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BEANS (DRY, LIMA, SNAP, CHICKPEAS, SOUTHERN PEAS (COWPEAS), SWEET LUPINES)

PROWL DG may be applied proplant incorporated in dry beans as follows:

PROWL DG . lone PROWL DG + Eptam PROWL DG + Dual 8E

PROWL DG may be applied preplant incorporated in lima beans, snap beans, chickpeas, and Southern peas (cowpeas) as follows:

PROWL DG alone

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PROWL DG + Dual dE

PROWL DG may be applied preemergence in sw.et lupines as follows:

PROLI . G alone

PROWL DG is not recommended for us or peat or muck soils.

## Preplant Incorporated Applications of PROWL DG Alone

Apply PROWL DG with ground equipment or a recraft immediately before planting or up to 60 days prior to planting. In prporate prior to planting and within 7 days of application. Refer to incorporation Instructions section (see table of contents for page number) for incorporation directions.

Broadcast Rate Per Acre of PROWL DG Preplant Incorporated in Dry Beans (including Sweet Lupines) Lima or "rap Beans, Chickpeas or Southern Peas (Cowpeas)

	PROWL DG (1bs)	PROWL DG (1bs)		
SOUTHERN STATES <sup>1</sup>		NCRTHERN STATES <sup>1</sup>		
Soil Texture		Up to 3% Organic Matter	More than 3% Organic Matter	
COARSE	0.85 to 1.25	0.85 to 1.7	1.7	
MEDIUM	1.25 to 1.7	1.25 to 2.1	2.1 to 2.5	
FINE	1.25 to 2.5	1.7 to 2.5	2.5	

<sup>1</sup> See map at end of this label for specific states Use the 2.5 lbs rate for heavy clay soils.

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# PROWL<sup>®</sup> DG herbicide

# FOR USE IN COTTON, EDIBLE BEANS, FIELD CORN, FORAGE LEGUMES, GARLIC, GRAIN SORGHUM, NONBEARING FRUIT, NUT CROPS, AND VINEYARDS; PEANUTS, POTATOES, RICE, SOYBEANS SUNFLOWERS, SWEET CORN, SWEET LUPINES, AND TOBACCO

# EPA Reg. No. 241-268

PROWL DG SHOULD BE USED IN ACCORDANCE WITH THE DIRECTIONS IN THIS BOOKLET AND IN SUPPLEMENTAL LABELS, FOR REGISTERED USES NOT INCLUDED IN THIS BOOKLET, AVAILABLE THROUGH LOCAL AGRICENTER<sup>™</sup> DEALERS. READ ALL DIRECTIONS CAREFULLY BEFORE USING.

# KEEP OUT OF REACH OF CHILDREN

CAUTION!/PREGAUCION!

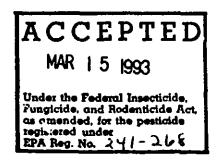
PRECAUCION AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

CYANAMID Logo

American Cyanamid Company Agricultural Products Division Crop Protection Chemical Department Wayne, NJ 07470 <sup>©</sup>1993

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Registered Trademark of American Cyanamid Compan<sup>\*</sup> Trademark of American Cyanamid Company



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#### Footnotes to Table of Contents

- <sup>1</sup> AAtrex is a leading brand of atrazine. AAtrex and AAtrex Nine-O are trademarks of Ciba-Geigy Corporation.
- <sup>2</sup> Bladex is a trademark of E.I. du Pont de Nemours and Company.
- <sup>3</sup> Extrazine II is a trademark of E.I. du Pont de Nemours and Company.
- <sup>4</sup> Marksman is a trademark of Sandoz Crop Protection Inc.
- <sup>5</sup> Bicep is a trademark of Ciba-Geigy Corporation.

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- <sup>6</sup> Lariat is a trademark of Monsanto Agricultural Products Company.
- 7 Bullet is a trademark of Monsanto Agricultural Products Company.
- <sup>8</sup> Dual is a trademark of Ciba-Geigy Corporation.
- <sup>9</sup> Lasso is a trademark of Monsanto Agricultural Products Company.
- 10 Banvel is a trademark of Sandoz Crop Protection Inc.
- 11 Cotoran is a trademark of Ciba-Geigy Corporation.
- 12 Karmex is a trademark of E.I. du Pont de Nemours and Company.
- 13 Zorial is a trademark of Sandoz Grop Protection Inc.
- 14 Sencor is a trademark of Farbenfabriken Bayer GmbH, Leverkusen, West Germany.

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- 15 Lexone is a trademark of E.I. du Pont de Nemours and Company.
- 16 Lorox is a trademark of E.I. du Pont de Nemours and Company.
- 17 Command is a trademark of FMC Corporation.
- 18 Canopy is a trademark of E.I. du Pont de Nemours and Company.
- 19 Preview is a trademark of E.I du Pont de Nemours and Company.
- $^{20}$  Arrosolo is a trademark of ICI Americas, Inc.
- <sup>21</sup> Eptam is a trademark of ICI Americas, Inc.
- 22 Vernam is a trademark of ICI Americas, Inc.

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Read all information on pages 1-19 before referring to specific crop use .

# PROWL<sup>®</sup> DG herbicide

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# FOR USE IN SELECTED CROPS

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(10 pounds contain 6 pounds of pendimethalin)

FOR CONTROL OF MOST ANNUAL GRASSES AND CERTAIN BROADLEAF WEEDS

## STATEMENT OF PRACTICAL TREATMENT

If in eyes: flush eyes with plenty of water. Call a physician if irritation persists

If on skin: wash with plenty of soap and water. Get medical attention if irritation persists.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTIONI

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

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish. DO NOT apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. DO NOT contaminate water when disposing of equipment washwaters.

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# 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. Crop 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 .uch risks shall be assumed by the user.

American Cyanamid 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 Cyan mid Company warrants only that the material contained herein conforms to the chemical d scription 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 "XPRESSLY 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 PROWL 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.

# 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 AMFRICAN 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 product.

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It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This label must be in the possession of the user at the time of pesticide application.

# General Worker Protection Statements

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 enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry 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. Written warnings must include the following information: WARNING. Area Treated with PROWL DG on (date of application). Do not enter without appr-priate protective clothing.

# STORAGE AND DISPOSAL

STORAGE:

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DO NOT STORE ABOVE 125°F. Store in original containers and keep closed. Store in a cool, dry place.

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

In case of spills, either collect for use or dispose of properly.

#### 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:

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

For Bulk and Mini-Bulk : Return empty container to point of purchase for repackaging or recycling.

Bag: Completely empty contents of bag into application equipment. Then dispose of empty bag in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### GENERAL INFORMATION

#### Special Precautions

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PROWL DG herbicide controls most annual grasses and certain broadleaf weeds as they germinate, but it will not control established weeds. Destroy existing weeds before applying PROWL DG (except as recommended in specific postemergence combination treatments). Unusually cold, excessively wet, or hot and dry conditions that delay germination or extend germination over a long period of time can reduce weed control.

Applied according to label directions and under normal growing conditions, PROWL DG or PROWL DG tank-mix combinations will not cause crop injury. Over-application can result in crop stand loss, crop injury, or soil residues.

Uneven application or improper soil incorporation can decrease weed control or cause crop injury. Soil incorporation deeper than recommended can reduce weed control.

Seedling diseases, cold weather, excessive moisture, deep planting, low or high soil pH, high soil salt concentration, or drought can weaken seedlings and plants and increase the possibility of crop damage from PROWL DG. Under these conditions, crop yields can be reduced.

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

# MIXING INSTRUCTIONS

1. Fill tank one-quarter to one-third full with clean water or liquid fertilizer and agitate. Sparge bar or jet spray agitation systems are recommended for DG applications. Prior to mixing PROWL DG or PROWL DG tank mixtures in liquid fertilizer, refer to appropriate label sections (see table of contents for page number) for recommended uses in liquid fertilizer, application instructions, and compatibility determinations.

ALWAYS PRE-SLURINY PROWL DG IN CLEAN WATER PRIOR TO ADDING TO LIQUID FERTILIZER SOLUTIONS.

2. PROWL DG Alone

When using PROWL DG alone, add PROWL DG to the partially-filled tank while agitating and then fill the remainder of the tank with water or liquid fertilizer. From the time of addition of PROWL DG, complete mixing will take approximately 10 minutes.

3. PROWL DG Tank Mixtures

Add PROWL DG to the partially filled tank while agitating. When PROWL DG is completely mixed (approximately 10 minutes), add the tank mixture ingredients in the order listed below. (For tank mixtures with Butyrac 200, Gramoxone Extra or Roundup see mixing instructions under Item (f) at the end of this section):

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(a) Wettable powder formulations

Make a slurry of the wettable powder in water (1 part WP + 2 parts water). Add the slurry slowly into the partially-filled tank while agitating. If tank mixing more than one wettable powder formulation, add the first one while agitating. Continue agitation and add second wettable powder only after complete mixing of the first wettable powder has occurred.

- (b) Flowable formulations Premix one part of the flowable and two parts water and add this diluted mixture into the partially-filled tank while agitating.
- (c) Water soluble concentrate formulations Premix one part of the water soluble concentrate to two parts water and add this to the partially-filled tank while agitating.
- (d) Dry flowable/water dispersible granule formulations Premix one part of the granules to two parts water and add these to the partially-filled tank while agitating.
- (e) Emulsifiable concentrate formulations Premix one part of the emulsifiable concentrate to two parts water and add this to the partially-filled tank while agitating.
- (f) NOTE: For tank mixes including Butyrac, Gramoxone Extra or Roundup After complete mixing of PROWL DG, continue filling the sprayer with water and add Butyrac or Gramoxone Extra or Roundup near the end of the filling process.

If Gramoxone Extra is included in the tank mixture, add 8 oz. of Ortho X-77 spreader or similar non-ionic surfactant per 100 gallons of total spray mixture as the last ingredient in the tank.

Fill the remainder of the tank with water while agitating.

- DO NOT apply PROWL DG on dry bulk fertilizer.
  - 4. MAINTAIN CONTINUOUS AGITATION WHILE ADDING HERBICIDES AND UNTIL SPRAYING IS COMPLETED. If the spray mixture is allowed to settle for any period of time, thorough agitation is essential to resuspend the mixture before spraying is resumed. Continue agitation while spraying.

# FORMULATION CONVERSION TABLES

The rate tables in this label for PROWL DG tank mixtures with atrazine, Bladex, prometryn; Sencor/Lexone and Lorox list rates for one formulation of the respective herbicides. Use the following conversion tables to determine rates when using other formulations.

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Rate of Bladex, Atrazine, or prometryn 80W	Rate of Bladex, Atrazine, or prometryn 4L	Rate of Bladex or Atrazine 90DF
0.50 lbs.	0.8 pts.	0.45 lbs:
0.75 lbs.	1.2 pts.	0.67 lbs.•
1.00 lbs.	1.6 pts.	0.89 lbs
1.25 lbs.	2.0 pts.	1.11 lbs.
1.50 lbs.	2.4 pts.	1.33 lbs.
1.75 lbs.	2.8 pts.	1.56 lbs.'
2.00 lbs.	3.2 pts.	1.78 lbs.
2.50 lbs.	4.0 pts.	2.22 lbs.*
3.00 lbs.	4.8 pts.	2.67 lbs. 4

Atrazine, Bladex, Prometryn Conversion Table

# Sencor/Lexone Conversion Table

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Rate of Sencor/Lexone DF	Rate of Sencor/Lexone 50WP	Rate of Sencor 4F/Lexone 4L
0.33 lb.	0,50 lb.	9.50 pt.
0.50 1Ь.	0.75 lb.	0.75 pt.
0.67 lb.	1.00 lb.	1.00 pt.

#### Lorox Conversion Table

Rate of Lorox L	Rate of Lorox 50W	
 1.0 pt.	1.0 lb.	<u> </u>
1.5 pts.	1.5 lbs.	
2.0 pts.	2.0 lbs.	
2.5 pts.	2.5 lbs.	

# GENERAL APPLICATION INSTRUCTIONS

Uniformly apply recommended PROWL DG or PROWL DG tank mixture treatments in 10 or more gallons of water or 20 or more gallons of liquid fertilizer per acre with ground equipment. Refer to Applications with Liquid Fertilizers section (see table of contents for page number) for liquid fertilizer recommended uses, application instructions and compatibility determinations. Apply in 5 or more gallons of water per acre with aircraft. Refer to Spraying Instructions section (see table of contents for page number) for spraying directions.

# CULTURAL PRACTICES FOLLOWING APPLICATION

Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control. A PROWL DG treatment may be followed by any registered herbicide to control weeds not listed on the PROWL DG label.

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Follow all recommendations in specific crop sections of this label regarding rates per acre of PROWL DG and herbicides used in combination with PROWL DG. When a rate range is recommended, unless other directions are given in a crop section, the high rate of the range should be used if heavy weed populations are anticipated or if extensive crop residues were present prior to seedbed preparation.

# SOIL TEXTURES

The rate tables for recommended PROWL DG treatments for each crop refer to coarse, medium, and fine soils. Soil type should be determined since rates for PROWL DG treatments will change with soil texture. The following table lists soil types for coarse, medium and fine soils:

COARSE	MEDIUM	<u>Fine</u>
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sandy clay loams\*

sands loamy sands sandy loams

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sandy clays loams silt loams silts silty clay loams\* silty clays clay loams clays

\*Sometimes considered transitional soils and may be classified as either medium or fine textured soils.

PROWL DG is not recommended for use on peat or muck soils.

## CHEMIGATION

PROWL DG may be applied through sprinkler irrigation systems in cotton, field corn, grain sorghum, peanuts, potatoes, soybe ns and sunflowers. Follow all label recommendations for these crops regarding rates per acre, timing of application, special instructions, and precautions.

Apply this product only through a sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

The system must be properly calibrated (with water only) to ensure that the amount of PROWL DG applied corresponds to the recom ended rate.

If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must be free of leaks and clogged nozzles.

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#### RATES

The pesticide must be supplied continuour y for the duration of the aqueous application. An uneven application may cause injury to the crop or poor weed control.

Agitation must be maintained in the nurse tank.

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The sprinkler-chemigation system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick closing check value to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

The irrigation line or water on up must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pescicide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Apply PROWL DG in 1/2 to 3/4 inches of water during the first sprinkler set. When app<sup>\*\*</sup>stion is complete, flush the system with water.

Chemigation Systems Connected to Public Water Systems

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

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The pesticide injection pipeline must contain a functional, automatic, quick-closing check value to prevent the flow of fluid b.  $\psi$  toward the injection pump.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

#### WEEDS CONTROLLED

The following grass and broadleaf weeds are controlled by treatments of PROWL DG at the rates recommended for soil texture in the respective crop section:

# GRASSES CONTROLLED

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Barnyardgrass (Echinochloa crus-galli) Crabgrass (Digitaria spp.) Crowfootgrass (Dactyloctenium aegyptium) Fall panicum (Panicum dichotomiflorum) Field sandbur (Cenchrus incertus) Foxtail (giant) (Setaria faberi) Foxtail (green) (Pigeongrass) (Setaria viridis) Foxtail (yellow) (Setaria glauca) Goosegrass (Eleusine indica) Johnsongrass (from seed) (Sorghum halepense) Signalgrass (Brachiaria platyphylla) Texas panicum (Buffalograss) (Panicum texanum) Witchgrass (Panicum capillare)

BROADLEAF WEEDS CONTROLLED

Carpetweed (Mollugo verticillata) Florida pusley (Richardia scabra) Kochia (Kochia scoparia) Lambsquarters (Chenopodium album) Pigweed (Amaranthus spp.) Purslane (Portulaca oleracea) Spurge, annual (Euphorbia spp.)

PROWL DG will aid in the control of and reduce competition from:

Pennsylvania smartweed ( lygonum pensylvanicum). Velvetleaf (Buttonweed) (Abutilon theophrasti)

PROWL DG will provide control or aid in the control of and reduce competition from the following hard-to-control weeds (refer to appropriate section for use instructions; see table of contents for page number):

Itchgrass (Rottboellia exaltats), (soybears) Red rice (Oryza sativa), (soybeans) Rhizome johnsongrass (Sorghum halepense), (cotton), (soybeans) 130+104

Shattercane (Sorghum bicolor), (soybeans), (field corn), (grain sorghum) Wild proso millet (Panicum miliaceum), (field and sweet corn), (grain sorghum) Woolly cupgrass (Briochlog villoss), (soybeans):

When applied preemergence in corn, PROWL DG will control the following weeds in addition to those listed above:

Pennsylvania smartweed (Polygonum pensylvanicum) Velvetlesf (Buttonweed) (Abutilon theophrasti) Woolly cupgrass (Eriochloa villosa)

When applied as directed in potatoes, PROWL DG will control the following weeds in addition to those listed above:

Stinging nettle (Urtica dioica).

# SPRAYING INSTRUCTIONS

GROUND APPLICATIONS

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Use a properly calibrated low-pressure (20 to 40 psi) sprayer equipped with 8002 or larger size Tee-Jet or comparable flat fan nozzles to achieve uniform spray distribution and minimize drift. Keep the bypass line on or near the bottom of the tank to minimize foaming. Nozzle screens must be no finer than 50 mesh. DO NOT apply PROWL DG during periods of gusty winds. As with all herbicides, windy conditions can cause uneven applications.

) BROADCAST TREATMENT - Uniformly apply in 10 or more gallons of water or 20 or more gallons of liquid fertilizer as specified in the appropriate sections of this booklet.

FAND TREATMENT - Uniformly apply the broadcast equivalent rate and volume per acre. To determine these:

Band width <u>in inches</u> Row Width in inches	x	Broadcast RATE per acre	-	Band RATE per acre
Band wi.th <u>in inches</u> Row Width in inches	x	Broadcast VOLUME per acre	-	Band VOLUME per acre

#### AERIAL APPLICATIONS

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Uniformly apply in 5 or more gallons of water per acre. Exercise caution to minimize drift. DO NOT apply during periods of gusty winds or when wind conditions favor drifting. Spray drift can cause injury to sensitive crops. It is recommended that a flagman or an automatic mechanical flagging unit on the aircraft be used to avoid overlapping and possibl... crop injury.

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#### INCORPORATION INSTRUCTIONS

Break up clods before a preplant incorporated application.

1. Flat-planted crop .

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PROWL DG is to be incorporated prior to planting and within 7 days of application. When PROWL DG is applied to flat land that will not be bedded, mechanical incorporation should be into the top 1 to 2 inchese of soil. Mechanical incorporation of PROWL DG into the top 1 to 2 inchese of soil can be achieved by the following:

- (a) Disk harrow set to cut 3 to 4 inches deep and operated in two different directions at 4 to 6 mph.
- (b) PTO-driven equipment (tillers, cultivators, hoes) set to cut 2 inches deep and operated one time at 4 mph or less.
- (c) Rolling cultivator set to cut 2 to 3 inches deep and operated two times at 6 to 8 mph. Use only on coarse and medium textured soils.
- (d) Field cultivator must have 3 or 4 rows of sweeps, spaced at intervals of 7 inches or less and staggered so that no soil is left unturned. Do not use chisel points. Set implement to cut 3 inches deep and make two passes at more than 5 mph. The second pass should be made at an angle to the first.
- (e) LELY-ROTERRA<sup>1</sup> set and operated according to the manufacturer's directions to thoroughly incorporate 'ROWL DG to a depth of 1 to 2 inches.
- (f) Do-All set and operated according to the manufacturer's directions to thoroughly incorporate PROWL DG to a depth of 1 to 2 inches.
- NOTE: PROWL DG can be incorporated in a single pass when the soil is of good tilth with moderate moisture and relatively free of clods and trash. Implements must be properly set up to thoroughly incorporate PROWL DG into the top 1 to ? inches of soil. Recommended implements include: (1) C-shank or S-shank field cultivators equipped with flextine drag or rolling basket attachment and (2) the combination disk/field cultivator implement equipped with flextine drag or rolling basket attachment. Field cultivators must have 3 or 4 rows of sweeps, spaced at intervals of 7 inches or less and staggered so that no soil is left unturned. Implements must be operated at 6 to 8 miles per hour and set to cut 3 to 4 inches deep.

<sup>1</sup>LELY-ROTERRA is a trademark of Lely.

# 2. Bedded crop '- Application Over Beds

PROWL DG is to be incorporated prior to planting and within 7 days of application. When PROWL DG is applied over beds, mechanical incorporation should be into the top  $1 \cdot to 2$  inches. of soil. Mechanical incorporation of PROWL DG into the top 1 to 2 inches. of soil can be achieved by the following:

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- (a) Rolling cultivator set to cut 2 to 3 inches deep and operated two times at 6 to 8 mph. Use only on coarse and medium textured soils.
- (b) PTO-driven equipment (tillers, cultivators, hoes) set to cut 2 inches deep and operated one time at 4 mph or less.
- (c) Bed conditioner set to cut 2 to 3 inches deep and operated one time at 4 to 6 mph.

During planting, or if beds must be reshaped prior to planting, avoid tillage that will bri untreated soil to the surface or expose untreated soil in the seedbed or in the furrow.

3. Bedded Crop - Application Prior to Bedding

PROWL DG is to be incorporated prior to planting and within 7 days of application. When PROWL DG is applied to flat land prior to bedding, mechanical incorporation should be of sufficient depth so that bedding does not bring up untreated soil. Mechanical incorporation of PROWL DG can be achieved by the following:

- (a) Disk harrow set to cut 4 to 6 inches deep and operated in two different directions at 4 to 6 mph.
- (b) PTO-driven equipment (tillers, cultivators, hoes) set to cut 3 to 4 inches deep and operated one time at 4 mph or less.

During planting, or if beds must be reshaped prior to planting, avoid tillage that will bring untreated soil to the surface or expose untreated soil on the seedbed or in the furrow.

#### APPLICATIONS WITH LIQUID FERTILIZERS

# GENERAL

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PROWL DG alone and preemergence applications of PROWL DG plus atrazine, Bladex, Marksman, Bicep, Lariat, Bullet, Dual 8E or Lasso can be applied in liquid fertilizers, as can preplant incorporated or preemergence applications of PROWL DG plus SCEPTER, PURSUIT, Canopy or Preview. PROWL DG plus Cotoran can be applied in nitrogen solutions.

Follow all PROWL DG label recommendations regarding registered crops, rates per acre, mixing instructions, timing of application, special instructions and precautions. Apply treatments in 20 or move gallons of liquid fertilizer per acre with ground equipment. DO NOT apply PROWL DG postemergence in liquid fertilizers.

All individual state regulations relating to fluid fertilizer mixing, registration, labeling and application are the responsibility of the individual and/or company selling the PROWL DG/14 quid fertilizer mixture.

