241-393

MAR 8 2000

Janet M. Overholt American Cyanamid Company P.O. Box 400 Princeton, NJ 08543-0400

Dear Ms. Overholt:

Subject: Label Revisions Plateau DG herbicide EPA Registration No. 241-393 Your Submission Dated February 16, 2000

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

a. In the Environmental Hazards Section delete "For terrestrial uses,". Refer to PR Notice 93-8.

b. The directions for use of partial packets per acre could result in user confusion and opening of water soluble packets. Either reinstate the appropriate whole packet per specific acreage or add a reference statement or footnote in each instance of a partial packet directions for use to the section on how to calculate partial water soluble packet per acre rate.

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

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

Sincerely yours,

James A. Tompkins Product Manager (25) Herbicide Branch Registration Division (7505C)

Enclosure

# PLATEAU<sup>®</sup> DG herbicide

# FOR WEED CONTROL, NATIVE GRASS ESTABLISHMENT AND TURF GROWTH SUPPRESSION ON ROADSIDES AND OTHER NONCROP AREAS

#### ACTIVE INGREDIENT:

<u>Imazapic</u> (+)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1 <i>H</i> -imidazol-2-yl]-5-methyl-3- pyridinecarboxylic acid)	70.0%
INERT INGREDIENTS	
TOTAL	100.0%

PLATEAU DG in a water soluble bag

(1 water soluble packet contains 0.0625 pounds of active ingredient as the free acid)

EPA Reg. No. 241-393

<u>U.S.</u> Patent No. 4,798,619 EPA Est. No.

#### **KEEP OUT OF REACH OF CHILDREN**

#### CAUTION/PRECAUCION

**PRECAUCION AL USUARIO:** Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

In case of an emergency endangering life or property involving this product, call collect, day or night, area code 973-683-3100

See Next Page for Additional Precautionary Statements

American Cyanamid Company North America Global Agricultural Products Division Specialty Products Department One Campus Drive Parsippany, NJ 07054 ©2000

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Net Contents: 2 X 1.44 ounces

<sup>®</sup>Registered Trademark of American Cyanamid Company <sup>TM</sup>Trademark of American Cyanamid Company

#### ACCEPTED with COMMENTS In EPA Letter Dated:

MAR 8 2000

Under the Federal Insecticide, Fungleide, and Redenticide Act, to emended, for the pusticide registered under, NPA hay. No. 241, -343

#### STATEMENT OF PRACTICAL TREATMENT

# IF ON SKIN: Wash with plenty of soap and water. Get medical attention. <u>Take off</u> <u>contaminated clothing</u>. <u>Rinse skin immediately with plenty of water for 15-20</u> minutes. <u>Call a poison control center or doctor for treatment advice</u>.

IF IN EYES: Flush with plenty of water. Call a physician if irritation persists. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### **CAUTION!**

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

#### ENVIRONMENTAL HAZARDS

For terrestrial use only. DO NOT apply directly to water, or 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 or rinsate.

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

#### **IMPORTANT**

DO NOT use on food or feed crops. For the maintenance of non crop sites, PLATEAU  $\underline{D}G$  may be applied to non-irrigation ditches and low lying areas when water has drained, but may be isolated in pockets due to uneven or unlevel conditions. DO NOT treat the inside of irrigation ditches. DO NOT rinse equipment on or near desirable trees or ornamental plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. DO NOT use on lawns.

#### **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 pesticide application.

DO NOT use on areas to be grazed, or cut for hay.

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DO NOT use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

DO NOT use organophosphate insecticides on <u>newly seeded stands that have been treated with PLATEAU DG</u> treated areas unless severe injury or loss of stand can be tolerated.

Observe all cautions and limitations on this label and on the labels of products used in combination with PLATEAU DG. Do not use PLATEAU DG other than in accordance with the instructions set forth on this label. The use of PLATEAU DG not consistent with this label may result in injury to desired vegetation. Keep containers closed to avoid spills and contamination.

When making new plantings of prairiegrass or wildflowers, carry-over from persistent herbicides such as sulfonyl-urea, imidazolinone, triazine, substituted urea, dinitroanaline, and other herbicides applied the previous year may result in compounded injury or death of desirable vegetation when treated with PLATEAU DG.

DO NOT apply to the foliage of desirable trees or ornamental plants. When making applications around desirable trees or ornamental plants, small areas should be tested to determine the tolerance of a particular species to soil applications of PLATEAU DG. Applications to the foliage or within the drip line of American Linden or Basswood (*Tilia americana* and *T. heterophylla*) may result in severe injury or death of the tree.

When making applications around desirable trees or ornamental plants, small areas should be tested to determine the tolerance of a particular species to soil and/or foliar applications of PLATEAU DG herbicide. See TOLERANCE OF TREES AND BRUSH TO PLATEAU DG Section of this label.

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

DO NOT exceed three water soluble packets of PLATEAU DG per acre in one year.

#### STORAGE AND DISPOSAL

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

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** DO NOT reuse outer packaging. Dispose of outer packaging in a sanitary landfill, by incineration or, if allowed by State and local authorities by burning. If burned, stay out of smoke.

#### DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on research and field use. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Turf injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use of, or application of the product contrary to label instructions, all of which are beyond the control of American Cyanamid Company. All such risks shall be assumed by the user.

American Cyanamid Company shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on this label. User assumes all risks associated with the use of this product in any manner not specifically set forth on this label.

American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above. CYANAMID DOES NOT MAKE OR AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED AND EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

BUYER'S EXCLUSIVE REMEDY AND AMERICAN CYANAMID'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF PLATEAU DG. In no case shall Cyanamid or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.

American Cyanamid Company makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY. User assumes the risk of any use contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable by American Cyanamid Company.

#### **USES WITH OTHER PRODUCTS (TANK-MIXES)**

If this product is used in combination with any other product except as specifically recommended in writing by American Cyanamid Company then American Cyanamid Company shall have no liability for any loss, damage, or injury arising out of its use in any such combination not so specifically recommended. If used in combination recommended by American Cyanamid Company, the liability of American Cyanamid Company shall in no manner extend to any damage, loss or injury not directly caused by the inclusion of the American Cyanamid Company product in such combination use, and in any event shall be limited to return of the amount of the purchase price of the American Cyanamid Company product.

#### **GENERAL INFORMATION**

PLATEAU DG is a pre-measured quantity (1.44 oz) of water dispersible granules, contained within a water soluble bag, to be mixed with water and an adjuvant and applied as a spray solution to provide weed control and/or turf height suppression on noncropland areas such as railroad, utility, pipeline and highway rights-of-way, railroad crossings, utility plant sites, petroleum tank farms, pumping installations, non-agricultural fence rows, storage areas, non-irrigation ditchbanks, Conservation Reserve Program (CRP) land (see USE OF PLATEAU DG ON CONSERVATION RESERVE PROGRAM LAND section), prairie sites, airports, industrial turf, golf courses, recreational and non-residential turf and other similar areas. PLATEAU DG may be used for the release of unimproved bermudagrass, bahiagrass, centipede, smooth bromegrass, wheatgrass, "wildtype" common Kentucky bluegrass, native prairiegrass, wildflowers, crown vetch and certain legumes. PLATEAU DG can also be used for weed control during the establishment of native prairiegrasses (see NATIVE PRAIRIEGRASS RENOVATION AND RESTORATION).

PLATEAU DG is readily absorbed through leaves, stems, and roots and is translocated rapidly throughout the plant, with accumulation in the meristematic regions. 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 storage organs which prevents regrowth. Chlorosis and tissue necrosis may not be apparent in some plant species for several weeks after application. Complete kill of plants may not occur for several weeks after application. Adequate soil moisture is important for optimum PLATEAU DG activity. When adequate soil moisture is present, PLATEAU DG will provide residual control of susceptible germinating weeds. Activity on established weeds will depend on the weed species and rooting depth. PLATEAU DG is rainfast one hour after application.

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PLATEAU DG will control annual and perennial grasses and broadleaf weeds and vine species. PLATEAU DG will provide residual control of labeled weeds which germinate in the treated area. Certain brush species and ornamentals may be injured by direct application of PLATEAU DG to their foliage. This product may be applied either preemergence or postemergence to the weeds. However, post emergence application is the method of choice in most situations, particularly for perennial species. For maximum activity, weeds should be growing vigorously at the time of postemergence applications and the spray solution should include an adjuvant (See "Adjuvants" Section). These solutions may be applied as a broadcast or as a spot treatment using backpack, or ground equipment.

PLATEAU DG may be applied in the dormant or growing season for weed control.

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Depending on the turf type being treated, some yellowing of turf may occur with applications during the growing season. Depending on weather conditions, yellowing will usually disappear appear in 2 to 4 weeks.

PLATEAU DG should not be applied to newly seeded or sprigged grass stands, unless otherwise stated in this label. See COASTAL BERMUDAGRASS and PRAIRIEGRASS RENOVATION AND RESTORATION sections.

#### MIXING INSTRUCTIONS

Fill the spray tank one-half to three-quarters full with clean water. Add required number of PLATEAU DG water soluble packets to spray tank while agitating. Fill the remainder of the tank with water.

For postemergence applications, add a surfactant to the spray tank (See Adjuvants section of this label for specific recommendations). Maintain agitation while spraying to ensure a uniform spray mixture. An antifoaming agent may be added to the tank if needed.

When tank-mixing PLATEAU DG with recommended herbicides, add PLATEAU DG to the spray tank first and make sure it is thoroughly mixed before adding the other herbicides.

PLATEAU DG is a pre-measured quantity (1.44 oz) of water dispersible granules, contained within a water soluble packet. The water soluble packets must be used as a whole unit. DO NOT open and subdivide packets when preparing a spray mixture. For use rate recommendations that prescribe partial water soluble packet per acre rates, refer to the table below for the equivalent whole packet per acre rate.

