

PROWL DG

herbicide

DISPERSIBLE GRANULE

Active Ingredient

Pendimethalin (N-(1-ethylpropyl)-3, 4-dimethyl-2, 6-dinitrobenzenamine) 60%

Inert Ingredients 40%

(1 lb contains 0.6 lbs of Pendimethalin)

EPA Reg No 241-268

EPA Est No 35982-TX-01



PRECAUCION:

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

KEEP OUT OF REACH OF CHILDREN

CAUTION!

See Side Panel For Other Precautionary Statements

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

MAY CAUSE EYE AND SKIN IRRITATION

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

FIRST AID: In case of contact immediately flush eyes or skin with plenty of water.

Net weight: 30 Pounds
13.6 Kilograms

22904-14

D-40

ENVIRONMENTAL HAZARDS

This product is toxic to fish. DO NOT apply directly to water or wetlands. DO NOT apply when weather conditions favor drift from target areas. DO NOT contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

Prohibitions: DO NOT contaminate water, food or feed by storage or disposal. DO NOT store above 120°F.

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

DIRECTIONS FOR USE:

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

See leaflet on side of bag for directions for use. PROWL DG should be used in accordance with the directions in this leaflet or in supplemental labels for registered uses not included in this leaflet available through local dealers. Read all directions carefully before using.

DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on field use and tests. 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 or application of the product contrary to label instructions, all of which are beyond the control of American Cyanamid Company. All such risks shall be assumed by the user.

American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages, such as loss of profits or values or any other special or indirect damages.

American Cyanamid Company makes no other express or implied warranty, including any other express or implied warranty of FITNESS or of MERCHANTABILITY.

In case of an emergency endangering life or property involving this product, call collect, day or night, Area Code 201-835-3100.

AMERICAN CYANAMID COMPANY
Agricultural Division Wayne, NJ 07470



American Cyanamid Company
Agricultural Division
New York, N.Y.

Incorporated with Articles of Incorporation
Filed in New York State on July 1, 1954
Incorporated in New York State on July 1, 1954
Incorporated in New York State on July 1, 1954

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PROWL[®] DG

herbicide

**FOR USE IN FIELD CORN,
COTTON AND SOYBEANS**

EPA Reg. No. 241-268

PROWL DG SHOULD BE USED IN ACCORDANCE WITH THE DIRECTIONS IN THIS LEAFLET OR IN
SUPPLEMENTAL LABELS FOR REGISTERED USES NOT INCLUDED IN THIS LEAFLET
AVAILABLE THROUGH LOCAL DEALERS. READ ALL DIRECTIONS CAREFULLY BEFORE USING.

In case of an emergency endangering life or property involving this product, call collect,
day or night. EPA Code 251-835-5100

American Cyanamid Company, Agricultural Division, Wayne, N.J. 07470

Net Contents 30 Pounds
13.6 kg

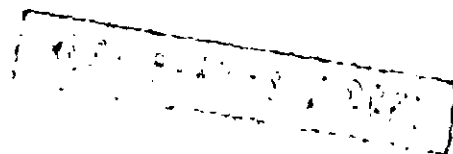
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**REFER TO LEGEND
FOR USES ON SPECIFIC CROP**

FIELD CORN

COTTON

SOYBEANS

**CULTI-SPRAY
(Field Corn)**

**Read all information on pages 4-13
before referring to specific crop use.**

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PROWL® DG herbicide
dispersible granule

Active Ingredient:

Pendimethalin (N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine)

60%

Inert Ingredients

40%

(1 lb. contains 0.6 lb. of Pendimethalin)

**FOR CONTROL OF MOST ANNUAL GRASSES
AND CERTAIN BROADLEAF WEEDS**

EPA Reg. No. 241-268

¡PRECAUCION!

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

(ENGLISH TRANSLATION)

CAUTION!

(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

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Keep Out of Reach of Children

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

CAUTION!

MAY CAUSE EYE AND SKIN IRRITATION.

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

FIRST AID: In case of contact, immediately flush eyes with plenty of water.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. DO NOT apply directly to water or wetlands. DO NOT apply when weather conditions favor drift from target area. DO NOT contaminate water by cleaning of equipment or disposal of wastes.

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DISCLAIMER

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American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

American Cyanamid Company makes no other express or implied warranty, including any other express or implied warranty of FITNESS or of MERCHANTABILITY.

DIRECTIONS FOR USE

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

Observe all cautions and limitations in this leaflet and the labels of products used in combination with PROWL DG. The use of PROWL DG not consistent with this label can result in injury to crops, animals or persons. Keep containers closed to avoid spills and contamination.

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STORAGE AND DISPOSAL

Prohibitions	DO NOT contaminate water, food or feed by storage or disposal. Open dumping is prohibited. DO NOT store above 120°F.
Pesticide Disposal	Pesticide spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.
Container Disposal	Completely empty container by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of jugs in a sanitary landfill or by incineration if allowed by State and local authorities.
General	Consult Federal, State or local disposal authorities for approved alternative procedures.

GENERAL INFORMATION

Special Precautions

PROWL DG herbicide controls most annual grasses and certain broadleaf weeds as they germinate, but will not control established weeds. Destroy existing weeds before applying PROWL DG. 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.

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Seedling diseases, cold weather, excessive moisture, deep planting, 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.

Cultural Practices Following Application

Should weeds develop, a shallow cultivation or *stary hoeing* will generally result in better weed control. When cultivating for any reason, it should be shallow. A PROWL DG treatment may be followed by any registered herbicide to control weeds not listed on the PROWL DG label.

Mixing Instructions for PROWL DG

Respective sections of this leaflet define recommended PROWL DG or PROWL DG tank-mix treatments registered for application in water.

1. Fill tank one-half to three-quarters full with clean water.
2. PROWL DG alone
When using PROWL DG alone, slowly add PROWL DG to the partially-filled tank while agitating and then fill the remainder of the tank with water.
3. PROWL DG Tank Mixes
 - a. Wettable Powder Formulations
 - (1) When using PROWL DG with a wettable powder formulation, add PROWL DG to the partially-filled tank while agitating.
 - (2) When PROWL DG is properly mixed, add a slurry of the wettable powder (1 part WP - 2 parts water) slowly into the tank. Fill the remainder of the tank while agitating.
 - b. Flowable Formulations
 - (1) When using PROWL DG with a flowable formulation, add PROWL DG to the partially-filled tank while agitating.
 - (2) When PROWL DG is properly mixed, premix one part of the flowable with two parts water and add this diluted mixture slowly into the tank. Fill the remainder of the tank while agitating.
 - c. Emulsifiable Concentrate Formulations
 - (1) When using PROWL DG with an emulsifiable concentrate formulation, add PROWL DG to the partially-filled tank while agitating.
 - (2) When PROWL DG is properly mixed, premix one part of the emulsifiable concentrate with two parts water and add this diluted mixture slowly into the tank. Fill the remainder of the tank while agitating.
 - d. Dry Flowable (Water Dispersible Granule) Formulations
 - (1) When using PROWL DG with a dry flowable formulation, add PROWL DG to the partially-filled tank while agitating.
 - (2) When PROWL DG is properly mixed, premix one part of the dry flowable with two parts water and add this diluted mixture slowly into the tank. Fill the remainder of the tank while agitating.
 - e. For Tank Mixtures With Paraquat CL. See Mixing Instructions On Page 62.
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, 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.

Atrazine Conversion Table

Rate of atrazine 80 WP	Rate of atrazine 4L	Rate of AAtrax Nine-O
1.25 lbs.	2.0 pts.	1.1 lbs.
1.50 lbs.	2.4 pts.	1.3 lbs.
2.00 lbs.	3.2 pts.	1.8 lbs.