# LIQUID FERTILIZER COMPATIBILITY DETERMINATIONS

If liquid fertilizer/herbicide(s) mixture separates in the spray tank, clogged equipment and uneven application can result, which can cause poor weed control and crop injury. Always predetermine the compatibility of PROWL DG alone or with other herbicides in the specific liquid fertilizer to be used according to the following directions:

- 1. Add 1 pint of fertilizer to each of 2 one-quart jars.
- 2. Add 1/2 teaspoon of adjuvant\* to one i=r.
- 3. (a) When using PROWL DG alone, add to each jar of liquid rertilizer the correct amount of PROWI DG pre-slurried in 3 oz. of water as specified in the following table.
  - (b) When using PROWL DG tank mixtures, first add the specified quantity or PROWL DG (see table); and then add the correct amount of the other product.
- 4. Close both jars and shake thoroughly for 10 seconds. Let them stand for 5 minutes and then observe the results. Look for signs of separation, an oily layer or globules, sludge, flakes or other large precipitates. Pour the contents of the jar through a 50-mesh screen and look for material collecting on the screens if it appears questionable.
- 5. Determine compatibility.

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- (a) If the herbicide(s) and liquid fertilizer mixture without adjuvant does not separate, use this mixture in your spray tank.
- (b) If the mixture with adjuvant does not separate, but the one without adjuvant separates, use the adjuvant mixture in your spray tank. Add the adjuvant to the liquid fertilizer as directed on the manufacturer's label.
- (c) If either mixture separates, but mixes readily with shaking, and pour readily through a 50-mesh screen, the mixture can be used providing good agitation is maintained in the spray tank.
- (d) If separation of the mixture occurs and agitation and/or adjuvant does not correct this problem, DO NOT use PROWL DG with that specific liquid fertilizer.
- \* Compex-Kalo Laboratories Incorporated, Kansas City, MO; Sponto 168-D-Witco Chemical Company, Houston, TX; Unite-Hopkins Agricultural Chemical Company, Madison, WI; or other comparable adjuvants.

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# Teaspoons of Specified Herbicide to be Added to 1 Pint of Liquid Fertilizer Solution\*\*

Gallons of Liquid Fertilizer to be Applied Per Acre	PROWL DG or Bladex 4L or Atrazina 80W	AAtrex Nine-O or Atrazine 4L or Marcsman or Dual 8E	Extrazina II 4L or DF	Bullet or Lariat or Bladex 80W	Bladex 90DF or Cotoran or Bicep 61 or Lasso
20	3	2	1 1/4	4 1/2	4
30	2	1 1/2	3/4	3	2 3/4
40	1 1/2	1	1/2	2 1/4	2
	Gallons of Liquid Fertilizer to be Applied Per Acre	Cenopy or Preview	SCEPTER	PURSUIT	
	20	1	1/2	1/4	
·	30	3/4	1/3	1/6	
	40	1/2	1/4	1/8	

\*\* Based on highest per acre rate used ... the booklet for each product.

## FOLLOW CROP RESTRICTIONS

- 1. Land treated with PROWL DG may be planted to other crops the following year. See restrictions below for sugar beets, red beets, and spinach.
- 2. Winter wheat, winter barley

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Wir er wheat and winter barley may be planted in the fall 120 days after a . DG application in any registered crop. Winter wheat and winter ey may be planted in the fall 90 days after a PROWL DG CULTI-SPRAY application in irrigated field corn or grain sorghum. The treated crop must be grown to maturity and harvested before planting wheat or barley. In areas where irrigation is nucessary to produce the crop treated with PROWL DG, DO NOT plant winter wheat or winter barley as follow crops if crop failure/destruction occurs and is fallowed during the summer as crop injury may result.

It is not recommended that winter wheat or winter barley, be planted as follow crops in treated land if the follow crop is planted using no-tillage procedures as crop injury may result.

DO NOT plant winter wheat or winter barley as follow crops in treated land if higher PROWL DG rates were used for rhizome johnsongrass or red rice control or itchgrass suppression in soybeans, or for weed control in no-till cotton or rhizome johnsongrass control in cotton.

DO NOT feed forage or graze livestock for 75 days after planting wheat or barley in treated land.

3. Sugar beets, red beets, spinach

To avoid crop injury, do not plant sugar beets, red beets or spinach for 12 months following a PROWL DG application. Land should be plowed to a depth of 12 inches prior to planting these crops.

4. When PRGWL DG is used in tank-mix or sequential combinations, refer to labels of other herbicides for additional follow crop restrictions.

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

Preemergence (surface	
treatment after planting)	Early Postemergence
PROWL DG + atrazine	PROWL DG + atrazine
PROWL DG + Bl ex	PROWL DG + Bladex 80W or 90DF
PROWL DG + atrazine + Bladex	PROWL DG + atrazine + Bladex 80W
PROWL DG + Extrazine II*	or 90DF
PROWL DG alone	PROWL DG + Extrazine II DF*
PROWL DG + Banvel	PROWL DG + Marksman
PROWL DG + Marksman	PROWL DG + Marksman + Bladex 80W or
PROWL DG + Marksman + Bladex	90DF
PROWL DG + Bicep	PROWL DG + Bicep
<pre>     PROWL DG + Lariat or Bullet </pre>	PROWL DG + Lariat or Bullet
PROWL DG + Dual 8E	PROWL DG + Lasso
PROWL DG + Lasso	

CORN (Field, Sweet)

PROWL DG may be applied in field corn as follows:

DO NOT INCORPORATE

PROWL DG may be applied in sweet corn (all varieties) in Arizona, California, Idaho, Montana, Oregon, Texas and Washington and (processing varieties ONLY) in Illinois, Minnesota, New York, and Wisconsin as follows:

Preemergence (surface treatment after planting) PROWL DG + atrazine PROWL DG + Bladex PROWL DG + atrazine + Bladex PROWL DG + atrazine II\* PROWL DG + Extrazine II\* PROWL DG alone PROWL DG + Bicep PROWL DG + Lariat or Bullet FROWL DG + Dual 8E PROWL DG + Lasso

Early Postemergence\*\* PROWL DG + atrazine PROWL DG + Bladex 80W or 90DF PROWL DG + atrazine + Bladex 80W or 90DF PROWL DG + Extrazine II DF<sup>‡</sup> PROWL DG + Bicep PROWL DG + Lariat or Bullet PROWL DG + Lasso

\*DO NOT use in California.

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\*\*Do not apply postemergence to sweet corn in Arizona, California, Idaho, Montana, Dregon, Texas and Washington.

# DO NOT INCORPORATE

Refer to "CULTI-SPRAY" section (see table of contents for page number) for instructions on CULTI-SPRAY applications (4 inch stage to layby treatment) in field corn.

PROWL DG is not recommended for use on peat or muck soils.

# GENERAL INSTRUCTIONS

With the exception of minimum tillage systems (see below) plant into a seed bed that is firm and free of clods and trash. Use only where adequate tillage is practiced to provide good soil coverage of the corn seed. Plant corn AT LEAST 1 1/2 inches deep to ensure good seed coverage.

PROWL DG or PROWL DG tank-mix combination treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application. If cultivation is necessary because of soil crusting, soil compaction or weed germination before rain or irrigation, use shallow tillage (such as rotary hoe), and make certain corn seeds are below the tilled area. For maximum effectiveness, wait at least 7-10 days before cultivating early postemergence treatments.

# Field Corn Grown in Minimum Tillage Systems

PROWL DG alone and PROWL DG tank mixtures with atrazine, Bladex, atrazine plus Bladex, Extrazine II, Bicep, Dual, Lasso, Lariat or Bullet, Marksman or Marksman plus Bladex may be used in field corn in minimum tillage systems where adequate tillage is practiced to provide a seedbed withoutliving vegetation which allows for good see' coverage. Plant corn AT LEAST 1 1/2 inches deep to ensure good seed coverage. The use of no-till planters in minimum tillage corn under conditions which do not allow good soil coverage of the corn seed can result in reduced crop stand or injury if PROWL DG contacts the germinating corn seed. Check equipment to ensure good seed coverage. Apply in 20 or more gallons of spray solution per acre.

Trademark of American Cyanamid Company

# Applications of PROWL DG Alone

Apply PROWL DG alone preemergence (surface treatment), after planting, but before weeds and crop emerge. Apply with ground equipment or aircraft.

DO NOT INCORPORATE or serious corn injury can result. DO NOT apply PROWL DG alore postemergence.

#### Weeds Controlled

When applied as directed, PROWL DG preemergence treatments in corn will control the following weeds in addition to the weeds listed previously as being controlled by PROWL DG:

Pennsylvania smartweed (Polygonum pensylvanicum) Velvetleaf (Buttonweed) (Abutilon theophrasti) Woolly cupgrass (Eriochloa villosa)

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PROWL DG will aid in the control of and reduce competition from wild proso millet (*Panicum miliaceum*).

Broadcast Rate per Acre of PROWL DG Alone Preemergence in Corn

(PROWL DG may be applied in sweet corn (all varieties) in AZ, CA, ID, MT, OR, TX, and WA and (processing varieties only) in IL, MN, NY, WI)

Soil Texture	PROWL DG (1bs) Less than 1.5% Organic Matter	PROWL DG (1bs) 1.5 to 3.0% Organic Matter	PROWL DG (1bs) More than 3.0% Organic Matter
COARSE	1.25 to 1.70	2.50	2.50
MEDIUM	1.70 to 2.50	2.50	2.50 to 3.40
FINE	1.70 to 2.50	2.50 to 3.40	3.40

NOTE: When PROWL DG alone is used, if corn loss occurs due to weather conditions, corn, cotton or soybeans can be replanted the same year without adverse effects. If corn is replanted, seeding depth must be below retilled area.

**RESTRICTIONS FOR EARLY POSTEMERGENCE APPLICATIONS** 

DO NOT apply PROWL DG alone postemergence.

To avoid serious crop injury with early postemergence applications observe the following restrictions:

DO NOT apply following PROWL DG preemergence treatments.

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DO NOT INCORPORATE.

DO NOT apply in liquid fertilizer.

DO NOT apply PROWL DG plus Bladex 80W or 90DF or PROWL DG plus Extrazine if 5th corn leaf is visible.

DO NOT use Bladex 4L or Extrazine II 4L postemergence on corn.

DO NOT apply PROWL DG plus Bladex 80W or 90DF or PROWL DG plus Extrazine II DF under extended cold (below 50°F), wet weather conditions, or when cold, wet conditions are predicted.

PROWL DG Plus Atrazine or PROWL DG Plus Bladex or PROWL DG Plus Atrazine Plus Bladex or PROWL DG Plus Extrazine II

Consult State and County Extension Service to determine allowed atrazine use rates.

#### PREEMERGENCE (surface treatment after planting)

Apply PROWL DG plus atrazine or PROWL DG plus Bladex or PROWL DG plus atrazine plus Bladex, or PROWL DG plus Extrazine II preemergence, after planting, but before weeds or crop emerge. Apply in water or liquid fertilizer with ground equipment or in water with aircraft. Refer to Application with Liquid Fertilizers section (see table of contents for page number) for liquid fertilizer compatibility determinations. DO NOT APPLY BLADEX OR EXTRAZINE II BY AIR.

Consult the Extrazine II leaflet label for use rates in corn and observe all precautions and restrictions. Refer to the Applications of PROWL DG Alone section for use rates of PROWL DG.

DO NOT INCORPORATE or serious corn injury can result.

EARLY POSTEMERGENCE

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Apply PROWL DG plus atrazine or PROWL DG plus Bladex 80W or 90DF or PROWL DG plus atrazine plus Bladex 80W or 90DF or PROWL DG plus Extruzine II DF, after corn emergence but no later than when corn is in the 4-leaf stage of growth and when weeds are no more than 1 inch tall except for Texas panicum which must be no larger than the 2 leaf stage. Apply with ground equipment or aircraft in water ONLY. For ground applications, flat fan nozzles are preferred. DO NOT APPLY BLADEX OR EXTRAZINE II BY AIR.

Consult the Extrazine II DF leaflet label for use rates in corn and observe all precautions and restrictions. Refer to the Applications of PROWL DG Alone section for use rates of PROWL DG.

# Weeds Controlled

When applied as directed, PROWL DG plus atrazine and/or Biadex or PROWL DG plus Extrazine II will control the following weeds in addition to the weeds controlled by PROWL DG.

> Black nightshade (Solanum nigrum) Common ragweed (Ambrosia artemisiifolia) Mustard (Irassica spp.) Venice mallow (Hibiscus trionum) Smartweed (Polygonum pensylvanicum) Velvetleaf (Buttonweed) (Abutilon theophrasti) Woolly cupgrass (Eriochloa villosa)

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PROVIL DG plus atrazine and/or Bladex or PROWL DG plus Extrazine II will aid in the contro? of and reduce competition from:

> Cocklebur (Xanthium strumarium) Annual morningglory (Ipomoes spp.) .'imsonweed (Datura stramonium) Shattercane (Sorghum bicolor) Wild proso millet\* (see below) (Panicum miliaceum)

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"Effective management of wild proso millet can be achieved with a program involving herbicide application: and mechanical cultivation to eliminate weed escapes. PROWL DG early postemergence (no later than when corn is in the 4-leaf stage) treatments have provided the most consistent suppression of wild proso millet because: (1) early postemergence treatments provide a burn-down of the initial germination flush of wild proso millet and (2) early postemergence treatments provide residual activity later into the growing sesson. Additional wild proso millet reduction can be obtained when PROWL DG treatments follow effective registered preplant incorporated herbicide treatments.

Broadcast Rate per Acre of PROWL DG Plus Atrazine Preemergence and Early Postemergence\* Tank Mixtures in Corn

(PROWL DG may be applied in sweet corn in (all varieties) AZ, CA, ID, MT, OR, TX and WA, and (processing varieties only) in IL, MN, NY, and WI)

Soil Texture	Less than 1.5% Organic Matter PROWL DG + AAtrex Nine-0 <sup>1</sup>	1.5 to 3.0% Organic Matter PROWL DG + AAtrex Nine-O	More than 3.0% Organic Matter PROWL DG + AAtrex Nine-0
COARSE	1.25 to 1.7 lbs +	1.7 lbs +	2.5 lbs +
	1.11 lbs	1.11 lbs	1.ll lbs
MEDIUM	1.7 lbs + 1.11	2.5 lbs + 1.11	2.5 <sup>1</sup> bs ÷ 1.33
	to 1.33 lbs	to 1.33 lbs	to 1.78 lbs
FINE	1.7 lbs + 1.11	2.5 lbs + 1.33	2.5 lbs + 1.33
	to 1.33 lbs	to 1.78 lbs	to 1.78 lbs

<sup>1</sup> When using atrazine 4L or 80W use equivalent rates. One quart of atrazine 4L equals 1.11 lbs of AAtrex Nine-O. One pound of atrazine 80W equals 0.89 lbs. of AAtrex Nine-O. See conversion chart in Formulation Conversion Tables section (see table of contents for page number).

\*DO NOT apply postemergence to sweet corn in AZ, CA, ID, MT, OR, TX and WA.

NOTE: If corn crop loss occurs due to weather conditions and corn is replanted, seeding depth must be below retilled area. Follow cropping restrictions on atrazine labels. Observe all precautions and limitations on atrazine labels. Broadcast Rate per Acre of PROWL DG Plus Bladex Preemergence and Early Postemergence\* Tank Mixtures in Corn

PROWL DG may be applied in sweet corn in (all variation) AZ, CA, ID, MT, OR, TX and WA, and (processing variaties only) in IL, MN, NY, and WI

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Soil Texture	Less than 1.5% Organic Matter FROWL DG + Bladex 90DF1	1.5 to 3.0% Organic Matter PROWL DG + Bladex 90DP1	More than 3.0% Organic Matter PROWL DG + Bladex 90DF1
COARSE <sup>2</sup>	1.25 to 1.7 lbs +	1.7 lbs +	2.5 lbs +
	1.11 to 1.33 lbs	1.78 lbs	1.78 to 2.22 lbs
MEDIUM	1.7 lbs +	2.5 lbs +	2.5 lbs +
	1.11 to 1.33 lbs	1.78 to 2.22 lbs	2.22 to 2.67 lbs <sup>3</sup>
FINE	1.7 lbs +	2.5 lbs +	2.5 lbs +
	1.78 to 2.22 lbs	2.22 to 2.67 lbs <sup>3</sup>	2.22 to 2.67 lbs <sup>3</sup>

- <sup>1</sup> When using Bladex 4L or 80W use equivalent rates. One pound of Bladex 90DF equals 1.12 lbs of Bladex 80W. One quart of Bladex 4L equals 1.11 1bs of Bladex 90DF. See conversion chart in Formulation Conversion Tables section (see table of contents for page number).
- 2 DO NOT use this combination on sands or loamy sands with less than 1% organic matter.
- <sup>3</sup> The MAXIMUM RATE of Bladex 90DF for early postemergence application is 2.22 lbs per acre.

\*DO NOT apply postemergence to sweet corn in Arizona, California, Idaho Montana, Oregon, Texas and Washington

NOTE: If corn crop loss occurs due to weather conditions and corn is replanted, seeding Jepth must be below retilled area. Observe all precautions and limitations on Bladex label.

DO NOT apply PROWL DG plus Bladex 80W or 90DF, or PROWL DG plus Extrazine II DF under extended cold (below  $50^{\circ}$ F), wet weather conditions, or when cold, wet conditions are predicted.

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Broadcast Rate per Acre of PROWL DG plus Atrazine plus Bladex Preemergence and Early Postemergence<sup>\*</sup> Tank Mixtures in Corn

(PROWL DG may be applied in sweet corn in (all variaties) in AZ, CA, ID, MT, OR, TX and WA, and (processing variaties only) in IL, MN, NY, and WI)

Soi Texture	Less than 1.5%** Organic Matter PROWL DG + AAtrex Nine-O*** + Bladex 90DF***	1.5% to 3%** Organic Matter PROWL DG + AAtrex Nine-O*** + Bladex 90DF***	More than 3%** Organic Matter PROWL DG + AAtrex Nine-J:*** + Bladex 90DF***
COARSE <sup>1</sup>	1.25 to 1.7 lbs +	1.7 lbs +	2.5 lbs +
	0.45 lb +	0.67 lb +	0.67 lb +
	0.89 lb	0.67 to 1.11 lbs	0.67 to 1.33 lbs
MEDIUM	1.7 lbs +	2.5 lbs +	2.5 lbs +
	0.45 lbs +	0.67 lbs +	0.89 lbs +
	0.89 lb	0.89 to 1.56 lbs	1.33 to 1.78 lbs
FINE	1.7 lbs +	2.5 lbs +	2.5 lbs +
	0.67 lb +	0.89 lb +	0.89 lb +
	0.9 to 1.56 lbs	1.33 to 1.78 lbs	1.33 to 1.78 lbs

<sup>1</sup> DO NOT use this combination for preemergence applications in the Atlantic Coastal Plain. DO NOT use this combination for postemergence applications on sands or loamy sands with less than 1% organic matter.

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- \* DO NOT apply postemergence to sweet corn in Arizona, California, Idaho, Montana, Oregon, Texas or Washington.
- \*\* The high rate for each soil texture, where listed, should be used if heavy infestations of grass or broadleaf weeds are anticipated, if hardto-control weed species are anticipated, or if extensive crop residues were present following seedbad preparation, or if soil organic matter content falls in high end of range.
- \*\*\* When using Bladex 4L, Bladex 80W, atrazine 4L, or atrazine 80W use equivalent rates. One quart of Bladex 4L or atrazine 4L equals 1.11 lbs of Bladex 90DF or AAtrex Nine-0. One pound of atrazine 80W or Bladex 80WP equals 0.89 lb of AAtrex Nine-0 or Bladex 90DF. DO NOT use Bladex 4L postemergence. See conversion chart in Formulation Conversion Tables section (see Table of Contents for page number).
- NOTE: If corn crop loss occurs due to weather conditions and corn is replanted, seeding depth must be below retilled area. Observe all precautions and limitations on Bladex and atrazine labels.

DO NOT apply PROWL DG plus Bladex 80W or 90DF, or PROWL DG plus Extrazine II DF under extended cold (below 50°F), wet weather conditions, or when cold, wet conditions are predicted.

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#### Follow Crop Restrictions

- 1. Plant only corn, peanuts, sorghum, or soybeans the year following the use of this mixture.
- 2. Injury may occur to soybeans planted the year following application on soils having a calcareous surface layer.
- 3. If applied after June 10, do not rotate with crops other than corn or sorghum the next year or injury may occur.
- 4. In the high plains and intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use only when corn or sorghum is to be planted the following year, or a crop of corn or sorghum not treated with atrazine is to precede other rotational crops.
- 5. All crops may be planted 18 months after application.
- 6. Refer to atrazine and Bladex labels for other foilow crop restrictions.

PROWL DG Plus Marksman Or PROWL DG Plus Marksman Plus Bladex

Observe all precautionary statements in the Marksman or Bladex labels before using.

Consult State and County Extension Service to determine allowed atrazine use rates.

Apply only on level planted corn. Plant corn at least 1 1/2 inches d ep to ensure good seed coverage.

AVOID drift of these mixtures to soybeans or other sensitive crops.

DO NOT use in California.

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PREEMERGENCE (surface treatment after playting)

Apply preemergence, after planting, but before weeds or crop emerge. Apply in water or liquid fertilizer with ground equipment or in water with aircraft. Refer to Application with Liquid Fertilizers section (see table of contents for page number) for liquid fertilizer compatibility determinations. DO NOT APPLY BLADEX BY AIR.

DO NOT use on furrow irrigated corn.

DO NOT incorporate or serious corn injury can result.

# EARLY POSTEMERGENCE

Apply PROWL DG plus Marksman or PROWL DG plus Marksman plus Bladex after corn emer\_ence but no later than when corn is in the 2 leaf stage of growth and when weeds are ro larger than 1 inch tall. Do not use Bladex 4L postemergence on corn.

Apply with ground equipment or aircraft in water only. For ground applications flat fan nozzles are preferred. DO NOT APPLY BLADEX BY AIR.

When applied as directed, PROWL DG plus Marksman or PROWL DG plus Marksman plus Bladex will control the following weeds in addition to those controlled by PROWL DG alone. Refer to the Marksman and Bladex labors for additional weeds controlled by these products.

Annual clover (Trifolium spp.) Black nightshade (Solanum nigrum) Burcucumber (Sicyos angulatus) Chickweed, common (Stellaria media) Jimsonweed (Datura stramonium) Mallow common (Malva spp.) Venice (Hibiscus trionum) Mustard (Brassica spp.) Puncturevine (Tribulus terrestris) Ragweed common\* (Ambrosia artemisiifolia) giant (Ambrosia trifida) Sicklepod (Cassia obtusifolia) Sida, prickly (Teaweed, (Sida spinosa) Smartweed ladysthumb (Polygonum persicaria) Spurge prostrate (Euphorbia humistrata) Sunflower, common (Hellanthus annuus) Tansymustard (Descurainla pinnata) Thistle, Russian (Salsola kali) Velvetleaf (Abutilon theophrasti) Wild buckwheat (Polygonum convolvulus) Wild cucumber (Echinocystis lobata)

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PROWL DG plus Marksman or PROWL DG plus Marksman plus Bladex will aid in the control of and reduce competition from the following annual weed species. Consult the Marksman label for perennial weed species suppressed by these tank mixtures.