Partial Water Soluble Packet per Acre Rate	Equivalent Whole Water Soluble Packet Rate
0.5 per acre	1.0 per 2 acres
0.75 per acre	<u>1.0 per 1.3 acres</u>
1.5 per acre	1.0 per 0.6 acres
2.5 per acre	<u>1.0 per 0.4 acres</u>

#### SPRAYING INSTRUCTIONS

DO NOT apply during windy or gusty conditions unless applications are being made with an enclosed or shielded spray system. DO NOT apply if rainfall is threatening. Rainfall within 1 hour after PLATEAU DG application may reduce postemergence weed control.

#### GROUND APPLICATIONS:

Uniformly apply with properly calibrated ground equipment in 2 or more gallons of water per acre. Application equipment, specially designed to make low volume application should be used when making applications using less than 10 gallons of water per acre. A spray pressure of 20 to 40 psi is recommended.

Adjust the boom height to ensure proper coverage of weed foliage or soil surface (according to the manufacturer's recommendation). Avoid overlaps when spraying.

#### SPOT TREATMENTS:

For spot treatment applications made using ATV mounted sprayers prepare a spray mixture as follows: For applications to be made at 15 gallons per acre (GPA) thoroughly mix 0.5 to 3 water soluble packets of PLATEAU DG herbicide per 15 gallons of water plus a spray adjuvant (see "SPRAY ADJUVANTS FOR POSTEMERGENCE APPLICATIONS" section). For most prairiegrass plantings use 0.5 to 1.0 water soluble packet per acre and use 2 to 3 water soluble packets per acre for perendial or noxious weed control (see individual sections for rate recommendations). DO NOT apply more than 3 water soluble packets of PLATEAU DG herbicide per acre.

For small hand held sprayers, prepare a stock mixture by thoroughly dissolving 1 water soluble packet of PLATEAU DG herbicide per gallon of water and thoroughly mix. Make sure that the mixing container is opaque to sunlight or UV treated. PLATEAU DG herbicide breaks down rapidly when mixed in water and exposed to sunlight. Stock mixtures of PLATEAU DG herbicide in water should be used within two days of being prepared to prevent deterioration of the herbicide mixture. Mix thoroughly before removing additional stock mixture.

See the following table to determine the amount of stock mixture to add to make one gallon of spray mixture. One gallon of spray mixture will cover 1000 square feet.

	Equivalent PLATEAU DG	Amount of stock solution to be added to one gallon of spray mixture.			
	<u>herbicide rate per acre</u> (water soluble packets)	Fluid ounces <u>Milliliters</u> <u>Cups</u>			
	<u>1</u>	<u>2.9</u>	<u>87</u>	<u>0.37</u>	
	2	<u>5.9</u>	<u>174</u>	0.73	
)	3	<u>8.8</u>	<u>261</u>	1.1	

Use of a methylated seed oil is recommended when targeting noxious weeds. A silicone or nonionic surfactant is recommended when making applications to new grass/forb plantings and for annual weed control. Also see "WEEDS CONTROLLED" and "SPECIAL WEEDS CONTROLLED" sections for specific rate and/or tank-mix recommendations.

To prepare the spray solution, thoroughly mix 1 water soluble packet PLATEAU DG per three to four gallons of water plus an adjuvant (see "SPRAY ADJUVANTS FOR POSTEMERGENCE APPLICATIONS" section).--A methylated seed oil is the recommended spray adjuvant. See section on desired species and do not exceed the recommended PLATEAU DG rate per acre. Also see "WEEDS CONTROLLED" and "SPECIAL WEEDS CONTROLLED" sections for specific rate and/or tank mix recommendations.

# **AERIAL APPLICATION:**

All precautions should be taken to minimize or eliminate spray drift. Fixed wing aircraft and helicopters can be used to apply PLATEAU DG, however, when making applications by fixed wing aircraft maintain appropriate buffer zones to prevent spray drift out of the target area. Aerial equipment designed to minimize spray drift such as a helicopter equipped with a MICROFOIL<sup>TM</sup> boom, or THRU-VALVE<sup>TM</sup> boom or raindrop nozzles, must be

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used and calibrated. Except when applying with a MICROFOIL boom, a drift control agent may be added at the recommended label rate. To avoid drift, applications should not be made during inversion conditions, when winds are gusty, or under any other conditions which promote spray drift.

Uniformly apply recommended amount of PLATEAU DG in 5 or more gallons of water per acre, using enough volume to provide adequate coverage of target area or foliage. Include an adjuvant in the spray solution (See "Adjuvants" Section). A foam reducing agent may be added at the recommended rate, if needed.

IMPORTANT: 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.

Avoid overlaps when spraying.

#### SPRAY ADJUVANTS FOR POSTEMERGENCE APPLICATIONS

Postemergence applications of PLATEAU DG require a spray adjuvant. See "Special Weed Control" section. Due to variations in surfactant contents, certain surfactants containing high amounts of alcohols, paraffin based petroleum oils, and other compounds which can increase phytotoxicity to desirable vegetation, it is recommended to choose a low phytotoxic surfactant.

Methylated Seed Oils or Vegetable Oil Concentrates: Instead of a surfactant, a methylated vegetable-based seed oil concentrate containing 5 to 20% surfactant and the remainder of the <u>80 to 95%</u> methylated vegetable oil may be used at the rate of 1.5 to 2 pints per acre. Methylated seed oils provide their greatest effects at 30 GPA or less. At spray volumes above 50 GPA, their advantage appears negated. When using spray volumes greater than <u>30 gallons per acre methylated seed oil or vegetable based seed oil concentrates should be mixed at a rate of 1% of the total spray volume or alternatively use a nonionic surfactant as described below. Research indicates these oils may aid in deposition and uptake of PLATEAU DG for hard-to-control perennials, waxy leaf species or when plants are under moisture or temperature stress. **DO NOT** use a methylated seed oil or vegetable oil concentrate when making applications to newly emerged seedling prairiegrasses or wildflowers as injury may occur.</u>

Nonionic Surfactants: Use a nonionic surfactant at the rate of 0.25% 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 HLB (hydrophilic to lipophilic balance) ratio between 12 and 17 and having at least 60% surfactant in the formulated product (alcohols, fatty acids, oils, ethylene glycol or diethylene glycol should not be considered as surfactants to meet the above requirements).

Silicone-Based Surfactants: See manufacturer's label for specific rate recommendations. Silicone-based surfactants may reduce the surface tension of the spray droplet 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 and higher spray volumes may exhibit "run-off".

Fertilizer/Surfactant Blends: Nitrogen-based liquid fertilizers such as 28%N, 32%N, 10-34-0, or ammonium sulfate, may be added at the rate of 2 to 3 pints per acre in combination with the recommended rate of nonionic surfactant or methylated seed oil. Research indicates that nitrogen based fertilizers aid in the burndown of annual weeds and increase PLATEAU DG uptake through waxy leaf species. However, fertilizers may increase phytotoxicity to desired species and newly emerged seedling prairiegrasses and wildflowers. The use of fertilizers in a tank-mix without a nonionic surfactant or a methylated seed oil is not recommended and may result in herbicide failure.

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#### TANK MIXES

PLATEAU DG herbicide may be tank-mixed with PENDULUM<sup>®</sup> herbicide for additional control of late season annual grasses and certain broadleaves. For additional weed control, PLATEAU herbicide may be tank-mixed with Accord<sup>1</sup>, RoundupPro<sup>1</sup>, glyphosate, ARSENAL<sup>®</sup> herbicide, Diuron<sup>2</sup>, Campaign<sup>1</sup>, Finale<sup>5</sup>, Garlon 3A<sup>3</sup>, MSMA. Vanquish<sup>4</sup>, Oust<sup>2</sup>, Escort<sup>2</sup>, ACCORD<sup>TM</sup>, ROUNDUP<sup>TM</sup> PRO, glyphosate, ARSENAL<sup>®</sup> herbicide, diuron. CAMPAIGN<sup>TM</sup>, FINALE<sup>TM</sup>, GARLON<sup>TM</sup> 3A, TORDON, MSMA, VANQUISH<sup>TM</sup>, OUST<sup>TM</sup>, ESCORT or other labeled products. A compatibility test is advised for products not listed. 2,4-D and other phenoxy type herbicides have resulted in reduced control of perennial grass weeds.

DO NOT tank mix with organophosphate insecticides or use organophosphate insecticides the same year as PLATEAU DG herbicide on newly seeded areas.

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

# FOR FOLIAR AND SEEDHEAD SUPPRESSION OF BAHIAGRASS, COOL SEASON GRASSES AND SUPPRESSION OF SOME ANNUAL WEEDS

**Bahiagrass:** PLATEAU DG may be used at the rate of  $0.5 \pm$  water soluble packets per one half to two acre to suppress growth and seedhead development of bahiagrass in unimproved areas. In North and South Carolina it is recommended to use PLATEAU DG at the rate of  $0.5 \pm$  water soluble packet per two acre, as higher rates may cause turf thinning. Depending on rate of PLATEAU DG used, surfactant and environmental conditions, temporary turf discoloration may occur. For optimum performance, application should be made after green-up. Applications may be made before or after mowing. If applied prior to mowing, raise mowing height to leave adequate existing foliage as new growth will be suppressed. If applied after mowing, allow adequate foliage to remain by increasing mower height or allowing time for foliar regrowth prior to application. **DO NOT** apply to turf under stress (drought, cold, insect, disease, etc.) or severe injury may occur. **DO NOT** use a methylated seed oil adjuvant.

One Water Soluble Packets per Acre	Phytotoxicity	Length of Suppression
<del>2 acres</del> <u>0.5</u>	none to low	partial to season long
<del>1 acro</del> 0.75-1.5	low to moderate	season long

For winter annual weed control, apply 2 water soluble packets of PLATEAU DG per acre when bahiagrass is dormant, but when weeds are actively growing. This can be followed by 1 water soluble packet of PLATEAU DG per acre in the spring after bahiagrass green-up for the suppression of seedheads and foliage.