Bladex Conversion Table

Rate of Bladex 80 WP	Rate of Bladex 4L
1.25 lbs.	2.0 pts.
1.50 lbs.	2.4 pts.
2.00 lbs.	3.2 pts.
2.50 lbs.	4.0 pts.
3.00 lbs.	4.8 pts.

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Sencor/Lexone Conversion Table

Rate of Sencor/Lexone DF	Rate of Sencor/Lexone 50WP	Rate of Sencor 4F/Lexone 4L
0.33 lb.	0.50 lb.	0.50 pt.
0.50 lb.	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.
1.5 pts.	1.5 lbs.
2.0 pts.	2.0 lbs.
2.5 pts.	2.5 lbs.

CORN-Field

PROWL DG can be applied in corn as follows:

Preemergence (surface treatment after planting)

PROWL DG + atrazine p. 15

PROWL DG + Bladex p. 15

PROWL DG alone p. 19

PROWL DG + Banvel p. 22

Early Postemergence

PROWL DG + atrazine p. 15

PROWL DG + Bladex p. 15

DO NOT INCORPORATE

Refer to specific sections of the label for directions for each method of application and special instructions for field corn grown in minimum tillage systems on page 24

Refer to page 67 for instructions on CULTI-SPRAY applications (layby treatment) in field corn

Refer to page 13 for follow crop restrictions

GENERAL INSTRUCTIONS

With the exception of minimum tillage systems, the seedbed should be firm and free of clods and trash. Use only where adequate tillage is practiced to provide good seed coverage. 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. After early postemergence treatments, wait 7 to 10 days before cultivating.

APPLICATIONS OF PROWL DG PLUS ATRAZINE MIXTURES OR PROWL DG PLUS BLADEX MIXTURES

PREEMERGENCE (surface treatment after planting)

Uniformly apply PROWL DG plus atrazine or PROWL DG plus Bladex tank-mix treatments in 10 or more gallons of water per acre by ground equipment or in 5 or more gallons of water by aircraft. Apply the tank mixtures preemergence, after planting, but before weeds or crop emerge.

(Refer to page 12 for spraying instructions. Refer to page 24 for instructions for use in minimum tillage systems.)

DO NOT INCORPORATE or serious corn injury can result.

EARLY POSTEMERGENCE

Uniformly apply PROWL DG plus atrazine or PROWL DG plus Bladex 80WP tank-mix treatments in 10 or more gallons of water by ground equipment or in 5 or more gallons of water by aircraft.

(Refer to page 12 for spraying instructions. Refer to page 24 for instructions for use in minimum tillage systems.)

DO NOT INCORPORATE or serious corn injury can result.

DO NOT apply in liquid fertilizer or following preemergence PROWL DG applications.

DO NOT apply PROWL DG alone postemergence.

DO NOT apply PROWL DG plus Bladex early postemergence under extended cold (below 50 F), wet weather conditions, or when cold, wet conditions are predicted, or serious corn injury can result.

Tank mixtures of PROWL DG plus atrazine or PROWL DG plus Bladex 80WP may be applied in water **ONLY**, after field corn emergence but no later than when corn is in the 2-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 1-2 leaf stage. (**DO NOT** use Bladex 4L postemergence on field corn.)

WEED SPECIES CONTROLLED

The following grass and broadleaf weed species are controlled by treatments of PROWL DG plus atrazine or PROWL DG plus Bladex.

GRASSES CONTROLLED:

Barnyardgrass (*Echinochloa crus-galli*)
Crabgrass (*Digitaria* spp.)
Fall panicum (*Panicum dichotomiflorum*)
Foxtail (giant) (*Setaria faberi*)
Foxtail (green) (*Setaria viridis*)
Foxtail (yellow) (*Setaria lutescens*)
Goosegrass (*Eleusine indica*)
Johnsongrass (from seed) (*Sorghum halepense*)
Signalgrass (*Brachiaria platyphylla*)
Texas panicum (*Panicum texanum*)
Witchgrass (*Panicum capillare*)
Woolly cupgrass (*Eriochloa villosa*)

BROADLEAF WEEDS CONTROLLED:

Black nightshade (*Solanum nigrum*)
Carpetweed (*Mollugo verticillata*)
Common ragweed (*Ambrosia artemisiifolia*)
Florida pusley (*Richardia scabra*)
Lambsquarters (*Chenopodium album*)
Mustard (*Brassica* spp.)
Pigweed (*Amaranthus* spp.)
Purslane (*Portulaca oleracea*)
Smartweed (*Polygonum pennsylvanicum*)
Velvetleaf (Buttonweed) (*Abutilon theophrasti*)
Venice mallow (*Hibiscus trionum*)

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

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

BROADCAST RATE PER ACRE OF PROWL DG PLUS ATRAZINE IN FIELD CORN

Soil Texture	Less than 1.5% Organic Matter PROWL DG + atrazine 80W*	1.5% to 3.0% Organic Matter PROWL DG + atrazine 80W*	More than 3.0% Organic Matter PROWL DG + atrazine 80W*
COARSE			
sands, loamy sands	1.25 to 1.65 lbs	1.65 lbs	2.5 lbs
sandy loams	+ 1.25 lbs	+ 1.25 lbs	+ 1.25 lbs
MEDIUM			
sandy clay loams**	1.65 lbs	2.5 lbs	2.5 lbs
sandy clays, loams	+ 1.25 to 1.5 lbs	+ 1.25 to 1.5 lbs	+ 1.5 to 2.0 lbs
silt, silt loams			
FINE			
silty clay loams**	1.65 lbs	2.5 lbs	2.5 lbs
clay loams	+ 1.25 to 1.5 lbs	+ 1.5 to 2.0 lbs	+ 1.5 to 2.0 lbs
silty clays, clays			

*For use in states east of and including Minnesota, Iowa, Missouri, Arkansas and Louisiana.

**When using atrazine 4L or AAtrex Nine-O use equivalent rates. One quart of atrazine 4L equals 1.25 lbs. of atrazine 80W. One pound of AAtrex Nine-O equals 1.12 lbs. of atrazine 80W. See conversion chart on page 10.

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

The high rate for each soil texture, where listed, should be used if heavy infestations of grass or broadleaf weeds are anticipated or if extensive crop residues were present prior to seedbed preparation. DO NOT use on peat or muck soils.

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 IN FIELD CORN

Soil Texture	Less than 1.5% Organic Matter PROWL DG + Bladex 80WP*	1.5% to 3.0% Organic Matter PROWL DG + Bladex 80WP*	More than 3.0% Organic Matter PROWL DG + Bladex 80WP*
COARSE²			
sands, loamy sands	1.25 to 1.65 lbs	1.65 lbs	2.5 lbs
sandy loams	1.25 to 1.5 lbs	2.0 lbs	2.0 to 2.5 lbs
MEDIUM			
sandy clay loams**	1.65 lbs	2.5 lbs	2.5 lbs
sandy clays, loams	1.25 to 1.5 lbs	2.0 to 2.5 lbs	2.5 to 3.0 lbs
silt, silt loams			
FINE			
silty clay loams**	1.65 lbs	2.5 lbs	2.5 lbs
clay loams	2.0 to 2.5 lbs	2.5 to 3.0 lbs	2.5 to 3.0 lbs
silty clays, clays			

*For use in states east of and including Minnesota, Iowa, Missouri, Arkansas and Louisiana.

**DO NOT use this combination on sands or loamy sands with less than 1% organic matter.

*When using Bladex 4L use equivalent rates. One quart of Bladex 4L equals 1.25 lbs. of Bladex 80WP. Bladex 4L early postemergence. See conversion chart on page 10.

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

The MAXIMUM RATE of Bladex 80WP for early postemergence treatments is 2.5 lbs. per acre.