> Annual morning glory (Ipomoea spp.) Shattercane (Sorghum bicolor) Wild proso millet (Panicum miliaceum)

\* PROWL '3 plus Marksman plus Bladex tank mixtures only.

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# Broadcast Rates per Acre of PROWL DG Plus Marksman Preemergence\*\* and Early Postemergence Tank Nixtures in Field Corn

More than 3.0% Less than 1.5% 1.5% to 3.0% Organic Matter Organic Matter Organic Matter SOIL PROWL DG + Marksman PROWL DG + Marksman PROWL DG + Marksman TEXTURE 1.25 to 1.7 + 21.7 + 2COARSE 2.5 + 21.7 + 3.52.5 + 3.5MEDIUM 1.7 + 3.51.7 + 3.51.7 + 3.52.5 + 3.5FINE \*\*DO NOT apply preemergence on any soils with less than 2.0% organic matter. NOTE : If crop loss occurs due to weather conditions and corn is replanted, seeding depth must be below retilled area. Observe all cropping

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PROWL DG (1bs) + Marksman (pints)

Broadcast Rates per Acre of PROWL DG Plus Marksman Plus Bladex Preemergence\*\* and Early Postemergence Tank Mixtures in Field Corn

restrictions on the Marksman label.

PROWL DG (1bs) + Marksman (pints) + Bladex 90DF<sup>1</sup>,<sup>2</sup> (pounds)

SOIL TEXTURE	Less than 1.5% Organic Matter PROWL DG + Marksman + Bladex 90DF	1.5% to 3.0% Organic Matter PROWL DG + Marksman + Bladex 90 DF	More than 3.0% Organic Matter PROWL DG + Marksman + lladex 90 DF
COARSE <sup>3</sup>	1.25 to 1.7 + 2 + 1	1.7 + 2 + 0.67 to 1.11	2.5 + 2 + 0.67 to 1.3
MEDIUM	1.7 + 3.5 + 1	2.5 + 3.5 + 1 to 1.5	2.5 + 3.5 + 1.3 to 1.8
FINE	1.7 + 3.5 + 1 to 1.5	2.5 + 3.5 + 1.3 to $2.2$	2.5 + 3.5 + 1.3 to 2.2

<sup>1</sup> When using Bladex 4L or Bladex 80W use equivalent rates. One quart of Bladex 4L equals 1.11 lbs of Bladex 90DF. One pound of Bladex 90DF equals 1.12 lbs of Bladex 80W. Consult the PROWL DG booklet for Formulation Conversion Tables. See conversion chart in Formulation Conversion Tables section (see Table of Contents for page number).

- <sup>2</sup> Apply only Bladex 90DF or 80W in postemergence tank mixtures with Marksman.
- <sup>3</sup>DO NOT use this combination on sands or loamy sands with less than 1% organic matter.<sup>1</sup>

\*\*DO NOT apply preemergence on any soil with less than 2.0% organic matter.

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NOTE: If crop loss occurs due to weather conditions and corn is replanted, seeding depth must be below retilled area. Observe all cropping restrictions on the Marksman and Bladex labels.

DO NOT apply PROWL DG plus Bladex 30W or 90DF under extended cold (below 50°F), wet weather conditions, or when cold, wet conditions are predicted.

#### PROWL DG Plus Bicep

PROWL DG plus Bicep may be applied in sweet corn (all varieties) in AZ, ID, MT, OR, TX and WA, and (processing varieties only) in IL, MN, NY, and WI.

Consult State and County Extension Service to determine allowed atra ine use rates.

Observe all precautionary statements in the Bicep label before using.

Add PROWL DG to the spray tank prior to the addition of Bicep.

DO NOT use this tank mixture in California.

PREEMERGENCE (surface treatment after planting)

Apply PROWL DG plus Bicep preemergence after planting, but before weeds or crop emerge. Apply in water or liquid fertilizer with ground equipment. Preemergence applications in field corn may be made through center pivot irrigation systems. Refer to Application with Liquid Fertilizers section (see table of contents for page number) for liquid fertilizer compatibility determinations.

DO NOT incorporate or serious corn injury can result.

#### EARLY POSTEMERGENCE

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Apply after corn emergence but no later than when corn is in the 4-leaf stage of growth and when weeds are no larger than the 1-2 leaf growth stage. Apply with ground equipment in water ONLY. Flat fan nozzles are preferred. Use PROWL DG rates listed in the following table with the Bicep rates listed under the "More than 3% Organic Matter" section of the table. For best results, destroy emerged weeds by cultivation prior to application.

#### Weeds Controlled

When applied preemergence as directed, PROWL DG plus Bicep will control the following weeds in addition to those controlled by PROWL DG alone:

Black nightshade (Solanum nigrum) Browntop panicum (Panicum fasciculatum) Cocklebur (Xanthium strumarium) Galinsoga (Galinsoga spp.) Hairy nightshade (Solanum sarrachoides) Jimsonweed (Datura stramonium) Morningglory (Ipomoea spp.) Ragweed (Ambrosia spp.) Red rice (Oryza sativa) Smartweed (Polygonum pensylvanicum)

Southwestern cupgrass (Eriochloa gracilis) Velvetleaf (Abutilon theophrasti) Woolly cupgrass (Eriochloa villosa) Yellow nutsedge (Cyperus esculentus) Pr •mergence tank mixtures of PROWL DG plus Bicep will aid in the control of and reduce competition from: Shattercane (Sorghum bicolor) Sicklepod (Cassia obtusifolia) Volunteer sorghum (Sorghum vulgare) Wild proso millet (Panicum miliaceum) When applied early postemergence as directed, PROWL DG plus Bicep will control the following weeds in addition to those controlled by PROWL DG alone: Jinsonweed (Datura stramonium) Mustard (Brassica spp.) Prickly sida (Sida spinosa) Ragweed (Ambrosia spp.) Smartweed (Polygonum pensylvanicum) Velvetleaf (Abutilon theophrasti) Early postemergence tank mixtures of PROWL DG plus Bicep will aid in the control of and reduce competition from: Cocklebur (Xanthium strumarium) Morningglory (Ipomoea spp.) Wild proso millet (Panicum miliaceum) Woolly cupgrass (Eriochloa villosa) Yellow nutsedge (Cyperus esculentus) Broadcast Rates per Acre of PROWL DG Plus Bicep Preemergence and Early Postemergence\* Tank Mixtures in Corn (PROWL DG may be applied in sweet corn in (all varieties) AZ, ID, MT, OR, TX and WA, and (processing varieties only) in IL, MN, NY, and WI) PROWL DG (1bs) + Bicep 6L\*\* (quarts) Less than 1.5% 1.5% to 3.0% More than 3.0% Organic Matter Organic Matter Organic Matter PROWL DG + PROWL DG + PROWL DG + SOIL TEXTURE Bicep 6L Bicep 5L Bicep 6L 1.25 to 1.7 + 1.51.7 + 1.5COARSE 2.5 + 1.8MEDIUM 1.7 + 1.82.5 + 1.82.5 + 2.4FINE 1.7 + 2.42.5 + 2.42.5 + 2.4 to 3

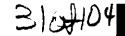
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Do not apply postemergence to sweet corn in Arizona, Idaho, Montana, Oregon, Texas and Washington.



- \*\* When using Bicep 4.5L use equivalent rates. One quart of Bicep 6L equals 1.33 quarts of Bicep 4.5L.
- NOTE: If crop loss occurs due to weather conditions and corn is replanted, seeding depth must be below retilled area. Observe all cropping restrictions on the Bicep label.

PROWL DG Plus Lariat Or PROWL DG Plus Bullet

PROWL DG plus Lariat or Bullet may be applied in sweet corn (all varieties) in AZ, ID, MT, OR, TX and WA, and (processing varieties only) in IL, MN, NY, and WI.

Consult State and County Extension Service to determine allowed atrazine use rates.

Observe all precautionary statements in the Lariat and Bullet labels before using.

DO NOT graze treated area or feed treated forage to livestock for 21 days following application.

DO NOT use this tank mixture in California.

PREEMERGENCE (surface treatment after planting)

Apply PROWL DG plus Lariat or Bullet after planting, but before weeds or crop emerge. Apply in water or liquid fertilizer with ground equipment. Preemergence applications in field corn may be made through center pivot irrigation systems. Refer to Application with Liquid Fertilizers section (see table of contents for page number) for liquid fertilizer compatibility determinations.

DO NOT incorporate or serious corn injury can result.

EARLY POSTEMERGENCE

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Apply after corn emergence but no later than when corn is in the 4-leaf stage of growth and when weeds are no larger than the 2-leaf growth stage. Apply with ground equipment in water ONLY. Flat fan nozzles are preferred. DO NOT apply postemergence to sweet corn.

# Weeds Controlled

When applied as directed, PROWL DG plus Lariat or PROWL DG plus Bullet will control the following weeds in addition to those controlled by PROWL DG alone. Refer to the Lariat or Bullet label for additional weeds controlled by these products.

Black nightshade (Solanum nigrum) Browntop panicum (Panicum fasciculatum) Common ragweed (Ambrosia artemisiifolia) Hairy nightshade (Solanum sarrachoides) Jimsonweed (Dature stramonium) Mustard (Brassica spp.) Red sprangletop (Leptochloa filiformis) Smartweed Ladysthumb (Polygonum persicaria)

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Southwestern cupgrass (Eriochloa gracilis) Velvetleaf (Abutilon theophrasti) Wild proso millet (Panicum miliaceum) Woolly cupgrass (Eriochloa villosa)

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Broadcast Rates per Acre of PROWL DG Plus Lariat or PRCWL DG Plus Bullet Preemergence and Early Postemergence\* Tank Mixtures in Corn

(PROWL DG may be applied in sweet corn in (all varieties) AZ, ID, MT, OR, TX and WA, and (processing varieties only) in IL, MN, NY, and WI)

Less than 1.5% 1.5% to 3.0% More than 3.0% Organic Matter Organic Matter Organic Matter SOIL PROWL DG + PROWL DG + PROWL DG + TEXTURE Lariat or Bullet Lariat or Bullet Lariat or Bullet 2.5 + 3COARSE 1.25 to 2 + 2.51.7 + 2.5MEDIUM 1.7 + 32.5 + 32.5 + 3.75FINE 1.7 + 3.752.5 + 3.752.5 + 3.75 to 4.5

PROWL DG (1bs) + Lariat or Bullet (quarts)

- \* Do not apply postemergence to sweet corn in Arizona, Idaho, Montana, Oregon, Texas and Washington.
- NOTE: If crop loss occurs due to weather conditions and corn is replanted, seeding depth must be below retilled area. Observe all cropping restrictions on the Lariat or Bullet labels.

#### PRCWL DG Plus Dual 8E

PROWL DG plus Dual 8E may be applied in sweet corn (all varieties) in AZ, ID, MT, OR, TX and WA, and (processing only) in IL, MN, NY, and WI.

Observe all precautionary statements in the Dual 8E label before using.

DO NOT use this tank mixture in California.

**PREEMERGENCE** (surface treatment after planting)

Apply PROWL DG plus Dual 8E preemergence after planting, but before weeds or crop emerge. Apply in water or liquid fertilizer with ground equipment or in water with aircraft. Preemergence applications in field corn may be made through center pivot irrigation systems. Refer to Application with Liquid Fartilizers section (see table of contents for page number) for liquid fertilizer compatibility determinations.

DO NOT incorporate or serious corn injury can result.

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#### Weeds Controlled

When applied as directed, PROWL DG plus Dual 8E will control the following weeds in addition to those controlled by PROWL DG alone:

Black nightshade (Solanum nigrum) Floxida beggarweed\* (Desmodium tortuosum) Galinsoga (Galinsoga spp.) Hairy nightshade (Solanum sarrachoides) Red rice (Oryza sativa) Southwestern cupgrass (Eriochloa gracilis) Volunteer sorghum (Sorghum vulgare) Yellow nutsedge (Cyperus esculentus)

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\*Use a minimum of 2 pints of Dual 8E per acre.

Broadcast Rates per Acre of PROWL DG Plus Dual 8E Preemergence Tank Mixtures in Corn

(PROWL DG may be applied in sweet corn (all varieties) in AZ, ID, MT, OR, TX and WA, and (processing varieties only) in IL, MN, NY, and WI)

PROWL DG (1bs) + Dual 8E (pints)

SOIL TEXTURE	Less than 1.5% Organic Matter PROWL DG + Dual 8E	1.5% to 3.0% Organic Matter PROWL DG + Dual 8E	More than 3.0% Organic Matter PROWL DG + Dual 8E
COARSE 1.	25 to 1.7 + 1.25 to 1.5	1.7 + 1.25 to 1.5	2.5 + 1.5
MEDIUM	1.7 + 1.5 to 2	2.5 + 1.5 to 2	2.5 + 2
FINE	1.7 + 2	2.5 + 2	2.5 + 2 to 2.5

NOTE: If crop loss occurs due to weather conditions, corn, potatoes or soybeans may be planted the same year without adverse effects. Observe all cropping restrictions on the PROWL DG and Dual 8E labels.

PROWL DG Plus Lasso

PROWL DG plus Lasso may be applied in sweet corn (all varieties) in AZ, ID, MT, OR, TX and WA, and (processing varieties only) in IL, MN, NY, and WI.

Observe all precautionary statements in the Lasso label before using.

DO NOT use this tank mixture in California.

# PREEMERGENCE (surface treatment after planting)

Apply preemergence, after planting, but before weeds or crop emerge. Apply in water or liquid fertilizer with ground equipment. Preemergence applications in field corn may be made chrough center pivot irrigation systems. Refer to Application with Liquid Fertilizers section (see table of contents for page number) for liquid fertilizer compatibili y determinations. This treatment must be applied within 5 days of the last preplant tillage.

DO NOT INCORPORATE or serious corn injury can result.

# EARLY POSTEMERGENCE

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Apply after corn emergence but before corn exceeds 5 inches in height. Apply with ground equipment in water ONLY. EMERGED WEEDS WILL NOT BE CONTROLLED BY THIS TANK MIX. Destroy emerged weeds by cultivation prior to application.

#### Weeds Controlled

When applied as directed, PROWL DG plus Lasso will control the following weeds in addition to those controlled by PROWL DG alone:

Galinsoga (Galinsoga spp.) Pennsylvania smartweed (Polygonum pensylvanicum) Velvetleaf (Abutilon theophrasti) Woolly cupgrass (Eriochloa villosa)

Broadcast Rates per Acre of PROWL DG Plus Lasso Preemergence and Early Postemergence\* Tank Mixtures in Corn

(PROWL DG may be applied in sweet corn (all varieties) in AZ, ID, MT, OR, TX and WA, and (processing varieties only) in IL, MN, NY, and WI)

PROWL DG (1bs) + Lasso (quarts)

SOIL TEXTURE	Less than 1.5% Organic Matter PROWL DG + Lasso	1.5% to 3.0% Organic Matter PROWL DG + Lasso	More than 3.0% Organic Matter PROWL DG + Lasso
COARSE	1.25 to 1.; + 1.5 to 2.5	1.7 + 1.5 to 2.5	2.5 + 2 to 3
MEDIUM	1.7 + 1.75 to 2.5	2.5 + 1.75 to 2.5	2.5 + 2 to 3
FINE	1.7 + 2.25 to 3	2.5 + 2.25 to 3	2.5 + 3 to 4

\* Do not apply postemergence to sweet corn in Arizona, Idaho, Montana, Oregon, Texas and Washington.

NOTE: If crop loss occurs due to weather conditions, corn, potatoes or soybeans may be planted the same year without adverse effects. If corn is replanted, seeding depth must be below retilled area.

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# Preemergence Applications of PROWL DG Plus Banvel Tank Mixture in Field Corn

Apply PROWL DG plus Banvel preemergence (surface treatment) only, after planting, but before weeds or crop emerge. Apply in water with GROUND EQUIPMENT ONLY.

DO NOT INCORPORATE or serious corn injury can result.

APPLY ONLY ON LEVEL PLANTED CORN. Plant corn AT LEAST 1 1/2 inches deep to ensure good seed coverage.

#### Weeds Controlled

When applied as directed, PROWL DG plus Banvel will control the following weeds in addition to the weeds controlled by PROWL DG.

Cocklebur (Xanthium strumarium) Venice mallow (Hibiscus trionum)

> Broadcast Rate per Acre of PROWL DG Plus Banvel Preemergence Tank Mixture in Field Corn

> > PROWL DG (1bs) + Banvel (pints)

Soil Texture <sup>1</sup>	1.5 to 3.0% Organic Matter PROWL DG + Banvel	More than 3.0% Organic Matter PROWL DG + Banvel	
MEDIUM	DO NOT USE	2.5 + 0.75	
FINE	2.5 + 0.75	2.5 + 0.75	

<sup>1</sup> DO NOT use on sands, loamy sands, or sandy loams. DO NOT use on medium soils containing less than 3% organic matter.

AVOID drift of this mixture to soybeans or other sensitive crops.

DO NOT use on furrow irrigated corn.

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DO NOT apply this tank mixture by aircraft.

When applying this tank mixture at planting, the spray nozzles must be far enough behind the planter to avoid contact of the spray mixture with the seeds to avoid crop injury.

NOTE: Follow cropping restrictions on Banvel label. Observe all precautions and limitations on Banvel label.

# CULTI-SPRAY~ (POSTEMERGENCE INCORPORATED)

FIELD CORN - GRAIN SORGHUM

PROWL DG CULTI-SPRAY (post-emergence incorporated) can be applied to field corn as follows:

PROWL DG alone

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PROWL DG + atrazine

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PROWL DG CULTI-SPRAY (post-emergence incorporated) can be applied in grain sorghum as follows:

PROWL DG alone

**PROWL DG + atrazine** 

Winter wheat and winter barley may be planted in the fall 90 days after an application with PROWL DG CULTI-SPRAY in irrigated field corn or grain sorghum or 120 days after an application with PROWL DG CULTI-SPRAY in dry land field corn or grain sorghum. The treated corn must be grown to maturity and harvested before planting wheat or barley. See complete Follow Crop Restrictions given previously in this label (See Table of Contents for page number).

PROWL DG is not recommended for use on peat or muck soils.

# General Information

PROWL DG or PROWL DG plus atrazine tank mixtures applied as a CULTI-SPRAY (postemergence incorporated) treatment will control most late season annual grasses and certain broadleaf weeds in field corn or grain sorghum. PROWL DG treatments can be applied from the 4-inch growth stage to as late as the last cultivation (layby) of field corn or grain sorghum. PROWL DG plus atrazine must be applied before the field corn or grain sorghum reaches 12 inches in height. PROWL DG treatments will not control established weeds. DESTROY EMERGED WEEDS BY CULTIVATION PRIOR TO PROWL DG APPLICATION.

# Additional Herbicide Applications

CULTI-SPRAY (postemergence incorporated) applications of PROWL DG or PROWL DG plus atrazine tank mixture can be applied in field corn or grain sorghum previously treated with herbicides registered for use in field corn or grain sorghum. Consult the labels of those herbicides for suggested treatments, rates to be used, and precautions or restrictions for use in field corn or grain sorghum and for Follow Crop Restrictions.

# CULTI-SPRAY (Postemergence Incorporated) APPLICATIONS

Cultivate and destroy all emerged weeds prior to application. Cultivate with a sweep-type or rolling cultivator operated at sufficient speed to throw at least one inch of soil over the bases of the field corn or grain sorghum plants. This will kill small weed seedlings growing in the field corn or grain sorghum row and will prevent direct contact of the zone of brace root formation by PROWL DG during application.

Apply PROWL DG or PROWL DG plus atrazine tank mixture with ground sprayer. Cover soil uniformly. Use drop nozzles if field corn or grain sorghum foliage will prevent uniform coverage of the soil surface within the rows.

PROWL DG treatments can be applied from the 4-inch growth stage to as late as the last cultivation (layby) of field corn or grain sorghum.

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PROWL DG plus atrazine must be applied before the field corn or grain so thum reaches 12 inches in height.

Consult State and County Extension Service to determine allowed atrazine use rates.

Thoroughly and uniformly incorporate PROWL DG treatments into the soil (1) with a sweep-type or rolling cultivator set to provide thorough incorporation in the top 1 inch of soil OR (2) with adequate irrigation water or rainfall. For best results, incorporate PROWL DG treatments as soon as possible after application. Incorporation must be completed within 7 days after application. If adequate moisture is not received within 7 days after application, incorporate PROWL DG with a sweep-type or rolling cultivator.

Under situations of low rainfall or soil moisture, when deep germinating weeds such as shattercane or field sandbur are anticipated, mechanical incorporation will provide best results.

If cultivation is needed after application and incorporation of PROWL DG, the depth of cut should be no deeper than the depth of cut used to incorporate.

DO NOT APPLY PROWL DG in field corn or grain sorghum more than once per crop season.

#### Weeds Controlled

When applied as directed, PROWL DG CULTI-SPRAY (postemergence incorporated) will control the following weeds in addition to the weeds previously listed as being controlled by PROWL DG:

Shattercane (Sorghum bicolor) Wild proso millet (Panicum miliaceum)

When applied as directed, PROWL DG plus atrazine CULTI-SPRAY (postemergence incorporated) tank mixture will control the following weeds in addition to those controlled by PROWL DG alone:

Pennsylvania smartweed (Polygonum pensylvanicum) Velvetleaf (Buttonweed) (Abutilon theophrasti) Venice mallow (Hibiscus trionum)

#### FIELD CORN

DO NOT APPLY PROWL DG preplant incorporated in field corn as serious crop injury can result.

Soil Texture	PROWL DG (1bs) Southern States <sup>1</sup>	PROWL DG (1bs) Northern States <sup>1</sup>
COARSE	0.85 to 1.25	1.25 to 1.7
MEDIUM	1.25 to 1.7•	1.7 to 2.5
FINE	1.25 to 2.5	1.7 <sup>*</sup> to 2.5

Broadcast Rate Per Acre of PROWL DG CULTI-SPRAY ~ (Postemergence Incorporated)- in Field Corn

<sup>1</sup> See map at end of this label for specific states.

NOTE: Livestock can graze or be fed forage from treated field corn after 21 days following application.