#### **Cool Season Grasses:**

**KY31 Tall Fescue and "Wildtype Common" Kentucky Bluegrass:** Apply PLATEAU DG at 0.5 to 1 water soluble packet per <u>acre one to two acres</u> for foliar and seedhead suppression of certain cool season grasses such as "KY31" tall fescue and "wildtype common" Kentucky bluegrass. Add a surfactant to the  $\pm$  0.5 water soluble packet per 2 acre rate of PLATEAU DG for optimum performance. The addition of a surfactant to the 1 water soluble packet per acre rate of PLATEAU DG may cause excessive turf injury or mortality of tall fescue. Application to turf type tall fescue or Kentucky bluegrass may result in severe injury or loss of stand.

Crested Wheatgrass: Apply PLATEAU DG at 1 to 2 1.5 to 2.5 water soluble packets per acre for foliar and seedhead suppression of crested wheatgrass. Other wheatgrass species may also be suppressed, however, apply PLATEAU DG to a limited area to determine effectiveness. Tank-mixes with 2,4-D or products containing 2,4-

D may decrease the effectiveness of PLATEAU DG. Tank-mixes with <u>GARLON, TORDON<sup>TM</sup>, TRANSLINE<sup>TM</sup></u> and <u>VANQUISH</u> Garlon, Tordon, Transline, and <u>Vanquish</u> may decrease the potential of turf injury. DO NOT apply to turf under stress or severe injury may occur.

#### FOR THE CONTROL OF UNDESIRABLE WEEDS IN UNIMPROVED BERMUDAGRASS

PLATEAU DG may be used on unimproved bermudagrass turf such as roadsides, utility rights-of-way, railroad crossings, airports, non-irrigation drainage ditches and other such noncropland sites. There is a differential tolerance between bermudagrass types (See below paragraphs). Depending on bermudagrass type, timing of application, and PLATEAU DG rate, some foliar, stolon, and seedhead suppression may occur. IMPORTANT: Apply PLATEAU DG after bermudagrass has reached full green-up. Spring applications made prior to full green-up may delay green-up. Always add a surfactant when applying PLATEAU DG. DO NOT apply to grass under stress from drought, disease, insects or other causes. Simultaneous mow/spray operations may suppress internode development. After mowing, allow adequate foliage regrowth prior to PLATEAU DG application as some internode suppression may prevent bermudagrass from quickly recovering from mowing.

**Common Bermudagrass:** Common bermudagrass is the most tolerant bermudagrass to PLATEAU DG. <u>PLATEAU DG at 1.5 to 3 water soluble packets per acre will provide control of labeled weeds as well as foliar</u> and seed head suppression of established common bermudagrass. Tank-mixes with Roundup Pro, Accord <u>ROUNDUP PRO, ACCORD</u> or glyphosate will improve the weed control spectrum, but may increase turf phytotoxicity. Some stolon internode shortening and seedhead suppression may occur for the first 8 weeks.

**Sprigged Coastal Bermudagrass:** PLATEAU DG at 1 to 1.5 water soluble packets per acre may be applied at sprigging for weed control to aid in the establishment of coastal bermudagrass. **DO NOT** use on hybrid varieties such as Tifton 85, New World, etc.

Established Coastal Bermudagrass: PLATEAU DG at 4 <u>1.5</u> to 3 water soluble packets per acre will provide control of labeled weeds as well as foliar and seed head suppression of established coastal bermudagrass. <u>Do not use on hybrid varieties such as Tifton 85</u>, New World, etc. Depending on environmental conditions and weed pressure, the longevity of suppression and weed control increases as the PLATEAU DG rate increases. Tankmixes with Reundup Pro, Accord ROUNDUP PRO, ACCORD or glyphosate may result in death or excessive injury of coastal bermudagrass.

Turf Type Bermudagrass: Turf type bermudagrass varieties show a high degree of variation in tolerance to PLATEAU DG. PLATEAU DG at 1 to 1.5 water soluble packet per acre will provide some annual weed control and foliar & seedhead suppression. Rates above  $\pm$  1.5 water soluble packets per acre may result in excessive injury or death of turf type bermudagrass.

# SEE ABOVE SECTIONS FOR PLATEAU DG RATES AND TIMINGS FOR SPECIFIC BERMUDAGRASS TYPES WITH REGARD TO WEED CONTROL-AND TURF TOLERANCE.

Winter Annual Weed Control: Apply PLATEAU DG at the rate of 2 2.5 to 3 water soluble packets per acre prior to winter weed germination or while winter weeds are actively growing. Early spring applications may delay green-up of bermudagrass turf.

Summer Annual Weeds: For best results, apply PLATEAU DG at the rate of 2 to 3 water soluble packets per acre pre-emergence or early postemergence before weeds have reached 6 inches in height. Larger weeds may be controlled depending on susceptibility, growing conditions, tank-mix partner and adjuvant selection.

**Perennial Weeds:** Apply PLATEAU DG at the rate of 2 to 3 water soluble packets per acre postemergence after weeds have produced adequate foliage for herbicide uptake. For a particular weed see "Special Weed Control" section below. The addition of Accord or Roundup Pro herbicide may increase control.

**Bahiagrass Control:** Apply PLATEAU DG at the rate of 2 2.5 to 3 water soluble packets per acrepostemergence. See SPECIAL WEED CONTROL section below for recommendations. The addition of Roundup Pro or Accord ROUNDUP PRO or ACCORD herbicide at 12 to 16 oz per acre may increase control.

# FOR THE CONTROL OF UNDESIRABLE WEEDS IN UNIMPROVED CENTIPEDE GRASS

PLATEAU DG may be applied at a rate of 1 to 2 water soluble packets per acre to established centipede grass for the control of annual broadleaf and grass weeds. Apply PLATEAU DG after centipede grass has reached full green-up. Spring applications made prior to full green-up may delay green-up. Always add a surfactant when applying PLATEAU DG. DO NOT apply to grass under stress from drought, disease, insects or other causes. Simultaneous mow/spray operations may suppress internode development. After mowing, allow adequate foliage regrowth prior to PLATEAU DG application as some internode suppression may prevent centipede grass from quickly recovering from mowing.

# FOR CONTROL OF UNDESIRABLE WEEDS IN SMOOTH BROMEGRASS, WILDTYPE COMMON KENTUCKY BLUEGRASS AND CRESTED WHEATGRASSES

PLATEAU DG may be used on unimproved smooth bromegrass, "wildtype" common Kentucky bluegrass and crested, <u>western</u>, <u>bluebunch and intermediate</u> wheatgrass in noncropland areas. For other types of wheatgrass species, make application to small area to determine tolerance to PLATEAU DG. PLATEAU DG provides control of labeled grass and broadleaf weeds (See WEEDS CONTROLLED and SPECIAL WEED CONTROL sections). Treatment of smooth bromegrass and wheatgrass with PLATEAU DG may result in foliar height and seedhead suppression.

Smooth Bromegrass and "Wildtype" Common Kentucky Bluegrass: Use PLATEAU DG at 1 to 2 water soluble packets per acre in the spring for weed control and growth suppression after smooth bromegrass and "wildtype" common Kentucky bluegrass have reached 100% green-up. Applications prior to 100% green-up may delay green-up. Rates from 2 to 3 water soluble packets per acre may be applied in the spring but may result in excessive growth suppression. For fall applications (see SPECIAL WEED CONTROL section), PLATEAU DG may be used at 2 to 3 water soluble packets per acre for control of perennial weeds.

Wheatgrass: To control undesirable weeds in crested, western, bluebunch, intermediate and other wheatgrasses apply PLATEAU DG herbicide at 1 to 3 water soluble packets per acre. For wheatgrass species other than crested, western, bluebunch and intermediate, make application to small area to determine tolerance to PLATEAU DG herbicide.

#### FOR CONTROL OF UNDESIRABLE WEEDS IN CROWN VETCH

PLATEAU DG may be applied at the rate of 1 water soluble packet per acre to newly seeded crown vetch beds to aid in the establishment of vetch and reduce weed competition.

PLATEAU DG at 2 to 3 water soluble packets per acre may be used on unimproved established crown vetch in noncropland areas. PLATEAU DG provides control of labeled grass and broadleaf weeds (Refer to the "Weeds Controlled" and "Special Weed Control" section for specific rates). Treatment of crown vetch beds with PLATEAU DG may cause internode shortening and some minor tip chlorosis depending on timing of application.

PLATEAU DG should be applied during winter dormancy or early spring to reduce potential injury. Applications made after May, may result in increased injury or defoliation. Addition of surfactants such as dilimenene based or crop oil concentrates will increase injury. Fall applications during the period of active crown vetch growth may result in severe injury or loss of stand.

#### NATIVE PRAIRIEGRASS RENOVATION AND RESTORATION

PLATEAU DG may be applied at the rate of 4 0.5 to 3 water soluble packets per acre to newly established or existing stands of labeled species (see below for details) in such areas as roadsides, industrial sites, prairie restoration sites, drainage ditch banks, and other such noncropland areas. Certain local ecotypes or varieties may be suppressed by PLATEAU DG. Many factors such as poor seedling vigor, cool temperatures, poor soil, planting depth, excessive moisture, disease, insects and dry weather after emergence can all result in poor stands. Additional stress of herbicide residue, poor soils and other factors contributing to poor seedling vigor can also increase injury and could result in mortality. American Cyanamid can not be held responsible for such unforeseen factors. It is suggested to try PLATEAU DG on a small area if tolerance is not known. PLATEAU DG controls many annual and perennial grass and broadleaf weeds. Weed competition is reduced allowing prairiegrass stands and must be applied postemergence as a foliar treatment to perennial weeds. IMPORTANT: ALWAYS ADD AN ADJUVANT when applying PLATEAU DG. To maximize weed control always use a methylated seed oil when treating established prairiegrass stands. Use a nonionic surfactant when treating newly emerged seedling prairiegrasses.

PLATEAU DG may be applied at a rate of up to 1 water soluble packet per acre to Federal Conservation Reserve Program (CRP) land for the establishment or release of big bluestem, little bluestem, Indiangrass, sideoats and blue grama.