The high rate for each soil texture, where listed, should be used if heavy infestations of grass or broadleaf weeds are anticipated or if extensive crop residues were present prior to seedbed preparation. DO NOT use on peat or muck soils.

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

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APPLICATIONS OF PROWL DG ALONE

PREEMERGENCE APPLICATION (Surface treatment after planting)

Uniformly apply the recommended PROWL DG preemergence treatment in 10 or more gallons of water per acre by ground equipment or in 5 or more gallons of water by aircraft. (Refer to page 12 for spraying instructions.)

Apply PROWL DG preemergence after planting, but before weeds and crop emerge. DO NOT INCORPORATE or serious corn injury can result. DO NOT APPLY PROWL DG ALONE POSTEMERGENCE.

WEED SPECIES CONTROLLED

The following grass and broadleaf weed species are controlled by preemergence treatments of PROWL DG at the rates recommended for each soil texture listed below.

GRASSES CONTROLLED:

Barnyardgrass (*Echinochloa crus-galli*)
Crabgrass (*Digitaria* spp.)
Fall panicum (*Panicum dichotomiflorum*)
Foxtail (giant) (*Setaria faberi*)
Foxtail (green) (*Setaria viridis*)
Foxtail (yellow) (*Setaria lutescens*)
Goosegrass (*Eleusine indica*)
Johnsongrass (from seed) (*Sorghum halepense*)
Signalgrass (*Brachiaria platyphylla*)
Texas panicum (*Panicum texanum*)
Witchgrass (*Panicum capillare*)
Woolly cupgrass (*Eriochloa villosa*)

BROADLEAF WEEDS CONTROLLED:

Carpetweed (*Mollugo verticillata*)
Florida pusley (*Richardia scabra*)
Lambsquarters (*Chenopodium album*)
Pigweed (*Amaranthus* spp.)
Purslane (*Portulaca oleracea*)
Smartweed (*Polygonum pennsylvanicum*)
Velvetleaf (Buttonweed) (*Abutilon theophrasti*)

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PREEMERGENCE BROADCAST RATE PER ACRE OF PROWL DG IN FIELD CORN

Soil Texture	Less than 1.5% Organic Matter ¹	1.5% to 3.0% Organic Matter	More than 3.0% Organic Matter
COARSE sands, loamy sands, sandy loams	1.25 to 1.65 lbs	2.5 lbs	2.5 lbs
MEDIUM sandy clay loams*, sandy clays, loams, silts, silt loams	1.65 to 2.5 lbs	2.5 lbs	2.5 to 3.35 lbs
FINE silty clay loams*, clay loams, silty clays, clays	1.65 to 2.5 lbs	2.5 to 3.35 lbs	3.35 lbs

¹For use in states east of and including Minnesota, Iowa, Missouri, Arkansas and Louisiana.

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

The high rate for each soil texture, where listed, should be used if heavy infestations of grass or broadleaf weeds are anticipated or if extensive crop residues were present prior to seedbed preparation. DO NOT use on peat or muck soils.

NOTE: When PROWL DG alone is used, if corn crop 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 tilled area.

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APPLICATIONS OF PROWL DG FOR REDUCTION OF WILD PROSO MILLET

PROWL DG alone preemergence; PROWL DG plus atrazine preemergence tank mixture; PROWL DG plus Bladex preemergence tank mixture; PROWL DG plus atrazine early postemergence tank mixture; or PROWL DG plus Bladex early postemergence tank mixture can be used in field corn to aid in the control of and reduce competition from

Wild proso millet (Panicum miliaceum)

Wild proso millet is a prolific seed producer and light infestations can develop into heavy populations the following year. This weed is extremely competitive and can significantly reduce yields. Wild proso millet germinates throughout the growing season making season long control extremely difficult. Wild proso millet plants present at the end of the growing season produce seeds for reinfestation and can cause harvesting problems.

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

Refer to page 19 for applications of PROWL DG alone preemergence. Refer to page 15 for applications of PROWL DG plus atrazine tank mixture or PROWL DG plus Bladex tank mixture (preemergence or early postemergence).

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PREEMERGENCE APPLICATIONS OF PROWL DG PLUS BANVEL MIXTURES IN FIELD CORN

Apply recommended tank mixtures of PROWL DG plus Banvel preemergence (surface treatment) only after planting, but before weeds or crop emerge. Apply in 10 or more gallons of water per acre by GROUND EQUIPMENT ONLY. DO NOT INCORPORATE or serious corn injury may result.

These tank mixtures are recommended for use ONLY in the states of Illinois and Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Montana, Nebraska, New York, North Dakota, Ohio, Pennsylvania, South Dakota, and Wisconsin. APPLY ONLY ON LEVEL PLANTED CORN. Plant corn AT LEAST 1 1/2 inches deep to ensure good seed coverage.

WEED SPECIES CONTROLLED

In addition to the weeds controlled by PROWL DG alone, the following weeds are controlled by PROWL DG plus Banvel at the rates recommended for each soil texture listed below:

- Cocklebur (*Xanthium pensylvanicum*)
- Vernice mallow (*Hibiscus trionum*)

PREEMERGENCE BROADCAST RATE PER ACRE OF PROWL DG PLUS BANVEL IN FIELD CORN

Soil Texture ¹	1.5% to 3.0% Organic Matter PROWL DG + Banvel	More than 3.0% Organic Matter PROWL DG + Banvel
MEDIUM sandy clay loams* sandy clays, loams silts, silt loams	DO NOT USE	2.5 lbs. + 0.75 pts
FINE silty clay loams* clay loams silty clays, clays	2.5 lbs. + 0.75 pts	2.5 lbs. + 0.75 pts

¹DO NOT use on sands, loamy sands, sandy loams, peat or muck soils.

DO NOT use on medium soils containing less than 3% organic matter.

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

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

DO NOT use on furrow irrigated corn.

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.

FIELD CORN GROWN IN MINIMUM TILLAGE SYSTEMS

Broadcast Ground Applications of PROWL DG and PROWL DG Tank Mixtures in Minimum Tillage Systems

PROWL DG and PROWL DG tank mixtures with atrazine and Bladex may be used in minimum tillage systems where adequate tillage is practiced to provide a seedbed which allows for good seed 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.

Refer to the General Information Section regarding mixing instructions (page 8) and the Spraying Instructions Section regarding Ground Applications (page 12). Weed species listed in the application sections (pages 15-20) are controlled by PROWL DG or PROWL DG tank-mix combinations when applied at the proper treatment rates determined by soil textures. Refer to the appropriate table for the specific rates of application (pages 17-20).

PREEMERGENCE (Surface treatment after planting)

In those minimum tillage systems where an adequate seedbed, without living vegetation, is prepared which allows for good seed coverage, apply PROWL DG, PROWL DG plus atrazine 80W* or PROWL DG plus Bladex 80WP** in 20 or more gallons of water per acre with ground equipment only after planting but before the corn emerges. DO NOT INCORPORATE or serious corn injury can result.

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EARLY POSTEMERGENCE

In those minimum tillage systems where an adequate seedbed is prepared which allows for good seed coverage, PROWL DG plus atrazine 80W and PROWL DG plus Bladex 80WP tank-mix combinations may be applied in 20 or more gallons of water per acre with ground equipment only after field corn emergence but no later than when corn is in the 2-leaf stage of growth and weeds are no more than 1 inch tall except for Texas panicum which must be no larger than the 1-2 leaf stage.

DO NOT INCORPORATE or serious corn injury can result.

DO NOT apply early postemergence treatments in liquid fertilizer or following preemergence PROWL DG applications. DO NOT apply Bladex 4L postemergence to field corn. DO NOT apply PROWL DG alone postemergence.

