
FUSILADE DX HERBICIDE IS RECOMMENDED ON THE FOLLOWING NONBEARING CROPS

Acerola	Lemons
(West Indian Cherry)*	Limes
Almonds	Macadamia
Apples	Mango*
Asparagus	Olives
Avocados	Oranges
Berries	Pears
Conifers*	Pineapple
Christmas tree plantings	Pistachios
Nursery beds	Pomegranates
Seedling establishment	Tangelos
	Tangerines
	Walnuts
Dates	
Figs	
Filberts	
Florigraze perennial peanuts*	
(Nursery stock only)	
Ginseng*	
Grapes	
Grapefruit	
Guava*	
Jojoba	
Kiwi*	

*Not applicable in California.

NONFOOD USES - FALLOW LAND AND NONCROP AREAS

FUSILADE DX herbicide can be used to control annual and perennial grass weeds in fallow land and noncrop areas. Noncrop areas include airports, electric transformer stations and sub-stations, pipeline pumping stations, around buildings, storage yards, fence lines, parkways, roadsides, rights-of-way, and other noncropland areas. See the following tables for specific recommended uses.

NON-AGRICULTURAL USE REQUIREMENTS

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not treat areas while unprotected humans or domestic animals are present in the treatment areas. Do not allow entry into treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Warnings must include the following information:

CAUTION: Area treated with FUSILADE® DX herbicide on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure to pesticide spray, wash the skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse. If in eyes, flush with plenty of water. If irritation persists, get medical attention.

GENERAL USE PRECAUTIONS - FALLOW LAND AND NONCROP AREAS

Not for use or storage in or around the home.

- Apply FUSILADE DX herbicide to actively growing grasses before they exceed the recommended growth stages in the following Tables.
- Spray to obtain thorough coverage of grass foliage, but not to runoff. Repeat treatments may be necessary to provide full season control.
- Use standard pesticide hollow cone or flat fan nozzles.
- Apply FUSILADE DX herbicide when the first grass species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Do not apply FUSILADE DX herbicide to grasses which are stressed due to moisture, temperature, low soil fertility, mechanical or chemical injury.
- Do not apply to grasses which have tillered, formed seed heads, or exceeded recommended growth stages.

- When treating nonbearing trees and vines, avoid contact of spray with foliage by using directed sprays.

NONFOOD USES - FALLOW LAND AND NONCROP AREAS

Apply 16-24 oz. per acre of FUSILADE DX herbicide along with 1% crop oil concentrate (2 pints per 25 gallons) or 0.25% (1/2 pint per 25 gallons) of a nonionic surfactant to annual and perennial grasses at the recommended growth stages in the following tables.

FUSILADE DX HERBICIDE ANNUAL GRASS CONTROL GROWTH STAGES FOR FALLOW LAND

Annual Grass Species

Make applications when grasses are 2-8 inches tall, but before tillering and/or heading.

Barnyardgrass	Prairie cupgrass
Broadleaf signalgrass	Red Rice
Crabgrass, large	Shattercane/Wildcane/Volunteer milo
Crabgrass, smooth	Sorghum alnum
Crabgrass, southern	Southern sandbur
Crabgrass, tropical	Southwestern cupgrass
Fall panicum	Texas panicum
Field sandbur	Volunteer barley
Foxtail, giant	Volunteer corn
Foxtail, green	Volunteer oats
Foxtail, yellow	Volunteer rye
Goosegrass	Volunteer wheat
Guineagrass, seedling	Wild Oats
Itchgrass	Wild proso millet
Italian ryegrass	Witchgrass
Johnsongrass, seedling	Woolly cupgrass
Junglerice	

FUSILADE DX HERBICIDE PERENNIAL GRASS CONTROL GROWTH STAGES FOR FALLOW LAND

Perennial Grass Species	Growth Stage
Bermudagrass	4-8" runners
Guineagrass	6-12" tall before seedhead initiation
Kikuyugrass*	4-8" runners
Quackgrass	6-10"
Rhizome johnsongrass	8-18" tall and before boot stage
Torpedograss**	3-6" tall (1st application) 2-3" tall (subsequent application)
Wirestem muhly	4-12" tall and before seedhead initiation

*Not Registered in California for use on this species.

**Use 24 fl. oz. per acre per application. Three applications may be needed.

CONVERSION TABLE FUSILADE DX HERBICIDE RATE TO BE APPLIED			
Lb. a.i./Acre	Pints/Acre	Fl. Oz./Acre	Acres/Gallon
0.094	3/8	6	21.3
0.125	1/2	8	16
0.156	5/8	10	12.8
0.188	3/4	12	10.7
0.250	1	16	8
0.375	1-1/2	24	5.3

For more information, call ZENECA Ag Products at 1-800-759-2500.

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AMBUSH, CYMBUSH, and GRAMOXONE EXTRA are restricted use pesticides.

APPENDIX


Scientific names are listed for those weeds referred to in the FUSILADE DX herbicide label.

COMMON NAME	SCIENTIFIC NAME
Barnyardgrass	Echinochloa crus-galli
Bermudagrass	Cynodon dactylon
Broadleaf signalgrass	Brachiaria platyphylla
Crabgrass, Large	Digitaria sanguinalis
Crabgrass, Smooth	Digitaria ischaemum
Crabgrass, Southern	Digitaria ciliaris
Crabgrass, Tropical	Digitaria bicomis
Downy brome	Bromus tectorum
Fall Panicum	Panicum dichotomiflorum
Field Sandbur	Cenchrus incertus
Foxtail, Giant	Setaria faberi
Foxtail, Green	Setaria viridis
Foxtail, Yellow	Setaria lutescens
Goosegrass	Eleusine indica
Guineagrass, seedling	Panicum maximum
Italian Ryegrass	Lolium multiflorum
Itchgrass	Rottboellia exaltata
Johnsongrass, Rhizome	Sorghum halepense
Johnsongrass, Seedling	Sorghum halepense
Junglerice	Echinochloa colonum
Kikuyugrass	Rennisetum clandestinum
Prairie cupgrass	Eriochloa contracta
Quackgrass	Agropyron repens
Rabbitfootgrass	Polypogon monspeliensis
Red Rice	Oryza sativa
Shattercane	Sorghum bicolor
Sorghum alnum	Sorghum alnum
Southern Sandbur	Cenchrus echinatus
Southwestern cupgrass	Eriochloa gracilis
Texas Panicum	Panicum texanum
Volunteer Cereals	
V. Barley	Hordeum vulgare
V. Corn	Zea mays
V. Milo	Sorghum bicolor
V. Oats	Avena sativa
V. Rye	Secale cereale
V. Wheat	Triticum aestivum
Wild Proso Millet	Panicum miliaceum
Wild Oats	Avena fatua
Wirestem Muhly	Muhlenbergia frondosa
Witchgrass	Panicum capillare
Wooly cupgrass	Eriochloa villosa

PM183

10182-367

1493

	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460	EPA Reg. Number: 10182-367	Date of Issuance: DEC 15 1993
		Term of Issuance: Conditional	
		Name of Pesticide Product: Fusilade DX	
NOTICE OF PESTICIDE: <u> X </u> Registration <u> </u> Reregistration			
(under FIFRA, as amended)			
Name and Address of Registrant (include ZIP Code): Zeneca Ag Products 1800 Concord Pike Wilmington, DE 19897			
Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.			
On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.			
Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.			
This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:			
1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.			
2. Make the following label changes:			
a. Revise the EPA Registration Number to read, "EPA Reg. No. 10182-367".			
b. Add the following statement under the heading, STATEMENT OF PRACTICAL TREATMENT:			
IF INHALED: Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. Get medical attention.			
3. Submit two copies of the revised final printed label for the record.			
Signature of Approving Official:		Date: DEC 15 1993	

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4. Within six months of the date of registration of this product submit results of two studies, Dermal Sensitization, and Acute Oral Toxicity.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely

Joanne I. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (H7505C)

FUSILADE® DX Herbicide

**Postemergence Herbicide for Control
of Perennial and Annual Grass Weeds**

ACCEPTED
with COMMENTS
in EPA Letter Dated

DEC 15 1993

COMPLETE DIRECTIONS FOR USE

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

10182-367

**CONDITIONS OF SALE
AND LIMITATION OF WARRANTY AND LIABILITY**

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. 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 manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ZENECA and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

BEST AVAILABLE COPY

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ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

Made in U.S.A.
ZENECA Ag Products
ZENECA Inc.
Wilmington, Delaware 19897

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KEEP OUT OF REACH OF CHILDREN

CAUTION

ACTIVE INGREDIENT:

Fluazifop-P-butyl

Butyl (R)-2-[4-[[5-(trifluoromethyl)-2-pyridinyl]oxy]

phenoxy]propanoate* 24.5%

INERT INGREDIENTS 75.5%

TOTAL 100.0%

*FUSILADE DX herbicide contains 2 pounds (+) isomer (fluazifop-P-butyl) per gallon

EPA Reg. No. 10182-

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Immediately flush eyes with plenty of water. Call physician if irritation persists.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (1-800-327-8633).