**Establishment:** For optimum results in establishing mixed prairiegrass stands with PLATEAU DG, make application at planting before prairiegrass seedlings emerge. Newly emerged grasses can be sensitive to PLATEAU DG herbicide and/or the adjuvant used. If native warm season prairiegrasses have begun to emerge, it is best to wait until they have reached the five leaf stage to make a PLATEAU DG herbicide application and use a nonionic or silicone surfactant. Do not use a methylated seed oil at this time as some grass species tolerance will be lost. PLATEAU DG will control annual weeds preemergence or early postemergence. See "WEEDS CONTROLLED" section for maximum height of weeds and see below for more details on best rate and timing for prairiegrass and wildflower species. Postemergence applications may result in stand thinning due to variability in seedling grass tolerance to the use of spray adjuvants. Seedling grasses are generally more tolerant to the use of spray adjuvants after they have reach the five leaf stage. When planting into a field which was row cropped the previous year, compounded injury may occur from herbicide carry-over (See "DIRECTIONS FOR USE" section).

**Rates and Control:** Apply PLATEAU DG at  $\pm 0.5$  to 1.5 water soluble packets per acre to fields cropped the previous year, when annual weeds are the target and/or if grass/forb mixtures are used. PLATEAU DG at  $\pm 0.5$  to 1.5 water soluble packets per acre will provide control and/or suppression of many annual grass and broadleaf weeds. Use lower rates when in the northern most U.S., dry climates or for late season plantings into clean seedbeds. PLATEAU DG herbicide rates as low as 0.5 water soluble packets per acre may be used on soils with a pH > 7, a low CEC and a course texture containing a minimum of clay and organic matter. Use higher rates in heavy weed pressure, heavy residue, high organic matter, high rainfall and long growing season (southern portions of Illinois, Indiana, Missouri and Ohio, etc.). Apply PLATEAU DG at 2 to 3 water soluble packets per acre may result in stunting or stand thinning. The duration and intensity of suppression are directly related to weed pressure, chemical residue, soil type and environmental conditions. See below for details for particular grass tolerances and timings.

Established Stands: For optimum results, apply PLATEAU DG as an early postemergence application to annual grasses and broadleaf weeds. For perennial weed control, see "SPECIAL WEED CONTROL" section. The use of high rates may result in foliar and/or seed head height suppression of established stands of prairiegrass. This effect is more likely to occur under conditions of light soils, low weed pressure, low rainfall,

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and short growing seasons. Use the lower rates for light weed infestations or when mixing with wildflowers and legumes (See "Wildflower" Section for rate tolerance). Use higher rates to broaden and lengthen weed control spectrum.

**Big Bluestem, Little Bluestem and Indiangrass:** PLATEAU DG may be applied at the rate of  $\pm 0.5$  to 3 water soluble packets per acre at planting, or any time thereafter, including after seedling grasses have emerged or to perennial stands (dormant or actively growing). See weed control section for desired rate. Use the lower rates in Wisconsin, Michigan, Minnesota, South Dakota, North Dakota, and Nebraska and higher rates as rainfall and/or growing season increases.

Switchgrass (*Panicum virgatum*): PLATEAU DG is not recommended for the establishment of pure switchgrass stands as severe injury or death may result. PLATEAU DG may be applied at a rate of 0.5 to 1 water soluble packet per acre if switchgrass is planted in mixed stands with tolerant species, but only if some stand thinning or loss of stand can be tolerated. Mature switchgrass planting can be reclaimed from certain perennial weeds such as tall fescue, leafy spurge, johnsongrass, etc., with PLATEAU DG at rates of 2.5 to 3 water soluble packets per acre. However, severe stunting and injury is imminent. DO NOT apply PLATEAU DG to switchgrass if such severe injury can not be tolerated.

Sideoats and Blue Grama: Apply PLATEAU DG herbicide to monoculture stands of sideoats and blue grama only if some stand thinning or loss of stand can be tolerated. PLATEAU DG may be applied at the rate of  $\frac{1}{1000}$  to  $\frac{1}{20.5}$  to  $\frac{1}{1000}$  water soluble packets per acre plus an adjuvant to aid in the establishment of sideoats and blue grama after new seedlings have emerged and reached the five (5) leaf stage. When using PLATEAU DG at  $\frac{2}{1}$  water soluble packet per acre it is not recommended to use in combination with a methylated seed oil adjuvant as stand thinning may occur. The lower rates may provide adequate weed suppression in early summer plantings in the states of Wisconsin, Michigan, Minnesota, South Dakota, North Dakota, and Nebraska and other states where growing degree days are short. Sideoats and blue grama have shown tolerance to PLATEAU DG at 0.5 to 1 water soluble packet per acre, applied pre-emergence at planting, however, some stand thinning may occur. For weed control in established stands use 1 to 2.5 water soluble packets per acre of PLATEAU DG. Up to 3 water soluble packets per acre of PLATEAU DG may be applied, but may result in foliar and/or seedhead suppression, or in the injury of sideoats and blue grama, depending on surfactant choice, soil type, variety, weed pressure and environmental conditions.

**Buffalograss:** Apply PLATEAU DG at the rate of 0.5 to 1 water soluble packet per acre for control or suppression of labeled weeds and to aid in the establishment of newly sprigged buffalograss. <u>Apply PLATEAU</u> DG herbicide immediately after planting prior to spring growth or seed germination. New growth and small seedlings can be severely injured or killed. If applying after emergence it is best to wait until buffalograss has at least five true leaves and use a nonionic or silicone surfactant. Do not use a methylated seed oil. For established stands, PLATEAU DG may be applied at the rate of  $\pm 0.5$  to 2 water soluble packets per acre for weed control. Higher rates may cause some turf discoloration and stunting. PLATEAU DG may be applied to dormant buffalograss to control winter annual weeds. Turf type buffalograss may express different tolerance level to PLATEAU DG than wild type buffalograss. Some turf types can tolerate low rates of PLATEAU DG at seeding. Consult seed dealer for details.

**Eastern Gamagrass:** PLATEAU DG should only be used for the establishment or maintenance of eastern gamagrass if some stand thinning or loss can be tolerated. Apply PLATEAU DG at  $\pm$  0.5 to 1.5 water soluble packets per acre at planting prior to gamagrass emergence. Stand thinning and stunting is imminent. Adverse conditions, poor soils, or added stress to the gamagrass could result in stand mortality. Postemergence application to seedlings will cause mortality. On established Eastern gamagrass, apply PLATEAU DG at  $\pm$  0.5 to 2 water soluble packets per acre prior to gamagrass breaking dormancy. Some stunting will occur and increases as the PLATEAU DG rate increases. Applications made during or after green-up may result in foliar and seedhead suppression and possible mortality of weak plants.

Tall Fescue Control: Tall fescue can be controlled by using PLATEAU DG at the rate of 3 water soluble packets per acre plus methylated seed oil at 2 pints per acre in established stands of or to prepare a seed bed for big bluestem, little bluestem, and indiangrass. The addition of Nitrogen fertilizer (See "ADJUVANTS" Section) to the above mix will aid in control. Tall fescue must be actively growing for optimum control. If tall fescue has reached the boot stage or has reached summer dormancy, control may be poor. For improved control of tall fescue, PLATEAU DG may be tank mixed with ACCORD, ROUNDUP PRO Accord, Roundup-Pro, or glyphosate. Fall applications of PLATEAU DG at 2 to 3 water soluble packets per acre, plus 24 to 64 oz/A ACCORD or ROUNDUP PRO Accord or Roundup Pro will result in best control of existing tall fescue and new germinating seedlings. With spring applications of PLATEAU DG at 1.5 to 3 water soluble packets per acre, plus a ACCORD or ROUNDUP PRO Accord or Roundup Pro at 32 to 64 oz/A, use higher rates for older, mature fescue stands and lower PLATEAU DG rates when planting forbs. When using 2 water soluble packets per acre of PLATEAU DG in the fall with a glyphosate product, it is recommended to apply 1 water soluble packet per acre PLATEAU DG in the spring at planting for annual weed and seedling fescue control. Burning the fescue stand, where permitted, the following spring, just prior to green-up, will aid in control and provide a better seedbed for planting. Mowing the fescue several times the summer before fall application, will weaken the fescue root system, making it more susceptible to herbicides. Always allow for at least 10 inches of regrowth, following the last mowing before spraying, as both PLATEAU DG and glyphosate products need foliage present for herbicide uptake and satisfactory control.

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Prairiegrass		<u>PLATEAU</u> (water soluble pa	
Common Name	Genus species	New Seeding	Established
Big Bluestem	Andropogon gerardii	+ <u>0.5</u> -3	+ <u>0.5</u> -3
Little Bluestem	Andropogon scoparius Schizachyrium scoparium	+ <u>0.5</u> -3	4 <u>0.5</u> -3
Indiangrass	Sorghastrum nutans	+ <u>0.5</u> -3	4 <u>0.5</u> -3
Bushy Bluestem	Andropogon glomeratus	*	4 <u>0.5</u> -3
King Ranch Bluestem	Bothriochloa ischaemum		4 <u>0.5</u> -3
Silver Beard Bluestem	Bothriochloa saccharoides		4 <u>0.5</u> -3
Broomsedge	Andropogon virginicus		+ <u>0.5</u> -3
Fingergrass, Rhodes grass	Choris spp.		4 <u>0.5</u> -3
Needlegrass	Stipa spp.		+ <u>0.5</u> -3
Needleandthread	<u>Stipa comata</u>	<u></u>	<u>0.5-3</u>
Kearny (Plains) Threeawn	Aristida longespica		4 <u>0.5</u> -3
Prairie Threeawn	Aristida oligantha		4 <u>0.5</u> -3
Prairie Sandreed	Calamovilfa longifolia	<u>-</u>	+ <u>0.5</u> -3
Smooth Bromegrass	Bromus inermis		<u>0.5-3</u>
Kentucky Bluegrass	<u>Poa pratensis</u>		<u>0.5-3</u>
Wheatgrasses	Agropyron spp.		<u>0.5-3</u>
Sideoats Grama	Bouteloua curtipendula	$10.5 - 2^3$	<del>3</del> <u>0.5-2</u>

# PRAIRIEGRASS RENOVATION AND RESTORATION<sup>1</sup> TOLERANT GRASS SPECIES<sup>1</sup>

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Blue Grama	Bouteloua gracilis	$+ 0.5 - 2^3$	<u> 3 0.5-2</u>
Buffalograss	Buchloe dactylodes	<u>0.5 to</u> 1	+ <u>0.5</u> -2
Eastern Gamagrass	Tripsacum dactyloides	$1 0.5 \text{ to } 1.5^3$	<u>+ 0.5</u> -2

<sup>1</sup> See individual grass sections for application timing.