DO NOT apply PROWL DG plus Bladex early postemergence under extended cold (below 50 F), wet weather conditions, or when cold, wet conditions are predicted, or serious corn injury can result.

*When using atrazine 4L or AAtrex Nine-O use equivalent rates. One quart of atrazine 4L equals 1.25 lbs. of atrazine 80W. One pound of AAtrex Nine-O equals 1.12 lbs. of atrazine 80W. See conversion chart on page 10.

**When using Bladex 4L use equivalent rates. One quart Bladex 4L equals 1.25 lbs. of Bladex 80WP. See conversion chart on page 10.

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COTTON

PROWL DG can be applied in cotton as follows

Preplant Incorporated

PROWL DG alone p 29

PROWL DG - Caparol p 31

Sequential

PROWL DG preplant incorporated followed by Cotoran preemergence p 31

PROWL DG preplant incorporated followed by Karmex preemergence p 31

Preemergence

PROWL DG -

Cotoran p 34

Refer to specific sections of the label for directions for each method of application

Refer to page 13 for follow crop restrictions

PREPLANT INCORPORATED APPLICATIONS

Uniformly apply the recommended PROWL DG treatment in 10 or more gallons of water per acre by ground equipment. Apply in 5 or more gallons of water per acre by aircraft. Refer to page 12 for spraying instructions. Refer to sections below for incorporation instructions.

Thoroughly mix the previous crop residues into the soil to a depth of 4 to 6 inches by plowing or disking prior to application.

PROWL DG may be applied immediately before planting or up to 60 days prior to planting cotton in all states except Arizona, California, Louisiana, New Mexico, Mississippi, Oklahoma and Texas where PROWL DG may be applied in the fall after October 15th (up to 140 days prior to planting cotton).

DO NOT APPLY PROWL DG AS A POSTEMERGENCE SPRAY IN COTTON

After application, rotary-hoeing, shallow cultivation, or hand-hoeing can be practiced without reducing weed control. When mechanically incorporated, PROWL DG is not dependent upon rainfall for effective weed control.

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INCORPORATION INSTRUCTIONS

1 Flat-Planted Cotton

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

- Disk harrow set to cut 3 to 4 inches deep and operated in two different directions at 4 to 6 mph.
- PTO-driven equipment (tillers, cultivators, hoes) set to cut 2 inches deep and operated one time at 4 mph or less.
- 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.
- Field cultivator with 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 to cut 3 inches deep and operated two times at more than 5 mph with the second pass made at an angle to the first.
- LELY-ROTERRA* set and operated according to the manufacturer's directions to thoroughly incorporate PROWL DG to a depth of 1 to 2 inches.
- Do-All set and operated according to the manufacturer's directions to thoroughly incorporate PROWL DG to a depth of 1 to 2 inches.

2 Bedded Cotton—Application Over Beds

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

- 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.

*LELY-ROTERRA is a trademark of Lely.

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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 bring untreated soil to the surface or expose untreated soil on the seedbed or in the furrow

3 Bedded Cotton—Application Prior to Bedding

PROWL DG is to be incorporated within 7 days of application prior to planting. 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

PREPLANT INCORPORATED APPLICATIONS OF PROWL DG ALONE WEED SPECIES CONTROLLED

The following grass and broadleaf weed species are controlled by preplant, incorporated treatments of PROWL DG in cotton at the rates recommended for each soil texture listed below.

GRASSES CONTROLLED:

Barnyardgrass (*Echinochloa crus-galli*)
Crabgrass (*Digitaria* spp.)
Crowfootgrass (*Dactyloctenium aegyptium*)
Fall panicum (*Panicum dichotomiflorum*)
Foxtail (giant) (*Setaria faberii*)
Foxtail (green) (*Setaria viridis*)
Foxtail (yellow) (*Setaria lutescens*)
Goosegrass (*Eleusine indica*)
Johnsongrass (from seed) (*Sorghum halepense*)
Signalgrass (*Brachiaria platyphylla*)
Texas panicum (*Panicum texanum*)

BROADLEAF WEEDS CONTROLLED:

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

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

Smartweed (*Polygonum pennsylvanicum*)
Velvetleaf (Buttonweed) (*Abutilon theophrasti*)

PREPLANT INCORPORATED BROADCAST RATE PER ACRE OF PROWL DG IN COTTON

Soil Texture	PROWL DG
COARSE sands loamy sands sandy loams	0.85 to 1.25 lbs
MEDIUM sandy clay loams* sandy clays loams silt loams and silts	1.25 to 1.65 lbs
FINE silty clay loams* silty clays clay loams clays	1.25 to 2.5 lbs

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

The high rate for each soil texture above should be used if heavy weed populations are anticipated. If PROWL DG is applied from 60 to 140 days before planting or if extensive crop residues were present prior to seedbed preparation. Use the 2.5 lb rate for heavy clay soils.

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 PROWL DG treated soil without adverse effects. If replanting is necessary, DO NOT rework the soil deeper than the PROWL DG treated zone.

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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 80WP 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 broad-leaf weeds listed on the Cotoran or Karmex label.

PREPLANT INCORPORATED APPLICATION OF PROWL DG PLUS CAPAROL MIXTURES

PROWL DG plus Caparol 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.

Uniformly apply recommended tank mixture of PROWL DG plus Caparol in 10 or more gallons of water per acre by ground equipment. PROWL DG plus Caparol may be applied prior to listing or over partially finished or finished beds. Incorporation should immediately follow application. Refer to page 27 for incorporation instructions. 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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WEED SPECIES CONTROLLED

When applied as directed, tank mixtures of PROWL DG plus Caparol preplant incorporated will control the following grass and broadleaf weeds in addition to those controlled by PROWL DG alone

GRASSES CONTROLLED:

Junglerice (*Echinochloa colonum*)
Wild oat (*Avena fatua*)

BROADLEAF WEEDS CONTROLLED:

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

Recommended tank mixtures of PROWL DG plus Caparol preplant incorporated will control shallow-germinating seedlings of

Cocklebur (*Xanthium pensylvanicum*)
Coffeeweed (*Daubentonia texana*)
Sandbur (*Cenchrus* spp.)

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PREPLANT INCORPORATED BROADCAST¹ RATE PER ACRE OF PROWL DG PLUS CAPAROL 80W IN COTTON GROWN IN ARIZONA, CALIFORNIA, NEW MEXICO AND THE UPPER AND LOWER EL PASO VALLEY OF TEXAS

	Soil Texture	PROWL DG + Caparol 80W
COARSE	sands, loamy sands	DO NOT USE
	sandy loams	0.85 to 1.25 lbs. + 1.5 to 2.0 lbs
MEDIUM	loams	1.25 to 1.65 lbs. + 2.0 lbs
	silt loams, silts,	1.25 to 1.65 lbs. + 2.0 to 3.0 lbs
	sandy clay loams*	
FINE	silty clay loams*	1.25 to 2.5 lbs. + 2.0 to 3.0 lbs
	clay loams, clays	

¹For calculation of band treatment rate, see page 12

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

The high rate for each soil texture above should be used if heavy weed populations are anticipated or if extensive crop residues were present prior to seedbed preparation. Use the 2.5 lb. rate of PROWL DG for heavy clay soils.

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 Caparol. DO NOT rework the soil. Follow cropping restrictions on Caparol label.

PRECAUTIONS: DO NOT use this tank mixture in cut areas of new, 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 Caparol label.

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PREEMERGENCE APPLICATION PROWL DG PLUS COTORAN MIXTURES

PROWL DG plus Cotoran 80WP 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.

Uniformly apply recommended tank mixtures of PROWL DG plus Cotoran in 10 or more gallons of water per acre by ground equipment immediately after planting. Make sure cotton seeds are placed 1 inch or deeper below soil surface. Apply PROWL DG plus Cotoran preemergence tank mixture immediately after planting or crop injury may result. Maintain good agitation at all times until spraying is completed. Refer to page 12 for spraying instructions.