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

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

HARMFUL IF ABSORBED THROUGH SKIN OR INHALED. CAUSES EYE IRRITATION. MAY CAUSE ALLERGIC SKIN REACTIONS. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist.

PERSONAL PROTECTIVE EQUIPMENT

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

Applicators and handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton.
- Shoes plus socks.

Mixers and Loaders must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton.
- Shoes plus socks.
- Protective eyewear.
- Chemical-resistant apron when mixing or loading.

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

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

User Safety Recommendations

Users should:

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

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from target area.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

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

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protection equipment (PPE). 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 12 hours.

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

- Coveralls.
- Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton.
- Shoes plus socks.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

STORAGE: Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Metal Containers: Triple-rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

Plastic Containers: Triple-rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

Glass Containers: Triple-rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other state and local procedures.

MINI BULK CONTAINER PRECAUTIONS: Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions and damaged or worn thread on closure devices. **REFILL ONLY WITH FUSILADE DX.** The contents of this container cannot be completely removed by cleaning. Refilling with materials other than FUSILADE DX herbicide will result in contamination and may weaken container. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container. **CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

GENERAL INFORMATION

Read all label directions before using.

FUSILADE DX herbicide is a selective postemergence herbicide for control of annual and perennial grass weeds in apricots, asparagus (restricted to Delaware, Maryland, New Jersey, New York, North Carolina, Oregon, Virginia and Washington), carrots, cherries, coffee (restricted to Hawaii), cotton, endive, garlic, nectarines, onions (dry bulb), peaches, pecans, plums, prunes, rhubarb (restricted to Maryland and New Jersey), soybeans, sweet potatoes and yams, Tabasco peppers (restricted to Louisiana). FUSILADE DX herbicide can also be used on fallow land, on noncrop areas, and on nonbearing crops. FUSILADE DX herbicide will provide effective control of grass weeds in conventional tillage, minimum tillage, and no-till plantings. FUSILADE DX herbicide does not control broadleaf weeds or sedges (nutgrass).

FUSILADE DX herbicide is a systemic herbicide which moves from the treated foliage into the shoots, roots, rhizomes, stolons, and growing points (meristematic regions) of treated grass weeds.

FUSILADE DX herbicide is rainfast in one hour.

Control Symptoms: Thorough coverage of all weed plant foliage is important for good activity. Optimum weed control is achieved when young actively growing weeds are treated that are not under stress from moisture, temperature, low soil fertility, mechanical, or chemical injury.

Growth of treated grass weeds stops soon after application. Symptoms include loss of vigor, yellowing and/or reddening, and eventual death to the treated grass plant. Symptoms are generally observed within one week after treatment, depending on grass weed species and environmental conditions.

Information on Weed Resistance

Naturally occurring biotypes of certain grass species with resistance to this herbicide and related products (same mode of action) are known to exist. Selection of resistant biotypes, through repeated use of these herbicides, may result in control failures.

If poor performance cannot be attributed to adverse weather conditions or improper application methods, a resistant biotype may be present. In such a case additional treatments with this herbicide or related products is not recommended. Consult your local company representative or agricultural advisor for assistance.

APPLICATION DIRECTIONS

TIMING - Best control of susceptible grasses is obtained when FUSILADE DX herbicide is applied to actively growing grasses before they exceed the recommended growth stages shown on this label. Refer to the grass weed table for specific recommendations on weed growth stages.

SPRAY ADDITIVES - Only crop oil concentrate and nonionic surfactants cleared for use on growing crops under 40 CFR 180.1001 may be used in spray mixture.

Always add one of the following:

- **Crop Oil Concentrate** - Add a non-phytotoxic crop oil concentrate or a once-refined vegetable oil concentrate containing 15-20% approved emulsifier, at 0.5-1% v/v (1-2 pints per 25 gallons) of the finished spray volume. For aerial applications, add 1 pint of crop oil concentrate per acre.
- **Nonionic Surfactant** - Add nonionic surfactant containing at least 75% surface-active agent, at 0.25-0.5% v/v (1/2-1 pint per 25 gallons) of the finished spray volume for ground sprays. For aerial application, add 1 pint of surfactant per acre.

In addition to crop oil concentrate or nonionic surfactant, liquid nitrogen fertilizer (28% or similar) can be added to the spray mixture in soybeans only. This 28% liquid nitrogen fertilizer is water soluble and should be used at a rate of one gallon per acre. Liquid nitrogen fertilizers should not be used as a substitute for crop oil concentrate or nonionic surfactant in the spray mixture.

Diammonium phosphate (aqueous ammonium polyphosphate) commonly sold as a solution (10-34-0) can be added to the spray mixture. This water soluble material should be used at a rate of 2 pts. per acre. Diammonium phosphate should not be used as a substitute for crop oil concentrate nor nonionic surfactant in the spray mixture.

GROUND APPLICATION - Use sufficient spray volume and pressure to ensure complete coverage of the target grasses. Apply in 5-40 gallons per acre of spray mixture with spray pressures of 40-60 psi at the nozzle tip. When grass foliage is dense, use 60 psi and a minimum of 20 gallons per acre to ensure coverage of weed foliage. Do not exceed the maximum application rates for FUSILADE DX herbicide.

DO NOT USE FLOOD TYPE OR OTHER SPRAY NOZZLE TIPS WHICH DELIVER COARSE, LARGE DROPLET SPRAYS.

DO NOT APPLY FUSILADE DX HERBICIDE WITH RECIRCULATING SPRAYERS, ROPE-WICK APPLICATORS, CONTROLLED DROPLET APPLICATORS (CDA) OR ANY SIMILAR DEVICES.

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

BAND APPLICATIONS - Thorough weed coverage is important for control. Best coverage is obtained with a minimum of two nozzles, one directed to each side of the planted row. Application with a single nozzle directed over the top of the row is not recommended. Cultivation of untreated areas may be needed following band applications.

When making band applications and cultivating in the same operation, position nozzles in advance of the cultivation device. This will reduce dust in the spray area. Dust can intercept the spray, reducing weed coverage, resulting in less than adequate weed control.

Calculate the amount of herbicide and water volume needed for band treatment by the following formulas:

$$\frac{\text{Band width in inches}}{\text{row width in inches}} \times \text{broadcast rate} = \text{Band herbicide rate}$$

per acre per acre

$$\frac{\text{Band width in inches}}{\text{row width in inches}} \times \text{broadcast volume} = \text{Band water volume}$$

per acre per acre

Band applications to perennial grasses are not recommended as reinfestation of the treated band from the untreated middle may result.

AERIAL APPLICATION - Use sufficient spray volume to ensure complete coverage of target grasses. A minimum of 5 gallons per acre should be applied. When grass foliage is dense, use a minimum of 10 gallons per acre to ensure coverage of weed foliage. Add one pint/A of crop oil concentrate or nonionic surfactant in the spray mixture.

CULTIVATION - Cultivation of treated grasses is not recommended within 7 days prior to or within 7 days after application of FUSILADE DX herbicide as weeds may be put under stress reducing weed control. Timely cultivation 2-3 weeks after applying FUSILADE DX herbicide may assist weed control.

SPOT TREATMENTS - Mix FUSILADE DX herbicide and crop oil concentrate or nonionic surfactant with water according to the amounts shown below. Spray to obtain thorough coverage, but do not spray to runoff. Retreat if necessary.