> Broadcast Rate Per Acre of PROWL DG Plus Atrazine CULTI-SPRAY (Postemergence Incorporated) Tank · Mixture in Field Corn

Soil Texture	PROWL DG + AATREX Nine-Ol Southern States <sup>2</sup> Northern States <sup>2</sup>	
COARSE	0.85 to 1.25 lbs + 1.11 lbs	1.25 to 1.7 lbs + 1.11 lbs
IEDIUM	1.25 to 1.7 lbs + 1.11 to 1.33 lbs	1.7 to 2.5 lbs + 1.11 to 1.33 lbs
INE	1.25 to 2.5 lbs + 1.11 to 1.33 lbs	1.7 to 2.5 lbs + 1.11 to 1.33 lbs

<sup>1</sup> When using atrazine 4L or atrazine 80W use equivalent rates. One quart of atrazine 4L equals 1.11 lbs of AAtrex Nine-O. One pound of atrazine 80W equals 0.89 lbs of AAtrex Nine-O. See conversion chart in Formulation Conversion Tables section (see table of contents for page, number).

 $^2$  See map at end of this label for specific states.

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NOTE: Observe all precautions and limitations on atrazine labels. Follow cropping restrictions on atrazine labels. Livestock can graze or be fed forage from treated field corn after 21 days following application.

# GRAIN SORGHUM

DO NOT APPLY PROWL DG in grain sorghum preplant incorporated or preemergence as serious crop injury can result.

DO NOT APPLY PROWL DG in grain sorghum which is planted in double row beds since this cultural practice does not permit adequate soil coverage of the bases of the grain sorghum plants with cultivation.

Soil Texture	PROWL DG (1bs) Southern States <sup>1</sup>	PROWL DG (1bs) Northern States <sup>1</sup>
COARSE	0.85 to 1.25	1.25 to 1.7
MEDIUM	1.25 to 1.7	1.7 to 2.5
FINE	1.25 to 2.5	1.7 to 2.5

# Broadcast Rate r Acre of PROWL DG CULTI-SPRAY (Postemergence Incorporated) in Grain Sorghum

<sup>1</sup> See map at end of this label for specific states.

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NOTE: Livestock can graze or be fed forage from treated grain sorghum after 21 days following application.

Broadcast Rate Per Acre of PROWL DG Plus Atrazine CULTI-SPRAY (Postemergence Incorporated) Tank Mixture in Grain Sorghum

Soil Texture	PROWL DG + AATREX Nine-Ol Soil Texture Southern States <sup>2</sup> Northern States <sup>2</sup>		
COARSE	DO NOT USE	DO NOT USE	
MEDIUM	1.25 to 1.7 lbs + 1.11 lbs	1.7 to 2.5 lbs + 1.11 lbs	
FINE	1.7 to 2.5 lbs + 1.11 lbs	1.7 to 2.5 lbs + 1.11 lbs	

<sup>1</sup> When using atrazine 4L or atrazine 80W use equivalent rates. One quart of atrazine 4L equals 1.11 lbs of AAtrex Nine-O. One pound of atrazine 80W equals 0.89 lbs of AAtrex Nine-O. See conversion chart in Formulation Conversion Tables section (see table of contents for page number).

 $^2$  See map at end of this label for specific states.

NOTE: Observe all precautions and limitations on atrazine labels. Follow cropping restrictions on atrazine labels. Livestock can graze or be fed forage from treated grain sorghum fields after 21 days following application.

#### GRAIN SORGHUM

PROWL DG may be applied early postemergence in grain sorghum grown in states east of the Mississippi River and in Arkansas, East Texas, Louisiana, and the Missouri 'bootheel' as follows:

**PROWL DG + atrazine** 

DO NOT INCORPORATE.

PROWL DG is not recommended for use on peat or muck soils.

# Application Instructions

The seedbed should be firm and free of clods and trash. Use only where adequate tillage is practiced to provide good seed coverage. Plant grain sorghum AT LEAST 1 1/2 inches deep to ensure good seed coverage.

Uniformly apply PROWL DG plus atrazine tank mix treatment in water by ground equipment or by aircraft. Refer to Mixing Instructions section (see table of contents for page number) for complete mixing directions. Apply PROWL DG plus atrazine tank mixture only after grain sorghu- has reached the 2-leaf stage and when weeds are no more than 1 inch tall.

DO NOT INCORPORATE or serious grain sorghum injury can result.

DO NOT apply in liquid fertilizer.

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PROWL DG plus atrazine treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application. If cultivation is necessary because of soil crusting, soil compaction, or weed germination before rain or irrigation, use shallow tillage (such as a rotary hoc), and make certain grain sorghum seeds are below the tilled area. Wait 7 to 10 days after application before cultivating.

Consult State and County Extension Service to determine allowed atrazine use rates.

# Weeds Controlled

When applied as directed, PROWL DG plus acrazine will control the following weeds in addition to those controlled by PROWL DG alone:

Black nightshade (Solanum nigrum) Common ragweed (Ambrosia artemisiifolia) Mustard (Brassica spp.) Smartweed (Polygonum pensylvanicum) Velvetleaf (Buttonweed) (Abutilon theophrasti)

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Recommended tank mixtures of PROWL DG plus atrazine will reduce competition from the following hard-to-control annual broadleaf weeds:

Cocklebur (Xanthium strumarium) Annual morningglory (Ipomoea spp.) Jimsonweed (Datura stramonium)

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Broadcast Rate per Acre for Early Postemergence Application of PROWL DG Plus Atrazine in Grain Sorghum<sup>1</sup>

Soil Texture	PROWL DG + AATREX Nine-0 <sup>2</sup>	
COARSE	DO NOT USE	
MEDIUM	1.25 to 1.7 lbs + 1.11 to 1.33 lbs	
FINE	1.7 lbs + 1.11 to 1.33 lbs	

- <sup>1</sup> For use in states east of the Mississippi River, plus Arkansas, East Texas, Louisiana, and the Missouri 'bootheel only.
- 2 When using atrazine 4L or atrazine 80W use equivalent rates. One quart of atrazine 4L equals 1.11 lbs of AAtrex Nine-O. One pound of atrazine 80W equals 0.89 lbs of AAtrex Nine O. See conversion chart under Formulation Conversion Tables section (see table of contents for page number).

The high rate for each soil texture above shou'd be used if heavy weed populations are anticipated.

NOTE: DO NOT replant grain sorghum if crop loss occurs due to weather conditions. Observe all precautions and limitations on atraine labels. Follow cropping restrictions on atrazine labels. Livestock can graze or be fed forage from PROWL DG plus atrazine treated grain sorghum fields after 21 days following application.

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COTTON

PROWL DG can be applied in cotton as follows:

Preplant incorporated PROWL DG alone PROWL DG + prometryn PROWL DG + Zorial

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SequentialPreemergencePROWL DG pre-plantPROWL DG aloneincorporated followedPROWL DG +by Cotoran preemergenceprometryn.PROWL DG pre-plantPROWL DG + Cotoranincorporated followedPROWL DG + Zorialby Karmex preemergence

Refer to Rhizome Johnsongrass subsection (see table of contents for page number) for rhizome johnsongrass control program.

PROWL DG is not recommended for use on peat or muck soils.

Preplant Incorporated Application of PROWL DG Alone

Apply PROWL DG with ground equiment or aircraft immediately before planting or up to 60 days prior to planting. Incorporate prior to planting and within 7 days of application. Refer to Incorporation Instructions section (see table of contents for page number) for incorporation directions.

> Broadcast Rate Per Acre of PROWL DG Preplant Incorporated in Cotton

Soil Texture	PROWL DG (1bs)	
COARSE	0.85 to 1.25	
MEDIUM	1.25 to 1.7	
FINE	1.7 to 2.5	_

For heavy clay soils, apply PROWL DG at the broadcast rate of 2.5 lbs per acre.

The high rate for each soil texture above should be used if heavy weed populations are anticipated.

NOTE: DO NOT feed forage or graze livestock in treated cotton fields. If loss of cotton crop occurs due to adverse weather conditions, cotton or any crop registered for PROWL DG preplant incorporated use can be replanted the same year into treated soil without adverse effects. If replanting is necessary, DO NOT rework the soil deeper than the treated zone.

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# Fall Application

PROWL DG may be applied for weed control in cotton in the fall, after October 15 (up to 140 days prior to planting cotton) in Arizona, California, Louisiana, New Mexico, Mississippi, Oklahoma and Texas. Apply PROWL DG at the broadcast rate per acre of 1.25 lbs on coarse soils, 1.7 lbs on medium soils and 2.5 lbs on fine soils.

# Preplant Incorporated Application of PROWL DG Followed by Preemergence Application of Cotoran or Karmex

PROWL DG preplant incorporated followed by an overlay preemergence application of Cotoran 80W or Karmex may be applied for weed control in cotton.

Refer to the Cotoran or Karmex label for specific directions regarding rates, mixing, spraying and application. Use the Cotoran or Karmex alone preemergence rates. Follow all precautions and limitations on the Cotoran or Karmex label.

When applied as directed, in addition to those weeds controlled by PROWL DG alone, PROWL DG preplant incorporated followed by Cotoran or Karmex preemergence will control those additional broadleaf weeds listed on the Cotoran or Karmex label.

# Preplant Incorporated Application of PROWL DG Plus Prometry a Mixtures

PROWL DG plus prometryn 4L or 80W tank mixture may be applied preplant incorporated for weed control in cotton grown in Arizona, California, New Mexico and the Upper and Lower El Paso Valley of Texas.

Apply PROWL DG plus prometryn with ground equipment prior to listing or over partially finished or finished beds. Incorporation should immediately follow application. Refer to Incorporation Instructions section (see table of contents for page number) for incorporation directions. Maintain good agitation at all times until spraying is completed to keep the material in suspension. Mechanical agitation should be used in Arizona and California.

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To avoid cropy injury, follow all precautions and restrictions found in the prometryn label.

# Weeds Controlled

When applied as directed, PROWL DG plus prometryn will control the following weeds in addition to those controlled by PROWL DG alone:

# GRASSES CONTROLLED

Junglerice (Echinochloa colonum) Wild ost (Avena fatua) ()Botha

### BROADLEAN WEEDS CONTROLLED

Annual morningglory (Ipomoea spp.) Black nightshade (Solanum nigrum) Common ragweed (Ambrosia artemisiifolia) Groundcherry (Physalis spp.) Malva (Malva spp.) Mustard (Brassica spp.) Pernsylvania scartweed (Polygonum pensylvanicum) Prickly sida (Sida spinosa)

# PROWL DG plus prometryn will control shallow-germinating seedlings of:

Cocklebur (Xanthium strumarium) Coffeeweed (Daubentonia texana) Sandbur (Cenchrus spp.)

Broadcast<sup>1</sup> Rate Per Acre of PROWL DG Plus Prometryn 4L Preplant Incorporated Tank Mixture in Cotton

	Soil Texture	PROWL DG + Prometryn 4L <sup>3</sup>
COARSE	Sands, loamy sands	DO NOT USE
	Sandy loams	0.85 to 1.25 1bs + 2.4 to 3.2 pts
MEDIUM	Loams	1.25 to 1.7 lbs + 3.2 pts
	Silt loams, silts, sandy clay loams <sup>2</sup>	1.25 to 1.7 lbs + 3.2 to 4.8 pts
FINE	Silty clay loams <sup>2</sup> , clay loams, clays	1.25 to 2.5 lbs + 3.2 to 4.8 pts

- <sup>1</sup> For calculation of band treatment rates, see Spraying Instructions section (see table of contents for page number).
- <sup>2</sup> Sometimes considered transitional soils and may be classified as either medium or fine textured soils.
- <sup>3</sup> When using prometryn 80W use equivalent rate. One pound of prometryn 80W equals 1.6 pints of prometryn 4L. See conversion chart in Formulation Conversion Tables section (see table of contents for page number).

Use the 2.5 lbs rate of PROWL DG for heavy clay soils.

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NOTE: DO NOT feed forage or graze livestock in treated cotton fields. If replanting is necessary, cotton may be planted in soil previously treated with PROWL DG plus prometryn. DO NOT rework the soil. Follow cropping restrictions on prometryn label.

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**PRECAUTIONS:** 

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DO NOT use this tank mixture in cut areas of newly leveled fields, in areas of excess salt or in areas where flooding over the bed is likely to occur as crop injury may result. Cotton should not be planted in tractor wheel depressions or crop injury may result. DO NOT use this tank mixture when cotton is irrigated up as crop injury may result. On mulch-planted cotton, water back only after cotton seedlings are well established. Follow all precautions and limitations on prometryn label.

Preplant Incorporated Application of PROWL DG Plus Zorial

PROWL DG plus Zorial Rapid 80 or 80WP tank mix may be applied preplant incorporated for weed control in cotton grown in all states except Texas, Oklahoma, New Mexico, Arizona and California.

Uniformly apply recommended tank mixtures of PROWL DG plus Zorial by ground equipment immediately !efore or up to 30 days before planting. DO NOT incorporate deeper than 2-3 inches with commonly used equipment. Incorporate within seven days after application. Refer to Incorporation Instructions section for complete directions (see table of contents for page number).

# Weeds Controlled

When applied as directed, PROWL DG plus Zorial preplant incorporated tank mix will control the following weeds in addition to those controlled by PROWL DG alone:

Prickly sida (Sida spinosa) Smartweed (Polygonum pensylvanicum) Spurred anoda (Anoda cristata)

Tank mixtures of PROWL DG plus Zorial will reduce competition from the following hard-to-control weeds:

Cocklebur (Xanthium strumarium) Common ragweed (Ambrosia artemisiifolia) Annual morningglory (Ipomoea spp.) Nutsedge (Cyperus spp.) Sicklepod (Cassia obtusifolia)

Broadcast Rates Per Acre of PROWL DG Plus Zorial Preplant Incorporated Tank Mixture<sup>1</sup>

PROWL DG + Zorial Rapid 80 or 80WP
0.85 to 1.25 lbs + 1.25 lbs
1.25 to 1.7 lbs + 1.9 lbs
1.25 to 2.5 lbs + 2.5 lbs

<sup>1</sup> Not for use in Texas, Oklahoma, New Mexico, Arizona or California.

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Use the hig. rate of PROWL DG for each soil texture above if heavy weed populations are anticipated or if extensive crop residues were present prior to seedbed preparation. Use the 2.5 lbs rate of PROWL DG for heavy clay soils.

NOTE: If the cotton plant is stressed during early development, application of PROWL DG plus Zorial at the label ; ate may result in temporary bleaching or chlorosis of the leaves from which the plant will recover. If cotton crop loss occurs due to weather conditions, cotton can be replanted. If replanting is necessary, a light reworking of the soil will retain the herbicidal activity of PROWL DG plus Zorial. DO NOT feed forage or graze livestock in treated cotton fields. Observe all precautions and limitations on the Zorial label.

# Preemergence Application of PROWL DG Alone

Uniformly apply PROWL DG in water or in liquid fertilizer. Refer to Applications with Liquid Fertilizers section (see table of contents for page number) for liquid fertilizer compatibility determinations.

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Apply PROWL DG preemergence at planting from 15 days before planting up to 2 days after planting. Apply to a seedbed which is firm and free of clods and trash. Preemergence treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application.

A shallow cultivation is recommended if soil crusting or soil compaction occurs. If weeds begin to germinate or adequate moisture is not received within 7 days after application, use shallow tillage (rotary hoe or light harrow) and make certain cotton seeds are below the tilled area.

A shallow, thorough mixing of the soil after herbicide application with a rotary hoe or similar implement will improve consistency of performance and reduce dependency on rainfall for activation.

Soil Texture	PROWL DG (1bs)	
COARSE	0.85 to 1.25	
MEDIUM	1.25 to 1.7	_
FINE	1.25 to 2.5	

Broadcast Rate per Acre for PROWL DG Preemeigince in Cotton

The high rates of PROWL DG for each soil texture, as stated above, should be used if heavy weed populations are anticipated or if extensive crop residues were present prior to seedbed preparation. NOTE: DO NOT feed forage or graze livestock in treated cotton fields. If loss of cotton crop occurs due to adverse weather conditions, cotton or soybeans can be replanted the same year into treated soil without adverse effects. If replanting is necessary, a light reworking of the soil will retain the herbicidal activity of PROWL DG.

#### Preemergence Application of PROWL DG plus prometryn

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PROWL DG plus prometryn 4L or 80W tank mixture may be applied preemergence for weed control in cotton grown in specified areas of Oklahoma and Texas. In addition to weeds listed on the PROWL DG label, PROWL DG plus prometryn will control weeds listed on the prometryn label. Consult the prometryn label for use areas and prometryn use rates. Follow all precautions and restrictions on the prometryn label.

PROWL DG plus prometryn 80WP or 4L is most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application. A shallow cultivation is recommended if soil crusting or soil compaction occurs. If weeds begin to germinate or adequate moisture is not received within 7 days after application, use shallow tillage (rotary hoe or light harrow) and make certain cotton seeds are below the tilled area.

#### Preemergence Application of PROWL DG Plus Cotoran

PROWL DG plus Cotoran 80WP or 4L preemergence tank mixture may be applied immediately after planting for weed control in cotton grown in all states except West Texas, Oklahoma, New Mexico, Arizona and California.

Apply PROWL DG plus Cotoran 80WP or 4L in water or nitrogen solution with ground equipment immediately after planting. Make sure cotton seeds are placed 1 inch or deeper below soil surface. Apply PROWL DG plus Cotoran immediately after planting or crop injury may result. Refer to Applications with Liquid Fertilizers section (see table of contents for page number) for liquid fertilizer compatibili y determinations. Maintain good agitation at all times until spraying is completed.

PROWL DG plus Cotoran 80WP or 4L is most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application. A shallow cultivation is recommended if soil crusting or soil compaction occurs. If weeds begin to germinate or adequate moisture is not received within 7 days after application, use shallow tillage (rotary hoe or light harrow) and make certain cotton seeds are below the tilled area.

#### Weeds Controlled

When applied as directed, PROWL DG plus Cotoran will control the following weeds in addition to those controlled by PROWL DG alone:

Jimsonweed (Datura stramonium) Prickly sida (Sida spinosa) Cocklebur\* (Xanthium strumarium) Hemp Sesbania\* (Sesbania exaltata) Morningglory\* (Ipomoea spp.) Common ragweed\* (Ambrosia artemisiifolia) Pennsylvania Smartweed\* (Polygonum pensylvanicum)

Sicklepod\* (Cassia obtusifolia) Velvetleaf\* (Abutilon theophrasti)

\*Cotoran 4L only

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PROWL DG plus Cotoran will aid in the control of and reduce competitionfrom:

> Broadcast Rate<sup>1</sup> 'Per Acre of PROWL DG Plus Cotoran Preemergence Tank Mixture in Cotton

Cocklebur (Xanthium strumarium) Annual morningglory (Ipomoea spp.)

Soil Texture/ States	PROWL DG + Cotoran 80 WP	PROWL DG + Cotoran 4L	
COARSE		.=	
Arkansas, Louisiana, and Mississippi	0.85 to 1.25 lbs + 1.0 lb	0.85 to 1.25 lbs + 1.6 pts	
Other states, except West Texas, Oklahoma, New Mexico, Arizona, and California	0.85 to 1.25 lbs + 1.25 lbs	0.85 to 1.25 lbs + 2.0 pts	
MEDIUM			
All states, except West Texas, Oklahoma, New Mexico, Arizona, and California	1.25 to 1.7 lbs + 1.25 to 2.0 lbs	1.25 to 1.7 lbs + 2.0 pts to 3.2 pts	
FINE		<u> </u>	
All states, except West Texas, Oklahoma, New Mexico, Arizona, and California	1.25 to 2.5 lbs + 2.0 to 2.5 lbs.	1.25 to 2.5 lbs + 3.2 to 4.0 pts.	

<sup>1</sup> For calculation of band treatment rate, see Spraying Instructions section (see table of contents for page number).

Use the 2.5 lbs rate of PROWL DG for heavy clay soils.

NOTE: The use of Cotoran 80WP or 4L as a preemergence application following the use of a systemic insecticide at planting, may result in injury to cotton. DO NOT plan crops other than cotton within 6 months of the last application of Cotoran or injury may result. DO NOT feed foliage from treated cotton plants or gin trash to livestock. Observe all precautions and limitations on the Cotoran label.

# Preemergence Application of PROWL DG Plus Zorial

PROWL DG plus Zorial Rapid 80, 80WP or 4L preemergence tank mixture may be applied immediately after planting for weed control in cotton grown in all states except Texas, Oklahoma, New Mexico, Arizona and California. £

Apply PROWL DG plus Zorial with ground equipment immediately after HoffOf planting. Make sure cotton seeds are placed 1 inch or deeper below soil surface. Apply PROWL DG plus Zorial immediately after planting or crop injury may result. Maintain good agitation at all times until spraying is completed.

PROWL DG plus Zorial is most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application. A shallow cultivation is recommended if soil crusting or soil compaction occurs. If weeds begin to germinate or adequate moisture is not received within 7 days after application, use shallow tillage (rotary hoe or light harrow) and make certain cotton seeds are below the tilled area.

# Weeds Controlled

When applied as directed, PROWL DG plus Zorial will control the following weeds in addition to those controlled by PROWL DG alone:

Pennsylvania smartweed (Polygonum pen.ylv.unicum) Prickly sida (Sida spinosa) Spurred anoda (Anoda cristata)

PROWL DG plus Zorial will aid in the control of and reduce competition from:

Cocklebur (Xanthium strumarium) Common ragweed (Ambrosia artemisiifolia) Annual morningglory (Ipomoea spp.) Nutsedge (Cyperus spp.) Sicklepod (Cassir obtusifolia)

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Broadcast Rate<sup>1</sup> Per Acre of PROWL DG Plus Zorial Preemergence Tank Mixture in Cotton

Soil Texture	PROWL DG + Zorial Rapid 80 or 80WP
COARSE	0.85 to 1.25 lbs + 1.25 lbs
MEDIUM	1.25 to 1.7 lbs + 1.9 lbs.
FINE	1.25 to 2.5 lbs + 2.5 lbs.

<sup>1</sup> For calculation of band treatment rate, see Spraying Instructions section (see table of contents for page number).

Use the 2.5 lbs rate of PROWL DG for heavy clay soils.

NOTE: If the cotton plant is stressed during early development, application of PROWL DG plus Zorial at the label rate may result in temporary bleaching or chlorosis of the leaves from which the plant will recover. If cotton crop loss occurs due to weather conditions, cotton can be replanted. If replanting is necessary, a light reworking of the soil will retain the herbicidal activity of PROWL DG plus Zorial. DO NOT feed forage or graze livestock in treated cotton fields. Observe all precautions and limitations on the Zorial label.

# PROWL DJ and PROWL DG Tank Mixtures in Minimum and NO-TILL Systems

PROWL DG alone or in a tank mixture may be applied preplant up to 15 days before planting or preemergence up to 2 days after planting in minimum or no-till cotton as follows:

PROWL DG alone PROWL DG + Roundup PROWL DG + Gramoxone Extra PROWL DG + Zorial PROWL DG + Zorial + Roundup PROWL DG + Zorial + Gramoxone Extra

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Roundup and Gramoxone Extra are used to kill existing vegetative growth, if present at application. No-till applications are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application. Consult tank-mix partner labels for use directions, rates and lists of weeds controlled. Follow all label precautions and restrictions. DO NOT use in no-till cotton in California.