PROWL DG plus Cotoran preemergence tank mixture 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.

WEED SPECIES CONTROLLED

When applied as directed, PROWL DG plus Cotoran preemergence tank mixture will control the following grass and broadleaf weed species:

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GRASSES CONTROLLED:

Barnyardgrass (*Echinochloa crus-galli*)
Crabgrass (*Digitaria* spp.)
Fall panicum (*Panicum dichotomiflorum*)
Foxtail (giant) (*Setaria faberi*)
Foxtail (green) (*Setaria viridis*)
Foxtail (yellow) (*Setaria lutescens*)
Goosegrass (*Eleusine indica*)
Johnsongrass (from seed) (*Sorghum halepense*)
Signalgrass (*Brachiaria platyphylla*)
Texas panicum (*Panicum texanum*)

BROADLEAF WEEDS CONTROLLED:

Carpetweed (*Mollugo verticillata*)
Florida pusley (*Richardia scabra*)
Jimsonweed (*Datura stramonium*)
Kochia (*Kochia scoparia*)
Lambsquarters (*Chenopodium album*)
Pigweed (*Amaranthus* spp.)
Prickly sida (*Sida spinosa*)
Purslane (*Portulaca oleracea*)
Spurge, annuals (*Euphorbia* spp.)

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

Cocklebur (*Xanthium pensylvanicum*)
Annual morningglory (*Ipomoea* spp.)

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BROADCAST RATES¹ PER ACRE OF PROWL DG PLUS COTURAN PREEMERGENCE TANK MIXTURE

Soil Texture	States	PROWL DG + Cotoran 80WP
COARSE sands, loamy sands, sandy loams	Arkansas, Louisiana and Mississippi Other states, except Texas, Oklahoma, New Mexico, Arizona, and California	0.85 to 1.25 lbs + 1.0 lb 0.85 to 1.25 lbs + 1.25 lbs
MEDIUM sandy clay loams*, sandy clays, loams, silt loams, silts	All states, except Texas, Oklahoma, New Mexico, Arizona, and California	1.25 to 1.65 lbs + 1.25 to 2.0 lbs
FINE silty clay loams*, clay loams, silty clays, clays	All states, except Texas, Oklahoma, New Mexico, Arizona, and California	1.25 to 2.5 lbs + 2.0 to 2.5 lbs

¹For calculation of band treatment rate, see page 12.

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

The high rate for each soil texture above should be used if heavy weed populations are anticipated or if extensive crop residues were present prior to seedbed preparation. Use the 2.5 lb rate of PROWL DG for heavy clay soils.

NOTE: The use of Cotoran 80WP as a preemergence application, following the use of a systemic insecticide at planting, may result in injury to cotton. DO NOT plant 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.

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PREPLANT INCORPORATED APPLICATION OF PROWL DG FOR SUPPRESSION OF RHIZOME JOHNSONGRASS

PROWL DG applied preplant incorporated will provide suppression of rhizome johnsongrass (*Sorghum halepense*) in cotton at the rates recommended for soil textures below. This use is not recommended for Arizona, New Mexico and California.

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.

Uniformly apply PROWL DG in 10 or more gallons of water per acre by ground equipment. Apply in 5 or more gallons of water per acre by aircraft. PROWL DG may be applied immediately before planting or up to 60 days prior to planting cotton. Refer to page 12 for specific instructions for use with ground and aerial equipment.

PROWL DG is to be incorporated into the soil within 7 days after application prior to planting. (For maximum suppression of rhizome johnsongrass, incorporate PROWL DG as soon as possible after application.) Deep and thorough incorporation of PROWL DG is necessary for suppression 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 post-emergence herbicides are recommended. Follow the directions for use on the labels of the respective herbicides.

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PREPLANT INCORPORATED BROADCAST RATE PER ACRE OF PROWL DG IN COTTON FOR SUPPRESSION OF RHIZOME JOHNSONGRASS

Soil Texture—Up to 3% Organic Matter¹

COARSE sands, loamy sands, sandy loams	1.65 lbs
MEDIUM sandy clay loams*, sandy clays, loams, silt loams, silts	2.5 lbs
FINE silty clay loams*, silty clays, clays, clay loams	3.35 lbs

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

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

NOTE: DO NOT feed forage or graze livestock in PROWL DG-treated cotton fields

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

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SOYBEANS

PROWL DG can be applied in soybeans as follows (Do not use in California)

Preplant Incorporated

PROWL DG alone p 43
PROWL DG + Sencor
Lexone p 44
PROWL DG + Amiben p 47
PROWL DG + Amiben
+ Sencor Lexone p 50

Sequential

PROWL DG preplant incorporated followed by preemergence applications of
Sencor Lexone p 44
Amiben p 47
Lorox p 53

Preemergence

PROWL DG + Sencor
Lexone p 44
PROWL DG + Amiben
p 47
PROWL DG + Lorox
p 53
PROWL DG + Amiben
+ Sencor Lexone p 50

Refer to specific sections of the label for directions for each method of application

Refer to page 61 for PROWL DG + Sencor Lexone or Lorox + Paraquat CL treatments in minimum and no-till soybeans

PROWL DG will provide control or suppression of the following special weeds

Red rice, see page 58
Rhizome johnsongrass, see page 59
St. Johnswort, see page 56
Itchgrass, see page 58

Refer to page 13 for follow crop restrictions

GENERAL APPLICATION INSTRUCTIONS

Uniformly apply the recommended PROWL DG or PROWL DG tank-mix combination treatment in 10 or more gallons of water per acre by ground equipment. Apply in 5 or more gallons of water per acre by aircraft. Refer to page 12 for spraying instructions

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INCORPORATION INSTRUCTIONS

1 Flat-Planted Soybeans

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

- Disk harrow set to cut 3 to 4 inches deep and operated in two different directions at 4 to 6 mph.
- PTO-driven equipment (tillers, cultivators, hoes) set to cut 2 inches deep and operated one time at 4 mph or less.
- 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.
- Field cultivator with 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 to cut 3 inches deep and operated two times at more than 5 mph with the second pass made at an angle to the first.
- LELY-ROTERRA* set and operated according to the manufacturer's directions to thoroughly incorporate PROWL DG to a depth of 1 to 2 inches.
- 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 2 inches of soil. Recommended implements include: 1) C-shank or S-shank field cultivators equipped with flextime drag or rolling basket attachment and 2) the combination disk field cultivator implement equipped with flextime 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 mph and set to cut 3 to 4 inches deep.

*LELY-ROTERRA is a trademark of Lely.

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2 Bedded Soybeans—Application Over Beds

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

- 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.
- PTO-driven equipment (tillers, cultivators, hoes) set to cut 2 inches deep and operated one time at 4 mph or less.
- 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 bring untreated soil to the surface or expose untreated soil on the seedbed or in the furrow.

3 Bedded Soybeans—Application Prior to Bedding

PROWL DG is to be incorporated within 7 days of application prior to planting. 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:

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

During bedding, 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.

Preplant Incorporated Applications of PROWL DG Alone

The following are recommended treatments for preplant incorporated applications of PROWL DG alone are to be used with the following treatments or sequential combination treatments are planned. Thoroughly mix previous crop residue to a depth of 4 to 6 inches by plowing or disking prior to application. PROWL DG may be applied immediately prior to planting or up to 60 days prior to planting. Refer to incorporation instructions above.

