grass weeds where bare ground is desired. Arsenal is particularly effective on hard-to-control perennial grasses. Arsenal at 1.5 to 6 pints per acre can be used alone or in tank mix with herbicides approved for use in bare ground. The degree and duration of control are dependent on Arsenal rate used, tank mix partner, volume of carrier, soil texture, rainfall, and other conditions.

Consult manufacturer's labels for specific rates and weeds controlled. Always follow the more restrictive label restrictions and precautions for all products used when making an application involving tank mixes.

Applications of **Arsenal** may be made any time of the year. Use equipment calibrated to deliver desired gallons per acre spray volume and uniformly distribute the spray pattern over the treated area.

Postemergence Application. Always use a spray adjuvant (see Adjuvants section of this label) when making a postemergence application. For optimum performance on tough-to-control annual grass weeds, apply Arsenal at a total volume of 100 gallons per acre or less. For quicker burndown or brownout of target weeds, Arsenal may be tank mixed with Roundup* herbicide. Tank mixes with 2,4-D or products containing 2,4-D may reduce the performance of Arsenal. Always follow the most restrictive label restrictions and precautions for all products used when tank mixing.

Spot Treatment. Arsenal may be used as a follow-up treatment to control escapes or weed encroachment in a bareground situation. To prepare the spray solution, thoroughly mix in each gallon of water 0.5% to 5% Arsenal plus an adjuvant. For increased burndown, include Roundup as a tank mixture. For added residual weed control or to increase the weed spectrum, add Pendulum® AquaCap™ herbicide, Overdrive® herbicide, or diuron. Always follow the most restrictive label restrictions and precautions for all products used when tank mixing.

Control of Undesirable Weeds under Paved Surfaces

Arsenal can be used under asphalt, pond liners, and other paved areas, **ONLY** in industrial sites or where the pavement has a suitable barrier along the perimeter that prevents encroachment of roots of desirable plants.

Use **Arsenal** only where the area to be treated has been prepared according to good construction practices. If rhizomes, stolons, tubers, or other vegetative plant parts are present in the site, remove them by scalping with a grader blade to a depth sufficient to ensure their complete removal.

Follow **Arsenal** applications with paving as soon as possible. **DO NOT** apply where **Arsenal** may contact the roots of desirable trees or other plants.

Arsenal is not to be used under pavement on residential properties, such as driveways or parking lots, or for use in recreational areas, such as under bike or jogging paths, golf cart paths, or tennis courts, or where landscape plantings could be anticipated.

Injury or death of desirable plants may result if **Arsenal** is applied where roots are present or where roots may extend into the treated area. Roots of trees and shrubs may extend a considerable distance beyond the branch extremities (drip line).

Apply to the soil surface only when final grade is established. **DO NOT** move soil following **Arsenal** application.

Apply **Arsenal** in sufficient water (at least 100 gals per acre) to ensure thorough and uniform wetting of the soil surface, including shoulder areas. Add **Arsenal** at a rate of 3 quarts per acre (2.2 fluid ounces per 1000 square feet) to clean water in the spray tank during filling operation. Agitate before spraying.

If soil is not moist before treatment, incorporation of **Arsenal** is needed for herbicide activation, incorporate **Arsenal** into the soil to a depth of 4 to 6 inches using a rototiller or disc. Rainfall or irrigation of 1 inch will also provide uniform incorporation. **DO NOT** allow treated soil to wash or move into untreated areas.

Spot Treatment and Crack-and-crevice Treatment

Use **Arsenal** as an initial or follow-up treatment to control weed escapes or weed encroachment in a bareground situation, including cracks and crevices in paved surfaces such as roadways, runways, and parking areas.