SPOT SPRAY RECOMMENDATIONS

To Make This Spray Volume	Add These Amounts			
	FUS'LADE DX	Crop/Vegetable Oil Concentrate	or	Nonionic Surfactant
1 gallon	0.75 fl. oz.	1-1/2 fl. oz.	or	1/2 fl. oz.
10 gallons	6.5 fl. oz.	13 fl. oz.		3 fl. oz.
25 gallons	0.5 quart	1 quart		1/2 pint
50 gallons	1.0 quarts	2 quarts		1 pint

SPECIAL INSTRUCTIONS FOR USE IN COFFEE

Apply FUSILADE DX herbicide as a postemergence ground application. Apply with sufficient spray volume to ensure complete coverage of the target grasses. Applications can be made as a broadcast, strip band, or spot spray application.

Apply 16 ounces per acre of FUSILADE DX herbicide along with 1% crop oil concentrate (2 pints per 25 gallons) or 0.25% (1/2 pint per 25 gallons) of a nonionic surfactant to annual and perennial grasses at the recommended growth stages in the weed tables.

SPECIAL INSTRUCTIONS FOR USE IN APRICOTS, CHERRIES, NECTARINES, PEACHES, PECANS, PLUMS AND PRUNES

Apply FUSILADE DX herbicide as a directed postemergence application in the interspaces and around the base of the trees while avoiding contact of spray with foliage of trees. Apply with sufficient spray volume and pressure to ensure complete coverage of target grasses. Applications can be made as a broadcast, strip band, or spot spray application at rates and growth stages listed in the weed tables. Do not apply when harvestable fruit or nuts are on the ground.

DO NOT GRAZE ANIMALS IN TREATED AREAS.

REFER TO THE GRASS WEED TABLES FOR SPECIFIC RECOMMENDATIONS ON WEED GROWTH STAGES.

GENERAL USE PRECAUTIONS

- Apply to actively growing grasses. Do not apply to grasses which are stressed due to moisture, temperature, low soil fertility, mechanical or chemical injury.
- Apply at the recommended rate to grasses at the recommended growth stages as outlined. Do not apply to grasses which have tillered, formed seed heads, or exceeded recommended growth stages.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment. Use the highest recommended rate for grasses in that group.
- Where irrigation is used as part of normal cropping practice, best results are usually obtained when FUSILADE DX herbicide is applied within 7 days after irrigation.
- Best perennial grass control can be obtained if rhizomes or stolons are cut up by preplant tillage practices (discing, plowing, etc.) to stimulate maximum emergence of grass shoots.
- Do not plant rotational grass crops such as corn, sorghum, and cereals within 60 days of last application of FUSILADE DX herbicide.
- Avoid drift to all other crops and nontarget areas. Grass crops are highly susceptible to FUSILADE DX herbicide.
- Do not tankmix FUSILADE DX herbicide with other pesticides, liquid fertilizers or any other additives except as specified on this label or other supplemental labeling. Use of liquid nitrogen fertilizer (28% or similar) as recommended on this label is for use in soybeans only.
- Sequential applications of other herbicides except as specified on this label or on supplemental labeling within five days before or after FUSILADE DX herbicide application may result in crop injury and/or reduced grass control.
- Thoroughly clean spray tank with water and a commercial tank cleaner before and after each use.
- Do not apply FUSILADE DX herbicide if rainfall is expected within 1 hour.

APRICOTS, CHERRIES, NECTARINES, PEACHES, PLUMS, AND PRUNES

- Do not apply a total of more than 72 fl. oz. of FUSILADE DX herbicide per acre per season.
- Do not harvest within 14 days of application.
- Do not graze animals in treated areas.

ASPARAGUS

New Jersey, Maryland, Oregon and Washington only:

- Do not apply a total of more than 48 oz. of FUSILADE DX herbicide per acre per season to bearing asparagus.
- Do not harvest asparagus within one day of application.

Delaware, North Carolina, New York and Virginia only:

- Do not apply a total of more than 48 oz. of FUSILADE DX herbicide per acre per season to bearing asparagus.
- Do not harvest asparagus within 7 months of last application.
- Sprays must be applied after last harvest.

CARROTS (including seed carrots), DRY BULB ONIONS AND GARLIC

- Do not apply a total of more than 48 oz. of FUSILADE DX herbicide per acre per season to carrots, dry bulb onions or garlic.
Do not harvest carrots, dry bulb onions or garlic within 45 days after application.

COFFEE (HAWAII ONLY)

- Do not apply a total of more than 48 fl. oz. of FUSILADE DX herbicide per acre per season to coffee.
- Do not harvest coffee within 1 day of application.

COTTON

- Do not apply a total of more than 48 oz. of FUSILADE DX herbicide per acre per season to cotton.
- Do not apply to cotton after boll set.
- Do not harvest cotton within 90 days of FUSILADE DX application.
- Do not graze or harvest for forage or hay.

ENDIVE

- Do not apply a total of more than 48 oz. of FUSILADE DX herbicide per acre per season to endive.
- Do not harvest endive within 28 days of application.

PECANS

- Do not apply a total of more than 72 fl. oz. of FUSILADE DX herbicide per acre per season.
- Do not harvest within 30 days of application.
- Do not graze animals in treated areas.

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RHUBARB (Maryland and New Jersey only)

- Do not apply a total of more than 36 oz. of FUSILADE DX herbicide per acre per season to rhubarb.
- Do not harvest rhubarb within 14 days of the spring application.

SOYBEANS

- Do not apply a total of more than 32 oz. of FUSILADE DX herbicide per acre per season to soybeans.
- Make the last FUSILADE DX herbicide application to soybeans before bloom.
- Do not graze or harvest for forage or hay.

SWEET POTATOES AND YAMS

- Do not apply a total of more than 48 oz. of FUSILADE DX herbicide per acre per season to sweet potatoes and yams.
- Do not harvest within 55 days of application.

TABASCO PEPPERS (Louisiana Only)

- Do not apply a total of more than 48 oz. of FUSILADE DX herbicide per acre per season to Tabasco peppers.
- Do not harvest Tabasco peppers within 45 days of application.

**ANNUAL AND PERENNIAL GRASS WEED CONTROL FOR
COTTON, SOYBEANS, AND OTHER REGISTERED CROPS**

Regional Use Map

Region A

Region B

Region A - Includes the following states or portions of states where FUSILADE DX herbicide can be applied at recommended rates.

Alabama, Alaska, Arkansas, California (Northern; see regional map), Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada (Northern; see regional map), New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma (east of Interstate 35), Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas (east of Interstate 35), Utah (Northern; see regional map), Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming.

Region B - Includes the following states or portions of states where FUSILADE DX herbicide can be applied at recommended rates.

Arizona, California (Southern; see regional map), Colorado, Hawaii, Oklahoma (west of Interstate 35), Nevada (Southern; see regional map), New Mexico, Utah (Southern; see regional map), and Texas (west of Interstate 35).

COTTON, SOYBEANS, AND OTHER REGISTERED CROPS (EXCEPT COFFEE) FUSILADE DX HERBICIDE ANNUAL GRASS CONTROL USE RATE TABLE				
REGION A				
Annual Grass Species ¹	Ht. (In.)	No. of Leaves Not to Exceed	Rate(s) fl. oz/A	Special ² Rate(s) fl. oz/A
Barnyardgrass	2-3	3	12	10
Broadleaf signalgrass	2-4	5	12	10
Crabgrass				
Large crabgrass	1-2	4	12	10
Smooth crabgrass	1-2	4	12	10
Southern crabgrass	1-2	4	12	10
Tropical crabgrass	1-2	4	12	10
Downy Brome ²	2-6	4	8	
Fall Panicum	2-6	6	12	10
Field Sandbur	2-4	4	12	10
Foxtails				
Giant foxtail	2-6	4	12	10
Green foxtail	2-4	4	12	10
Yellow foxtail	2-4	4	12	10
Goosegrass	2-4	6	8	
Italian Ryegrass	2-4	4	12	10
Itchgrass	4-24	6	8	
Johnsongrass, seedling	2-8	4	6	
Junglerice	2-3	3	12	10
Red rice	1/2-1	2	16	10 ⁴
Shattercane	6-12	8	6 ⁶	
Sorghum alnum	6-12	8	8	
Southern sandbur	2-6	6	12	10
Texas Panicum	2-8	8	12	10
Volunteer Cereals				
V. Barley	2-6	6	8	
V. Corn	12-24	10	6 ⁶	10 ⁵
V. Milo	6-12	4	6 ⁶	
V. Oats	2-6	6	8	
V. Rye	2-6	6	8	
V. Wheat	2-6	6	8	
Wild Proso Millet	4-8	6	6 ⁶	
Witchgrass	2-4	6	12	10
Wild Oats	2-6	6	8	
Woolly cupgrass	2-4	6	12	10