Broadcast Rate Per Acre for No-till Cotton

Soil Texture (Up to 3% organic matter <sup>1</sup> )	PROWL DG (1bs)*	
COARSE	1.25 to 1.7	
MEDIUM	1.7 to 2.5	
FINE	2.5 to 3.4	

\* Use the high rates of PROWL DG for each soil texture, as stated above, if heavy weed populations are anticipated, or if extensive crop residues are present.

1 This use is not recommended for soils with more than 3% organic matter.

# Preplant Incorporated Application of PROWL DG for Control of Rhizome Johnsongrass

PROWL DG applied preplant incorporated for two consecutive years will provide control of rhizome johnsongrass (Sorghum halepense) in cotton at the rates recommended for soil textures listed below. This use is not recommended for Arizona, New Mexico and California. Rhizome johnsongrass will be suppressed after the first year and controlled after the second year.

Before application, use a chisel plow or similar implement to bring johnsongrass rhizomes to the surface. Chop rhizomes into small pieces with a disk harrow set to cut 4 to 6 inches deep and operated in two different directions at 4 to 6 mph."

PROWL DG is to be incorporated into the soil within 7 days after application prior to planting. For maximum control of rhizome johnsongrass, incorporate PROWL DG as soon as possible after application. Deep and thorough incorporation of PROWL DG is necessary for control of rhizome johnsongrass. Mechanical incorporation can be achieved by the following methods:

- a) Disk harrow set to cut 4 to 6 inches deep and operated in two different directions at 4 to 6 mph.
- b) PTO-driven equipment (tillers, cultivators, hoes) set to cut 3 to 4 inches deep and operated one time at 4 mph or less.

For johnsongrass escapes during the crop season, cultivation and/or application of registered postemergence herbicides is recommended. Follow the directions for use on the labels of the respective herbicides.

Broadcast Rate Per Acre of PROWL DG Preplant Incorporated for Control of Rhizome Johnsongrass in Cotton

Soil Texture (Up to 3% organic matter <sup>1</sup> )	PROWL DG (1bs)
COARSE	1.7
MEDIUM	2.5
Lind	3.4

APPLY FOR TWO CONSECUTIVE YEARS.

<sup>1</sup> This use is not recommended for soils with more than 3% organic matter.

NOTE: DO NOT feed forage or graze livestock in treated cotton fields.

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If cotton crop loss occurs due to weather conditions, cotton or soybeans can be replanted the same year into treated soil without adverse effects. If replanting is necessary, DO NOT rework the soil deeper than the treated zone.

SOYBEANS

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PROWL DG can be applied in soybeans as follows (DO NOT use PROWL DG in soybeans in California): Preplant Incorporated Sequential Preemergence PROWL DG alone PROWL DG preplant **PROWL DG alone** PROWL DG + SCEPTER incorporated followed PROWL DG + SCEPTER PROWL DG + PROWL DG + by preemergence Sencor/Lexone applications of: Sencor/Lexone PROWL DG + Lasso PROWL DG + Lorox Sencor/Lexone PROWL DG + Dual Lorox PROWL DG + Lasso PROJL DG + Command PRCWL DG preplant PROWL DG + Dual PROWL DG + PURSUIT PROWL DG + PURSUIT incorporated or PROWL DG + Canopy PROWL DG + Canopy preemergence PROWL DG + Preview followed by-**PROWL DG + Preview** postemergence applications of: SCEPTER SCEPTER O.T. PURSUIT **PROWL DG surface** applications up to 45 days before planting followed by postemergence applications of PURSUI1 Refer to PROWL DG Tank Mixtures in Minimum and No-till Systems subsection for use of PROWL DG in minimum and no-till soybeans. PROWL DG will pr vide control or aid in the control of and reduce competition from the following special weeds as detailed in the appropriate subsection: Itchgrass Rhizome johnsongrass Red rice Shattercane Woolly cupgrass PROWL DG is not recommended for use on peat or muck soils.

# Preplant Incorporated Applications of PROWL DG Alone

Apply PROWL DG with ground equipment or aircraft immediately before planting or up to 60 days prior to planting. Incorporate prior to planting and within 7 days of application. Refer to Incorporation Instructions section (see table of contents for page number) for incorporation directions.

The following rates for PROWL DG alone preplant incorporated should be used when no tank mixtures or sequential preemergence treatments are planned. Use PROWL DG alone rates when sequential postemergence broadleaf herbicide treatments are planned:

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# Broadcast Rate Per Acre of PROWL DG Alone Preplant Incorporated in Soybeans

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SOUTHERN STATES (Including Eastern Coastal Plains) <sup>1</sup>	
Soil Texture	PROWL DG (1bs)
COARSE	0.85 to 1.25
MEDIUM	1.25 to 1.7 ·
FINE	1.7 to 2.5

<sup>1</sup> See map at the end of this label for specific Southern states. DO NOT use in California.

For heavy clay soils, apply PROWL DG at the broadcast rate of 2.5 lbs per acre.

The high rates for each soil texture above should be used if heavy weed populations are anticipated.

# Broadcast Rate Per Acre of PROWL DG Alone Preplant Incorporated in Soybeans

NORTHERN STATES<sup>1</sup>

Soil Texture	PROWL DG (1bs) Up to 3% Organic Matter	PROWL DG (1bs) More than 3% Organic Matter
COARSE	0.85 to 1.7	1.7
MEDIUM	1.25 to 2.1	2.1 to 2.5
FINE	1.7 to 2.5	2.5

 $^1$  See map at end of this label for specific Northern states.

For heavy clay soils, apply PROWL DG at the broadcast rate of 2.5 lbs per acre.

NOTE: Livestock can graze or be fed soybean forage from treated fields. If soybean crop loss occurs due to weather conditions, soybeans or any crop registered for PROWL DG preplant incorporated use can be replanted. If replanting is necessary, DO NOT rework the soil deeper than the treated zone.

#### PROWL DG Preemergence General Instructions

Use the following instructions when applying PROWL DG preemergence alone or in recommended tank mixtures in soybeans. Apply PROWL DG preemergence from 15 days before planting up to 2 days after planting. Apply to a seedbed which is firm and free of clods and trash. DO NOT APPLY POSTEMERGENCE. Preemergence treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application. DO NOT make applications of PROWL DG preemergence north of Interstate 80.

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If moisture is insufficient to activate the herbicides, a shallow cultivation (preferably with a rotary hoe) should be made after emergence of soybeans, but while weeds are small enough to be controlled by mechanical cultivation, other ise a postemergent herbicide treatment may be required.

A shallow, thorough mixing of soil after herbicide application with a rotary hoe or similar implement will improve consistency of performance and reduce dependency on rainfall to activate herbicides.

Soil Texcure	PROWL DG (1bs) Up to 3% Organic Matter	PROWL DG (1bs) More than 3% Organic MAtter
COARSE	0.85 to 1.25	1.25
MEDIUM	1.25 to 1.7	1.25 to 1.7
FINE	1.25 to 1.7	1.7 to 2.1

# Broadcast Rates Per Acre for PROWL DG Preemergence in Soybeans

The high rates of PROWL DG for each soil texture, as stated above, should be used if heavy weed populations are anticipated or if extensive crop residues were present prior to seedbed preparation.

NOTE: Livestock can graze or be fed forage from treated soybean fields. In the event of a crop loss due to weather conditions, soybeans can be replanted without adverse effects the same year. If replanting is necessary, a light reworking of the soil will retain the herbicidal activity of PROWL DC.

# PROWL DG Plus SCEPTER herbicide

The following PROWL DG plus SCEPTER herbicide treatments can be used in soybeans. Apply PROWL DG plus SCEPTER treatments with ground equipment or aircraft. Use PROWL DG and SCEPTER rates listed in table below. See SCEPTER label for use restrictions. Se Rotational Crop Restrictions below.

Uniformly apply PROWL DG plus SCEPTER with properly calibrated ground' equipment in 10 or more gallons of water or 20 or more gallons of liquid fertilizer per acre. Use sprayers equipped with nozzles that provide accurate and uniform application. To minimize drift, use a maximum spray pressure of 40 psi. For aerial applications, apply PROWL DG plus SCEPTER with properly calibrated aerial equipment in 5 or more gallons of water per acre. To avoid injury to sensitive crops from drift, aerial applicators must adhere to the SPECIAL AERIAL USE DIRECTIONS AND PRECAUTIONS found in the SCEPTER label.

1. Preplant incorporated tank mixture of PROWL DG plus SCEPTER

Incorporate into the soil within 7 days after application, and plant soybeans within 45 days after application. (30 days in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee and Texas). Refer to Incorporation Instructions section (see table of contents for page number) for incorporation directions.

2. Preemergence tank mixture of PROWL DG plus SCEPTER

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Apply from 45 days before planting up to 2 days after planting. DO NOT APPLY postemergence to soybeans. As with other harbicides applied preemergence, rainfall or irrigation is necessary to activate PROWL DG plus SCEPTER in the soil. If sufficient moisture to activate PROWL DG plus SCEPTER is not received within 7 days after application, a thorough shallow tillage or cultivation is recommended (preferably with a rotary hoe) for optimum weed control, otherwise a postemergence treatment may be required. DO NOT make applications of PROWL DG preemergence north of Interstate 80. Consult the SCEPTER label for correct application timing. Follow all cautions, restrictions and use instructions in the SCEPTER label.

3. Sequential applications of PROWL DG preplant incorporated or preemergence followed by SCEPTER postemergence Refer to the appropriate section of this label for PROWL DG use rates and instructions. See the SCEPTER label for use rates, instructions, and weeds controlled.

# Weeds Controlled

When applied as directed, tank mixtures of PROWL DG plus SCEPTER will control the following weeds in addition to those controlled by PROWL DG alone:

Shattercane\* (Sorghum bi :olor) Bristly starbur (Acantho spermum hispidum) Burcucumber (Sicyos angulatus) Cupgrass, Woolly\* (Eriochloa villosa) Cocklebur, common (Xanthium strumarium) Galinsoga (Galinsoga spp.) Jimsonweed (Datura stramonium) Mallow, Venice (Hibiscus trionum) Morningglory Palmleaf (Ipomoea wrightii) Pitted (Ipomoea lacunosa) Smallflower (Jacquemontia tamnifolia) Mustard Species (Brassica spp.) Nightshade, Eastern black\* (Solanum ptycanthium) Poinsettia, V d (Euphorbia heterophylla) Ragweed Common (Ambrosia artemisiifolia) Giant\* (Ambrosia trifida) Sida, Prickly (Teaweed) (Sida spinosa) Smartweed Ladysthumb (Polygonum persicaria) Pennsylvania (Polygonum pensylvanicum)

Sunflower, common (Helianthus annuus) Velvetleaf\* (Abutilon theophrasti)

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PROWL DG plus SCEPTER soil applied treatments will aid in the control of and reduce competition from:

Beggarweed, Florida (Desmodium tortuosum) Mexicanweed (Caperonia castanifolia) Morningglory\*\* Entireleaf (Ipomoea hederacea var. integriuscula) Ivyleaf (Ipomoea hederacea) Tall (Ipomoea purpurea) Nutsedge, Yellow\* (Cyperus esculentus) Sicklepod (Cassia obtusifolia) Texasweed (Caperonia palustri )

- \* Preplant incorporated applications only. Use the high rates of PROWL DG if heavy weed populations are anticipated.
- \*\* For best activity on morningglory species, use a preplant incorporated application.

Less than 3% organic matter		More than 3% organic matt		
Soil Texture	PROWL DG (1bs)	SCEPTER <sup>2</sup> (pints)	PROWL DG (1bs)	SCEPTER <sup>2</sup> (pints)
COARSE	0.85 to 1.25	2/3	1.25	2/3
MEDIUM	1.25 to 1.7	2/3	1.25 to 1.7	2/3
FINE	1.25 to 1.7	2/3	1.7 to 2.1	2/3

BROADCAST RATES OF PROWL DG PLUS SCEPTER PREPLANT INCORPORATED OR PREEMERGENCE TANK MIX APPLICATIONS IN SOYBEANS<sup>1</sup>

- NOTE: Use the higher rate of PROWL DG if heavy weed populations are anticipated or if shattercane will be present.
- <sup>1</sup> See USE AREA section of the SCEPTER label for states where PROWL DG plus SCEPTER can be applied.
- <sup>2</sup> When using SCEPTER 70DG use equivalent rates. A SCEPTER 70DG rate of 2.8 ounces per acre is equivalent to 2/3 pint per acre of SCEPTER.

# ROTATIONAL CROP RESTRICTIONS

Follow all rotational crop restrictions or the PROWL DG and SCEPTER labels. Always follow the most restrictive label.

In the event of a crop loss due to weather conditions, soybeans can be replanted. DO NOT work the soil deeper than 2 inches.

DO NOT GRAZE OR FEED TREATED SOYBEAN FORAGE, HAY OR STRAW TO LIVESTOCK.

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Preplant incorporated or preemergence applications of PROWL DG in soybeans may be followed by postemergence applications of SCEPTER O.T. See SCEPTER O.T. label for use restrictions and precautions.

Refer to the appropriate section of this label for PROWL DG use rates and instructions. See the SCEPTER 0.T. label for use rates, instructions, and weeds controlled.

Follow all rotational crop restrictions on the PROWL DG and SCEPTER 0.T. labels. Always follow the most restrictive label.

## PROWL DG Plus PURSUIT herbicide

The following PROWL DG plus PURSUIT herbicide treatments can be used in soybeans. Use PROWL DG and PURSUIT rates listed in the table below. See PURSUIT label for use restrictions. See Rotational Crop Restriction; below.

Uniformly apply PROWL DG plus PURSUIT with properly calibrated equipment in 10 or more gallons of water or 20 or more gallons of liquid fertilizer per acre with ground equipment, or in 5 or more gallons of water per acre by air. Use sprayers equipped with nozzles that provide accurate and uniform application. To minimize drift, use a maximum spray of 40 psi.

# 1. Preplant incorporated tank mixture of PROWL DG plus PURSUIT

Incorporate into the soil within 7 days after application, and plant soybeans within 45 days after application. Refer to Incorporation Instructions section (see table of contents for page number) for incorporation directions.

2. Preemergence tank mixture of PROWL DG plus PURSUIT

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Apply from 45 days before planting up to 2 days after planting. DO NOT APPLY postemergence to soybeans. As with other herbicides applied preemergence, rainfall or irrigation is necessary to activate PROWL DG plus PURSUIT in the soil. If sufficient moisture to activate PROWL DG plus PURSUIT is not received within 7 days after application, a thorough, shallow tillage or cultivation is recommended (preferably with a rotary hoe) for optimum weed control, other wise a postemergence treatment may be required. DO NOT make applications of PROWL DG preemergence north of Interstate 80. Follow all precautions, restrictions and instructions in the PURSUIT label.

3. Sequential applications of PROWL DG preemergence or preplant incorporated followed by PURSUIT postemergence Refer to the appropriate section of this label for PROWL DG use rates. PROWL may be surface applied up to 45 days before planting when followed by PURSUIT applications postemergence. Consult the minimum/no-till applications in soybeans section for use instructions.

# Weeds Controlled

When applied as directed, PROWL DG plus PURSUIT will control the following weeds in addition to those controlled by PROWL DG alone. See the PURSUIT label for weed height limitations for PURSUIT postemergence applications.

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Artichoke, Jerusalem<sup>1</sup> (Helianthus tuberosus) Cocklebur, common<sup>2,3</sup> (Xanthium strumarium) Foxtail giant green (Setaria sp.) robust purple (Setaria viridis, var. robusta-purpurea) robust white (Setaria viridis, var. robusta-alba) Galinsoga (Galinsoga spp.) Itchgrass<sup>4</sup>,<sup>5</sup> (Rottboellia exaltata) Jimsonweed<sup>1</sup> (Datura stramonium) Johnsongrass, rhizome<sup>5,6</sup> (Sorghum halepense) Lambsquarters, common<sup>3</sup> (Chenopodium album) Mallow, Venice<sup>1</sup> (Hibiscus trionum) Morningglory entireleaf<sup>3</sup> (ipomoea hederacea var. integriuscula) ivyleaf<sup>3</sup> (Ipomoes hederaces) pitted<sup>3</sup> (Ipomoea lacunosa) smallflower (Jacquemontia tamnifolia) tall<sup>3</sup> (Ipomoea purpurea) Mustard species (Brassica spp.) Nutsedge, yellow<sup>5</sup> (Cyperus esculentus) Nightshade black (Solanum nigrum) Eastern black (Solanum ptycanthum) hairy (Solanum sarrachoides) Puncturevine (Tribulus terrestris) nagweed common (Ambrosia artemisiifolia) giant<sup>3</sup> (Ambrosia trifida) Shattercane<sup>5</sup> (Sorghum bicolor) Sida, prickly<sup>3</sup> (teaweed) (Sida spinosa) Smartweed ladysthumb (Polygonum persicaria) Pennsylvania (Polygonum pensylvanicum) Spurge prostrate (Euphorbia humistrata) spotted (Euphorbia maculata) Surflower, common<sup>3</sup> (Helianthus annuus) Ve\_vetleaf<sup>3</sup> (Abutilon theophrasti) Waterhemp, tall (Amaranthus tuberculatos) Wild proso millet<sup>4</sup>,<sup>5</sup> (Panicum miliaceum) Woolly cupgrass<sup>6</sup> (Eriochloa villosa)

- <sup>1</sup> PROWL DG preplant incorporated or preemergence followed by PURSUIT postemergence only.
- <sup>2</sup> Heavy infestations will only be controlled by PROWL DG preplant incorporated or preemergence followed by PURSUIT postemergence.
- <sup>3</sup> For soil applied tank mixtures, preplant incorporated applications give better results than preemergence applications.

<sup>4</sup> PROWL DG plus PURSUIT preplant incorporated only.

<sup>5</sup> Suppression only.

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<sup>6</sup> PROWL DG plus PURSUIT preplant incorporated, or PROWL DG soil applied followed by PURSUIT postemergence only.

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Less than 3% organic matter		More than 3% organic matte		
Soil Texture	PROWL DG (1ba)	PURSUIT (pints)	PROWL DG (1bs)	PURSUIT (pints)
COARSE	0.85 to 1.25	1/4	1.25	1/4
MEDIUM	1.25 to 1.7	1/4	1.25 to 1.7	1/4
FINE	1.25 to 1.7	1/4	1.7 to 2.1	1/4

- NOTE: Use the higher rate of PROWL DG if heavy weed populations are anticipated or if shattercane will be present.
- <sup>1</sup> See USE AREA section of the PURSUIT label for states where PROWL DG plus PURSUIT can be applied.

DO NOT GRAZE OR FEED TREATED SOYBEAN FORAGE, HAY, OR STRAW TO LIVESTOCK.

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# **ROTATIONAL CROP RESTRICTIONS**

Follow all rotational crop restrictions on the PROWL DG and PURSUIT labels. Always follow the most restrictive label.

# PROWL DG Plus Sencor/Lexone

The following PROWL DG plus Sencor/Lexone treatments may be used in soybeans. Apply PROWL DG olus Sencor/Lexone treatments with ground equipment or aircraft. Refer to Incorporation Instructions section (see table of contents for page number) for incorporation directions. Use PROWL NG and Sencor/Lexone rates listed in table below. See special precautions below.

- 1. PROW. 3 Preplant Incorporated Followed by Sencor/Lexone Preemergence Apply PROWL DG preplant incorporated. Follow with a preemergence treatment of Sencor/Lexone as directed on the Sencor or Lexone label.
- 2. Preplant Incorporated Tank Mixture of PROWL DG plus Sencor/Lexone PROWL DG plus Sencor/Lexone must be incorporated into the soil within 7 days after application and soybeans must be planted no later than 7 days after application. For best results, incorporation should be in the top 1 to 2 inches of soil.
- 3. Preemergence Tank Mixture of PROWL DG plus Sencor/Lexone Apply PROWL DG plus Sencor/Lexone preemergence tank mixture from 15 days before planting up to 2 days after planting. Refer to PROWL DG Preemergence General Instructions subsection above. DO NOT APPLY POSTEMERGENCE.

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# Sencor or Lexone Combinations

Soybean seed should be planted at least 1-1/2 inches below soil surface. Applications should not be made to soils having calcareous surface or a pH of 7.5 or higher. Soil incorporation deeper than recommended will reduce weed control and can result in crop injury.

The PROWL DG plus Sencor or Lexone treatment can be applied only once per cropping season. DO NOT USE on sensitive soybean varieties -- Altona, Coker 102 and 156, Govan, Semmes, Tracy or Vansoy.

Follow cropping restrictions on Sencor and Lexone labels.

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# Weeds Controlled

PROWL DG plus Sencor/Lexone will control the following weeds in addition to those controlled by PROWL DG alone:

Common ragweed (Ambrosia artemisiifolia) Jimsonweed (Datura stramonium) Pennsylvania smartweed (Polygonum pensylvanicum) Trickly sida (Sida spinosa) Hemp Sesbania (Sesbania exaltata) Velvetleaf (Buttonweed) (Abutilon theophrasti) Venice mallow (Hibiscus trionum) Wild mustard (Brassica kaber) (medium and fine soils only)

PROWL DG plus Sencor/Lexone will aid in the control of and reduce competition from cocklebur (Xanthium strumarium). Use either a preplant incorporated application of PROWL DG followed by a preemergence application of Sencor/Lexone or a preemergence tank mixture of PROWL DG plus Sencor/Lexone where severe cocklebur infestations are an cipated. See appropriate subsection below for PROWL DG plus Sencor/Lexone use for shattercane control.

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Broadcast Rates Per Acre of PROWL DG Plus Sencor/Lexone
Preplant Incorporated or Preemergence Tank Mixtures or
PROWL DG Preplant Incorporated followed by Sencor/Lexone Preemergence

	SOUTHERN STATES (Including Eastern Coastal Plains) <sup>1</sup>	NORTHERN STATES <sup>1</sup>	
	PROWL DG +	PROWL DG +	PROWL DG +
	Sencor/Lexone DF <sup>2</sup>	Sencor/Lexone DF <sup>2</sup>	Sencor/Lexone DF <sup>2</sup>
Soil		1/2 to 3%	More than 3%
Texture <sup>3</sup>		Organic Matter	Organic Matter
COARSE	0.85 to 1.25 lbs	0.85 to 1.25 lbs	1.25 lbs
	+ 0.33 lb	+ 0.5 lb	+ 0.5 lb
MEDIUM	1.25 to 1.7 lbs	1.25 to 1.7 lbs	1.25 to 1.7 lbs
	+ 0.5 lb	+ 0.5 lb	+ 0.5 to 0.67 lb
FINE	1.25 to 1.7 lbs	1.25 to 1.7 lbs	1.7 to 2.1 lbs
	+ 0.5 to 0.67 lb	+ 0.5 to 0.67 lb	+ 0.67 lb

<sup>1</sup> See map at end of this label for specific states.