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WEED SPECIES CONTROLLED

The following grass and broadleaf weed species are controlled by preplant incorporated treatments of PROWL DG in soybeans at the rates recommended for each soil texture listed

GRASSES CONTROLLED:

Barnyardgrass (*Echinochloa crus-galli*)
 Crabgrass (*Digitaria* spp.)
 Crowfootgrass (*Dactyloctenium aegyptium*)
 Fall panicum (*Panicum dichotomiflorum*)
 Foxtail (giant) (*Setaria faberi*)
 Foxtail (green) (*Setaria viridis*)
 Foxtail (yellow) (*Setaria lutescens*)
 Goosegrass (*Eleusine indica*)
 Johnsongrass (from seed) (*Sorghum halepense*)
 Signalgrass (*Brachiaria platyphylla*)
 Texas panicum (*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, annuals (*Euphorbia* spp.)

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

Smartweed (*Polygonum pensylvanicum*)
 Velvetleaf (Buttonweed) (*Abutilon theophrasti*)

Refer to page numbers indicated below for instructions for control or suppression of the following weeds

Shattercane, p 56
 Rhizome johnsongrass, p 59
 Red rice, p 58
 Itchgrass, p 58

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PREPLANT INCORPORATED BROADCAST RATE PER ACRE OF PROWL DG ALONE IN SOYBEANS

Soil Texture	SOUTHERN STATES (Including Eastern Coastal Plains) ¹		NORTHERN STATES ¹
	No Organic Matter Restriction	Up to 3% Organic Matter	More than 3% Organic Matter
COARSE sands, loamy sands sandy loams	0.85 to 1.25 lbs	0.85 to 1.65 lbs	1.65 lbs
MEDIUM sandy clay loams* sandy clays, loams silts, silt loams	1.25 to 1.65 lbs	1.25 to 2.1 lbs	2.1 to 2.5 lbs
FINE silty clay loams* clay loams, silty clay, clays	1.25 to 2.5 lbs	1.65 to 2.5 lbs	2.5 lbs

¹ See map on page 72 for specific states. DO NOT use in California.

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

The high rate for each soil texture above, where listed, should be used if heavy weed populations are anticipated or if extensive crop residues were present prior to seedbed preparation. Use the 2.5 lb. rate for heavy clay soils.

DO NOT USE on peat or muck soils.

NOTE: Livestock can graze or be fed soybean forage from PROWL DG-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 PROWL DG treated zone.

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PROWL DG PLUS SENCOR/LEXONE

The following PROWL DG plus Sencor Lexone treatments may be used in soybeans. Uniformly apply PROWL DG or PROWL DG plus Sencor Lexone tank mixtures in 10 or more gallons of water per acre with ground equipment or in 5 or more gallons of water per acre with aircraft. See page 12 for spraying instructions. See page 40 for incorporation instructions. Use PROWL DG and Sencor Lexone rates listed in table on page 46. See special precautions below.

1 PROWL DG 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 Mixtures of PROWL DG plus Sencor Lexone

Apply PROWL DG plus Sencor Lexone at planting or up to 2 days after planting. Apply to a seedbed which is firm and free of clods and trash. DO NOT APPLY POSTEMERGENCE. These 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 small enough to be controlled by mechanical cultivation.

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.

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SPECIAL PRECAUTIONS FOR PROWL DG PLUS 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.

WEED SPECIES CONTROLLED

When applied as directed, tank mixtures of PROWL DG plus Sencor Lexone or PROWL DG preplant incorporated followed by Sencor Lexone preemergence will control the following weed species in addition to those controlled by PROWL DG alone:

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

PROWL DG plus Sencor Lexone will reduce competition from cocklebur (*Xanthium pensylvanicum*). Use either: a preplant incorporated application of PROWL DG followed by a preemergence application of Sencor Lexone or a preemergence tank-mix combination of PROWL DG plus Sencor Lexone where severe cocklebur infestations are anticipated. See page 56 for PROWL DG plus Sencor Lexone use for shattercane control.

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**BROADCAST RATES PER ACRE OF PREPLANT INCORPORATED OR PRE-
EMERGENCE PROWL DG PLUS SENCOR LEXONE TANK MIXTURES OR PROWL DG
PREPLANT INCORPORATED FOLLOWED BY SENCOR LEXONE PREEMERGENCE**

**Southern States
(Including Eastern Coastal Plains)¹**

Northern States¹

Soil Texture	PROWL DG + Sencor Lexone DF*	PROWL DG + Sencor Lexone DF*	PROWL DG + Sencor Lexone DF*
		Up to 3% Organic Matter	More than 3% Organic Matter
COARSE**			
loamy sands	0.85 to 1.25 lbs	0.85 to 1.25 lbs	1.25 lbs + 0.5 lb
sandy loams	+ 0.33 lbs	+ 0.6 lbs	
MEDIUM			
sandy clay loams***	1.25 to 1.65 lbs	1.25 to 1.65 lbs	1.25 to 1.65 lbs
sandy clays loams	+ 0.5 lbs	+ 0.5 lbs	+ 0.5 to 0.37 lbs
silt, silt loams			
FINE			
silty clay loams***	1.25 to 1.65 lbs	1.25 to 1.65 lbs	1.65 to 2.10 lbs
clay loams silty	+ 0.67 lbs	+ 0.5 to 0.67 lbs	+ 0.67 lbs
clays, clays			

¹See map on page 72 for specific states. DO NOT use in California.

*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 lbs. of Sencor DF or Lexone DF. See conversion chart on page 10.

**DO NOT USE on sands. DO NOT USE on loamy sands or on sandy loams that contain less than 2% organic matter. DO NOT USE on peat or muck soils.

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

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 extensive crop residues were present prior to seedbed preparation.

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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 AMIBEN
NORTHERN STATES ONLY**

The following PROWL DG plus Amiben treatments may be used in soybeans in the Northern states. See the map on page 72 for specific states. Uniformly apply PROWL DG or PROWL DG plus Amiben tank mixtures in 10 or more gallons of water per acre with ground equipment or in 5 or more gallons of water per acre with aircraft. See page 12 for spraying instructions. See page 40 for incorporation instructions. Use PROWL DG and Amiben rates listed in table on page 49.

1 PROWL DG Preplant Incorporated Followed by Amiben Preemergence

Apply PROWL DG preplant incorporated. Follow with a preemergence treatment of Amiben as directed on the Amiben label.

2 Preplant Incorporated Tank Mixture of PROWL DG plus Amiben

PROWL DG plus Amiben 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.

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3 Preemergence Tank Mixtures of PROWL DG plus Amiben

Apply PROWL DG plus Amiben at planting or up to 2 days after planting. Apply to a seedbed which is firm and free of clods and trash. DO NOT APPLY POSTEMERGENCE. These 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 small enough to be controlled by mechanical cultivation.

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.

WEED SPECIES CONTROLLED

When applied as directed, tank mixtures of PROWL DG plus Amiben or PROWL DG preplant incorporated followed by Amiben preemergence will control the following weed species in addition to those controlled by PROWL DG alone:

Common ragweed (*Ambrosia artemisiifolia*)
Mustard (*Brassica* spp.)
Smartweed (*Polygonum pensylvanicum*)
Velvetleaf (Buttonweed) (*Abutilon theophrasti*)

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BROADCAST RATES PER ACRE OF PREPLANT INCORPORATED OR PREEMERGENCE PROWL DG PLUS AMIBEN TANK MIXTURES OR PROWL DG PREPLANT INCORPORATED FOLLOWED BY AMIBEN PREEMERGENCE

Soil Texture	PROWL DG + Amiben 2E	PROWL DG + Amiben 2E
	Up to 3% Organic Matter	More than 3% Organic Matter
COARSE sands, loamy sands, sandy loams	DO NOT USE	DO NOT USE
MEDIUM sandy clay loams*, sandy clays, loams, silts, silt loams	1.25 to 1.65 lbs + 1.0 gal	1.25 to 1.65 lbs + 1.0 gal
FINE silty clay loams*, clay loams, silty clays, clays	1.25 to 1.65 lbs + 1.0 gal	1.65 to 2.1 lbs + 1.0 gal

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

DO NOT USE on peat or muck soils.