Grass Pasture and Rangeland Spot Treatment Weed Control

For control of undesirable vegetation in grass pasture and rangeland, **Arsenal** may be applied as a spot treatment at a rate of 2 to 48 fluid ounces of product per treated acreusing any of the described ground application methods. Spot applications to grass pasture and rangeland may not exceed more than 1/10 of the area to be grazed or cut for hay. See appropriate sections of this label for specific use directions for the application method and vegetation control desired. **DO NOT** apply more than 48 fluid ounces of **Arsenal** per acre per year.

Grazing and Haying Restrictions

- There are no grazing restrictions following Arsenal application.
- DO NOT cut forage grass for hay for 7 days after Arsenal application.

Rangeland Use Instructions

Arsenal* herbicide may be applied to rangeland for control of undesirable vegetation to achieve one or more of the following vegetation management objectives:

- Control of undesirable (nonnative, invasive, and noxious) plant species
- Control of undesirable vegetation to aid in the establishment of desirable rangeland plant species
- Control of undesirable vegetation to aid in the establishment of desirable rangeland vegetation following a fire
- Control of undesirable vegetation to reduce wildfire fuel
- Release of existing desirable rangeland plant communities from the competitive pressure of undesirable plant species
- Control of undesirable vegetation for wildlife habitat improvement

To ensure the protection of threatened and endangered plants when applying **Arsenal** to rangeland:

- Federal agencies must follow NEPA regulations to ensure protection of threatened and endangered plants.
- State agencies must work with the Fish and Wildlife Service or the Service's designated state conservation agency to ensure protection of threatened and endangered plants.
- Other organizations or individuals must operate under a habitat conservation plan if threatened or endangered plants are known to be present on the land to be treated.

See the appropriate section(s) of this label for specific use directions for the desired rangeland vegetation management objective.

Arsenal must only be applied to a given rangeland acre as specific weed problems arise. Long-term control of undesirable weed species ultimately depends on the successful use of land management practices that promote the growth and sustainability of desirable rangeland plant species.

Rotational Crop Instructions

Rotational crops may be planted 12 months after applying **Arsenal** at the specified pasture and rangeland rate. Following 12 months after an **Arsenal** application and before planting any crop, a successful field bioassay must be completed. The field bioassay consists of a test strip of the intended rotational crop planted in the previously treated area in the grass pasture/rangeland and grown to maturity. The test strip should include low areas and knotls and include variations in soil type and pH within the treated area. If no crop injury is evident in the test strip, the intended rotational crop may be planted the following year.

Use of **Arsenal** in accordance with tabel directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and, therefore, rotational crop injury is always possible.

Aquatic Weed Control

Arsenal may be applied for control of floating and emergent undesirable vegetation (see Aquatic Weeds Controlled and Terrestrial Weeds Controlled) in or near bodies of water that may be flowing, nonflowing, or transient. Arsenal may be applied to aquatic sites that include lakes, rivers, streams, ponds, seeps, drainage ditches, canals, reservoirs, swamps, bogs, marshes, estuaries, bays, brackish water, transitional areas between terrestrial and aquatic sites, riparian sites, and seasonal wet areas. See Product Use and Restrictions section of this label for restrictions and instructions on aquatic uses.

Read and observe the following directions if aquatic sites are present in nonagricultural lands and are part of the intended treatment area.

Arsenai must be applied to the emergent foliage of the target vegetation and has little-to-no activity on submerged aquatic vegetation. **Arsenal** concentrations resulting from direct application to water are not expected to be of sufficient concentration or duration to control target vegetation. Apply **Arsenal** to maximize spray interception by target vegetation while minimizing the amount of overspray that enters the water.

Arsenal does not control plants that are completely submerged or have a majority of their foliage under water.

Arsenal may be applied with surface or helicopter application equipment in a minimum of 2 gallons of water per acre. When applying by helicopter, follow directions under the **Aerial Application** section of this label; otherwise, refer to the **Ground Application** section when using surface equipment.

Applications to moving bodies of water should be made while traveling upstream to prevent concentration of this herbicide in water. **DO NOT** apply to bodies of water or porttons of bodies of water where emergent and/or floating weeds do not exist.