(Footnotes on following page)

- ¹ Retreatment at the recommended rate may be needed to control later germinating grasses or if regrowth occurs.
- ² Not registered in California for use on this species.
- ³ **USE DIRECTIONS FOR SPECIAL RATE**
Rates of FUSILADE DX herbicide/acre can be reduced to the rates listed for species indicated under the following conditions:
 - Application under favorable soil moisture and humidity conditions, normally within a few days after rainfall or irrigation. Avoid extreme air temperatures.
 - Application at earliest growth stages indicated on rate tables.
 - Application in highly competitive crop stands such as narrow row or drilled soybeans, or where cultivation is planned.
 - Application to light or moderate weed densities.
 - Application with 1% v/v crop oil concentrate only.
 - Application alone, avoiding tank mixes with other pesticides.
- ⁴ Most infestations require two applications at 10 oz. of FUSILADE DX herbicide/acre to achieve satisfactory control.
- ⁵ A second application of 5 fl. oz. per acre may be necessary if infestations of this weed are heavy or to control later germinating plants such as those emerging from buried ears.
- ⁶ Use 6 to 8 fl. oz. per acre when tankmixing with broadleaf herbicides in soybeans. Use the 8 fl. oz. rate when under conditions of low soil moisture or low humidity or when weeds have reached the maximum recommended growth stage.

COTTON, SOYBEANS, AND OTHER REGISTERED CROPS (EXCEPT COFFEE) FUSILADE DX HERBICIDE ANNUAL GRASS CONTROL USE RATE TABLE			
REGION B			
Annual Grass Species ¹	Ht. (In.)	No. of Leaves Not to Exceed	Rate(s) fl. oz/A
Barnyardgrass ²	1-2	3	12
Canarygrass, Littleseed ³	2-4	4	12
Crabgrass, Large ³	1-2	3	12
Crabgrass, Smooth ^{3/4}	1-2	4	12
Johnsongrass, seedling	2-4	3	8
Junglerice ³	2-3	3	12
Panicums			
Fall Panicum ^{3/4}	2-6	6	12
Texas Panicum ^{3/4}	8	8	12
Rabbitfootgrass ³	2-4	4	12
Volunteer Cereals			
V. Barley	2-4	3	12
V. Corn ³	12-18	6	12
V. Milo	2-4	4	12
V. Oats	2-4	3	12
V. Wheat	2-4	3	12
Wild Oats ⁴	2-4	4	12

- ¹ Retreatment at the recommended rate may be needed to control late germinating grasses or if regrowth occurs.
- ² Use 24 oz. in California and Arizona.
- ³ Not labeled for control of this species in Arizona and California.
- ⁴ Recommended for use in Colorado, Oklahoma, and Texas on these species.

COTTON, SOYBEANS, AND OTHER REGISTERED CROPS (EXCEPT COFFEE) FUSILADE DX HERBICIDE PERENNIAL GRASS CONTROL USE RATE TABLE			
REGION A			
Perennial Grass Species	Application	Ht. (In.)	Rate fl. oz/A
Bermudagrass ^{1/6}	1st	4-8 (runner length)	12 oz.
	2nd	4-8	8 oz.
Quackgrass ^{2/6}	1st	6-10 up to 10 in.	12 oz.
	2nd		8 oz.
Rhizome johnsongrass ^{3/6}	1st	8-18	12 oz. ⁴
	2nd	6-12	8 oz.
Wirestem muhly ^{5/6}	1st/2nd	4-12	12 oz.

¹ Make second application to Bermudagrass if regrowth occurs (usually about 4 weeks after first application). Bermudagrass control may be improved by directing the spray beneath the crop canopy. To improve coverage, make applications in a minimum of 15 gallons per acre.

² Make second application 2-3 weeks after the first, but before the quackgrass exceeds 10 inches in height. Always use 1% v/v crop oil concentrate. In no-till soybeans, a preplant application of GRAMOXONE EXTRA herbicide is recommended. Spot treatment is not recommended.

³ Make first application before the boot stage. In eastern Oklahoma, the Brazos Bottoms, the Blacklands, Coastal Bend and Rio Grande areas of eastern Texas, make the first application at 8-12 inches. If new shoots emerge or regrowth occurs, make a second application at 4-6 inches.

⁴ This rate of FUSILADE DX herbicide/acre can be reduced to 8 oz. for control of johnsongrass under the following conditions:

- The directions in (3) above are followed.
- Application under favorable soil moisture and humidity conditions, normally within a few days after rainfall or irrigation. Avoid extreme air temperatures.
- Application in highly competitive crop stands such as narrow row or drilled soybeans, or where cultivation is planned.
- Application to light or moderate weed densities.
- Application with 1% v/v crop oil concentrate only.
- Application alone, avoiding tank-mixes with other pesticides.

⁵ Make second application if regrowth occurs.

⁶ Rates of FUSILADE DX herbicide should be increased to 24 oz. for the first application and 16 oz. for the second application when applied in sodded orchards.

COTTON, SOYBEANS, AND OTHER REGISTERED CROPS (EXCEPT COFFEE) FUSILADE DX HERBICIDE PERENNIAL GRASS CONTROL USE RATE TABLE			
REGION B			
For best results, apply FUSILADE DX 3 days before to 7 days after irrigation.			
Grass Species	Application	Ht. (In.)	Rate fl. oz/A
Bermudagrass ^{1/2}	1st	4-8 (runner length)	16-24
	2nd	4-8	16-24
Rhizome johnsongrass ^{3/4}	1st	12-18	16-24 ⁵
	2nd	12-18	16-24 ⁵

- ¹ Make second application to Bermudagrass if regrowth occurs. (Usually about 4 weeks after first application.) Bermudagrass control may be improved by directing the spray beneath the crop canopy. To improve coverage, make applications in a minimum of 20 gallons per acre. In soybeans, do not apply more than 32 oz. in one season.
- ² In Colorado, Oklahoma (west of Interstate 35), and Texas (west of Interstate 35) under good soil moisture and favorable growing conditions, make applications at reduced rates of 12-16 fl. oz./A.
- ³ Make first application before the boot stage. If new shoots emerge or regrowth occurs, make a second application. (Usually about 4 weeks after the first application.) In soybeans, do not apply more than 32 oz. in one season.
- ⁴ In Colorado, Oklahoma (west of Interstate 35) and Texas (west of Interstate 35) under good soil moisture and favorable growing conditions, make the first application to 8-18 inch johnsongrass at a reduced rate of 12 fl. oz./A. Make the second application to 6-12 inch johnsongrass at a rate of 12 fl. oz./A.
- ⁵ **FOR CALIFORNIA ONLY**, make first application to Johnsongrass at 16 fl. oz/A; and second application at 12-16 fl oz/A.

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**FUSILADE DX HERBICIDE ANNUAL GRASS CONTROL GROWTH STAGES FOR COFFEE
(Hawaii only)**

Annual Grass Species

Make applications when grasses are 2-8 inches tall, but before tillering and/or heading.

Barnyardgrass	Prairie cupgrass
Broadleaf signalgrass	Red Rice
Crabgrass, large	Shattercane/Wildcane/Volunteer milo
Crabgrass, smooth	Sorghum alnum
Crabgrass, southern	Southern sandbur
Crabgrass, tropical	Southwestern cupgrass
Fall panicum	Texas panicum
Field sandbur	Volunteer barley
Foxtail, giant	Volunteer corn
Foxtail, green	Volunteer oats
Foxtail, yellow	Volunteer rye
Goosegrass	Volunteer wheat
Guineagrass, seedling	Wild oats
Itchgrass	Wild proso millet
Italian ryegrass	Witchgrass
Johnsongrass, seedling	Woolly cupgrass
Junglerice	

**FUSILADE DX HERBICIDE PERENNIAL GRASS CONTROL GROWTH STAGES FOR
COFFEE
(Hawaii only)**

Perennial Grass Species	Growth Stage
Bermudagrass	4-8" runners
Kikuyugrass	4-8" runners
Quackgrass	6-10"
Rhizome johnsongrass	8-18" tall and before boot stage
Wirestem muhly	4-12" tall and before seedhead initiation

TANKMIX AND SEQUENTIAL APPLICATIONS FOR SOYBEANS

See Tables 1 and 2 for Tankmix Application Rate Table.