The high rate of PROWL DG for each soil texture above should be used if heavy weed populations are anticipated, if velvetleaf and smartweed infestations are anticipated, or if extensive crop residues were present prior to seedbed preparation.

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. Observe all precautions and limitations on Amiben label.

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PROWL DG PLUS AMIBEN PLUS SENCOR LEXONE

The following PROWL DG plus Amiben plus Sencor Lexone treatments may be used in soybeans in the Northern states. See the map on page 72 for specific states. Uniformly apply PROWL DG plus Amiben plus Sencor Lexone tank mixtures in 10 or more gallons of water per acre with ground equipment or in 5 or more gallons of water per acre with aircraft. When mixing add PROWL DG first, then Sencor or Lexone followed by Amiben. See page 8 for complete mixing instructions. See page 12 for spraying instructions. See page 40 for incorporation instructions. Use PROWL DG plus Amiben plus Sencor Lexone rates listed in table on page 52. See special precautions on page 45 for PROWL DG plus Sencor Lexone combinations.

1 Preplant Incorporated Tank Mixture of PROWL DG plus Amiben plus Sencor Lexone

PROWL DG plus Amiben 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.

2 Preemergence Tank Mixtures of PROWL DG plus Amiben plus Sencor Lexone

Apply PROWL DG plus Amiben plus Sencor Lexone at planting or up to 2 days after planting. Apply to a seedbed which is firm and free of clods and trash. DO NOT APPLY POSTEMERGENCE. These 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 small enough to be controlled by mechanical cultivation.

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.

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WEED SPECIES CONTROLLED

When applied as directed, tank mixtures of PROWL DG plus Amiben plus Sencor Lexone will control the following weed species in addition to those controlled by PROWL DG alone:

- Common ragweed (*Ambrosia artemisiifolia*)
- Mustards (*Brassica* spp.)
- Prickly sida (*Sida spinosa*)
- Smartweed (*Polygonum pensylvanicum*)
- Velvetleaf (Buttonweed) (*Abutilon theophrasti*)
- Vernice mallow (*Hibiscus trionum*)

PROWL DG plus Amiben plus Sencor Lexone preemergence will reduce competition from cocklebur (*Xanthium pensylvanicum*).

PROWL DG plus Amiben plus Sencor Lexone preplant incorporated or preemergence will reduce competition from Jimsonweed (*Datura stramonium*).

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**BROADCAST RATES PER ACRE OF PREPLANT INCORPORATED OR
PREEMERGENCE PROWL DG PLUS AMIBEN PLUS SENCOR/LEXONE TANK MIXTURES**

Soil Texture	PROWL DG + Amiben + Sencor/Lexone DF*	PROWL DG + Amiben + Sencor/Lexone DF*
	Up to 3% Organic Matter	More than 3% Organic Matter
COARSE** loamy sands, sandy loams (greater than 2% organic matter only)	1.25 lbs + 6.0 pts + 0.33 lbs	1.25 lbs + 6.0 pts + 0.33 lbs
MEDIUM sandy clay loams***, sandy clays, loams, silts, silt loams	1.25 to 1.65 lbs + 6.0 to 8.0 pts + 0.33 to 0.5 lbs	1.25 to 1.65 lbs + 6.0 to 8.0 pts + 0.33 to 0.5 lbs
FINE silty clay loams***, clay loams, silty clays, clays	1.25 to 1.65 lbs + 6.0 to 8.0 pts + 0.33 to 0.5 lbs	1.65 to 2.1 lbs + 8.0 pts + 0.5 lbs

*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 lbs. of Sencor DF or Lexone DF. See conversion chart on page 10.

**DO NOT USE on sands. DO NOT USE on loamy sands or on sandy loams that contain less than 2% organic matter. DO NOT USE on peat or muck soils.

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

The high rates of PROWL DG, Amiben and Sencor/Lexone for each soil texture, as stated above, should be used if heavy weed populations are anticipated, if cocklebur, jimsonweed, smartweed or velvetleaf populations are expected or if extensive crop residues were present prior to seedbed preparation.

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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. DO NOT use foliage for livestock feed or forage. Observe all precautions and limitations on Amiben, Sencor and Lexone labels.

**PROWL DG PLUS LOROX PREEMERGENCE TANK MIXTURES OR PROWL DG
PREPLANT INCORPORATED PLUS LOROX PREEMERGENCE**

The following PROWL DG plus Lorox treatments may be used in soybeans in all states except California. Uniformly apply PROWL DG or PROWL DG plus Lorox tank mixtures in 10 or more gallons of water per acre with ground equipment or in 5 or more gallons of water per acre by aircraft. See page 12 for spraying instructions. See page 40 for incorporation instructions. Use PROWL DG and Lorox rates listed in table on page 55.

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.

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2 Preemergence Tank Mixture of PROWL DG plus Lorox

Apply PROWL DG plus Lorox at planting or up to 2 days after planting. Apply to a seedbed which is firm and free of clods and trash. DO NOT APPLY POSTEMERGENCE. These 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 small enough to be controlled by mechanical cultivation.

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.

WEED SPECIES CONTROLLED

When applied as directed, tank mixtures of PROWL DG plus Lorox or PROWL DG preplant incorporated plus Lorox preemergence will control the following weed species in addition to those controlled by PROWL DG alone:

Mustard (*Brassica* spp.)
Smartweed (*Polygonum pensylvanicum*)
Velvetleaf (Buttonweed) (*Abutilon theophrasti*)

Recommended tank mixes of PROWL DG plus Lorox, or PROWL DG preplant incorporated plus Lorox preemergence, will aid in the control of and reduce competition from

Common ragweed (*Ambrosia artemisiifolia*)

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BROADCAST RATE PER ACRE IN SOYBEANS FOR PROWL DG PLUS LOROX PREEMERGENCE TANK MIXTURES OR PROWL DG PREPLANT INCORPORATED PLUS LOROX PREEMERGENCE

Soil Texture	PROWL DG + Lorox L*	PROWL DG + Lorox L*
	1/2 to 3% Organic Matter	More than 3% Organic Matter
COARSE sandy loams	0.85 to 1.25 lbs + 1.0 pt	1.25 lbs + 1.0 to 1.5 pts
MEDIUM sandy clay loams**, sandy clays loams, silts, silt loams	1.25 to 1.65 lbs + 1.0 to 1.5 pts	1.25 to 1.65 lbs + 1.5 to 2.0 pts
FINE silty clay loams**, clay loams silty clays, clays	1.25 to 1.65 lbs + 1.5 to 2.0 pts	1.65 to 2.1 lbs + 2.0 to 2.5 pts

*When using Lorox 50W use equivalent rates. One pint of the flowable formulation equals 1 lb. of the wettable powder formulation. See conversion chart on page 10.

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

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

DO NOT USE on peat or muck soils. 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 PROWL DG plus Lorox 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 the Lorox label.

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1 Shattercane

SPECIAL WEEDS

Preplant incorporated treatments of PROWL DG alone, preplant incorporated PROWL DG tank-mix combinations with Sencor Lexone, or preplant incorporated PROWL DG applications followed by registered sequential preemergence herbicides will control shattercane (wild cane) (*Sorghum bicolor*).

Shattercane is difficult to control in many soybean growing areas because of its ability to germinate from a greater depth in the soil than most other weeds. Shattercane 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 rate listed in the chart below. See page 40 for incorporation instructions. Thoroughly and uniformly mechanically incorporate PROWL DG in the 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 during the crop season.