<sup>2</sup> High rates may result in stunting and growth suppression.

3 PLATEAU DG preemergence applications to newly seeded sideoats and blue grama

may result in thinning or loss of stand.

<u>\* --- Tolerance unknown</u>

#### WILDFLOWER ESTABLISHMENT AND MAINTENANCE

Due to high degree of variation in genotypes, ecotypes and varieties of wildflowers, tolerances to PLATEAU DG herbicide can vary dramatically and may be reduced under certain soil types and environmental conditions. Apply PLATEAU DG herbicide only if some stand thinning or loss can be tolerated. Preemergence applications of low use rates (1 water soluble packet per acre) to tolerant species, result in the least amount of injury, but may not eliminate it. Postemergence applications of PLATEAU DG can result in injury or death of some genotypes, and should be used only as a rescue treatment when weed competition threatens the stand. Use of certain spray adjuvants can also increase wildflower injury and loss of stand. Although most legumes listed in the tolerance table are tolerant to 1 water soluble packet per acre of PLATEAU DG preemergence, some stand thinning may occur. Legumes are more tolerant to post applications, but chlorosis or stunting is possible. Recommendations listed in the tables below are designed for mixed grass/wildflower stands. Less than satisfactory results may occur from applications to monoculture stands. It is recommended to try on a small scale to determine degree of satisfaction on monoculture stands.

For use in wildflower beds: Certain wildflowers have shown tolerance to PLATEAU DG applied preemergence and/or postemergence. Apply PLATEAU DG at the rate of 0.5 to 1 water soluble packet per acre plus a silicone or nonionic surfactant to wildflower beds when weed competition threatens establishment or preservation of stand. Do not use a methylated seed oil or add fertilizer after seedling wildflowers have emerged or severe injury or death of some species may occur. Do not use if injury can not be tolerated. Species listed in the table below will outgrow early phytotoxicity. Higher rates may cause delayed flowering and/or height suppression of some species. Late postemergence applications (at bolting, bud or bloom set) on seedling and established beds will delay or prevent bloom. Combinations with PENDULUM<sup>®</sup> herbicide will provide broad spectrum grass and broadleaf weed control (see PENDULUM herbicide label for tolerant species).

For prairiegrass/wildflower mixtures: Where some wildflower injury (phytotoxicity, height suppression) can be tolerated, apply PLATEAU DG at the rate to achieve desired weed control, but not to exceed tolerance rate listed in the table below. Wildflower injury can be reduced or eliminated with pre-emergence applications. To minimize injury, apply PLATEAU DG at 0.5 to 1 water soluble packet per acre at planting to tolerant species listed below. Use the 0.5 water soluble packet per acre rate under cool dry conditions and in low rainfall areas. If postemergence application is made to established prairiegrass/wildflower mixtures, use the lowest rate of PLATEAU DG necessary to achieve desired weed control (see "WEEDS CONTROLLED" section). Postemergence application can result in stand thinning or death due to vast variation in seed sources, varieties and genotypes. It is recommended that a small area be tested prior to full application for tolerance of desired species. The rates listed below are for those species in which acceptable tolerance has been confirmed on the varieties/genotypes being treated.

Application of PLATEAU DG in conjunction with an organophosphate insecticide may cause an increase in wildflower injury.

Seedling Wildflower and Legume Tolerance to PLATEAU DG <u>herbicide</u> (1 water soluble packet per acre)<sup>1</sup> in mixed grass/forb stands

Name	Comus Succion	PRE	POST
) <u>Common Name</u>	Genus Species	<u>n ne</u> No	Yes
Alfalfa Astan Naw England	Medicago sativa	No No	Yes
Aster, New England	Aster novae angliae		
Aster, Prairie	Aster tanacetifolius	<u>No</u>	<u>Yes</u>
Baby Blue Eyes	Nemophila menziestii	No	Yes
Beggar ticks	<u>Bidens frondosa</u>	<u>No</u>	<u>Yes</u>
Bird's Eyes	Gilia tricolor	No	Yes
Bishop's Flower	Anuni majus	No	Yes
Blackeyed Susan	Rudbeckia hirta	Yes	Yes
Blanketflower	Gaillardia aristata	No	Yes
Bundleflower, Illinois	Desmanthus illinoensis	Yes	Yes
Catchfly	Silene armeria	No	Yes
Chicory	Cichorium intybus	Yes	Yes
Clover, Crimson	Trifolium incarnatum	Yes	Yes
Clover, White	Trifolium repens	No	Yes
🔨 Coneflower, Purple	Echinacea purpurea	Yes	Yes
<sup>/</sup> Coneflower, Upright Prairie	Ratibida columnifera	Yes	Yes
Coreopsis, Dwarf Red Plains	Coreopsis tinctoria var. Gay Feather	Yes	Yes
Coreopsis, Lance Leaved	Coreopsis lanceolata	Yes	Yes
Coreopsis, Plains	Coreopsis tinctoria	Yes	Yes
Cornflower	Centaurea cyanus	No	Yes
Cosmos, Garden	Cosmos bipinnatus	Yes	Yes
Cosmos, Yellow	Cosmos sulphureus	Yes	Yes
Daisy, Ox-eye	Chrysanthemum leucanthermum	Yes	Yes
Daisy, Shasta	Chrysanthemum maximum	Yes	Yes
Five Spot	Nemophila maculata	No	Yes
Flax, Blue	Linum perenne	No	Yes
Indian Blanket	Gaillardia pulchella	No	Yes
Indigo, Blue False	Baptisia ausralis	Yes	<u>No</u>
Johnny Jump-ups	Viola cornuta	Yes	Yes
Lemon Mint	Monarda citriodora	No	Yes
) Lespedeza, Bicolor	Lespedeza	Yes	Yes
Lespedeza, Korean	Lespedeza stipulacea	<u>No</u>	Yes
Lespedeza, Sericea	Lespedeza cuneata	No	Yes
Lupine, Perennial	Lupinu perennis	Yes	Yes
Mexican Hat	Ratibida columnaris	Yes	Yes
Partridgepea	Cassia fasciculata	Yes	Yes
Pea, Calico	Pisum viganasinensis	Yes	Yes
Pea, Flat	Lathyrus sylvestris	Yes	Yes
Pea, Perennial	Lathyrus latifolius	Yes	Yes
Phlox, Drummond	Phlox drummondii	Yes	No
Poppy, California	Eschscholzia californica	Yes	No
Poppy, Corn	Papaver rhoeas	Yes	Yes
Poppy, Red Corn	Papaver sp.	Yes	Yes
Prairieclover, Purple	Petalostermon <u>Dalea</u> purpure <u>a</u> um	Yes	Yes
Prairieclover, White	Petalostemum candidum	Yes	Yes
<u>Tick-trefoil, Showy</u>	Desmodium canadense	<u>No</u>	Yes
Trefoil, Birdsfoot	Lotus corniculatus	<u>No</u>	Yes
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Tickelover	Desmodium sp.	Yes	
Vetch, Crown	Coronilla varia	Yes	
Vetch, Hairy	Vicia villosa	Yes	
Vetch, Hairy Yarrow, Gold	Achillea filipendulina	No	Yes

<sup>1</sup> For legumes, at least three true leaves should be present before a postemergence application.

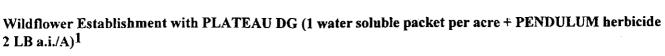
# Perennial Wildflower and Legume Tolerance to PLATEAU DG (maximum rate<sup>1</sup>, water soluble packets per acre) in mixed grass/forb stands.

Common Name	Genus Species	PRE	POST2
Flax, Blue	Linum perenne	0	<u>+ 1.5</u>
Indian Blanket	Gaillardia pulchella	0	<u> + 1.5</u>
Blanketflower	Gaillardia aristata	0	2
Chickory	Cichorium intybus	1	+ <u>1.5</u>
Daisy, Shasta	Chrysanthemum maximum	1	2
Prairieclover, Purple	<del>Petalostermon</del> <u>Dalea</u> purpure <u>a</u> um	1	3
Coneflower, Upright Prairie	Ratibida columnifera	+ <u>1.5</u>	+ <u>1.5</u>
Mexican Hat	Ratibida columnaris	+ <u>1.5</u>	<u>+ 1.5</u>
Poorjoe	Diodia teres	2	
Lupine	Lupinu perennis	2	+ <u>1.5</u>
Coneflower, Purple	Echinacea purpurea	2	2
Daisy, Ox-eye <sup>3</sup>	Chrysanthemum leucanthermum	2	2
Leadplant	Amorpha canescens	2	2
Lespedeza, Bicolor	Lespedeza	2	2
Milkweed, Common	Asclepias syriaca	2	
Yarrow, Gold <sup>3</sup>	Achillea filipendulina	2	2
Blackeyed Susan	Rudbeckia hirta	2	<del>2</del> <u>2.5</u>
Johnny Jump-ups	Viola cornuta	2	3
Sweetclover	Melilotus sp.	3	2
Alfalfa	Medicago sativa	3	3
Bundleflower, Illinois	Desmanthus illinoensis	3	3
Lespedeza, Sericea	Lespedeza c <b>unea</b> ta	3	3
Partridgepea	Cassia fasciculata	3	3
Sensitive vine	Mimosa strigillosa	3	3
Vetch, Crown	Coronilla varia	3	3
Violet, Wild	<i>Viola</i> spp.	3	3 _

<sup>1</sup> Height suppression or stand reduction may occur at maximum use rate. For legumes, at least three true leaves should be present before a postemergence application.