Fill the spray tank with half the amount of required water and add the recommended amounts of FUSILADE DX herbicide, an appropriate broadleaf herbicide, and proper rate of approved adjuvant while the agitator is running, and then add the remaining quantity of water.

NOTE: Tankmix applications sometimes have resulted in reduced grass weed control and possible increases in crop injury as compared to either product used alone. If grass regrowth occurs following an application of the tankmix or an additional flush of grasses emerge, make a second application of FUSILADE DX herbicide to actively growing grass weeds, as per the label recommendations. When perennial grasses are the predominant grass to be controlled, a tankmix is not recommended. Follow the directions for sequential applications of FUSILADE DX herbicide and the appropriate broadleaf herbicide.

USE OF FUSILADE DX HERBICIDE WITH REFLEX 2LC HERBICIDE* - SOYBEANS ONLY

Refer to the REFLEX 2LC herbicide Label Use Map for specific state/county recommendations. Refer to the Application Rate Tables for recommendations by weed species and growth stage.

A maximum of 1½ pints per acre of REFLEX 2LC herbicide may be applied per growing season for soybeans in Region 1. A maximum of 1¼ pints of REFLEX 2LC herbicide per acre may be applied in alternate years in Region 2. A maximum of 1 pint REFLEX 2LC herbicide per acre may be applied in alternate years in Region 3. A maximum of 1½ pints of REFLEX 2LC herbicide may be applied per acre in alternate years in Region 4. (Do not make more than one application per growing season.)

(REFLEX 2LC Regional Use Map)

*REFLEX 2LC herbicide is not registered for use in California, Connecticut or Florida.

FUSILADE DX herbicide and REFLEX 2LC herbicide may be used together in a postemergence program for broad-spectrum weed control in soybeans.

FUSILADE DX herbicide and REFLEX 2LC herbicide may be applied sequentially or in a tankmix. The growth stage of weeds at the time of application will determine which method of application will provide the most satisfactory results.

Both FUSILADE DX herbicide and REFLEX 2LC herbicide should be applied to actively growing weeds. Do not apply either herbicide if weeds appear stressed due to unfavorable temperatures, drought and/or low soil fertility. Do not apply REFLEX 2LC herbicide or FUSILADE DX herbicide tankmix if soybeans show injury from prior herbicide applications.

METHOD 1: Sequential Application - FUSILADE DX Herbicide - Followed by REFLEX 2LC Herbicide

(Annual and/or perennial grass weeds at proper growth stage for treatment, prior to broadleaf weed treatment.)

Apply FUSILADE DX herbicide with an approved adjuvant to annual and/or perennial grass weeds at the recommended rate and growth stage listed in the APPLICATION DIRECTIONS SECTION.

FUSILADE DX herbicide is a systemic herbicide; therefore, when treating annual grasses, allow at least 3 days, and when treating perennial grasses, allow at least 5 days to elapse prior to a REFLEX 2LC application. This will enable FUSILADE DX herbicide to be adequately translocated to the meristematic regions of the plant.

) After the appropriate time interval has elapsed, apply REFLEX 2LC with an approved adjuvant at the recommended rate to susceptible broadleaf weeds as outlined on the REFLEX 2LC label.

METHOD 2: Sequential Application - REFLEX 2LC Herbicide Followed by FUSILADE DX Herbicide

(Broadleaf weeds at proper growth stage for treatments, prior to annual and/or perennial grass weed treatment.)

Apply REFLEX 2LC with an approved adjuvant to susceptible broadleaf weeds at the recommended rate and growth stage.

) A sequential application of FUSILADE DX herbicide may be applied following a REFLEX 2LC application when grasses resume active growth with the development of a new leaf. Follow the recommended rates and growth stages listed in the APPLICATION DIRECTIONS SECTION for the grass weeds being treated.

METHOD 3: Tankmix Applications - FUSILADE DX Herbicide and REFLEX 2LC Herbicide

(Annual grasses and broadleaf weeds are at the proper stage of growth for treatment, as per respective labels.)

A tankmix of FUSILADE DX and REFLEX 2LC herbicides may be applied at the recommended rates and growth stages to susceptible annual grass and broadleaf weed species in a manner consistent with respective labels.

Use a nonionic surfactant or crop oil concentrate in the tankmix. Follow water volume and spray pressure recommendations, as per the REFLEX 2LC label.

SEE SOYBEAN TANKMIX USE PRECAUTIONS SECTION FOR ADDITIONAL INFORMATION.

USE OF FUSILADE DX HERBICIDE WITH BASAGRAN® HERBICIDE - SOYBEANS ONLY

FUSILADE DX herbicide and BASAGRAN herbicide may be used together in a postemergence program for broad-spectrum weed control in soybeans.

FUSILADE DX herbicide and BASAGRAN herbicide may be applied sequentially or in tankmix. The growth stage of weeds at the time of application will determine which method of application will provide the most satisfactory results.

Both FUSILADE DX herbicide and BASAGRAN herbicide should be applied to actively growing weeds. Do not apply BASAGRAN herbicide or FUSILADE DX/BASAGRAN herbicide tankmix if soybeans show injury from prior herbicide applications. Read and observe all applicable label directions and limitations for both FUSILADE DX herbicide and BASAGRAN herbicide before using.

METHOD 1: Sequential Application - FUSILADE DX Herbicide Followed by BASAGRAN Herbicide

(Annual and/or perennial grass weeds at proper growth stage for treatment, prior to broadleaf weed treatment.)

Apply FUSILADE DX herbicide and an approved adjuvant to annual and/or perennial grass weeds at the recommended rates and growth stages listed in the APPLICATION DIRECTIONS SECTION of this label. Following the FUSILADE DX herbicide application, allow at least 24 hours to elapse prior to a BASAGRAN application. This will enable FUSILADE DX herbicide to be adequately translocated to the meristematic regions of the plant. Apply BASAGRAN to susceptible broadleaf weeds according to the BASAGRAN label.

METHOD 2: Sequential Application - BASAGRAN Herbicide Followed by FUSILADE DX Herbicide

(Broadleaf weeds at proper growth stage for treatment, prior to annual and/or perennial grass weed treatment.)

Apply BASAGRAN to susceptible broadleaf weeds at the recommended rate and growth stage according to the BASAGRAN label. A sequential application of FUSILADE DX herbicide may be applied 24 hours after a BASAGRAN application following the recommended rates and growth stages in the APPLICATION DIRECTIONS SECTION of this label for the grass weeds being treated.

METHOD 3: Tankmix Applications - FUSILADE DX Herbicide and BASAGRAN Herbicide

(Annual grasses and broadleaf weeds are at the proper stage of growth for treatment, as per respective labels.)

A tankmix of FUSILADE DX and BASAGRAN herbicides may be applied at the recommended growth stages to susceptible annual grass and broadleaf weed species in a manner consistent with respective labels.

Use only a crop oil concentrate in the tankmix. Follow water volume and spray pressure recommendations, as per the BASAGRAN label. This tankmix can be applied by ground or aerial application.

SEE SOYBEAN TANKMIX USE PRECAUTIONS SECTION FOR ADDITIONAL INFORMATION.

USE OF FUSILADE DX HERBICIDE WITH REFLEX 2LC + BASAGRAN HERBICIDE - SOYBEANS ONLY

Refer to REFLEX 2LC Herbicide Regional Use Map on page ____.

FUSILADE DX herbicide, REFLEX 2LC herbicide and BASAGRAN herbicide may be used together in a tankmix as a postemergence program for broad spectrum weed control in soybeans. The tankmix should be applied at the recommended rates and growth stages to susceptible annual grass and broadleaf weed species in a manner consistent with respective labels.