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- <sup>2</sup> When using Sencor 4F, Sencor 50WP, Lexone 4L or Lexone 50WP, use equivalent rates. One pint of the flowable formulation or 1 lb. of the wettable powder formulation equals 0.67 lb. of Sencor DF or Lexone DF. See conversion chart in Formulation Conversion Tables section (see table of contents for page number).
- <sup>3</sup> DO NOT USE on sands. DO NOT USE on loamy sands or on sandy loams that contain less than 1% organic matter or on other soils with less than 1/2% organic matter as crop injury may result. This tank mixture is not recommended for use on soils with less than 2% organic matter in the Coastal Plain of New Jersey or the Delmarva Peninsula.
- NOTE: In the event of a crop loss due to weather conditions, soybeans can be replanted without adverse effects the same year. If replanting is necessary, DO NOT rework the soil. Livestock can graze or be fed soybean forage from treated fields 40 days after application. Observe all precautions and limitations on Sencor and Lexone labels.

# PROWL DG Plus Lorox

The following PROWL DG plus Lorox treatments may be used in soybeans. Apply PROWL DG plus Lorox with ground equipment or aircraft. Refer to Incorporation Instructions section for incorporation direction. Use PROWL DG and Lorox rates listed in the table below.

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- 1. PROWL DG Preplant Incorporated Followed by Lorox Preemergence Apply PROWL DG preplant incorporated. Follow with a preemergence treatment of Lorox as directed on the Lorox label.
- 2. Preemergence Tank Mixtures of PROWL DG plus Lorox Apply PROWL DG plus Lorox preemergence tank mixture from 15 days prior to planting up to 2 days after planting. Refer to previous subsection on PROWL DG Preemergence General Instructions above. DO NOT APPLY POSTEMERGENCE.

Weeds Controlled

When applied as directed, PROWL DG plus Lorox will control the following weeds in addition to those controlled by PROWL DG alone:

> Mustard (Brassica spp.) Pennsylvania smartweed (Polygonum pensylvanicum) Velvetleaf (Buttonweed) (Abutilon theophrasti)

PROWL DG plus Lorox will aid in the control of and reduce competition from:

Common ragweed (Ambrosia artemisiifolia)

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# Broadcast Rate Per Acre of PROWL DG Plus Lorox Preemergence Tank Mixtures or PROWL DG Preplant Incorporated Plus Lorox Preemergence

Soil Texture <sup>2</sup>	PROWL DG (1bs) + I^rox L <sup>1</sup> (pints) 1/2 to 3% Organic Matter	
COARSE Sandy loams onl	0.85 to 1.25 + 1.0 y	1.25 + 1.0 to 1.5
MEDIUM	1.25 to 1.7 + 1.0 to 1.5	1.25 to 1.7,+ 1.5 to 2.0
FINE	1.25 to 1.7 + 1.5 to 2.0	1.7 to 2.1 + 2.0 to 2.5

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- <sup>1</sup> When using Lorox 50W use equivalent rates. One pint of the flowable formulation equals 1 lb. of the wettable powder formulation. See conversion chart in Formulation Conversion Tables section (see table of contents for page number).
- <sup>2</sup> DO NOT USE on sands, loamy sands, or gravelly soils, or on soils containing less than 1/2% organic matter.
- NOTE: Livestock may graze or be fed forage from treated soybean fields. If soybean crop loss occurs due to weather conditions, soybeans may be replanted. If replanting is necessary, thoroughly rework the soil before replanting. Observe all precautions and limitations on Lorox label.

# PROWL DG Plus Lasso

The following PROWL DG plus Lasco treatments may be used in soybeans. Apply PROWL DG plus Lasso treatments with ground equipment. Refer to Incorporation Instructions section (see talle of contents for page number) for incorporation directions. Use PROWL DG and Lasso rates listed in the table below.

1. Preplant Incorporated Tank Mixture of PROWL DG Plus Lasso PROWL DG plus Lasso must be incorporated into the soil within 7 days after application and soybeans must be planted no later than 7 days after application. Incorporate into the top 1 to 2 inches of soil.

Incorporation on coarse soils may reduce length of control due to leaching of Lasso with rainfall or irrigation. Incorporation is not recommended on coarse soils in the Southeastern States.

# 2. Preemergence Tank Mixtures of PROWL DG plus Lasso

Apply PROWL DG plus Lasso preemergence tank mixture from 15 days before planting up to 2 days after planting. Refer to previous subsection on PROWL DG Preemergen e General Instructions above. DO NOT APPLY POSTEMERGENCE. This treatment must be applied within 5 days of the last preplant tillage. High intensity or excessive rainfall or excessive irrigation after application may reduce weed control.

# Weeds Controlled

When applied as directed, PROWL DG plus Lasso will control the following weeds in addition to those controlled by PROWL DG alone:

> Black nightshade (Solanum nigrum) Hairy nightshade (Solanum sarrachoides) Red rice (Oryza sativi)\* Yellow nutsedge (Cyperus esculentus)\*

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\*Apply preplant incorporated only for control of these weeds.

Broadcast Rates per Acre of PROWL DG Plus Lasso Preplant Incorporated or Preemergence Tank Mixtures

Soil Texture	PROWL DG + Lasso Up to 3% Organic Matter	PROWL DG + Lasso More than 3% Organic Matter
COARSE	0.85 to 1.25 lbs + 2.5 qts	1.25 lbs + 2.5 qts
MEDIUM	1.25 to 1.7 pts + 3.0 to 4.0 qts	1.25 to 1.7 lbs + 3.0 to 4.0 qts
FINE	1.25 to 1.7 lbs + 3.0 to 4.0 qts	1.7 to 2.1 lbs + 3.0 to 4.0 qts

Observe all precautions and limitations on the Lasso label.

#### PROWL DG Plus Dual

The following PROWL DG plus Dual treatments may be used in soybeans. Apply PROWL DG plus Dual treatments with ground equipment or aircraft. Refer to Incorporation Instructions section (see table of contents for page number) for incorporation directions. Use PROWL DG and Dual rates listed in the following table.

1. Preplant Incorporated Tank Mixture of PROWL DG Plus Dual PROWL DG plus Dual must be incorporated into the soil within 7 days after application and soybeans must be planted no later than 14 days after application. Incorporate into the top 1 to 2 inches of soil.

Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. If soybeans are planted on beds, apply and incorporat. after bed formation.

# 2. Preemergence Tank Mixtures of PROWL DG Plus Dual

Apply PROWL DG plus Dual preemergence tank mixture from 15 days before planting up to 2 days after planting. Refer to previous subsection on PROWL DG Preemergence General Instructions above. DO NOT APPLY POSTEMERGENCE.

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#### Weeds Controlled

When applied as directed, PROWL DG plus Dual will control the following weeds in addition to those controlled by PROWL DG  $\varepsilon$ lone:

Red rice (Oryza sativa) Yellow nutsedge (Cyperus esculentus) Black nightshade (Solanum nigrum)

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Broadcast Rates Per Acre of PROWL DG Plus Dual Preplant Incorporated or Preemergence Tank Mixtures

Soil Texture	PROWL DG (1bs) + Dual 8E (pints) Up to 3% Organic Matter	PROWL DG (1bs) + Dual 8E (pints) More than 3% Organic Matter
COARSE	0.85 to 1.25 + 1.5 to 2.0	1.25 + 2.0
MEDIUM	1.25 to 1.7 + 2.0 to 2.5	1 25 to 1.7 + 2.0 to 2.5
FINE	1.25 to 1.7 + 2.0 to 2.5	1.7 to 2.1 + 2.5 to 3.0

Observe all precautions and limitations on the Dual label.

# PROWL DG Plus Command 4EC

PROWL DG plus Command 4EC tank mixture may be applied preplant incorporated for weed control in soybeans. See the Command label for states where PROWL DG plus Command may be applied.

Uniformly apply PROWL DG plus Command 4EC with properly calibrated ground equipment in 10 to 40 gallons of water per acre. Use sprayers equipped with nozzles that provide accurate and uniform application. NOTE: The use of an agriculturally approved drift reducing agent is required at finished spray volumes of 10 to 15 gallons per acre.

Apply PROWL DG plus Command 4EC to the soil surface and uniformly incorporate. See the Command label for incorporation requirements and instructions. DO NOT apply this tank mixture to overly moist or wet soils.

### Special Precautions

Command 4EC is a volatile compound. Off-site movement of spray drift or vapors of Command can cause foliar whitening or yellowing of some plants. Prior to using Command, read and strictly follow all precautions and application instructions on the Command label.

### Weeds Controlled

When applied as directed, PROWL DG plus Command 4EC will control the following weeds in addition to those controlled by PROWL DG alone:

Velvetleaf (Abutilon theophrasti)

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Tank mixtures of PROWL DG plus Command 4EC will reduce competition from:

#### Cocllebur (Xanthium strumarium)

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Follow all rotational crop restrictions on the PROWL DG and Command labels. Always follow the most restrictive label.

Broadcast Rates Per Acre of PROWL DG Plus

Command 4EC rreplant incorporated			
Soil Texture	PROWL DG (1bs) + Command 4EC (pints) Up to 3% Organic Matter	PROWL DG (1bs) + Command 4EC (pints) More than 3% Organic Matter	
COARSE	0.85 to 1.25 + 0.75	1.25 + 0.75	
MEDIUM	1.25 to 1.7 + 1.0	1.25 to 1.7 + 1.0	
FINE	1.25 to 1.7 + 1.5	1.7 to 2.1 + 1.5	

When heavy weed populations are anticipated, apply PROWL DG at the high rate for each soil texture.

NOTE: Do not allow livestock to graze on soybean vines or use the vines for feed. Cover crops may be planted anytime but stand reductions may occur. Do not graze or use the cover crop for feed.

# PROWL DG Plus Calopy

Observe all precautionary statements on the Canopy label before using.

The following PROWL DG plus Canopy treatments may be used in soybeans. Apply PROWL DG plus Canopy with a properly calibrated low pressure (20 to 40 psi) fixed-boom sprayer equipped with fan type nozzles and screens no finer than 50 mesh. Continuous agitation in the spray tank is required to keep the material in suspension. Avoid overlap and shut off spray booms while starting, turning, slowing or stopping, or crop injury may result.

DO NOT apply on peat or muck soils having a calcareous surface layer.

DO NOT apply on soils with a pH greater than 7.0, except as directed on the Canopy label.

Consult the Canopy label for sensitive soybean varieties. Before use on any soybean variety, tolerance to Canopy must first be determined.

1. Preplant Incorporated Tank Mixture of PROWL DG plus Canopy

Apply immediately before planting or up to two weeks prior to planting. Incorporate prior to planting and within 7 days of application. Refer to Incorporation Instructions section (see table of contents for page number) for incorporation directions.

2. Preemergence Tank Mixture of PROWL DG plus Canopy Apply from 15 days before planting up to 2 days after planting, but before weeds and crop emerge. DO NOT APPLY POSTEMERGENCE. Preemergence treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application.

If moisture is insufficient to activate the herbicides, a shallow cultivation (preferably with a rotary hoe) should be made after emergence of soybeans, but while weeds are still small enough to be controlled by mechanical cultivation.

DO NOT make applications of PROWL DG preemergence north of Interstate 80.

# Weeds Controlled

When applied as directed, PROWL DG plus Canopy will control the following weeds in addition to those controlled by PROWL DG alone:

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Cocklebur\* (Xanthium strumarium) Florida beggarweed (Desmodium tortuosum) Hemp sesbania (Sesbania exaltata) Hophornbeam copperleaf (Acalypha ostryaefolia) Jimsonweed (Datura stramonium) Morningglory\* Entireleaf (Ipomoea hederacea var. Intergriuscula) Ivyleaf (Ipomoea hederacea) Pitted (Ipomoea lacunosa) Smallflower (Jacuemontia tammifolia) Tall (Ipomoea purpurea) Mustard, wild (Sinapsis arvensis) Prickly sida (teaweed) (Sida spinosa) Poinsettia, wild (Euphorbia heterophylla) Ragweed Common (Ambrosia artemisiifolia) Giant\* (Ambrosia trifida) Sicklepod\* (Cassia obtusifolia) Smartweed (Polygonum pensylvanicum) Sunflower (Helianthus annuus) Velvetleaf (Abutilon theophrasti)

Tank mixtures of PROWL DG plus Canopy will aid in the control of and reduce competition from:

Burcucumber (Sicyos angulatus) Mexicanweed (Caperonia castanifolia) Purpl: Nutsedge (Cyperus rotundus) Yellow Nutsedge (Cyperus esculentus)

\* Cultivation or application of a postemergence herbicide may be required for season long control.

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Broadcast Rates Per Acre of PROWL DG Plus Canopy Preplant Incorporated and Preemergence Tank Mixtures

Soil Texture	PROWL DG (1bs) + Canopy (ounces) 0.5%* to 3% Organic Matter	PROWL DG (1bs) + Canopy (ounces) 3% to 5% Organic Matter
COARSE	0.85 + 6	1.25 + 8
MEDIUM**	1.25 + 8	1.25 to 1.7 + 10
FINE	1.25 + 10	1.7 to 2.1 + 12

\* DO NOT apply to soil with less than 0.5% organic matter.

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- \*\* Use 5-6 oz/A of Canopy on medium soils with 0.5 3% O.M. in southeast KS, southwest MO and northeast OK. Use 6-8 oz/A of Canopy on silt loam soils in TN and KY. Canopy application rate should be increased by 15% on higher organic matter soils or if heavy weed pressure is anticipated.
- NOTE: If crop loss occurs due to weather conditions and soybeans are replanted, seeding depth must be below retilled area. Observe all cropping restrictions on the Canopy label.

# **PROWL DG Plus Preview**

Observe all precautionary statements on the Preview label before using.

The following PROWL DG plus Preview treatments may be used in soybeans. Apply PROWL DG plus Preview with a properly calibrated low pressure (20 to 40 psi) fixed-boom sprayer equipped with fan type nozzles and screens no finer than 50 mesh.

Continuous agitation in the spray tank is required to keep the material in suspension. Avoid overlap and shut off spray booms while starting, turning, slowing or scopping, or crop injury may result.

DO NOT apply on peat or muck soils, soils having a calcareous surface layer, or soils with a pH greater than 6.8.

Consult the Preview label for sensitive soybean varieties. Before use on any soybean variety, tolerance to Preview must first be determined.

# 1. Preplant Incorporated Tank Mixture of PROWL DG plus Preview

Apply immediately before planting or up to two weeks prior to planting. Incorporate prior to planting and within 7 days of application. Refer to Incorporation Instructions section (see table of contents for page number) for incorporation directions.

# 2. Preemergence Tank Mixture of PROWL DG plus Preview

Apply from 15 days before planting up to 2 days after planting, but before weeds and crop emerge. DO NOT APPLY POSTEMERGENCE. Preemergence treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application.

If moisture is insufficient to activate the herbicides, a shallow cultivation (preferably with a rotary hoe) should be made after emergence of soybeans, but while weeds are still small enough to be controlled by mechanical cultivation. DO NOT make applications of PROWL DG preemergence north of Interstate 80. Weeds Controlled When applied as directed, PROWL DG plus Preview will control the following weeds in addition to those controlled by PROWL DG alone: Cocklebur\* (Xanthium strumarium) Hophornbeam copperleaf (Acalypha ostryaefolia) Jimsonweed (Datura stramonium) Mustards (Biassica spp.) Prickly sida (teaweed) (Sida spinosa) Ragweed, common (Ambrosia artemisiifolia) Smartweed (Polygonum pensylvanicum) Sunflower\* (Helianthus annuus) Velvetleaf (Abutilon theophrasti) Tank mixtures of PROWL DG plus Preview will aid in the control of and reduce competition from; Eastern black -ightshade (Solanum ptycanthum) Burcucumber (Sicyos angulatus) Morningglory\* Entireleaf (Ipomoea hederacea var. Intergriuscula) Ivylea\_ (Ipomoea hederacea) Pitted (Ipomoea lacunosa) Tall (Ipomoea purpurea) Nutsedge (Cyperus spp.) Ragweed, giant\* (Ambrosia trifida) \* Cultivation or application of a postemergence herbicide may be required to achieve season long control. Broadcast Rates Per Acre of PROWL DG Plus Preview Preplant Incorporated and Preemergence Tank Mixtures

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Soil Texture*	PROWL DG (1bs) + Preview (ounces) 0.5%* to 3% Organic Matter	PROWL DG (1bs) + Preview (ounces) 3% to 5% Organic Matter
COARSE	0.85 + 6	1.25 + 7
MEDIUM	1.25 + 7	1.25 to 1.7 + 8
FINE	1.25 + 8	1.7 to 2.1 + 9 to 10

\* DO NOT apply to soil with less than 0.5% organic matter.

NOTE: If crop loss occurs due to weather conditions and soybeans are replanted, seeding depth must be below retilled area. Observe all cropping restrictions on the Preview label.

# Special Weeds

# 1. Shattercane/Woolly Cupgrass -

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Preplant incorporated treatments of PROWL DG alone, PROWL DG plusy SCEPTER or PROWL DG plus Sencor/Lexone preplant incorporated tank mixtures, or preplant incorporated PROWL DG applications followed byregistered sequential preemergence or postemergence herbicides will control shattercane (wild cane) (Sorghum bicolor).

Preplant incorporated treatments of PROWL plus PURSUIT or preplant incorporated PROWL applications followed by an early postemergence application of PURSUIT herbicide or other registered sequential preemergence or postemergence herbicides will control woolly cupgrass (Eriochloa villosa).

Shattercane and woolly cupgrass are difficult to control in many soybean growing areas because of their ability to germinate from a greater depth in the soil than most other weeds. Shattercane and woolly cupgrass can emerge throughout the growing season depending on soil temperature, moisture, and seed dormancy.

Thoroughly mix previous crop residues into the soil and destroy any existing vegetation prior to herbicide application. Apply PROWL DG or PROWL DG combinations at the recommended rates listed in tables following. See Incorporation Instructions section (see table of contents for page number) for incorporation directions. Thoroughly and uniformly mechanically incorporate PROWL DG into TOP 2 INCHES of soil. Acceptable results CANNOT be expected if PROWL DG is applied preemergence. Cultivation may be necessary to control escapes and late germinating shattercane or woolly cupgrams during the crop season.

Soil Texture	PROWL DG (1bs) Up to 3% Organic Matter	PROWL DG (1bs) More than 3% Organic Matter
COARSE	1.7	1.7
MEDIUM	2.1	2.5
FINE	2.5	2.5

Broadcast Rate Per Acre of PROWL DG Preplant Incorporated for Control of Shattercane or Woolly Cupgrass in Soybeans 700404

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Broadcast Rate Per Acre of PROWL DG Plus Sencor/Lexone Preplant Incorporated Tank Mixture forfor Control of Shattercane in Soybeans<sup>1</sup>

Soil Texture <sup>3</sup>	PROWL DG + Sencor/Lexone DF <sup>2</sup> 0.5% to 3% Organic Matter	PROWL DG + Sencor/Lexone DF <sup>2</sup> More than 3% Organic Matter
COARSE	1.25 lbs + 0.5 lb	1.25 lbs + 0.5 lb
MEDIUM	1.7 lbs + 0.5 lb	1.7.1bs + 0.5 to 0.67 lb
FINE	1.7 lbs + 0.5 to 0.67 lb	2.1 lbs + 0.67 lb

<sup>1</sup> Refer to Special Precautions for PROWL DG Plus Sencor or Lexone Combinations subsection above.

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- <sup>2</sup> When using Sencor 4F, Sencor 50WP, Lexone 4L or Lexone 50WP use equivalent rates. One pint of the flowable formulation or 1 lb. of the wettable powder formulation equals 0.67 lb. of Sencor DF or Lexone DF. See conversion chart in Formulation Conversion Tables section (see table of contents for page number).
- <sup>3</sup> DO NOT USE on sands. DO NOT USE on leamy sands or on sandy loams that contain less than 1% organic matter, or on other soils with less than 1/2% crganic matter as crop injury may result.
- 2. Red Rice, Itchgrass PROWL DG applied preplant incorporated will provide control of red rice (Oryza sativa) and aid in the control of and reduce competition from itchgrass (Rottboellia exaltata) at the rates listed in the table following.

Broadcast Rate Per Acre of PROWL DG Preplant Incorporated for Control of Red Rice and Suppression of Itchgrass in Soybeans

Soil Texture Up to 3% Organic Matter <sup>1</sup>	PROWL DG (1bs)	
COARSE	1.7 to 2.5 <sup>2</sup>	
MEDIUM	2.5	
FINE	3.4	

 $^{-1}$  This use is not recommended for soils with more than 3% organic matter.

<sup>2</sup> The higher rate should be used if heavy red rice or itchgrass populations are anticipated.

NOTE: Livestock can graze or be fed forage from treated soybean fields. If soybean crop loss occurs due to weather conditions, cotton or soybeans can be replanted the same year into treated soil without adverse effects. If replanting is necessary, DO NOT rework the soil deeper than the treated zone.

# 3. Rhizome Johnsongrass

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PROWL DG applied preplant incorporated for two consecutive years will provide control of rhizome johnsongrass (Sorghum halepense) in soybeans at the rates recommended for soil textures listed in the following tabls. This use is not recommended for Arizona, New Mexico and California. Rhizome johnsongrass will be suppressed after the first year and controlled after the second year.

Before application, use a chisel plow or similar implement to bring johnsongrass rhizomes to the surface. Chop rhizomes into small pieces with a disk harrow set to cut 4 to 6 inches deep and operated in two different directions at 4 to 6 mph.

PROWI. DG is to be incorporated into the soil within 7 days after application prior to planting. For maximum control of rhizome johnsongrass, incorporate PROWL DG as soon as possible after application. Deep and thorough incorporation of PROWL DG is necessary for control of rhizome johnsongrass. Mechanical incorporation can be achieved by the following methods:

- (a) Disk harrow set to cut 4 to 6 inches deep and operated in two different directions at 4 to 6 mph.
- (b) PTO-driven equipment (tillers, cultivators, hoes) set to cut 3 to 4 inches deep and operated one time at 4 mph or less.

For johnsongrass escapes during the crop season, cultivation and/or application of registered postemergence herbicides are recommended. Follow the directions for use on the labels of the respective herbicides.

# Broadcast Rate Per Acre of PROWL DG Preplant Incorporated for Control of Rhizome Johnsongrass APPLY FOR TWO CONSECUTIVE YEARS

Soil Texture Up to 3% Organic Matter <sup>1</sup>	PROWL DG (1bs)
COARSE	1.7
MEDIUM	2.5
FINE	3.4

<sup>1</sup> This use is not recommended for soils with more than 3% organic matter.

NOTE: Livestock can graze or be fed forage from treated soybean fields. If soybean crop loss occurs due to weather conditions, cotton or soybeans can be replanted the same year into treated soil without adverse effects. If replanting is necessary, DO NOT rework the soil deeper than the treated zone.