When applying to target vegetation that covers a large percentage of the surface area of impounded water, treating the area in strips may avoid oxygen depletion because of decaying vegetation. Oxygen depletion may result in the suffocation of some sensitive aquatic organisms. If oxygen deptetion is a concern, treat no more than 1/2 of the surface area of the water in a single operation and wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outward in bands to allow aquatic organisms to move into untreated areas.

Avoid washoff of sprayed foliage by spray boat or recreational boat backwash for 1 hour after application.

Apply **Arsenal** at 1 to 3 quarts per acre depending on species present and weed density. **DO NOT** exceed the maximum label rate of 3 quarts per acre (1.5 this ae/A) per year. Use the higher labeled rates for heavy weed pressure. Consult **Aquatic Weeds Controlled** and **Terrestrial Weeds Controlled** for specific rates.

Arsenai® herbicide may be applied as a draw-down treatment in areas described above. Apply Arsenal to weeds after water has been drained and allow 14 days before reintroduction of water.

Weeds Controlled

Aquatic Weeds Controlled

Arsenal® herbicide will control the following target species as specified in the Use Rates and Application Directions column of the table. Rates are expressed in terms of product volume for broadcast applications and as a % solution for directed applications including spot treatments. For % solution applications, DO NOT apply more than the equivalent of 3 quarts of Arsenat per acre.

Common Name	Scientific Name	Use Rates and Application Directions
Floating Weeds		
*Floating heart	Nymphodes app.	2 to 4 pints/A (0.5 to 1.0% solution) applied in 100 GPA water mix, Ensure 100% coverage of actively growing emergent foliage.
*Frogbit	Limnobium spongia	1 to 2 pints/A (0.6% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing emergent foliage.
*Spatterdock	Nuphar luteum	Apply a tank mix of: 2 to 4 pints/A Arsenal + 4 to 6 pints/A glyphosate (0.5% Arsenal + 1.5% glyphosate) in 100 GPA water for best control. Ensure 100% coverage of actively growing emergent foliage.
*Water hyacinth	Eichhornia crassipes	1 to 2 pints/A (0.5% solution) applied in 100 GPA water to actively growing foliage.
*Water lettuce	Pistia stratiotes	1 to 2 pints/A (0.5% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing emergent foliage.
Emerged Weeds		
*Alligatorweed	Altemanthera philoxeroides	t to 4 pints/A (0.5% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing emergent foliage.
*Arrowhead, duck-potato	Sagittaria spp.	f to 2 pints/A (0.5% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing emergent foliage.
*Васора, Іетюп	Васора врр.	1 to 2 pints/A (0.5% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing emergent foliage.
*Perrot feather	Myriophyllum aquaticum	Foliage must be above water for sufficient Arsenal uptake. Apply 2 to 4 pints/A Arsenal to actively growing emergent foliage.
*Pennywort	Hydrocatyle spp.	1 to 2 pints/A (0.6% solution) applied in 100 GPA water rnix. Ensure 100% coverage of actively growing emergent foliage.
*Pickerelweed	Pontederia cordata	2 to 3 pints/A (1% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing emergent foliage.
*Taro, wlid Coco yam Dashoen Elephant's ear	Colocasia esculentum	4 to 6 pints/A (1.5% solution) applied in 100 GPA with a high quality sticker adjuvant. Ensure good coverage of actively growing emergent foliage.

^{*} Use not permitted in California unless otherwise directed by supplemental labeling.