<sup>2</sup> Postemergence application should be made early post on the flowers to reduce injury and increase flower set. <sup>3</sup> Will not flower.

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) <u>Common Name</u>	Genus Species	PRE <sup>2</sup>	POST <sup>3</sup>
Blackeyed Susan	Rudbeckia hirta	Yes	Yes
Blanketflower	Gaillardia pulchella	No	Yes
Bundleflower, Illinois	Desmanthus illinoensis	>50% thinning	Yes
Clover, Crimson	Trifolium incarnatum	>50% thinning	Yes
Coneflower, Clasping	Dracopsis amplexicaulis	Yes	Yes
Coneflower, Upright Prairie	Ratibida columnifera	No	OK
Coneflower, Purple	Echinacea purpurea	Yes	Yes
Coreopsis, Dwarf Red Plains	Coreopsis tinctoria var. Gay Feather	OK stunting	OK stunting
Coreopsis, Plains	Coreopsis tinctoria	OK stunting	Yes
Coreopsis, Lance Leaved	Coreopsis lanceolata	25% thinning	Yes
Cornflower	Centaurea cyanus	No	OK 20% thinning
Cosmos, Garden	Cosmos bipinnatus	OK 10% thinning	OK stunting
Cosmos, Yellow	Cosmos sulphureus	Yes	Yes
Daisy, Ox-eye	Chrysanthemum leucanthermum	25% thinning	Yes
Daisy, Shasta	Chrysanthemum maximum	marginal-OK 20% thinning	Yes
Lupine, Perennial	Lupinu perennis	Yes	$\leq$ 50% thinning
Partridgepea	Cassia fasciculata	25% thinning	Yes
Poppy, California	Eschscholzia californica	Yes	25% injury stunting, – thinning
Yarrow, Gold	Achillea filipendulina	OK thinning	ОК

 $^1$  2 lbs ai/A = 2.4 qts of PENDULUM herbicide 3.3 EC or 3.3 lbs of PENDULUM herbicide WDG  $^2$  Preemergence at planting

<sup>3</sup> Postemergence to seedlings

Yes = no injury

No = results in no wildflower germination or unacceptable injury to seedling flowers.

OK = can be used if thinning and/or stunting can be tolerated or if establishment is threatened by weed competition.

Due to the diversity of species and varieties which exist in areas where wildflowers are grown, the response to PLATEAU DG may vary greatly. Careful testing on desirable species is recommended to determine if area-wide applications can be made. Try on a limited area to verify tolerance in a specific area.

The suitability of PLATEAU DG use on wildflower species not listed, should be determined by treating a small number of such wild flowers at an appropriate rate, not to exceed 3 water soluble packets per acre per year. Treated wildflowers should be evaluated 1 to 2 months following application for possible injury. THE USER ASSUMES RESPONSIBILITY FOR ANY DAMAGE OR OTHER LIABILITY.

#### SPECIAL WEED CONTROL

ALWAYS ADD AN ADJUVANT to PLATEAU DG (see "ADJUVANTS" section). Research has shown Methylated Seed Oil (MSO) surfactants provide PLATEAU DG with superior control of perennial weeds. This effect is not always observed and is most prevalent on waxy leaf species, perennials and weeds under stress conditions. For the weeds listed below, it is recommended to use a MSO for best results. The use of nonionic surfactants or silicone based surfactants may result in less than acceptable control.

Johnsongrass & Itchgrass: For best results, apply PLATEAU DG at the rate of 2 to 3 water soluble packets per acre after johnsongrass or itchgrass has reached 18 to 24 inches in height at the whorl. The addition of <u>ACCORD</u> or <u>ROUNDUP PRO</u> Accord or Roundup Pro at the rate of 8 to 16 oz per acre may improve control after culm elongation or in dense stands. Use higher herbicide rates as density increases. Larger grass than specified above can be controlled.

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**Dallisgrass, Bahiagrass, Vaseygrass, Paspalum spp., Smutgrass:** For best results, apply PLATEAU DG at the rate of 2.5 to 3 water soluble packets per acre postemergence after grass has reached 100% green-up. The addition of <u>ACCORD or ROUNDUP PRO</u> Accord or Roundup Pro at the rate of 12 to 16 oz per acre will improve efficacy. Use higher herbicide rates as target grass weed densities and/or maturity increase. The addition of PENDULUM herbicide will provide increased preemergence control of these grasses from seed.

Leafy Spurge: For best results, apply PLATEAU DG at 2 to 3 water soluble packets per acre in the late summer or fall fall, at least 2 weeks prior to a killing frost (late August through mid-October). Consecutive year applications will optimize long term control. PLATEAU DG at 3 water soluble packets per acre applied spring or fall, or 1 water soluble packet per acre in the spring following a 2 water soluble packets per acre fall treatment may result in excessive injury to cool season grasses in some areas. For best results, always use a methylated seed oil at 2 pints per acre. Two pints per acre of Nitrogen fertilizer (See Adjuvant Section) may also be added to the spray tank to increase leafy spurge control, however, this may increase injury to desired species of grasses and forbs. The use of nonionic and silicone based surfactants have resulted in little or no control of leafy spurge. Approximate dates for fall timing in North and South Dakota is late August through September; for Nebraska and Iowa is mid September through mid-October. This application should be made after good soil moisture is present but prior to a killing frost.

**Canada Thistle:** Spring applications of 3 water soluble packets per acre PLATEAU DG plus 2 pints of Methylated Seed Oil per acre applied postemergence to Canada thistle will provide control and/or suppression of above ground biomass. For best results, apply when thistle is in the rosette to early bolt. Applications made at flowering will provide knock down of existing foliage but may result in root sucker sprouting.

**Tall Fescue Control:** Tall fescue can be controlled by using PLATEAU DG at the rate of 3 water soluble packets per acre plus Methylated Seed Oil at 2 pints per acre. The addition of <u>Accord ACCORD</u>, glyphosate or <u>RoundupPro ROUNDUP PRO</u> and/or Nitrogen fertilizer (See "ADJUVANTS" Section) to the above mix will aid in control. Tall fescue must be actively growing for optimum control. If tall fescue has reached summer dormancy, control may be poor.

Fall applications of PLATEAU DG at 2 to 3 water soluble packets per acre plus a <u>ACCORD or ROUNDUP PRO</u> <u>Accord or Roundup Pro</u> at 24 to 64 oz/A will result in best control of existing tall fescue and new germinating seedlings. With spring applications of PLATEAU DG at 2.5 to 3 water soluble packets per acre, plus <u>ACCORD</u> <u>or ROUNDUP PRO</u> Accord or Roundup Pro at 32 to 64 oz/A, use higher rates for older, mature fescue stands and lower PLATEAU DG rates when planting forbs. When using 2 water soluble packets per acre of PLATEAU DG in the fall with <u>ACCORD or ROUNDUP PRO</u> Accord or Roundup Pro, it is recommended to apply 1 water soluble packet per acre PLATEAU DG in the spring at planting for annual weed and seedling fescue control. Burning the fescue stand, where permitted, the following spring, just prior to green-up, will aid in control and provide a better seedbed for planting. Mowing the fescue several times the summer before fall application, will weaken the fescue root system, making it more susceptible to herbicides. Always allow for at least 10 inches of regrowth, following the last mowing before spraying, as both PLATEAU DG and Roundup ROUNDUP products need foliage present for herbicide uptake and satisfactory control.

**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 by this and/or other herbicides ( $Oust^2 OUST^{TM}$ ) with the ALS/AHAS enzyme inhibiting mode of action. If naturally occurring ALS/AHAS resistant biotypes are present in an area, PLATEAU DG should be tank-mixed or applied sequentially with an appropriate registered herbicide having a different mode of action to ensure control.

#### SOFT RESIDUAL BAREGROUND WEED CONTROL

For sensitive areas and use around desirable vegetation PLATEAU DG at 3 water soluble packets per acre may be tank mixed with ARSENAL herbicide, PENDULUM herbicide, SAHARA<sup>®</sup> herbicide, Roundup Pro, Escort, Oust, Karmex<sup>2</sup>, ROUNDUP PRO, ESCORT, KARMEX<sup>TM</sup>, 2.4-D, diuron, ENDURANCE<sup>TM</sup> or other labeled products to provide total vegetation control. For other bareground areas PLATEAU DG herbicide at 3 water soluble packets per acre may be tank mixed with ARSENAL herbicide, SAHARA DG herbicide, KROVAR, OUST, TORDON<sup>TM</sup>, VANQUISH or other labeled products to provide total bareground weed control. For maximum weed control, use 2 pints per acre of methylated seed oil as an adjuvant. The addition of a nitrogen fertilizer may aid in weed control (see ADJUVANTS section for recommendation).

**Spot Treatments:** PLATEAU DG may be used to control weed encroachment in bareground or total vegetation control situations. To prepare the spray solution, thoroughly mix in each gallon of water 1 water soluble packet PLATEAU DG plus a methylated seed oil adjuvant.

#### **USE UNDER PAVED SURFACES**

Applications should be made to the soil surface only when final grade is established. DO NOT move soil following PLATEAU DG herbicide application. Apply PLATEAU DG herbicide in sufficient water to ensure thorough and uniform wetting of the soil surface, including the shoulder area. Add PLATEAU DG herbicide at a rate of 3 water soluble packets per acre to clean water in the spray tank during the filling operation. Agitate before spraying. If soil is not moist prior to treatment, incorporation of PLATEAU DG herbicide will improve control. PLATEAU DG herbicide can be incorporated into the soil to a depth of two inches using a rototiller or disc. Rainfall or irrigation totaling one inch is also sufficient to incorporate PLATEAU DG herbicide into the soil surface. DO NOT allow treated soil to wash or move into untreated area.

# USE OF PLATEAU DG ON FEDERAL CONSERVATION RESERVE PROGRAM (CRP) LAND

PLATEAU DG may be used on Federal Conservation Reserve Program (CRP) land at rates up to 1 water soluble packet per acre per year (see minimum plant-back intervals below). See appropriate section of this label for

specific instructions for the intended use. DO NOT use rates higher than 1 water soluble packet per acre per year on CRP land.