#### PROWL DG TANK MIXTURES IN MINIMUM AND NO-TILL SYSTEMS

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PROWL DG may be applied as a surface application up to 45 days prior to planting or *Ls* a preemergence treatment from 15 days before planting up to 2 days after planting in minimum or no-till soybeans as follows:

### Preemergence

PROWL DG alone PROWL DG + 2,4-DB (Butyrac 200) PROWL DG + Roundup PROWL DG + Gramoxone Extra PROWL DG + PURSUIT + Roundup PROWL DG + PURSUIT + Gramoxone Extra PROWL DG + SCEPTER + Roundup PROWL DG + SCEPTER + Gramoxone Extra PROWL DG + Sencor/Lexone + Roundup PROWL DG + Sencor/Lexone + Gramoxone Extra PROWL DG + Lorox + Roundup PROWL DG + Lorox + Gramoxone Extra PROWL DG + Canopy + Roundup PROWL DG + Canopy + Gramoxone Extra PROWL DG + Preview + Roundup PROWL DG + Preview + Gramoxone Extra

Surface Applications of PROWL DG 16-45 Days Prior to Planting Followed by a Sequential Early Postemergence Application of PURSUIT

PROWL DG alone followed by (fb) PURSUIT Early Postemergence PROWL DG + Butyrac 200 fb PURSUIT Early Postemergence PROWL DG + Roundup fb PURSUIT Early Postemergence PROWL DG + Gramoxone Extra fb PURSUIT Early Postemergence

PROWL DG will not control existing vegetation present at the time of application.

2,4-DB (0.7 - 0.9 pts/A) can be used to kill existing broadleaf weeds including winter annuals (1-2"). If grasses or perennial weeds are present at time of application, use Gramoxone Extra or Roundup.

# Application Instructions

Uniformly apply the recommended PROWL DG tank mixture in 20 to 60 gallons of water per acre with ground equipment. Use the higher gallonage for fields with heavy weed infestations or excessive crop residues.

PROWL DG may be surface applied up to 45 days prior to planting when followed by an early postemergence application of PURSUIT; otherwise, PROWL DG may be applied from 15 days before planting up to 2 days after planting. DO NOT APPLY POSTEMERGENCE to soybeans since soybeans exposed at the time of application will be killed. These treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application.

### Annual Weeds

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Butyrac 200 (2,4-DB) may be used with PROWL DG alone or in combination with other PROWL DG tank mixes for the control of some annual broadleaf weeds, especially small winter annual weeds. Refer to the 2,4-DB label for specific use recommendations, rates and weeds controlled. PROWL DG plus 2,4-DB will not control grasses or perennial weeds present at the time of application. If these are weeds are present at the time of application, use PROWL DG plus paraquat or PROWL DG plus Roundup.

Observe all cautions and limitations on the 2,4-DB label.

# Tank Mixtures with Gramoxone Extra

Apply 1 1/3 to 2 2/3 pints of Gramoxone Extra per acre in recommended tank mixtures. Use the 2 2/3 pint rate if weeds are 4 to 6 inches tall. Weeds over 6 inches tall will not be controlled with this treatment.

When Gramoxone Extra is included in a recommended tank mixture, add 8 oz. of Ortho X-77 spreader or similar non-ionic surfactant per 100 gallons of spray mixture. See mixing instructions above.

Gramoxone Extra will control most annual emerged weeds and suppress many emerged perennials. Refer to Gramoxone Extra label for specific use recommendations. Observe all precautions and limitations on Gramoxone Extra label.

#### Tank Mixtures with Roundup

Annual Weeds

Apply 1.0 to 1.5 quarts of Roundup per acre in recommended tank mixtures. Use the 1.5 quart rate if annual weeds are more than 6 inches tall.

Roundup will control most annual emerged weeds. Refer to Roundup label for specific use recommendations. Observe all precautions and limitations on Roundup label.

#### Perennial Weeds

At normal application times in minimum or no-till systems, perennial weeds may not be at the proper stage of growth for control with Roundup. Refer to Roundup label for the proper stage of growth for perennial weeds. Use of 2 to 4 quarts of Roundup per acre in recommended tank mixtures under these conditions provides top kill and reduces competition from many emerged perennial grass and broadleaf weeds. Refer to Roundup label for emerged perennial weeds controlled. To obtain control of perennial weeds, follow recommendations on Roundup label for stage of growth and rate of application.

NOTE: When using these tank mixtures, DO NOT exceed 4 quarts of Roundup per acre.

USE OF THESE TANK MIXTURES FOR BERMUDAGRASS OR JOHNSONGRASS CONTROL IS NOT RECOMMENDED.

Observe all precautions and limitations on Roundup label.

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#### PROWL DG Alone

Surface Applications of PROWL DG Made Prior to Planting in Soybeans Followed by Early Post Applications of PURSUIT herbicide

Surface applications of PROWL DG alone from 16 up to 45 days before planting should be followed by a POSTEMERGENCE program using PURSUIT herbicide. Consult the PURSUIT label for PURSUIT herbicide application instructions and precautions. For situations where incorporation is desired, consult the PROWL DG leaflet label for incorporation instructions.

Use the higher gallonage of PROWL DG for fields with heavy vegetation or excessive crop residues. Roundup, Butyrac 200 (2,4-DB), or paraquat should be used to kill existing vegetation, if present before planting. PROWL DG alone will not kill or control weeds that have germinated prior to PROWL DG application. Butyrac can be applied alone, or in tank mix combinations with PROWL DG, at 0.7-0.9 pints/A for the control of small winter annuals (1-2"). If grasses or perennial weeds are present at the time of application, use paraquat or Roundup alone, or in tank mix combinations with PROWL DG. Consult the PROWL DG leaflet label for tank mix instructions in Soybeans with Roundup or paraquat in Conservation and No-Till Systems. Consult the Butyrac 200, paraquat and Roundup labels for specific use recommendations, rates and weeds controlled.

Apply PROWL DG at the highest recommended rate by soil type and organic matter described under the general instructions for preemergence applications in soybeans. PROWL DG may be applied at up to 2.5 lbs per acre for fine soils with greater than 3.0% organic matter. If sufficient rain to activate PROWL does not occur before planting, the use of a registered postemergence herbicide treatment may be required to control weed escapes present at planting or following soybean emergence. Where appropriate, rotary hoeing or shallow cultivation should be made after crop emergence while weeds are small enough to be controlled by mechanical means.

) If PROWL DG surface applications cannot be made prior to planting, follow the preemergence application instructions. DO NOT apply PROWL DG at or after planting North of I-80. Surface applications North of I-80 require at least 1 inch of rainfall or mechanical incorporation or PROWL DG prior to planting.

Observe all cautions and limitations found in tank mix partner labels.

#### Preemergence

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PROWL DG may be applied alone, or in combination with Roundup or Gramoxone Extra up to 15 days before planting, if a herbicide program is planned for control of those weeds not controlled by PROWL DG. Follow all precautions, instruction and restrictions found in Preemergence General Instructions Section. Use the high rate of PROWL DG for each soil texture listed, in the PROWL DG Preemergence General Instructions Section.

# PROVL DG Plus PURSUIT herbicide

See the PROWL DG plus PURSUIT subsection of this label for use rates, application instructions and weeds controlled. The high rates of PROWL DG for each soil texture should be used if heavy weed populations are anticipated or if field is particularly trashy or cloddy.

# PROWL DG Plus SCEPTER herbicide

See the PROWL DG plus SCEPTER subsection of this label for use rates, application timing and weeds controlled. The high rates of PROWL DG for each soil texture should be used if heavy weed populations are anticipated or if field is particularly trashy or cloddy.

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# PROWL DG Plus Sencor/Lexone

See Special Precautions for PROWL DG Plus Sencor or Lexone Combinations subsection above.

# Weeds Controlled

When applied as directed, PROWL DG plus Sencor/Lexone will control the following weeds in addition to those controlled by PROWL DG alone:

Common ragweed (Ambrosia artemisiifolia) Jimsonweed (Datura stramonium) Pennsylvania smartweed (Polygonum pensylvanicum) Prickly sida (Sida spinosa) Velvetleaf (Buttonweed) (Abutilon theophrasti) Venice mallow (Hibiscus trionum) Wild mustard (Brassica kaber) (Medium and fine soils only)

PROWL DG plus Sencor/Lexone will aid in the control of and reduce competition from cocklebur (Xanthium strumarium).

Broadcast Rates Per Acre of PROWL DG Plus Sencor or Lexone Preemergence Tank Mixture in Minimum and No-Till Soybeans

	SOUTHERN STATE; (Including Eastern Coastal Plains) <sup>1</sup>	NORTHERN ST	ATES1
	PROWL DG +	PROWL DG +	PROWL DG +
	Sencor/Lexone DF <sup>2</sup>	Sencor/Lexone DF <sup>2</sup>	Sencor/Lexone DF <sup>2</sup>
Soil		1/2 to 3%	More than 3%
Texture <sup>3</sup>		Organic Matter	Organic Matter
COARSE	0.85 to 1.25 lbs	0.85 to 1.25 lbs	1.25 lbs
	+ 0.33 lb	+ 0.5 lb	+ 0.5 lb
MEDIUM	1.25 to 1.7 lbs	1.25 to 1.7 lbs	1.25 to 1.7 lbs
	+ 0.5 lb	+ 0.5 lb	+ 0.5 to 0.67 lb
FINE	1.25 to 1.7 lbs	1.25 to 1.7 lbs	1.7 to 2.1 lbs
	+ 0.67 lb.	+ 0.5 to 0.67 lb.	+ 0.67 lb.

1 See map at end of this label for specific states.

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<sup>2</sup> When using Sencor 4F, Sencor 50WP, Lexone 4L or Lexone 50WP, use equivalent rates. One pint of the flowable formulation or 1 lb. of the wettable powder formulation equals 0.67 lb. of Sencor DF or Lexone DF. See conversion chart in Formulation Conversion Tables section (see table of contents for page number).

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<sup>3</sup> DO NOT USE on sands. DO NOT USE on loamy sands or on sandy loams that contain less than 1% organic matter or on other soils with less than 1/2% organic matter as crop injury may result. This tank mixture is not recommended for use on soils with less than 2% organic matter in the Coastal Plain of New Jersey or the Delmarva Peninsula.

The high rates of PROWL DG and Sencor/Lexone for each soil texture, as stated above, should be used if heavy weed populations are anticipated or if field is particularly trashy or cloddy.

NOTE: Livestock may graze or be fed forage from treated fields 40 days after application. Observe all precautions and limitations on Sencor and Lexone labels.

# PROWL DG Plus Lorox

See the PROWL DG plus Lorox subsection of this label for use rates and weeds controlled.

The high rates of PROWL DG and Lorox for each soil texture should be used if heavy weed populations are anticipated or if field is particularly trashy or cloddy.

NOTE: Livestock may graze or be fed forage from treated fields. Observe all precautions and limitations on Lorox label.

### **PROWL DG Plus Canopy**

See the PROWL DG plus Canopy subsection of this label for use tates and weeds controlled.

The high rates of PROWL DG for each soil texture should be used if heavy weed populations are anticipated or if field is particularly trashy or cloddy.

### **PROWL DG Plus Preview**

See the PROWL DG plus Preview Subsection of this label for use rates and weeds controlled.

The high rates of PROWL DG and Preview for each soil texture should be used if heavy weed populations are anticipated or if field is particularly trashy or cloddy. RICE

PROWL DG plus propanil or PROWL DG plus Arrosolo early postemergence tank mixtures may be used in dry-seeded rice.

DO NOT use this treatment in water-seeded rice. DO NOT use in California.

PROWL DG is not recommended for use on peat or muck soils.

This pesticide is toxic to fish and aquatic organisms. Fish may be killed at application rates recommended on the label. DO NOT contaminate water by cleaning of equipment or disposal of wastes.

DO NOT apply to rice fields if fields are used for Fish Production, especially catfish or crayfish farming.

# GENERAL INFORMATION

PROWL DG plus propanil or PROWL DG plus Arrosolo are posteme.junce treatments that combine the direct contact action of propanil and the residual activity of PROWL DG. Since the residual activity of PROWL DG provides preemergence control of certain annual grasses which can germinate after this tank-mix treatment is applied, flooding after application can be delayed.

For maximum weed control with this treatment, it is important to carefully follow the directions below for (1) adequate spray coverage of weeds and soil and (2) proper timing of application, when barnyardgrass (watergrass) is in the 1 to 3 leaf stage of growth with an occasional 4 leaf plant (make application when sprangletop is less than 1/2 inch in height).

#### Spraying Instructions

#### AERIAL APPLICATIONS

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For aerial application, apply the recommended rate in 10 to 12 gallons of water per acre to ensure adequate coverage. To minimize drift (see propanil or Arrosolo label for sensitive crops), DO NOT apply during periods of gusty winds or when wind conditions favor drifting. It is recommended that a flagman or an automatic mechanical flagging unit on the aircraft be used to avoid overlapping and possible crop injury.

### GROUND APPLICATIONS

For ground equipment, apply the recommended rate in 15 to 25 gallons of water per acre to ensure adequate coverage. Use a properly calibrated low-pressure (20 to 40 psi) sprayer equipped with 8002 or larger size Tee-Jet or comparable nozzles to achieve uniform spray distribution and minimize drift. Keep the bypass line on or near the bottom of the tank to minimize foaming. Nozzle screens must be no finer than 50 mesh. DO NOT apply PROWL DG during periods of gusty winds or when wind velocity is greater than 20 mph.

# Early Postemergence Applications

The seedbed should be firm and free of clods and trash. The seedbed must be prepared to allow for good seed coverage. Previous crop residues should be thoroughly mixed into the soil to a depth of 4 to 6 inches by plowing or disking before planting rice.

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Uniformly apply recommended PROWL DG plus propanil or PROWL DG plus Arrosolo treatment by aircraft or ground equipment after rice emergence, according to spraying instructions above, when barnyardgrass is in the 1 to 3 leaf growth stage with an occasional 4 leaf plant (make application when sprangletop is less than 1/2 inch). THE GROWER SHOULD INSPECT FIELDS FREQUENTLY TO CHECK GROWTH OF BARNYARDGRASS AND/OR SPRANGLETOP TO DETERMINE PROPER APPLICATION TIMING. "iming of applications should be based on the growth stage of barnyardgrass and/or sprangletop and not on the growth stage of rice. If rice is too small to maintain a flood on the field, the treatment can still be applied since flooding can be delayed because of the residual activity of PROWL DG.

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While the residual activity of PROWL DG allows flooding to be delayed, proper water management practices must be followed for normal rice growth. Flooding should not be delayed if weeds begin to develop after application. Since soil and weeds must be completely exposed to spray coverage, no flood water should be on field at time of application. If necessary, fields may be flushed prior to treatment to produce vigorous rice and weed growth.

Since the residual activity of PROWL DG is activated by moisture, PROWL DG is most effective in controlling emerging weeds when adequate rainfall or irrigation (flush) is received within 7 days after application.

For maximum direct contact activity of propanil or Arrosolo, delay application if there is a chance of rain within 6 to 8 hours.

### Weeds Controlled

PROWL DG plus propanil or PROWL DG plus Arrosolo tank mixtures provide direct contact control of weeds listed on the propanil or Arrosolo labels. The following grass species are controlled by the residual activity of PROWL DG plus propanil or PROWL DG plus Arrosolo tank mixtures at the rates recommended for each soil texture listed below:

> Barnyardgrass (watergrass) (Echinochloa crus-galli or Echinochloa colonum) Crabgrass (Digitaria spp.) Signalgrass (Brachiaria platyphylla) Sprangletop (Leptochloa spp.)

Broadcast Rate Per Acre of PROWL DG plus Propanil or PROWL DG plus Arrossolo Tank Mixtures in Rice

Soil Texture	PROWL DG + Propani1 <sup>*</sup> or Arrosolo
COARSE	1.25 lbs + 6.0 to 8.0 pts
MEDIUM	1.25 to 1.7 lbs + 6.0 to 8.0 pts
FINE	1.25 to 1.7 lbs + 6.0 to 8.0 pts

- \* Based on products containing 4 lbs. of propanil per gallon, such as Stam\*\* M-4. When using other than 4 lbs. per gallon formulations of propanil, use equivalent rates.
- Use the high rate of propanil or Arrosolo if the following situations exist at the time of application: (1) unseasonably cool weather, (2) barnyardgrass has progressed  $\div$  predominantly the 3 to 4 leaf stage, or (3) emerged sprangletop (less than 1/2 inch) is present.

DO NOT apply this tank mixture within 14 days before or after insecticide applications because serious damage to rice may occur.

DO NOT apply this tank mixture in liquid fertilizer. DO NOT make more than one application of PROWL DG per season. DO NOT bale or use rice straw from treated fields for feed or bedding.

Observe all precautions and limitations on tank-mix partner label.

DO NOT apply PROWL DG on rice fields in which crayfish or catfish farming are included in the cultural practices, and DO NOT plant crops in PROWL DG-treated fields unless PROWL DG is registered for use on those crops.

DO NOT use water containing PROWL DG residues from rice cultivation to irrigate food or feed crops which are not registered for use with PROWL DG.

\*\*Stam is a trademark of Rohm & Haas Company

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### POTATOES

PROWL DG may be applied in potatoes as follows: Early Preemergence Preemergence Postemergence Incorporated PRCWL DG alone PROWL DG alone PROWL DG alone PROWL DG + PROWL DG + PROWL DG + Eptam Sencor/Lexone Sencor/Lexone PROWL DG + Lorox PROWL DG + Eptam PROWL DG + Eptam + Sencor/Lexone

PROWL DG not recommended for use on peat or muck soils.

# Applications of PROWL DG Alone

Apply PROWL DG with ground equipment or by aircraft or sprinkler irrigation. The seedbed should be firm and free of clods and trash. DO NOT apply prior to planting crop. DO NOT apply to sweet potatoes or yams.

#### 1. Preemergence Applications

PROWL DG may be applied after planting but before potatoes and weeds emerge or after drag-off where this operation is practiced.

PROWL DG applied preemergence is most effective in controlling weeds when adequate rainfall or ir gation is received within 7 days after application.

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#### 2. Preemergence Incorporated

Apply PROWL DG and incorporate after planting but before potatoes and weeds emerge. Where drag-off is practiced, apply PROWL DG and incorporate before, at or after drag-off but before potatoes and weeds emerge. PROWL DG is to be incorporated within 7 days after application.

PROWL DG must be thoroughly and uniformly incorporated into the top 1 to 2 inches of soil. Care must be taken so that incorporation equipment does not damage seed pieces or elongating sprouts.

Mechanical incorporation is not required if adequate rainfall for good crop and weed emergence occurs or irrigation is received within 7 days after application.

#### 3. Early Postemergence

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PROWL DG may be applied early postemergence in potatoes. DO NOT apply PROWL DG postemergence if potatoes are under stress from cold/wet or hot/dry conditions or crop injury may occur. PROWL DG may be applied from crop emergence to the 6-inch stage of growth.

PROWL DG treatments will not control established weeds. Emerged weeds must be destroyed prior to application. DO NOT make more than one application per season. PROWL DG treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application.

# Applications of PROWL DG Alone Sprinkler Irrigation Systems

PROWL DG may be applied preemergence after planting, but before potatoes and weeds have emerged, or after drag-off where this operation is practiced, or early postemergence through sprinkler irrigation systems. See Chemigation section for complete instructions (see table of contents for page number).

# Weeds Controlled

When applied as directed, PROWL DG will control the following weeds in addition to the weeds listed previously as being controlled by PROWL DG:

Stinging nettle (Urtica urens)

Broadcast Rate Per Acre of PROWL DG Alone in Potatoes

Soil Texture	PROWL DG (1bs) Less Than 3% Organic Matter	PROWL DG (1bs) More than 3% Organic Matter
COARSE	1.25	1.25
MEDIUM	1.7	2.5
FINE	• 2.5	2.5

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#### PROWL DG Plus Sencor/Lexone

PROWL DG plus Sencor/Lexone tank mixture may be applied preemergence after planting, or after drag-off where this operation is practiced, or early postemergence. Apply with ground equipment or aircraft. The seedbed should be firm and free of clods and trash.

This treatment is most effective in controlling weeds when adequate rainfall or irrigation is received within 7 days after application.

PROWL DG plus Sencor/Lexone postemergence tank mixture may be applied from crop emergence to the 6-inch stage of growth. For optimum control of weeds in potatoes apply before weeds are 1 inch tall. DO NOT make more than one application of this tank mixture per season. DO NOT apply within 24 hours of application of other pesticides. DO NOT apply within three days after periods of cool, wet or cloudy weather or crop injury may occur. DO NOT use on early maturing smooth-skinned white or red-skinned varieties of potatoes.

### Weeds Controlled

When applied as directed, PROWL DG plus Sencor/Lexone will control the following weeds in addition to those controlled by PROWL DG alone:

Cocklebur (Xanthium strumarium) Common ragweed (Ambrosia artemisiifolia) Pennsylvania smartweed (Polygonum pensylvanicum) Velvetleaf (Buttonweed) (Alutilon theophiasti) Russian thistle\* (Salsola kali)

PROWL DG plus Sencor/Lexone will aid in the control of and reduce competition from:

Black nightshade (Solanum nigrum) Hairy nightshade (Solanum sarrachoides)

\*early postemergence only

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Broadcast Rate Per Acre of PROWL DG Plus Sencor/Lexone Preemergence or Early Postemergence Tank Mixture in Potatoes

Soil Texture	PROWL DG + Sencor/Lexone DF <sup>1</sup> Less than 3% Organic Matter <sup>2</sup> (1bs)	PROWL DG + Sencor/Lexone DF1 More than 3% Organic Matter (1bs)
COARSE	0.85 to 1.25 + 0.35 to 0.5 <sup>3</sup>	0.85 to 1.25 + 0.33 to 0.5 <sup>3</sup>
MEDIUM	1.25 to 1.7 + 0.5 to 0.67	1.7 to 2.5 + 0.5 to 0.67
FINE	1.7 to 2.5 + 0.5 to 0.67	2.5 + 0.5 to 0.67

- <sup>1</sup> When using Sencor 4F, Sencor 50WP, Lexone 4L, or Lexone 50WP, use equivalent rates. One pint of the flowable formulation or 1 lb. of the wettable powder formulation equals 0.67 lb. of Sencor DF or Lexone DF. See conversion chart in Formulation Conversion Tables section (see table of contents for page number).
- $^2$  Observe organic matter restrictions on Sencor and Lexone labels.

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- <sup>3</sup> Preemergence only, use 0.5 to 0.67 lb. of Sencor/Lexone on coarse soils in Wisconsin.
- NOTE: Observe all precautions and limitations on Sencor and Lexone labels. Follow cropping restrictions on Sencor and Lexone labels.