(continued)

Common Name	Scientific Name	Use Rates and Application Directions
Emerged Weeds (continu		
*Water chestnut	Trappa natans	4 to 6 pints/A (1.5% solution) applied in 100 GPA with a filgh quality sticker adjuvant. Ensure good coverage of actively growing emergent foliage.
*Water lily	Nymphaea odorata	2 to 3 pints/A (1% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing emergent foliage.
*Water primrose	Ludwigia uruguayensis	4 to 6 pints/A (1.5% solution). Ensure 100% coverage of actively growing emergent foliage.
Terrestrial/Marginal We	eds .	
*Aquatic nightshade Soda apple	Solanum tampicense	2 pints/A applied to foliage
'Bamboo, Japanese	Phyllostachys spp.	3 to 4 pints/A applied to foliage when plant is actively grow- ing; before setting seedhead. More foliage will result in greater herbicide uptake, resulting in greater root kill.
Beach, vitex	Vitex rotundifolia	5% solution + 1% MSO foliar spray 17% solution stem injection (hack and squirt)
Brazilian pepper Christmasberry	Schinus terebinthifolius	2 to 4 pints/A applied to foliage
Cattail	Typha spp.	2 to 4 pints/A (1% solution) applied to actively growing green foliage after full leaf elongation. Lower rates will control cattail in the North; higher rates are needed in the South.
Chinese tallow tree	Sapium sebiferum	16 to 24 fl ozs/A applied to foliage
Cogongrass	Imperata cylindrica	Burn foliage, till area; then fall-spray 2 quarts/A Arsenal^a herbicide + MSO applied to new growth.
Cordgrass, prairie	Spartina spp.	4 to 6 pints/A applied to actively growing foliage
*Cutgrass	Zizaniopsis miliacea	4 to 6 pints/A applied to actively growing foliage
*Elephant grass Napier grass	Pennisetum purpureum	3 pints/A applied to actively growing foliage
*Flowering rush	Butomus umbellatus L.	2 to 3 pints/A applied to actively growing foliage
Giant reed Wild cane	Arundo donax	4 to 6 pints/A applied in spring to actively growing foliage
*Golden bamboo	Phyllostachys aurea	3 to 4 pints/A applied to foliage when plant is actively growing; before setting seedhead. More foliage will result in greater herbicide uptake, resulting in greater root kill.
Junglerice	Echinochloa colonum	3 to 4 pints/A applied to actively growing foliage
Knapweed .	Centaurea spp.	Russian knapweed: 2 to 3 pints/A + 1 quart/A MSO fall-applied after senescence begins
Knotweed, Japanese	Polygonum cuspidatum Fallopia japonica	3 to 4 pints/A applied postemergence to actively growing foliage

^{*} Use not permitted in California unless otherwise directed by supplemental labeling.

(continued)