The FUSILADE DX/REFLEX 2LC/BASAGRAN herbicide tankmix should be applied to actively growing weeds. Do not apply this tankmix if weeds are stressed due to unfavorable temperatures, drought and/or low soil fertility. Do not apply the FUSILADE DX/REFLEX 2LC/BASAGRAN herbicide tankmix if soybeans show injury from prior herbicide applications.

Use a nonionic surfactant or crop oil concentrate. Apply in a minimum of 15 gallons per acre of spray mixture with spray pressures of 40-60 PSI at the nozzle tip.

USE OF FUSILADE DX HERBICIDE WITH BLAZER® HERBICIDE - SOYBEANS ONLY

FUSILADE DX herbicide and BLAZER herbicide may be used together in a postemergence program for broad spectrum weed control in soybeans.

FUSILADE DX herbicide and BLAZER herbicide may be applied sequentially or in a tankmix. The growth stage of weeds at the time of application will determine which method of application will provide the most satisfactory results.

Both FUSILADE DX herbicide and BLAZER herbicide should be applied to actively growing weeds. Do not apply either herbicide if weeds appear stressed due to unfavorable temperatures, drought and/or low soil fertility. Do not apply BLAZER herbicide and FUSILADE DX herbicide as a tankmix if soybeans show injury from prior herbicide applications.

METHOD 1: Sequential Application - FUSILADE DX Herbicide Followed by BLAZER Herbicide

(Annual and/or perennial grass weeds at proper growth stage for treatment, prior to broadleaf weed treatment.)

Apply FUSILADE DX herbicide and an approved adjuvant to annual and/or perennial grass weeds at the recommended rate and growth stage listed in the APPLICATION DIRECTIONS SECTION.

FUSILADE DX herbicide is a systemic herbicide, therefore when treating annual grasses allow at least 3 days, and when treating perennial grasses allow at least 5 days to elapse prior to a BLAZER herbicide application. This will enable FUSILADE DX herbicide to be adequately translocated to the meristematic regions of the plant.

After the appropriate time interval has elapsed, apply BLAZER with an approved nonionic surfactant to susceptible broadleaf weeds according to the BLAZER label.

METHOD 2: Sequential Application - BLAZER Herbicide Followed by FUSILADE DX Herbicide

(Broadleaf weeds at proper growth stage for treatment, prior to annual and/or perennial grass weed treatment.)

Apply BLAZER with an approved nonionic surfactant to susceptible broadleaf weeds at the recommended rate and growth stage.

A sequential application of FUSILADE DX herbicide may be applied following a BLAZER application when grasses resume active growth with the development of a new leaf. Follow the recommended rates and growth stages in the APPLICATION DIRECTIONS SECTION for the grass weeds being treated.

METHOD 3: Tankmix Applications - FUSILADE DX Herbicide and BLAZER Herbicide

(Annual grasses and broadleaf weeds are at the proper stage of growth for treatment, as per respective labels.)

A tankmix of FUSILADE DX herbicide and BLAZER may be applied at the recommended rates and growth stages to susceptible annual grass and broadleaf weed species in a manner consistent with respective labels.

Follow water volume and spray pressure recommendations as per the BLAZER label. Use only an approved nonionic surfactant in the tankmix. This tankmix can be applied by ground or aerial application.

SEE SOYBEAN TANKMIX USE PRECAUTIONS SECTION FOR ADDITIONAL INFORMATION.

USE OF FUSILADE DX HERBICIDE WITH CLASSIC® HERBICIDE - SOYBEANS ONLY

Sequential Application - FUSILADE DX Herbicide Followed by CLASSIC Herbicide

FUSILADE DX herbicide and CLASSIC herbicide may be applied sequentially in a postemergence program for broad-spectrum weed control in soybeans.

Sequential applications can only be made by applying FUSILADE DX herbicide first followed by CLASSIC herbicide. Use of this sequential application is appropriate when annual and/or perennial grass weeds are at the proper growth stage for treatment, prior to broadleaf weed treatment. Both FUSILADE DX herbicide and CLASSIC herbicide should be applied to actively growing weeds at the proper growth stage. Do not apply either herbicide if weeds appear to be stressed due to unfavorable temperatures, drought, water saturated soil, and/or low soil fertility.

Apply FUSILADE DX herbicide with an approved adjuvant to annuals and/or perennial grass weeds at the recommended rate and growth stage listed in the APPLICATION DIRECTIONS SECTION of the label for FUSILADE DX herbicide.

FUSILADE DX herbicide is a systemic herbicide, therefore, when treating grasses, allow at least 7 days to elapse prior to an application of CLASSIC herbicide. This will enable FUSILADE DX herbicide to be adequately translocated to meristemic regions of the plant.

After the appropriate time interval has elapsed, apply CLASSIC herbicide with an approved adjuvant at the recommended rate to susceptible broadleaf weed as outlined on the label for CLASSIC herbicide.

Tankmix Applications - FUSILADE DX Herbicide and CLASSIC Herbicide

FUSILADE DX herbicide and CLASSIC herbicide may be applied together in a tankmix in a postemergence program for control of volunteer corn, shattercane and broadleaf weeds at the proper growth stages for treatment listed on the respective product labels.

The FUSILADE DX herbicide and CLASSIC herbicide tankmix should be applied to actively growing weeds. Refer to the FUSILADE DX herbicide and CLASSIC herbicide labels for defined environmental conditions that promote active growth.

Do not apply the tankmix if soybeans show injury from prior herbicide applications.

Read and carefully observe all applicable directions, restrictions and precautionary statements on the FUSILADE DX herbicide and CLASSIC herbicide labels before using.

In Region A, FUSILADE DX herbicide should be added to the tankmix at 6 to 8 oz. per acre. The 8 oz. rate may be necessary under conditions of low humidity and low soil moisture and should be used when volunteer corn and/or shattercane foliage is dense or has reached the maximum recommended growth stage.

In Region B, FUSILADE DX herbicide should be added to the tankmix at 12 oz. per acre.

CLASSIC herbicide should be added to the tankmix at the recommended rates for broadleaf weed growth stages described on the CLASSIC herbicide label.

Always add an approved non-ionic surfactant at a rate of 1/2 pint / 25 gallons (0.25% v/v) of water or an approved crop oil concentrate at 1 quart / 25 gallons (1% v/v) of water.

SEE SOYBEAN TANKMIX USE PRECAUTIONS SECTION FOR ADDITIONAL INFORMATION

USE OF FUSILADE DX HERBICIDE WITH PURSUIT® HERBICIDE - SOYBEANS ONLY -

Tankmix Applications - FUSILADE DX Herbicide and PURSUIT Herbicide - Soybeans Only - (Region A Only)

FUSILADE DX herbicide and PURSUIT herbicide may be applied together in a tankmix in a post emergence program (Region A only) for control of volunteer corn, shattercane and broadleaf weeds at the proper growth stages for treatment listed on the respective product labels.

The FUSILADE DX herbicide and PURSUIT herbicide tankmix should be applied to actively growing weeds. Refer to the FUSILADE DX herbicide and PURSUIT herbicide labels for environmental conditions that promote active growth.

Do not apply the tankmix if soybeans show injury from prior herbicide applications.

Read and carefully observe all applicable directions, restrictions and precautionary statements on the FUSILADE DX herbicide and PURSUIT herbicide labels before using.

FUSILADE DX herbicide should be added to the tankmix at 6 to 8 oz. per acre. The 8 oz. rate may be necessary under conditions of low humidity and low soil moisture and should be used when volunteer corn and/or shattercane foliage is dense or has reached the maximum recommended growth stage.

PURSUIT herbicide should be added to the tankmix at the recommended rates for broadleaf weed growth stages described on the PURSUIT herbicide label.

Always add an adjuvant (approved nonionic surfactant or crop oil concentrate) and liquid fertilizer to the spray mixture. Refer to the PURSUIT herbicide label for additive rates.

SEE SOYBEAN TANKMIX USE PRECAUTION SECTION FOR ADDITIONAL INFORMATION.