# PROWL DG Plus Lorox

PROWL DG plus Lorox preemergence tank mixture may be used in potatoes grown east of the Rocky Mountains. Apply after planting but before potatoes and weeds emerge or after drag-off or hilling where these operations are practiced. Apply with ground equipment or aircraft. The seedbed should be firm and free of clods and trash. Plant seed pieces at least two inches deep.

This treatment is most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application.

# Weeds Controlled

When applied as directed, PROWL DG plus Lorox will control the following weeds in addition to those controlled by PROWL DG alone:

Chickweed (Stellaria media) Mustard (Brassica spp.) Common ragweed (Ambrosia artemisiifolia) Pennsylvania smartweed (Polygonum pensylvanicuL)

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Broadcast Rate Per Acre of PROWL DG Plus Lorox Preemergence Tank Mixture in Potatoes

Sojl <sup>2</sup> Texture	PROWL DG + Lorox L <sup>1</sup> 1 to 3% Organic Matter	PROWL DG + Lorox L <sup>1</sup> 3 to 5 % Organic Matter
COARSE	0.85 to 1.25 lbs + only 1.5 to 2.5 pts	0.85 to 1.25 lbs + 2.0 to 3.0 pts

Wisconsin-Central Sands Area Only: PROWL DG plus Lorox tank mixture may be used on sands and loamy sands. Sands - apply 0.85 to 1.25 lbs of PROWL DG plus 1 pint of Lorox L per acre. Loamy sand - apply 0.85 to 1.25 lbs of PROWL DG plus 2 pints of Lorox L per acre.

MEDIUM	1.25 to 1.7 lbs + 1.5 to 3.0 pts	1.7 to 2.5 lbs + 2.5 to 4.0 pts
FINE	1.7 to 2.5 lbs + 2.5 to 4.0 pts	2.5 lbs + 3.0 to 4.0 pts

- <sup>1</sup> When using Lorox 50W use equivalent rates. One pint of the flowable formulation equals 1 lb. of the wettable powder formulation. See conversion chart in Formulation Conversion Tables section (see table of contents for page number).
- <sup>2</sup> DO NOT use on sands and loamy sends (except in Wisconsin-Central Sands Area), gravelly soils or exposed subsoils or on soils containing less than 1% organic matter as injury to the treated crop or subsequent crops may result.

NOTE: Observe all precautions and limitations on Lorox label.

### PROWL DG Plus Eptam

PROWL DG plus Eptam tank mixture may be applied and incorporated after planting but before potatoes and weeds emerge. The seedbed should be firm and free of clods and trash. In areas where potatoes are normally draggedoff, apply and incorporate following drag-off but before potatoes and weeds emerge. Incorporate immediately after application. PROWL DG plus Eptam must be thoroughly and uniformly incorporated into the top 1 or 2 inches of soil. Whenever possible, application and incorporation should be done in the same operation. Care must be taken so that incorporation equipment does not damage seed pieces or elongating sprouts.

PROWL DG plus Eptam postemergence tank mixture may be applied through SPRINKLER IRRIGATION SYSTEMS ONLY from crop emergence to the 6-inch stage of growth. PROWL DG plus Eptam will not control established weeds. EMERGED WEEDS MUST BE DESTROYED PRIOR TO APPLICATION. DO NOT make more than one application per season of this tank mixture. DO NOT apply if potatoes are under stress from cold/wet or hot/dry conditions or crop injury may occur.

# Weeds Controlled

When applied as directed, PROWL DG plus Eptam will control the following weeds in addition to those controlled by PROWL DG alone:

Purple nutsedge (Cyperus rotundus) Yellow nutsedge (Cyperus esculentus) Black nightshade (Solanum nigrum) Hairy nightshade (Solanum sarrachoides)

Broadcast Rate Per Acre of PROWL DG Plus Eptam Preemergence Incorporated or Early Postemergence Tank Mixtures in Potatoes<sup>1</sup>

Soil Texture	PROWL DG + Eptam 7E Less than 3% Organic Matter	PROWL DG + Eptam 7E More than 3% Organic Matter
COARSE	0.85 to 1.25 lbs + 3.0 to 3.5 pts	0.85 to 1.25 lbs + 3.0 to 3.5 pts
MEDIUM	1.25 to 1.7 lbs + 3.0 to 3.5 pts	2.5 lbs + 3.0 to 3.5 pts
FINE	2.5 lbs + 3.0 to 3.5 pts	2.5 lbs + 3.0 to 3.5 pts

<sup>1</sup> For nutsedge control, use 4.5 to 7.0 pints of Eptam per acre.

NOTE: The Superior variety potato is sensitive to Eptam and under stress conditions, early season stunting may occur. Observe all precautions and limitations on Eptam label.

# PROWL DG Plus Eptam Plus Sencor/Lexone

DO NOT use in California.

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PROWL 3.3EC plus Eptam plus Sencor or Lexone may be applied through SPRINK'ER IRRIGATION SYSTEMS ONLY from crop emergence to the 6-inch stage of growth. DO NOT apply prior to planting the crop. This treatment will not control established weeds. EMERGED WEEDS MUST BE DESTROYED PRIOR TO APPLICATION. RESTRICTIONS: DO NOT make more than one application per season.

DO NOT apply postemergence if potatoes are under stress from cold/wet or hot/dry conditions or crop injury may occur.

DO NOT apply within 24 hours of application of other pesticides DO NOT apply within three days after periods of cool, wet or cloudy weather or crop injury may occur. DO NOT use on early maturing smooth-skinned white or red skinned varieties of potatoes. DO NOT apply within 60 days of potato harvest.

The Superior variety potato is sensitive to Eptam and early season stunting may occur under stress conditions.

# Weeds Controlled

When applied as directed, PROWL DG plus Eptam plus Sencor or Lexone will control the following weeds in addition to those controlled by PROWL DG alone.

### Broadleaf weeds:

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Black nightshade (Solanum nigrum) Cocklebur (Xanthium scrumarium) Hairy nightshade (Solanum sarrachoides) Pennsylvania smartweed (Polygonum pensylvanicum) Purple nutsedge (Cyperus rotundus) Ragweed, common (Ambrosia artemisiifolia) Russian thistle (Salsola ka!') Velvetleaf (Buttonweed) (Abutilon theophrasti) Yellow nutsedge (Cyperus esculentus,

Broadcast Rate per Acre of PROWL DG plus Eptam plus Sencor or Lexone Early Postemergence Sprinkler Application in Potatoes

	PROWL DG + Eptam 7E + Sencor or Lexone DF1	PROWL DG + Eptam 7E + Sencor or Lexone DF <sup>1</sup>
Soil Texture	Less than 3 <b>%</b> Organic Matter <sup>2</sup>	More than 3% Organic Matter <sup>2</sup>
COARSE	0.85 to 1.25 lbs + 3.0 to 5.5 pts + 0.33 to 0.5 lbs	0.85 to 1.25 lbs + 3.0 to 3.5 pts + 0.33 to 0.5 lbs
MEDIUM	1.25 to 1.7 lbs + 3.0 to 3.5 pts. + 0.5 to 0.67 lbs.	2.5 lbs + 3.0 to 3.5 pts + 0.5 to 0.67 lbs
FINE	2.5 lbs + 3.0 to 3.5 pts + 0.5 to 0.67 lbs	2.5 lbs + 3.0 to 3.5 pts + 0.5 to 0.67 lbs

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Use 4.5 to 7.0 pints of Eptam per acre to control nutsedge.

1When using Sencor 4F, Sencor 50WP, Lexone 4L, or Lexone 50 WP, use equivalent rates. One pint of the flowable formulation or 1 lb. of the wettable powder formulation equals 0.67 lbs. of Sencor DF or Lexone DF. See conversion chart in Formulation Conversion Tables section (see table of contents for page number).

<sup>2</sup>Observe organic matter restrictions on the Sencor and Lexone labels.

# TOBACCO

PROWL DG may be applied in transplanted tobacco as follows;

Preplant Incorporated application Layby application

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PROWL DG is not recommended for use on peat or muck soils.

# Preplant Incorporated Application

Appl; PROWL DG with ground sprayer immediately before transplanting or up to 60 days prior to transplanting tobacco. Incorporate prior to planting and within 7 days of application. Refer to Incorporation Instructions section (see table of contents for page number) for incorporation directions.

REGION	SOIL TEXTURE	PROWL DG (1bs)
Maryland, . Virginia,	COARSE	1.25 to 1.7
North Carolina, South Carolina,	MEDIUM	
Georgia,		1.25 to 1.7
Florida	silt loams, silts	1.7 to 2.1
	FINE	1.7 to 2.1
Other tobacco-growing states	COARSE	1.25 to 1.7
	MEDIUM	2.1 to 2.5
	FINE.	2.1 to 2.5

Broadcast Rate Per Acre of PROWL DG Preplant Incorporated in Transplanted Tobacco NOTE: Applied according to directions and under normal growing conditions, PROWL DG will not harm transplanted tobacco. Under stress conditions for plant growth such as cold/wet or hot/dry weather, PROWL DG can produce a temporary retardation of tobacco development.

If loss of tobacco crop occurs due to adverse weather conditions, transplanted tobacco or any crop registered for PROWL DG preplant incorporated use can be replanted the same year into treated soil without adverse effects. If replanting is necessary, DO NOT rework the soil deeper than the treated zone.

# Layby Applications

PROWL DG may be applied as a directed spray following the last normal cultivation (layby), usually 4 to 6 weeks after transplanting tobacco.

Layby applications can be applied in tobacco previously treated with herbicides registered for use in tobacco. Consult the labels of those herbicides for suggested treatments, rates to be used, and precautions or restrictions for use in tobacco and for follow crop restrictions.

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Apply PROWL DG in a 16 to 24-inch band in the middle of the row between the crop rows. The spray should not contact tobacco plants. If the spray nozzles on the ends of the spray boom pass over the same row middle twice, use nozzles which apply one-half (1/2) the normal number of gallons per acre to prevent over-application.

PROWL DG is most effective in controlling weeds when adequate rainfall or irrigation is received within 7 days after application.

PROWL DG will not control established weeds. DESTROY EMERGED WEEDS PRIOR TO APPLICATION.

DO NOT APPLY AS A BROADCAST SPRAY OVER TOP OF TOBACCO LEAF. CONTACT MAY CAUSE MALFORMED LEAVES.

Soil Textu	re PROWL DG <sup>2</sup> (1bs)	
COARSE	0.85 to 1.25	
MEDIUM	1.25 to 1.7	
FINE	1.25 to 1.7	

Broadcast<sup>1</sup> Rate Per Acre of PROWL DG Layby Application in Transplanted Tobacco

<sup>1</sup> For calculation of band treatment rate, see Spraying Instructions section (see table of contents for page number).

<sup>2</sup> The high rate for each soil texture above should be used if a registered herbicide treatment was not applied prior to layby.

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PROWL DG may be applied preplant incorporated in peanuts as follows:

PROWL DG alone PROWL DG + PURSUIT PROWL DG + Vernam PROWL DG + Dual

DO NOT use in California. PROWL DG is not recommended for use on peat or muck soils.

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### Preplant Incorporated Applications of PROWL DG Alone

Apply PROWL DG with ground equipment or aircraft immediately before planting or up to 60 days prior to planting. Incorporate prior to planting and within 7 days of application. Refer to Incorporation Instructions section (see table of contents for page number) for incorporation directions.

> Broadcast Rate Per Acre of PRO'JL DG Preplant Incorporated in Peanuts

REGION	PROWL DG	(1bs)
 Texas, Oklahoma and New Mexico	0.85 to ]	1.25
 Other peanut-growing states	1.25 to	1.7

For heavy weed infestations, especially of Texas Panicum, up to 2.5 lbs of PROWL DG can be used in Alabama, Georgia, or Flori's.

If loss of peanut crop occurs due to adverse weather conditions, peanuts or any crop registered for PROWL DG preplant incorporated use can be replanted the same year into treated soil without adverse effects. If replanting is necessary, DO NOT rework the soil deeper than the treated zone.

### PROWL DG Plus PURSUIT

PROWL DG plus PURSUIT may be applied preplant incorporated in peanuts.

Apply PROWL DG plus PURSUIT by ground equipment only and incorporate within 7 days of application. If crop will be planted on beds, apply and incorporate afcer bed preparation. Refer to Incorporation Instructions section (see Table of Contents for page number) for incorporation directions.

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### Weeds Controlled

When applied as directed, PROWL DG plus PURSUIT will control the following weeds in addition to those controlled by PROWL DG alone:

Broadleaf weeds: Anoda; spurred (Anoda cristata) Bristly starbur (Acanthospermum hispidum) Buffalobur (Solanum rostratum) Cocklebur\* (Xar shium strumerium) Devils claw (Proboscidea louisianica) Galinsoga (Galinsoga, sp.) Jimsonweed (Datura stranonium) Morningglory, smallflower (Jacquemontia tamnifolia) Mustard species (Brassica spp.) Nightshade black (Solanum nigrum) eastern black (Solanum ptycanthum) hairy (Solanum sarrachoides) Poinsettia, wild (Euphorbia heterophylla) Puncturevine (Tribulus terrestris) Sida; prickly (Sida spinosa) Smartweed ladysthumb (Polygonum persicaria) Pennsylvania (Polygonum pensylvanicum) Spurge prostrate (Euphorbia humistrata) spotted (Euphorbia maculata) toothed (Euphorbia serrata) Sunflower, common (Helianthus annuus) Velvetleaf (Buttonweed) (Abutilon theophrasti) Waterhemp, tall (Amaranthus tuberculatos)

\*Light to moderate infestations.

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PROWL DG plus PURSUIT will reduce competition from and aid in the control of the following weeds in addition to those found on the PROWL DG label:

Morningglory; Entireleaf, ivyleaf, pitted, tall Nutsedge; purple, yellow

PROWL  $\pm 3$  can be tank-mixed using the rates provided in the regional use rate chart provided at the beginning of the Peanut section in combination with 1/4 plant of PURSUIT. Consult the PURSUIT label for product specific information. Follow all precautions and limitations on the PURSUIT label.

# **PROWL DG Plus Vernam**

PROWL DG plue Vernam tank mixture may be applied preplant incorporated in peanuts.

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1. Application Instructions Apply PROWL DG plus Vernam with ground sprayer only.

#### 2. Incorporation Instructions

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PROWL DG plus Vernam must be incorporated IMMEDIATELY (within minutes) after application to prevent loss of Vernam herbicide. Whenever possible, application and incorporation should be done in the same operation.

Use power-driven cultivation equipment set to cut to a depth of 2 to 3 inches or tandem disks set to cut to a depth of 4 to 6 inches, operated at 4 to 6 mph, followed by a spike-toothed harrow or some other leveling device which extends beyond the ends of the disk. For thorough mixing, disk in two different directions (cross disk). Prior to second disking, raise the disk to prevent cutting deeper than 4 to 6 inches.

# 3. Planting and Weed Control Instructions

DO NOT plant seed deeper than 2 inches. Seeding can be accomplished immediately after application or up to 10 days after application. If it is necessary to rework the soil after incorporation, but before planting, do not work the soil deeper than the depth of incorporation.

For nutsedge control, existing stands must be turned under and chopped up thoroughly before application. Cultivation is suggested in addition to PROWL DG plus Vernam treatment in fields with moderate or heavy nutsedge infestations. Do not cultivate deeper than the depth of incorporation.

# Weeds Controlled

When applied as directed, PROWL DG plus Vernam will control the following weeds in addition to those controlled by PROWL DG alone:

Furple nutsedge (Cyperus rotundus) Yellow nutsedge (Cyperus esculentus)

> Broadcast Rates Per Acre of PROWL DG Plus Vernam Preplant Incorporated Tank Mixture in Peanuts

SOIL TEXTURE P	ROWL DG (1bs) + Vernam 7E (pints)
Sands, loamy sands	0.85 to 1.25 + 2 1/3
Sandy loams and finer soils	0.85 to 1.25 + 3
Sands, loamy sands	1.25 to 1.7 + 2 1/3
Sandy loams and finer soils	1.25 to 1.7 + 3
	Sands, loamy sands Sandy loams and finer soils Sands, loamy sands Sandy loams and

Follow all precautions and limitations on Vernam label.

PROWL DG Plus Dual

PROWL DG plus Dual tank mixture may be applied preplant incorporated in peanuts.

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Apply PROWL DG plus Dual with ground equipment or aircraft within 14 days prior to planting. Incorporate into the top 1 to 2 inches of soil prior to planting and within 7 days of application. If crop will be planted on beds, apply and incorporate after bed formation. Refer to Incorporation Instructions section (see table of contents for page number) for incorporation directions.

### Weeds Controlled

When applied as directed, PROWL DG plus Dual will control the following weeds in addition to those controlled by PROWL DG alone:

Black nightshade (Solanum nigrum) Nutsedge (yellow) (Cyperus esculentus) Prairie cupgrass (Eriochloa contracta) Red rice (Oryza sativa) Southwestern cupgrass (Eriochloa gracilis)

Broadcast Rate Per Acre of PROWL DG Plus Dual 8E Preplant Incorporated Tank Mixture in Peanuts

REGION	SOIL TEXTURE	PROWL DG (1bs) + Dual 8E (pints)
Texas, Oklahoma and	Sands, loamy sands	0.85 to 1.25 + 1.25
New Mexico	Sandy loams	0.85 to 1.25 + 1.25 to 1.5
	Finer soils	0.85 to 1.25 + 2.0 to 2.5
Other peanut-growing states	Sands, sandy loams, loamy sands	1.25 to 1.7 + 1.5 to 2 0
	Finer soils	1.25 to 1.7 + 2.0 to 2.5

DO NOT use in California

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Follow all precautions and limitations on Dual 8E label.

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#### SUNFLOWERS

PROWL DG may be applied preplant incorporated in the spring in sunflowers as follows:

PROWL DG alone

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PROWL DG may be applied preplant incorporated in the fall in sunflowers as follows:

PROWL DG alone (North Dakota, South Dakota and Minnesota only) PROWL DG + Eptam (North Dakota and Minnesota only)

PROWL DG is not recommended for use on peat or muck soils.

Preplant Incorporated Applications of PROWL DG Alone

Apply PROWL DG with ground equipment or aircraft immediately before planting or up to 60 days prior to planting unless applying in the fall (see subsection below for fall application instructions). Incorporate prior to planting and within 7 days of application unless making a fall application (see subsection below for fall incorporation instructions). Refer to Incorporation Instructions section (see table of contents for page number) for incorporation directions.

> Broadcast Rate Per Acre of PROWL DG Preplant Incorporated in Sunflowers

	PROWL DG (1bs)	PROWL DG (	1bs)
SOUTHERN STATES <sup>1</sup>		NORTHERN STATES <sup>1</sup>	
Soil Texture	No Organic Matter Restrictions	Up to 3% Organic Matter	More than 3% Organic Matter
COARSE	0.85 to 1.25	0.85 to 1.7	1.7
MEDIUM	1.25 to 1.7	1.25 to 2.1	2.1 to 2.5
FINE	1.25 to 2.5	1.7 to 2.5	2.5

<sup>1</sup> See map at end of this label for specific states.

Use the 2.5 lbs rate for heavy clay soils.

NOTE: DO NOT feed forage or graze livestock in treated sunflower fields. If sunflower crop loss occurs due to weather conditions, sunflowers or any crop registered for PROWL DG preplant incorporated use can be replanted. If replanting is necessary, DO NOT rework the soil deeper than the treated zone.

# General Information

PROWL DG or PROWL DG plus Eptam 7E tank mix may be applied and incorporated in late fall prior to planting sunflowers the following spring.

Destroy existing weeds before applying PROWL DG or PROWL DG plus Eptam 7E. The soil should be dry enough to permit good incorporation.

# Directions For Use

PROWL DG alone may be applied by aircraft, but PROWL DG plus Eptam tank mixtures may only be applied by ground equipment.

Application should be made in the late fall when soil temperatures are 45°F or below but before the ground freezes. DO NOT apply PROWL DG or PROWL DG plus Eptam 7E tank mixes when the air temperature is below 45°F.

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PROWL DG or PROWL DG plus Eptam 7E tank mixture should be incorporated immediately after application. Refer to Incorporation Instructions section (see table of contents for page number) and Eptam label for incorporation directions.

Prior to sunflower planting in the spring, fields treated with PROWL DG or PROWL DG plus Eptam 7E should receive at least one shallow additional incorporation. Spring incorporation should be at an angle to the last tillage operation.

Refer to the appropriate sections of this label for specific directions regarding mixing, spraying, and liquid fertilizer compatibility determinations.

Soil Texture	PROWL DG (1bs) Up to 3% Organic Matter	PROWL DG (1bs) More than 3% Organic Matter
COARSE	1.25 to 2.1	2.1
MEDIUM	1.7 to 2.5	2.5 to 2.9
FINE	2.1 to 3.4	2.9

# Broadcast Rate Per Acre of PROWL DG for Fall Preplant Incorporated Application in Sunflowers<sup>1</sup>

<sup>1</sup> For use in North Dakota, South Dakota, and Minnesota only.

Use the high rate for each soil texture if heavy weed pressure is anticipated.

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NOTE: DO NOT feed forage or graze livestock in treated sunflower fields. If sunflower crop loss occurs due to weather conditions, sunflowers or any crop registered for PROWL DG preplant incorporated use can be replanted. If replanting is necessary, DO NOT rework the soil deeper than the treated zone.

# PROWL DG Plus Eptam

### Weeds Controlled

Tank mixtures of PROWL DG plus Eptam will control the following weeds in addition to those controlled by applications of PROWL DG alone:

Annual bluegrass (Poa annua) Annual Morningglory (Ipomoea purpurea) Black Nightshade (Solanum nigrum) Corn spurry (Spergula arvensis) Hairy Nightshade (Solanum villosum) Lovegrass (Stinkgrass) (Eragrostis cilianensis) Nettleleaf goosefoot (Chenopodium murale) Wild oats (Avena fatua)

Broadcast Rate per Acre for PROWL DG Plus Eptam 7E Preplant Incorporated Tank Mixtures for Fall Application in Sunflowers<sup>1</sup>

Soil Texture	PROWL DG (lbs) + Eptam 7E (pints) Up to 3% Organic Matter	PROWL DG (1bs) + Eptam 7E (pints) More than 3% Organic Matter
COARSE	0.85 to 1.7 + 2 1/4	1.7 + 2 1/4
MEDIUM	1.7 to 2.1 + 2 1/4	2.1 to 2.5 + 2 1/4
FINE	1.7 to 2.5 + 2 1/4	2.5 + 2 1/4

<sup>1</sup> For use in North Dakota or Minnesota only.

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Use the high rate for each soil texture if heavy weed pressure is anticipated.

NOTE: DO NOT feed forage or graze livestock in treated sunflower fields. If sunflower crop loss occurs due to weather conditions, sunflowers or any crop registered for PROWL DG + Eptam preplant incorporated use can be replanted. If replanting is necessary, DO NOT rework the soil deeper than the treated zone. Observe all precautions and limitations on the Eptam 7E label.