Aquatic Weeds Co	ntrolled (continued)	
Common Name	Scientific Name	Use Rates and Application Directions
Terrestrial/Marginal W	leeds (continued)	
Melaleuca Paperbark tree	Melaleuca quinquenervia	 Established stands - Apply 6 pints/A Arsenath herbicide + 6 pints/A glyphosate + spray adjuvant. For best results, use 4 quarts/A MSO as an adjuvant. Ground foliar application - Uniformly apply to ensure 100% coverage. Broadcast foliar controt - Apply aerially in a minimum of 2 passes at 10 gallons/A applied cross treatment. Spot treatment - Use a 25% Arsenat + 25% solution of glyphosate + 1.25% MSO in water applied as a fall or stump treatment.
*Nutgrass Kiif'p'opu	Cyperus rotundus	2 pints/A Arsenal + 1 quart/A MSO applied early postemergence
*Nutsedge	Cyperus spp.	2 to 3 pints/A postemergence to foliage or preemergence incorporated; nonincorporated preemergence applications will not control.
Phragmites Common reed	Phragmites australis	4 to 6 pints/A applied to actively growing green foliage after full leaf elongation. Ensure 100% coverage. If stand has a substantial amount of old stem tissue, mow or burn; allow to regrow to approximately 5 feet tall before treatment. Lower rates will control phragmites in the North; higher rates are needed in the South.
*Poison hemlock	Conium maculatum	2 pints/A Arsenal + 1 quart/A MSO applied preemergence to early postemergence to rosette before flowering
Purple loosestrife	Lythrum salicaria	1 pint/A applied to actively growing foliage
Reed canarygrass	Phalaris arundinacea	3 to 4 pints/A applied to actively growing foliage
Rose, swamp	Rosa palustris	2 to 3 pints/A applied to actively growing foliage
Russian olive	Elaeagnus angustifolia	2 to 4 pints/A (1% solution) applied to foliage
Saltoedar Tamarisk	Tamarix spp.	Aerial application - 2 quarts Arsenal + 0.25% v/v NtS applied to actively growing foliage during flowering. Spot treatment - Use 1% solution of Arsenal + 0.25% v/v NtS and spray to wet foliage. After application, wait at least 2 years before disturbing treated saltcedar. Earlier disturbance can reduce overall control.
Smartweed	Polygonum spp.	2 pints/A applied early postemergence
Sumac	Rhus spp.	2 to 3 pints/A applied to foliage
Swamp morningglory Kangkong Water spinach	lpomoea aqualica	1 to 2 pints/A Arsenal + 1 quart/A MSO applied early postemergence
Torpedo grass	Panicum repens	4 pints/A (1.0 to 1.5% solution). Ensure good coverage to actively growing foliage.
*White top Hoary cress	Cardaria draba	1 to 2 pints/A applied in spring to foliage during flowering
Wiliow	Salix spp.	2 to 3 pints/A Arsenal applied to actively growing foliage. Ensure good coverage.

^{*} Use not permitted in California unless otherwise directed by supplemental labeling.

Terrestrial Weed Control

In terrestrial sites, **Arsenal® herbicide** will provide preemergence or postemergence control with residual control of the following target vegetation species at the rates listed. Residual control refers to control of newly germinating seedlings in both annuals and perennials. In general, annual weeds may be controlled by preemergence or postemergence applications of **Arsenal**. For established biennials and perennials, postemergence applications of **Arsenal** will provide the best control.

The rates shown below refer to broadcast applications and indicate the relative sensitivity of these weeds. The relative sensitivity should be referenced when preparing low-volume spray solutions (see Low-volume Foliar Application section of Ground Application); low-volume applications may provide control of the target species with less Arsenal per acre than is shown for the broadcast treatments. Use Arsenal only in accordance with the specific use directions on this label and the leaflet label.

Use the relative sensitivity of the species listed following to determine the relative risk of nontarget plant injury if any of the species listed following are considered to be desirable within the area to be treated.

Resistant Biotypes. Naturally occurring biotypes (a plant within a given species that has a slightly different but distinct genetic makeup from other plants of the same species) of some weeds listed on this label may not be effectively controlled. If naturally occurring resistant biotypes are present in an area, tank mix **Arsena!** or apply sequentially with an appropriate registered herbicide having a different mode of action to ensure control.

Terrestrial Weeds Controlled

Common Name	Scientific Name	Growth Habit ²	
Grass Weeds			
Apply 2 to 3 pts/A1			
Annual bluegrass	Poa annua	A	
Broadleaf signafgrass	Brachiaria platyphylla	A	
Canada bluegrass	Poa compressa	Р	
Downy brome	Bromus tectorum	Α	
Fescue	Festuca spp.	٨/P	
Foxtail	Setaria spp.	Α	
Italian ryegrass	Lolium multiflorum	Α	
Johnsongrass ⁴	Sorghum halepense	P	
Kentucky bluegrass	Poa pratensis	P	
Napier grass ⁵	Pennisetum purpureum	P	
Orchardgrass	Dactylis glomerata	P	
Paragrass	Brachiaria mutica	P	
Quackorass	Aaropyron repens	P	

(cantinued)

Terrestrial Weeds Controlled (continued)