TABLE 1. SOYBEAN HERBICIDE TANKMIX APPLICATION RATE TABLE¹

REGION A ²					
TANKMIX COMBINATION	FUSILADE DX	REFLEX 2LC ³	BASAGRAN	BLAZER	
FUSILADE DX + REFLEX 2LC	12 fl. oz./A	1 to 1½ pts./A			0.5 0.2
FUSILADE DX + BASAGRAN	12 fl. oz./A		1½ to 2 pts./A		0.5
FUSILADE DX + BLAZER	12 fl. oz./A			1½ to 3 pts./A	0.2 DC MI
FUSILADE DX + REFLEX 2LC + BASAGRAN	12 fl. oz./A	1 to 2 pts./A	1½ to 2 pts./A		0.5 0.2

¹ Follow the recommended rate and growth stages for the grass and broadleaf weeds on the respective labels.

² Region A - All states except the areas of Arizona, California, Colorado, Hawaii, New Mexico, West Oklahoma, West Texas, and Utah as outlined in the "Directions for Use" section.

³ Refer to REFLEX 2LC label for maximum use rate for specified geographic regions.

TABLE 2. SOYBEAN HERBICIDE TANKMIX APPLICATION RATE TABLE¹

REGION B ²				
TANKMIX COMBINATION	FUSILADE DX	BASAGRAN	BLAZER	NONIONIC SURFACTANT
FUSILADE DX + BASAGRAN	12 - 24 fl. oz./A	1-1/2 to 2 pts./A		0.5 - 1% 0.25 - 0.5%
FUSILADE DX + BLAZER	12 - 24 fl. oz./A		1-1/2 to 3 pts./A	0.25 - 0.5% DC NON-IONIC MIXTURE

¹ Follow the recommended rate and growth stages for the grass and broadleaf weeds on the respective labels.

² Region B - For the areas of Arizona, California, Colorado, Hawaii, New Mexico, West Oklahoma, West Texas, and Utah as outlined in the "Directions for Use" section.

For improved annual and perennial grass control, a tankmix of FUSILADE DX herbicide and WHIP 1EC herbicide may be applied at the recommended rates and growth stages listed in this. FUSILADE DX herbicide should be applied at 4.5 - 10.0 fl. oz. per acre and WHIP 1EC herbicide should be applied at 6.5 - 12.8 fl. oz. per acre depending on weed species and size as listed on the chart below.

For all ground applications, use crop oil concentrate in the tankmix at 1% v/v (1 quart per 25 gallons of spray solution). For aerial applications, use crop oil concentrate at 1 pint per acre.

Tankmixes for Control of Broadleaf Weeds

The tankmix of FUSILADE DX herbicide and WHIP 1EC herbicide may be applied in combination with REFLEX 2LC*, BASAGRAN, or BLAZER herbicides as described on the FUSILADE DX herbicide and WHIP 1EC herbicide labels. If there are differences in labeling, the most restrictive labeling applies. DO NOT tankmix with REFLEX 2LC, BASAGRAN or BLAZER herbicides when rhizome Johnsongrass is the predominant grassy weed problem.

*Refer to REFLEX 2LC Herbicide Regional Use Map on page ____.

USE OF FUSILADE DX HERBICIDE WITH BUGLE™ HERBICIDE - COTTON AND SOYBEANS**

Tankmix Applications - FUSILADE DX Herbicide and Bugle Herbicide

Before using these products, read and carefully observe all applicable directions, restrictions, and precautionary statements on the EPA-approved FUSILADE DX herbicide container label and the Bugle herbicide container label.

For improved control of annual grasses, a tankmix of FUSILADE DX herbicide and Bugle herbicide may be applied. When using this tankmix combination, apply FUSILADE DX herbicide at a rate of 12.0 fluid ounces per acre and Bugle herbicide at a rate of 8.2 fluid ounces per acre. Refer to the FUSILADE herbicide label for the recommended growth stage of the annual grass species for proper timing of application.

For all ground applications, use crop oil concentrate in the tankmix at 1% v/v (1 quart per 25 gallons of spray solution). For aerial applications, use crop oil concentrate at 1 pint per acre.

DO NOT apply this product through any type of irrigation system.

**BUGLE™ not registered for use in California.

		RATE FOR TANKMIX	
ANNUAL GRASS SPECIES	Height (Inches)	FUSILADE DX Rate/A (fl. oz.)	WHIP 1EC Rate/A (fl. oz.)
Barnyardgrass	2-3	6-10	6.5-12.8
Broadleaf Signalgrass	2-4	6-8	6.5-12.8
Crabgrass			
Large	1-2	6-10	6.5-12.8
Smooth	1-2	6-10	6.5-12.8
Southern	1-2	6-10	6.5-12.8
Tropical	1-2	6-10	6.5-12.8
Downy Brome	2-6	6-8	6.5-9.5
Fall Panicum	2-6	6-8	6.5-9.5
Field Sandbur	2-4	6-8	6.5-9.5
Foxtails			
Giant	2-6	4.5-8	6.5-9.5
Green	2-6	4.5-8	6.5-9.5
Yellow	2-4	4.5-10	6.5-9.5
Goosegrass	2-4	6-8	6.5-12.8
Italian Ryegrass	2-4	6-8	6.5-9.5
Itchgrass	4-24	6-8	6.5-9.5
Johnsongrass, Seedling	5-10	4.5-6	6.5-9.5
Junglerice	2-3	6-8	6.5-12.8
Red Rice	.5-1	6-8	6.5-9.5
Shattercane	6-12	4.5-6	6.5-9.5
Sorghum Alrum	6-12	6-8	6.5-9.5
Southern Sandbur	2-6	6-8	6.5-9.5
Texas Panicum	2-8	6-8	6.5-9.5
Volunteer Cereals			
Barley	2-6	6-8	6.5-9.5
Corn	12-24	4.5-6	6.5-9.5
Milo	6-12	6-8	6.5-9.5
Oats	2-6	6-8	6.5-9.5
Rye	2-6	6-8	6.5-9.5
Wheat	2-6	6-8	6.5-9.5
Wild Proso Millet	4-8	4.5-8	6.5-12.8
Witchgrass	2-4	6-8	6.5-9.5
Wild Oats	2-6	6-8	6.5-9.5
Wooly Cupgrass	2-4	4.5-8	6.5-12.8
PERENNIAL GRASS SPECIES			
Rhizome Johnsongrass	12-18	6-12	6.5-9.5

SOYBEAN TANKMIX USE PRECAUTIONS

- Always read and follow the restrictions and limitations for all products whether used alone or in a tankmix. The most restrictive labeling of any product used applies in tank mixtures.
- Do not apply less than 12 fl. oz./A FUSILADE DX herbicide in a tankmix with broadleaf herbicides in soybeans, except as specified on this label.
- Do not apply tankmixes if rain is threatening. REFLEX herbicide requires a 4-hour rain-free period; BLAZER herbicide requires a 6 hour rain-free period; and BASAGRAN herbicide requires an 8-hour rain-free period for best results.
- Do not apply a total of more than 2 quarts of BASAGRAN herbicide per acre in one season to soybeans.
- A maximum of 1.5 pints per acre of REFLEX 2LC herbicide may be applied per growing season for soybeans in Region 1. A maximum of 1.25 pints of REFLEX 2LC per acre may be applied in alternate years in Region 2. A maximum of 1.0 pints REFLEX 2LC per acre may be applied in alternate years in Region 3. A maximum of 1-1/2 pints of REFLEX 2LC may be applied per acre in alternate years in Region 4. (Do not make more than one application of REFLEX 2LC per growing season.)
- Apply REFLEX 2LC herbicide before soybeans bloom.
- Do not apply more than 4 pints (1.0 lb. active) per acre of BLAZER herbicide per growing season for soybeans.
- Do not apply BLAZER herbicide within 50 days of harvest for soybeans.
- Do not apply more than 1 oz. of CLASSIC per acre per season.
- Make the last application of CLASSIC to soybeans 60 days before soybean maturity.
- In the case of crop failure, only soybeans may be immediately replanted following use of BASAGRAN, BLAZER, and REFLEX.
- Do not make more than one application of the FUSILADE DX/REFLEX 2LC; FUSILADE DX/BASAGRAN; FUSILADE DX/BLAZER; or FUSILADE DX/REFLEX/BASAGRAN tankmix in a single season.
- Do not make sequential or tankmix applications of any of these herbicides if the weeds appear stressed due to unfavorable temperatures, drought and/or low soil fertility.