)	MINIMUM PLANT-BACK INTERVALS (months after PLATEAU DG application)					
4	9	18	26	40		
Bahiagrass	Field Corn	Barley	All crops not	Canola		
Rye	Snapbeans	Cotton*	otherwise listed	Potatoes		
Wheat	Southern Peas	Grain Sorghum		Red Table Beets		
	Soybeans	Oats		Sugar Beets		
1	Tobacco	Sweet Corn				

**\*For Arizona, New Mexico, Oklahoma, and Texas only:** Cotton may be planted 18 months after PLATEAU DG application in the states of Arizona, New Mexico, Oklahoma, and Texas unless drought conditions develop the year of PLATEAU DG application. DO NOT rotate to cotton at 18 months after PLATEAU DG application if less than 15 inches of rainfall or irrigation is received from the time of PLATEAU DG application through November 1 of the same year. If drought conditions develop the year of PLATEAU DG application, cotton may be planted 26 months after PLATEAU DG application.

Use of PLATEAU DG in accordance with label directions is expected to result in normal growth of plant-back 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, plant-back crop injury is always possible.

#### **TOLERANCE OF TREES AND BRUSH TO PLATEAU DG**

DO NOT use PLATEAU DG on nursery, orchard, ornamental plantings, new plantings or seedling trees. It is suggested that PLATEAU DG be tried on a limited basis to determine tolerance in your area. PLATEAU DG may be used at rates up to 3 water soluble packets per acre for general weed control in and around established trees on roadsides, prairies and other noncropland areas used for wildlife cover, erosion control, wind breaks, etc. Tree and brush species known to have acceptable tolerance to PLATEAU DG when applied under the canopy and/or to the foliage are listed below. Tolerance is based upon trees with a minimum of 2 inch DBH. Some species may exhibit tip chlorosis and minor necrosis. Foliar contact may increase injury to include defoliation and terminal death.

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Tolerant Brush and Tree Species to PLATEAU DG herbicide at 3 water soluble packets per Acre<sup>1</sup>

Common Name	Genus Species	Tolerance by Applicat	ion Method <sup>2</sup>
· )		Directed below foliage	To foliage
Apple (Var. Winesap) <sup>3</sup>	Malus sylvestris	Yes	NR
Ash, Blue	Fraxinus quadrangulata	Yes	NR
Ash, Green	Fraxinus pennsylvanica	Yes	<del>NR</del> <u>Yes<sup>5</sup></u>
Azalea	Rhododendron spp.	No	<u>No</u>
Basswood	<u>Tilia hetrophylla</u>	No	No
Boxelder	Acer negundo	Yes	Injury
Buckeye, Ohio	Aesculus glabra	Yes	NR
Cedar-juniper, Western	<u>Thuja plicata</u>	Yes	Yes
Cherry, Black <sup>3</sup>	Prunus serotina	Yes No	No
Cherry, Sweet <sup>3</sup>	Prunus avium	Yes	NR
Cottonwood	Populus deltoides	Yes	NR Yes <sup>5</sup>
Dogwood, Flowering	<u>Cornus spp.</u>	Yes	Yes
Dogwood, Grey	Cornus racemosa	Yes	Injury
Douglas Fir	<u>Pseudotsuga menziesii</u>	Yes	$\underline{Yes^4}$
Elm American	Ulmus americana	Yes	Yes
Elm, American Elm, Slippery	Ulmus rubra	Yes	Yes
Hackberry	Celtis occidentalis	Yes	Yes
Juniper. Chinese	Juniperus chinensis	Yes	Yes
Juniper, Western	Juniperus osteosperma	Yes	Yes
Linden, American	<u>Tilia americana</u>	No	No
Locust, Black	Robinia pseudoacacia	Yes	Yes
Locust, Honey	Gleditsia triacanthos	Yes	NR Yes
) Maple, Red	Acer rubrum	Yes	$\frac{NR}{NR}$ <u>Yes</u>
Maple, Sugar	Acer saccharum	Yes	NR Yes
Mulberry, Red	Morus rubra	Yes	NR
Mulberry, White	Morus alba	Yes	NR
Oak, Black	Quercus velutina		
Oak, Live	Quercus verunna Quercus virginiana	Yes	NR
Oak, Southern Red		<u>Yes</u>	Yes
Oak, White	Quercus falcata	Yes	NR
-	Quercus alba	Yes	NR
Osage Orange	Maclura pomifera	Yes	NR
Peach (Var. Elberta) <sup>3</sup> Photinia. Red Tip	Prunus persica	Yes	NR
	<u>Photinia fraseri</u> Binus contexta	Yes	$\frac{\text{Yes}}{\sqrt{4}}$
<u>Pine, Lodgepole</u> Pine, White <sup>4</sup>	<u>Pinus contorta</u>	Yes	$- \underline{Yes^4}$
· · · · · · · · · · · · · · · · · · ·	Pinus strobus	Yes	Yes
Pittosporum, Japanese	<u>Pittosporum tobira</u>	Yes	Yes
Poplar, Yellow (Tulip)	Liriodendron tulipfera	Yes	NR
Privet, Common	<u>Ligustrum vulgare</u>	Yes	Yes
Rabbitbrush species	Chrysothamnus spp.	Yes	Yes
Redbud	<u>Cercis canadenis</u>	Yes	Yes
Redcedar, Eastern	Juniperus virginiana	Yes	Yes
Rose, Multiflora	Rosa multiflora	Yes <sup>5</sup>	No
<u>Sage, Big</u>	Artemisia tridentata	Yes	Yes
Sage, Fringe	<u>Artemisis frigida</u>	Yes	Yes
Sage, Silver	<u>Artemisia cana</u>	Yes	Yes
) Sagebrush, Big	<u>Artemisia tridentata</u>	Yes	Yes
Sagebrush, Fringed	<u>Artemisia frigida</u>	Yes	Yes

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Serviceberry	<u>Amelanchier alnifolia</u>	Yes	<u>NR</u>
Snowberry, Western	<u>Symphoricarpos occidentalis</u>	Yes	Yes
Sugarberry	Celtis laevigata	Yes	Yes
Sweetgum	<u>Liquidambar styraciflua</u>	Yes	<u>Yes</u> 6
Sycamore	Plantanus occidentalis	Yes	No
Tree-of-Heaven	Ailanthus altissima	Yes	NR Yes
Walnut, American Black	Juglans nigra	Yes	No

- <sup>1</sup> Not intended for nursery, orchard, ornamental plantings, new plantings or seedling trees.
- 2 Yes = Tolerant

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- No = Not Tolerant, Severe injury or death
- NR = Not Recommended due to insufficient tolerance data
- <sup>3</sup> Not for use on ornamental or fruit bearing trees
- <sup>4</sup> Applications made just before or during candling may cause candle injury or death.
- <sup>5</sup> Possible defoliation and/or death. Some species may exhibit tip chlorosis and minor necrosis. If spray contacts foliage then defoliation and terminal death may occur.
- 6 Spring applications made from bud swell through 60 days after full leaf expansion may cause defoliation and terminal death.

# WEEDS CONTROLLED

# PLATEAU DG, 1 to 1.5 water soluble packet per acre

Common Name	Genus Species	<u>PRE1</u>	POST <sup>2</sup>	Annual/Biennial/Perennial <sup>3</sup>
BROADLEAVES				
Bedstraw, Catchweed	Galium aparine	х	4	SA
Beggarweed, Florida	Desmodium tortuosum	Х	2	SA
Buffalobur	Solanum rostratum		Х	SA
Cocklebur, Common	Xanthium strumarium	S	6	SA
Lambsquarters, Common	Chenopodium album	х	2	SA
Morningglory				
Entireleaf	Ipomoea hederacea	S	3	SA
Ivyleaf	Ipomoea hederacea	S	3	SA
Tall	Ipomoea purpurea	S	3	SA
Mustard, Wild	Brassica kaber	Х	Х	SA
Pigweed	Amaranthus sp.	Х	6	SA
Queen Anne's Lace	Daucus carota		4	В
Radish, Wild	Raphanus raphanistrum	S	4	SA
Yellow Rocket	Barbarea vulgaris	X	4	WA
Sicklepod	Senna obtusifolia	x	4	SA
Sida, Prickly	Sida spinosa	x	2	SA
Smartweed	2		-	
Ladysthumb	Polygonum persicaria	Х	Х	SA
Pennsylvania	Polygonum pensylvanicum	X	X	SA
Swamp	Polygonum coccineum	X	X	SA
) Starbur, Bristly	Acanthospermum hispidum	X	2	SA
Velvetleaf	Abutilon theophrasti	x	6	SA
	<i>r</i>		•	
GRASS WEEDS	_			
Brome, Downy	Bromus tectorum	Х	4	WA
Crabgrass	<b></b>			
Large (Hairy)	Digitaria sanguinalis	X	4	SA
Smooth	Digitaria ischaemum	X	4	SA
Foxtail, Giant	Setaria faberi	Х	6	SA
Green	<u>Setaria viridis</u>	$\frac{X}{X}$	<u>4</u> <u>4</u>	<u>SA</u>
Yellow	<u>Setaria glauca</u>	<u>X</u>		<u>SA</u>
Goosegrass	Elusine indica	S	2	_ SA
Johnsongrass (Seedling)	Sorghum halepense	X	12	SA
Panicum, Fall	Panicum dichotomiflorum	S	6	SA
Shattercane	Sorghum bicolor	X	12	SA
Stiltgrass, Japanese	<u>Microstegium vimineum</u>	- <u>X</u>	<u>4</u>	<u>A</u>
<u>SEDGES</u>				
Nutsedge				
Yellow	Cyperus esculentus	S	4S	Р
Purple	Cyperus rotundus	Š	4S	P
Sedge	Juncus sp.	Š	4S	A/P

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 IX = control, S = suppression in northern United States only