Growth

Common Name	Scientific Name	Habit
Grass Weeds (contin	ued)	
Apply	2 to 3 pts/At (continued)	
Sandbur	Cenchrus spp.	A
Smooth brome	Bromus inermis	P
Vaseygrass	Paspalum urvillei	P
Wild oats	Avena fatua	Α
Witchgrass	Panicum capillare	Α
A	pply 3 to 4 pts/A	
Barnyardgrass	Echinochloa crus-galli	Ä
Beardgrass	Andropogan spp.	<u>А</u> Р
Bluegrass, annual	Poa annua	Α
Bulrush ^s	Scirpus validus	P
Cheat	Bromus secalinus	A
Cogongrass	Imperata cylindrica	P
Crabgrass	Digitaria spp.	Α
Crowfootgrass	Dactyloctenium aegyptium	Α
Fall panicum	Panicum dichotomiflorum	Α
Goosegrass	Eleusine indica	Α
Itchgrass	Rottboellia exaltata	Α
Lovegrass*	Eragrostis spp.	Р
Maidencanes	Panicum hemitomon	Α
Panicum, browntop	Panicum fasciculatum	Α
Panicum, Texas	Panicum texanum	Λ
Prairle threeawn	Aristida oligantha	Р
Sandbur, field	Cenchrus incertus	Α
Signalgrass	Brachiaria platyphylla	Α
Wild barley	Hordeum spp.	Α
Woolly cupgrass	Eriochioa villosa	Α
A	pply 4 to 6 pts/A1	
Bahiagrass	Paspalum notatum	Р
Bermudagrass ^{3,4}	Cynodon dactylon	Р
Big bluestem	Andropogon gerardii	P
Dallisgrass	Paspalum dilatetum	P
Feathertop	Pennisetum villosum	P
Guineagrass	Panicum maximum	₽
Saltgrass ³	Distichlis stricta	₽
Sand dropseed	Sporobolus cryptandrus	₽
Sprangletop	Leptochloa spp.	Α
Timothy	Phleum pratense	P
Wirestern muhly	Muhlenbergia frondosa	₽
	svy or well-established Infestations od I, B = Biennial, P = Perennial	Cur.

² Growth Habit: A = Annual, B = Biennial, P = Perennial

^{ੂੰ} Use a minimum of 75 GPA.

^{*} Use higher labeled rates.

Use not permitted in Ceilfornia miless otherwise directed by supplemental labeling.

Terrestrial Weeds Controlled (continued)			
Common Name	Scientific Name	Growth Habit ²	
Broadleaf Weeds			
Ap	ply 2 to 3 pts/A¹		
Burdock	Arctium spp.	В	
Carolina geranium	Geranium carolinianum	Ä	
Carpetweed	Mollugo verticillata	A	
Clover	Trifolium spp.	A/P	
Common chickweed	Stellaria media	A	
Common ragweed	Ambrosia artemisiifolia	Α	
Dandelion	Taraxacum officinale	Р	
Doglennel	Eupatorium capillifolium	Α	
Filaree	Erodium spp.	Α	
Fleabane	Erigeran spp.	Α	
Hoary vervain	Verbena stricta	Р	
Indian mustard	Brassica Juncea	Α	
Kochia	Kochia scoparia	Α	
Lambsquarters	Chenopodium album	Α	
Lespedeza³	Lespedeza spp.	Р	
Miner's lettuce	Montia perfoliata	Α	
Mullein	Verbascum spp.	В	
Nettleleaf goosefoot	Chenopodium murale	Α	
Oxeye daisy	Chrysanthemum		
	leucanthemum	P	
Pepperweed	Lepidium spp.	A	
Pigweed	Amaranthus spp.	A	
Puncturevine	Tribulus terrestris	Α	
Russian thistle	Salsola kali	Α	
Smartweed	Polygonum spp.	A/P	
Sorrell	Rumex spp.	P	
Sunflower	Helianthus spp.	Α	
Sweet clover	Melilotus spp.	A/B	
Tansymustard	Descurainia pinnata	А	
Western ragweed	Ambrosia psilostachya	Ρ	
Wild carrot	Daucus carota	В	
Witd lettuce	Lactuca spp.	A/B	
Wild parsnip	Pastinaca sativa	В	
Wild turnip	Brassica campestris	В	
Woolfyleaf bursage	Franseria tomentosa	Р	
Yellow woodsorrel	Oxalis stricta	Р	