TANKMIXES FOR COTTON

USE OF FUSILADE DX HERBICIDE WITH AMBUSH®, CYMBUSH® 3E, BIDRIN® 8, OR CYGON® 400 INSECTICIDES - COTTON ONLY

FUSILADE DX herbicide and AMBUSH, CYMBUSH 3E, BIDRIN 8, OR CYGON 400 insecticides may be used in a tankmix when required according to the weed and insect problems present. Apply FUSILADE DX herbicide and an approved adjuvant to actively growing annual and perennial grasses at the recommended rate and growth stage listed in the APPLICATION DIRECTIONS SECTION of the FUSILADE DX herbicide label. Apply AMBUSH, CYMBUSH 3E, BIDRIN 8, or CYGON 400 as per label recommendations for insect control based on scouting reports. Subsequent applications of AMBUSH, CYMBUSH 3E, BIDRIN 8 or CYGON 400 may be required at intervals of 5 to 7 days for insect control. Regrowth or subsequent emergence of grasses may require treatment according to rate and growth stage recommendations on the FUSILADE DX herbicide label.

Use of crop oil concentrate or a nonionic surfactant as indicated in the APPLICATION DIRECTIONS SECTION of this label is required in the tankmix.

Load the spray tank with half the amount of required water and add the recommended amounts of FUSILADE DX herbicide and AMBUSH, CYMBUSH 3E, BIDRIN 8, or CYGON 400 insecticide while the agitator is running. Add crop oil concentrate or nonionic surfactant and the remaining quantity of water and mix thoroughly.

FUSILADE HERBICIDE AND COTTON INSECTICIDE TANKMIX RATE TABLE ¹					
REGION A ²					
TANKMIX COMBINATION	FUSILADE	AMBUSH	CYMBUSH 3E	CYGON 400	BIDRIN 8
FUSILADE DX + AMBUSH	6-12 fl. oz./A	0.4-0.8 pt./A			
FUSILADE DX + CYMBUSH 3E	6-12 fl. oz./A		0.16-0.27 pt./A (0.06-0.1 lbs. a/A)		
FUSILADE DX + CYGON 400	6-12 fl. oz./A			0.25-0.5 pt./A	
FUSILADE DX + BIDRIN 8	6-12 fl. oz./A				0.1-0.5 pt./A

¹ Follow the recommended rate and growth stages for the grass and target insect pests on the respective labels.

² Region A - All states except the areas of Arizona, California, Colorado, Hawaii, New Mexico, West Oklahoma, West Texas, and Utah as outlined in Section.

FUSILADE HERBICIDE AND COTTON INSECTICIDE TANKMIX RATE TABLE ¹					
REGION B ²					
TANKMIX COMBINATION	FUSILADE	AMBUSH	CYMBUSH 3E	CYGON 400	BIDRIN 8
FUSILADE DX + AMBUSH	8-24 fl. oz./A	0.4-0.8 pt./A			
FUSILADE DX + CYMBUSH 3E	8-24 fl. oz./A		0.16-0.27 pt./A		
FUSILADE DX + CYGON 400	8-24 fl. oz./A			0.25-0.5 pt./A	
FUSILADE DX + BIDRIN 8	8-24 fl. oz./A				0.1-0.5 pt./A

¹ Follow the recommended rate and growth stages for the grass and target insect pests on the respective labels.

² Region B - For the areas of Arizona, California, Colorado, Hawaii, New Mexico, West Oklahoma, West Texas, and Utah as outlined in the "Directions for Use" section.

- Always read and follow the restrictions and limitations for all products whether used alone or in a tankmix. **THE MOST RESTRICTIVE LABELING OF ANY PRODUCT USED APPLIES IN TANK MIXTURES.**

- For additional precautions, restrictions, limitations, and sprayer clean-up information, refer to the appropriate sections in the respective labels.
- Do not apply a total of more than 12 pints (3 lbs. ai/acre) of AMBUSH per acre per season.
- Do not apply a total of more than 1.0 lb. ai/A of CYMBUSH 3E per acre per season.
- Do not apply a total of more than (3 applications) of Bidrin 8 per acre per season.
- Do not apply more than 2 applications of Cygon 400 at the higher rate (0.5 pint/A) per season.
- Bidrin 8 may not be applied within 30 days of harvest.
- Repeat application of Cygon 400 should not be made at intervals closer than 14 days.
- Automatic flagging devices should be used when possible whenever Bidrin 8 is used.
- When applying Cygon 400, if automatic flagging is not possible, then the human flagger must wear protective clothing and respirator as specified on the Cygon 400 label.

NONFOOD USES - ~~FALLOW LAND, NONCROP AREAS, AND NONBEARING CROPS~~

FUSILADE DX herbicide can be used to control annual and perennial grass weeds in ~~fallow land; in nonbearing groves, orchards, vineyards, or tree farms or during site preparation prior to transplanting. and in noncrop areas. Noncrop areas include airports, electric transformer stations and sub stations, pipeline pumping stations, around buildings, storage yards, fence lines, parkways, roadsides, rights of way, and other noncropland areas.~~ See the following tables for specific recommended uses.

GENERAL USE PRECAUTIONS ~~FOR NONFOOD USES - NONBEARING CROPS~~

Not for use or storage in or around the home.

- Apply FUSILADE DX herbicide to actively growing grasses before they exceed the recommended growth stages in the following Tables.
- Spray to obtain thorough coverage of grass foliage, but not to runoff. Repeat treatments may be necessary to provide full season control.
- Use standard pesticide hollow cone or flat fan nozzles.
- Apply FUSILADE DX herbicide when the first grass species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Do not apply FUSILADE DX herbicide to grasses which are stressed due to moisture, temperature, low soil fertility, mechanical or chemical injury.
- Do not apply to grasses which have tillered, formed seed heads, or exceeded recommended growth stages.
- When treating nonbearing trees and vines, avoid contact of spray with foliage by using directed sprays.
- Do not apply to trees, vines, or other listed crops that will be harvested for food within one year after application.
- Do not apply to asparagus from which spears will be harvested within 1 year of treatment. Refer to the Asparagus section of General Use Precautions for use in asparagus that will be harvested within 1 year.
- Do not graze or harvest Florigraze perennial peanuts for 1 year after treatment.
- Do not plant rotational grass crops such as corn, sorghum and cereals within 60 days after the last application of FUSILADE DX herbicide.

NONFOOD USES - ~~FALLOW LAND, NONCROP AREAS, AND NONBEARING CROPS~~

Apply 16-24 oz. per acre of FUSILADE DX herbicide along with 1% crop oil concentrate (2 pints per 25 gallons) or 0.25% (1/2 pint per 25 gallons) of a nonionic surfactant to annual and perennial grasses at the recommended growth stages in the following tables.

FUSILADE DX HERBICIDE ANNUAL GRASS CONTROL GROWTH STAGES FOR ~~FALLOW LAND AND NONBEARING CROPS~~

Annual Grass Species

Make applications when grasses are 2-8 inches tall, but before tillering and/or heading.

Barnyardgrass	Prairie cupgrass
Broadleaf signalgrass	Red Rice
Crabgrass, large	Shattercane/Wildcane/Volunteer milo
Crabgrass, smooth	Sorghum alnum
Crabgrass, southern	Southern sandbur
Crabgrass, tropical	Southwestern cupgrass
Fall panicum	Texas panicum
Field sandbur	Volunteer barley
Foxtail, giant	Volunteer corn
Foxtail, green	Volunteer oats
Foxtail, yellow	Volunteer rye
Goosegrass	Volunteer wheat
Guineagrass, seedling	Wild Oats
Itchgrass	Wild proso millet
Italian ryegrass	Witchgrass
Johnsongrass, seedling	Woolly cupgrass
Junglerice	

FUSILADE DX HERBICIDE PERENNIAL GRASS CONTROL GROWTH STAGES FOR ~~FALLOW LAND AND NONBEARING CROPS~~

Perennial Grass Species	Growth Stage
Bermudagrass	4-8" runners
Guineagrass	6-12" tall before seedhead initiation
Kikuyugrass*	4-8" runners
Quackgrass	6-10"
Rhizome johnsongrass	8-18" tall and before boot stage
Torpedograss**	3-6" tall (1st application) 2-3" tall (subsequent application)
Wirestem muhly	4-12" tall and before seedhead initiation

*Not Registered in California for use on this species.

**Use 24 fl. oz. per acre per application. Three applications may be needed.