 <sup>2</sup>Maximum plant height in inches at time of application

 ) <sup>3</sup>Growth habit: A=Annual, SA=Summer Annual, WA=Winter Annual, B=Biennial P=Perennial



'e	ts per acr	le packet	luble	water so	DG, 2 to 3	PLATEAU
'e	ts per acr	le packet	luble	water so	DG, 2 to 3	PLATEAU

-		PLATEAU DG, 2 to 3 water			
	Common Name	Genus Species	PRE1	POST2	Annual/Biennial/Perennial <sup>3</sup>
7	BROADLEAVES:				
)	Anoda, Spurred	Anoda cristata	Х	6	SA
	Baby's Breath <sup>5</sup>	<u>Gypsophila paniculata</u>		X	<u>P</u>
	Bedstraw, Catchweed	Galium aparine	x	<u>X</u> X	Ā
	Bedstraw, Swamp	Galium spp.	Х	Х	Α
	Beggarweed, Florida	Desmodium tortuosum	Х	6	SA
	Bindweed, Field	Convolvulus arvensis		Х	P
	Buffalobur	Solanum rostratum		Х	SA
	Burclover	<i>Medicago</i> sp.		4	SA
	Chickweed, Common	Stellaria media	Х	6	SA
	Cocklebur, Common	Xanthium strumarium	Х	6	SA
	Cornsalad, Common	<u>Valerianella locusta</u>			SA
	Crownbeard, Golden	Verbisina encelioides		<u>X</u> 2	
	Dandelion	Taraxacum officinale			<u>P</u>
	Dock, Curly	Rumex crispus	x	<u>X</u> 6	B
	Fiddleneck	Amsinckia sp.		Х	SA
	Flax, Spurge	Thymelaea passerina	X		<u>A</u>
	Fleabane, Annual	Erigeron annuus		$\frac{X}{X}$	$\overline{\overline{A}}$
	Geranium, Carolina	Geranium carolinianum			WA/B
	Geranium, Cranesbill	Geranium maculatum	x	$\frac{X}{X}$	P
	Ground Cherry	Physalis heterophylla		Х	Р
	Hemlock, Poison	Conium maculatum	Х	6	В
	Henbit	Lamium amplexicaule	Х	3	WA/B
	Hoarv Cress	<u>Cardaria spp.</u>		Х	<u>P</u>
)	Houndstongue, Bristly	Cynoglossum officinale	x	$\frac{X}{X}$	B
	Indigo, Hairy	Indigofera hirsuta	Х	2	Р
	Jimsonweed	Datura stramonium	Х	6	SA
	Knapweed, Russian <sup>6</sup>	<u>Centaurea repens</u>		Х	<u>P</u>
	Knotweed, Prostrate	Polygonum aviculare	$\frac{\overline{X}}{\overline{X}}$	$\frac{\underline{X}}{\underline{X}}$	<u>Š</u>
	Kochia*	Kochia scoparia	x	3	SA
	Lambsquarters, Common	Chenopodium album	Х	3	SA
ì	Morningglory				
ĺ.	Cypressvine	Ipomoea quamoclit	Х	6	SA
	Entireleaf	Ipomoea hederacea	Х	6	SA
	Ivyleaf	Ipomoea hederacea	Х	6	SA
	Pitted	Ipomoea lacunosa	Х	6	– SA
	Smallflower	Jacquemontia tamnifolia	Х	6	SA
	Tall	Ipomoea purpurea	Х	6	SA
	Mustard, Wild	Brassica kaber	. X	X	SA
	Nightshade, Silverleaf	Solanum elaeagnifolium	Х	6	Р
	<u>Onion, Wild</u>	<u>Allium canadense</u>	<u>X</u>	<u>X</u>	<u>P</u>
	Pepperweed, Perennial	<u>Lepidium latifolium</u>		$\frac{X}{X}$	P P
	Pigweed	Amaranthus sp.	Х	6	SA
	Plantain, Narrowleaf	Plantago lanceolata	Х	Х	В
	Poinsettia, Wild	Euphorbia heterophylla	Х	6	SA
	Puncture Vine	Tribulus terrestris		Х	SA
	Purslane, Common	Portulaca oleracea	Х	4	SA
)	Pusley, Florida	Richardia scapra	Х	4	SA
~~	Queen Anne's Lace	Daucus carota	Х	Х	В

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	Ragweed				
	Common	Ambrosia artemisiifolia	X	3	SA
	Giant	Ambrosia trifida	S	6	SA
	Western	Ambrosia psilostachya		X	A/P
	Rocket, Yellow	Barbarea vulgaris	Х	Х	WA
	Senna, Coffee	Cassia occidentalis	Х	4	SA
	Sicklepod	Senna obtusifolia	Х	6	SA
	Sida, Prickly	Sida spinosa	Х	6	SA
	Smartweed	•			
	Ladysthumb	Polygonum persicaria	Х	Х	SA
	Pennsylvania	Polygonum pensylvanicum	Х	Х	SA
	Swamp	Polygonum coccineum	Х	Х	SA
	Spurge			<b>***</b>	
	Leafy	Euphorbia esula		FALL*	Р
	Spotted	Euphorbia maculata	X	4	SA
	Toothed	Euphorbia dentata	Х	4	SA
	Starbur, Bristly	Acanthospermum hispidum		6	SA
١	Starthistle, Yellow	Centaurea solstitialis		X	A
)	Sunflower	Helianthus annuus		18	SA
	<u>Tansymustard</u>	<u>Descurainia pinnata</u>	<u>X</u>	$\frac{X}{X}$	<u>WA</u>
	<u>Teasel. Common</u>	<u>Dipsacus fullonum</u>		X	<u>B</u>
	Thistle				
	Bull	Cirsium vulgare	S	Х	WA/B
	Canada	Cirsium arvense		S*	Р
	Musk	Carduus nutans	S	Х	В
٦ آ	Platt	Cirsium canescens	S	Х	Р
)	Russian*	Salsola iberica	Х	3	А
	Velvetleaf	Abutilon theophrasti	Х	Х	А
	Vervain, Blue	Verbena hastata		S	SA
	Vervain, prostrate	<u>Verbena bracteata</u>		<u>X</u>	<u>P</u>
	<u>Whitetop</u>	<u>Cardaria spp.</u>		$\frac{\underline{X}}{\underline{X}}$ $\frac{\underline{X}}{\underline{X}}$ $\underline{X}$	<u>Р</u> <u>Р</u> Р
	Willowherb	Epilobium spp.		<u>X</u>	<u>P</u>
	Woodsorrel, Yellow	Oxalis stricta	$\frac{1}{X}$	Х	Р
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Common Name	Genus Species	PREI	POST2	Annual/Biennial/Perennial3
GRASS				
Bahiagrass	Paspalum nutatum	S	X*	Р
Barley, Little	Hordeum pusillum	ñ	4 .	SA
Barley, Squirrel Tail	Hordeum jubatum		X	P
Barnyardgrass	Echinochloa crus-galli	х	6	SA
Cheat	Bromus secalinus	x	4	WA
Crabgrass	Digitaria sp.	x	6	SA
Crowfootgrass	Dactyloctenium aegyptiium	x	x	SA
Dallisgrass	Paspalum dilatatum	S	X*	P
Downy Brome	Bromus tectorum	x	x	WA
Dropseed, Tall	Sporobolus cryptandrus	S	X	A/P
Fescue, Tall	Festuca arundinacea	x	X*	P
Foxtail	i conce ai anemaceu	Λ	Λ	1
Giant	Setaria faberi	х	Х	SA
Green	Setaria viridis	X	X	SA
Knotroot	Setaria geniculatus	S	6	SA
Purple Robust	Setaria viridis	S	S	SA
Yellow	Setaria glauca	X	4	SA
Garlic, Wild	Allium vineale	X	X	P
Goosegrass	Elusine indica	X	35	r SA
Guineagrass	Panicum maximum	Л	X	
Itchgrass	Rottboellia cochinchinensis		X*	Р
Johnsongrass	Ronoberna cochinchinensis		A'	SA
) Seedling	Songhum halananga	х	v	S. A.
Rhizome	Sorghum halepense	А	X V*	SA
Panicum	Sorghum halepense		X*	Р
Fall	Panjaum diakatamiaamum	v	v	<b>C A</b>
Texas	Panicum dichotomiflorum Panicum texanum	X X	X X	SA Z
Ryegrass, Annual (Italian)				SA
· · · · · · · · · · · · · · · · · · ·	Lolium multiflorum	Х	X	SA
<u>Ryegrass, Perennial</u> Sandbur	<u>Lolium perenne</u>	 S	X XS	$\frac{P}{P}$
	Cenchrus sp.			A/P
Shattercane	Sorghum bicolor	X	X	SA
Signalgrass, Broadleaf	Brachiaria platyphylla	Х	X	SA
Smutgrass	Sporobolus indicus		X	P
Stiltgrass, Japanese	<u>Microstegium vimineum</u>	<u>X</u>	<u>X</u> 2	<u> </u>
Stinkgrass, Annual	Eragrostis cilianensis	Х		SA
Torpedograss	Panicum repens		Х	Р
Vaseygrass	Paspalum urvillei	•	Х	Р
Wild Oats	Avena fatua		Х	А
SEDGES/RUSHES				
Nutsedge				
Yellow	Cyperus esculentus	х	Х	Р
Purple	Cyperus escuremus Cyperus rotundus	X	X	r p
	Juncus sp.	S	4	1

# PLATEAU DG, 2 to 3 water soluble packets per acre

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 $) \frac{1}{2} X = \text{control, S} = \text{suppression}$ 2 Maximum plant height in inches at time of application

<sup>3</sup>Growth habit: A=Annual, SA=Summer Annual, WA=Winter Annual, B=Biennial P=Perennial <u>4Some species are tolerant and resistant biotypes are possible.</u>

<sup>5</sup>For annual control. The addition of 1-2 pints of 2,4-D will aid in burndown.

<sup>6</sup>For best control apply in the fall.

\*See SPECIAL WEED CONTROL section

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