Terrestrial Weeds (Controlled	(continued)
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Growth

Common Name	Scientific Name	Habit²	
Broadleaf Weeds (cor	ntinued)		
Apply 3 to 4 pts/A1			
Broom snakeweed*	Gutiorrezia sarothrae	Þ	
Bull thistle	Cirsium vulgare	В	
Burclover	Medicago spp.	Α	
Chickweed, mouseear	Cerastium vulgatum	Α	
Clover, hop	Trifolium procumbens	Α	
Cocklebur	Xanthium strumarium	Α	
Cudweed	Gnaphalium spp.	Α	
Desert camelthorn	Alhagi pseudalhagi	P	
Dock	<i>Rume</i> х spp.	P	
Fiddleneck	Amsinckia intermedia	Α	
Goldenrod	Solidago spp.	P	
Henbit	Lamium amplexicaule	Α	
Knotweed, prostrate	Polygonum aviculare	A/P	
Pokeweed	Phytolacca americana	Р	
Purslane	Portulaça spp.	Α	
Pusley, Florida	Richardia scabra	Α	
Rocket, London	Sisymbrium irio	Α	
Rush skeletonweed*	Chondrilla juncea	В	
Saltbush	Atriplex spp.	Α	
Shepherdspurse	Capsella bursa-pastoris	Α	
Spurge, аплиаl	Euphorbia spp.	Α	
Stinging nettle*	Urtica dioica	P	
Velvetleaf	Abutilon theophrasti	Α	
Yellow starthistle	Centaurea solstitialis	Α	
App	ply 4 to 6 pts/A¹		
Arrowwood	Pluchea sericea	A	
Canada thistle	Cirsium arvense	P	
Giant ragweed	Ambrosia trifida	Α	
Gray rabbitbrush	Chrysothamnus nauseosus	Р	
Little mallow	Malva parviflora	В	
Milkweed	Asclepías spp.	₽	
Primrose	Oenothera kunthiana	₽	
Silverleaf nightshade	Solanum elaeagnifolium	₽	
Sowthistie	Sonchus spp.	Α	
Texas thistle	Cirsium texanum	₽	

⁽continued)

^{*}Use higher rate where heavy or well-established infestations occur.

* Growth Habit: A = Annual, B = Stenrial, P = Perennial

* Use not permitted in California unless otherwise directed by supplemental lebaling.

¹ For best results, early posternergence applications are required.

Terrestrial Weeds Controlled (continued)

Common Name	Scientific Name	Growth Habit²
Vines and Bramble	5	ingan ka
	Apply 1 pt/A	
Field bindweed	Convolvulus arvensis	p
Hedge bindweed	Calystegia sepium	. A.
A	pply 2 to 3 pts/A¹	
Wild buckwheat	Polygonum convolvulus	P
A	pply 3 to 4 pts/A¹	
Greenbriar	Smilax spp.	Р
Honeysuckle ³	Lonicera spp.	P
Morningglory	lpomoea spp.	A/P
Polson ivy	Rhus radicans	P
Redvine	Brunnichia cirrhosa	P
Wild rose ³	Rosa spp.	FP -
Including:		
Multiflora rose	Rosa multiflora	Р
Macartney rose	Rosa bracteata	<u>P</u>
A	pply 4 to 6 pts/A'	
Trumpetcreeper	Campsis radicans	P
Virginia creeper	Parthenocissus quinquefoli	a P

¹ Use higher rate where heavy or well-established infestations occur.

Vitis spp.

Wild grape

Common Name	Scientific Name	Growth Habit ²
Brush Species		
Ар	pply 2 to 4 pts/A'	
Brazilian peppertree	Schinus terebinthifolius	þ
Chinese tallow tree Popcorn tree	Sapium sebiferum	P
Russian olive	Elaeagnus angustifolia	₽
Sumac	Rhus spp.	₽
Wiltow	Salix spp.	P
Ар	ply 4 to 6 pts/A¹	
Alder	Alnus spp.	P
American beech	Fagus grandifolia	₽
Ash³	Fraxinus spp.	₽
Aspen	Populus spp.	₽
Autumn olive	Elaeagnus umbeliata	"
Bald cypress	Taxodium distichum	- q
Bigleaf maple	Acer macrophyllum	4
Birch ³	Betula spp.	P
Black gum'	Nyssa sylvatica	₽
Black oak	Quercus kelloggii	P
Boxelder	Acer negundo	P
Ceanothis	Ceanothis spp.	P
Cherry ^{a. c}	Prunus spp.	Р

(continued)

Terrestrial Weeds Controlled (continued)

Common Name	Scłentific Name	Growth Habit
Brush Species (con	tinued)	
	Apply 4 to 6 pts/A'	
Chinaberry	Melia azedarach	P
Chinquapin	Castanopsis chrysophylla	Р
Cottonwood	Populus trichocarpa	•
	P. deltaides	. Þ
Cypress	Taxodium spp.	P
Degwood ^a	Comus spp.	Þ
Elm ⁵	Ulmus spp.	Р
Eucalyptus	Eucalyotus spp.	P
Hawthorn	Crataegus spp.	Р
Hickory ³	Carya spp.	P
Huckleberry	Gaylussacia spp.	P
Lyonia spp.		
including:		
Fetterbush	Lyonia lucida	
Staggerbush	Lyonia mariana	P
Madrone	Arbutus menziesii	₽
Maple	Acer spp.	₽
Metaleuca	Melaleuca quinquenervia	₽
Mulberry ^{s.6}	Morus spp.	Ь
Oak ⁷	Quercus spp.	Р
Persimπion⁴	Diospyros virginiana	₽
Poison oak	Rhus diversiloba	P
Poplar	Populus spp.	P
Privet	Ligustrum vulgare	Р
Red alder	Alnus rubra	Р
Red maple	Acer rubrum	Р
Saltcedar	Tamarix pentandra	P
Sassatras	Sassafras albidum	P
Sourwood4	Oxydendrum arboreum	Р
Sweetgum	Liquidəmbar styraciflua	P
Sycamore	Platanus occidentalis	P
Tanoak [®]	Lithocarpus densiflorus	Р
 Titī ^s	Cyrilla racemiflora	Р
Tree of heaven	Ailanthus altissima	P
Vaccinium spp.		
including:		
Blueberry	Vaccinium spp.	
Sparkleberry	Vaccinium arboreum	Р
Water willow ^a	Justicia americana	Р
Yellow poplar ^a	Liriodendron tulipifera	ä
1 Use higher rate where he	eavy or well-established infestations o	ccur.

^{*} Use higher rate where heavy or well-established infestations occur.

² Growth Habit: A :: Annual, É :: Biennial, ঐ × Perennial

² Use higher labeled rates.

^{&#}x27; Growth Habit: A = Annual, S = Blonnial, P = Perannial

² Use higher labeled rates.

Best control with applications before formation of fall leaf color

^{*} Tenk mix with glyphosate

^{*} Degree of control may be species dependent.

For water pak (Querous nigre), faurel pak (Q. laurifloria), vállow pak (Q. phellos), and live pak (Q. virginiana), use higher fabeled rates.

Suppression only

^{*} Use not permitted in California unless otherwise directed by supplemental labeling.

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The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASE CORPORATION ("BASE") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

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