PREPLANT INCORPORATED BROADCAST RATE PER ACRE OF PROWL DG FOR CONTROL OF SHATTERCANE IN SOYBEANS

Soil Texture	PROWL DG alone or PROWL DG Sequential Treatments	
	Up to 3% Organic Matter	More than 3% Organic Matter
COARSE sands, loamy sands sandy loams	1.65 lbs	1.65 lbs
MEDIUM sandy clay loams, sandy clays loams, silts, silt loams	2.1 lbs	2.5 lbs
FINE silty clay loams, clay loams clays, silts	2.5 lbs	2.5 lbs

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PREPLANT INCORPORATED BROADCAST RATE PER ACRE OF PROWL DG PLUS SENCOR LEXONE TANK-MIX FOR CONTROL OF SHATTERCANE IN SOYBEANS¹

Soil Texture	PROWL DG + Sencor Lexone DF ²	PROWL DG + Sencor Lexone DF ²
	Up to 3% Organic Matter	More than 3% Organic Matter
COARSE ² loamy sands, sandy loams	1.25 lbs + 0.5 lb	1.25 lbs + 0.5 lb
MEDIUM sandy clay loams ³ , sandy clays, loams, silts, silt loams	1.65 lbs + 0.5 lb	1.65 lbs + 0.5 to 0.67 lb
FINE silty clay loams ³ , clay loams, silty clays, clays	1.65 lbs + 0.5 to 0.67 lb	2.1 lbs + 0.67 lb

¹Refer to p. 45 for special precautions for PROWL DG plus Sencor Lexone combinations.

²When 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 on page 10.

³DO NOT USE on sands. DO NOT USE on loamy sands, or on sandy loams that contain less than 2% organic matter. DO NOT USE on peat or muck soils.

⁴Sometimes considered transitional soils and may be classified as either medium or fine textured soils.

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2 Red Rice, Itchgrass

PROWL DG applied preplant incorporated will provide control of red rice (*Oryza sativa*) and suppression of itchgrass (*Rottboellia exaltata*) at the rates recommended for soil textures below

PREPLANT INCORPORATED BROADCAST RATE PER ACRE OF PROWL DG IN SOYBEANS FOR CONTROL OF RED RICE AND SUPPRESSION OF ITCHGRASS

Soil Texture—Up to 3% Organic Matter¹

COARSE sands loamy sands sandy loams	1.65 to 2.5 lbs*
MEDIUM sandy clay loams**, sandy clays loams silt loams	2.5 lbs
FINE silty clay loams**, clay loams silty clays clays	3.35 lbs

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

*The higher rate should be used if heavy red rice or itchgrass populations are anticipated.

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

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

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3 Rhizome Johnsongrass

PROWL DG applied preplant incorporated will provide suppression of rhizome johnsongrass (*Sorghum halepense*) in soybeans at the rates recommended for soil textures below. This use is not recommended for Arizona, New Mexico and California.

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.

Uniformly apply PROWL DG in 10 or more gallons of water per acre by ground equipment. Apply in 5 or more gallons of water per acre by aircraft. PROWL DG may be applied immediately before planting or up to 60 days prior to planting soybeans. Refer to page 12 for specific instructions for use with ground and aerial equipment.

PROWL DG is to be incorporated into the soil within 7 days after application prior to planting. (For maximum suppression of rhizome johnsongrass, incorporate PROWL DG as soon as possible after application.) Deep and thorough incorporation of PROWL DG is necessary for suppression 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 post-emergence herbicides are recommended. Follow the directions for use on the labels of the respective herbicides.

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PREPLANT INCORPORATED BROADCAST RATE PER ACRE OF PROWL DG IN SOYBEANS FOR SUPPRESSION OF RHIZOME JOHNSONGRASS

Soil Texture—Up to 3% Organic Matter ¹	
COARSE sands, loamy sands, sandy loams	1.65 lbs
MEDIUM sandy clay loams*, sandy clays, loams, silt loams, silts	2.5 lbs
FINE silty clay loams*, clays, silty clays, clay loams	3.35 lbs

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

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

NOTE: Livestock can graze or be fed from PROWL DG-treated soybean fields

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

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PROWL DG TANK MIXTURES IN MINIMUM AND NO-TILL SOYBEANS

PROWL DG may be applied as a preemergence tank mixture treatment in minimum or no-till soybeans as follows:

PROWL DG + Sencor/Lexone + Paraquat CL
PROWL DG + Lorox + Paraquat CL

Paraquat CL is used to kill existing vegetative growth. Paraquat CL should be deleted from the tank mixture if vegetation is absent at time of application.

APPLICATION INSTRUCTIONS

Uniformly apply the recommended PROWL DG tank mix combination treatment in 20 to 60 gallons per acre of water with ground equipment. Use the higher gallonage for fields with heavy weed infestations or excessive crop residues. See page 12 for spraying instructions.

Apply the PROWL DG plus Sencor/Lexone plus Paraquat CL or PROWL DG plus Lorox plus Paraquat CL tank-mixture combination at planting or up to 2 days after planting. DO NOT APPLY POSTEMERGENCE to soybeans since soybeans exposed at 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. See special precautions on page 45 for PROWL DG plus Sencor/Lexone combinations.

If vegetation is absent at time of application, delete Paraquat CL from the tank mixture as it controls only emerged vegetation.

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MIXING INSTRUCTIONS

Fill tank one-half to three-quarter full with clean water. MAINTAIN CONTINUOUS AGITATION WHILE ADDING HERBICIDES. Add PROWL DG to tank while agitating.

After PROWL DG has been added to the tank and mixing is complete, add Sencor, Lexone or Lorox formulation as follows:

When using Sencor, Lexone or Lorox Flowable Formulation: Premix one part of the flowable with two parts water and add this diluted mixture slowly into the tank. Fill the remainder of the tank while agitating.

When using Sencor, Lexone Dry Flowable Formulation: Premix one part of the dry flowable with two parts water and add this diluted mixture slowly into the tank. Fill the remainder of the tank while agitating.

When using Sencor, Lexone or Lorox Wettable Powder Formulation: Add a slurry of the wettable powder in water (1 part WP + 2 parts water) slowly into the tank. Fill the remainder of the tank while agitating.

If Paraquat CL is included in the tank mix treatment, add to tank after complete mixing of other herbicides. As a last ingredient, add 8 oz of Ortho® X-77 spreader/sticker to tank for every 100 gal. of total spray mixture.

Fill the remainder of the tank with water.

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PROWL DG PLUS SENCOR LEXONE PLUS PARAQUAT CL WEED SPECIES CONTROLLED

Controlled by Paraquat CL

Paraquat CL will control most annual emerged weeds and suppress many emerged perennials. Refer to the Paraquat CL label for specific use recommendations.

PROWL DG plus Sencor, Lexone preemergence will control the following weed species in addition to those controlled by PROWL alone:

Common Ragweed (*Ambrosia artemisiifolia*)
Jimsonweed (*Datura stramonium*)
Prickly sida (*Sida spinosa*)
Smartweed (*Polygonum pensylvanicum*)
Velvetleaf (*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 pensylvanicum*).

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**BROADCAST RATES PER ACRE OF PROWL DG
PLUS SENCOR/LEXONE PLUS PARAQUAT CL TANK MIXTURE¹**

	Southern States (including Eastern Coastal Plains)²		Northern States²	
	PROWL DG + Sencor/Lexone DF³ + + Paraquat CL⁴		PROWL DG + Sencor/Lexone DF³ + + Paraquat CL⁴	
Soil Texture			Up to 3% Organic Matter	More than 3% Organic Matter
COARSE* loamy sands, sandy loams	0.85 to 1.25 lbs + 0.33 lb + 1 to 2 pts		0.85 to 1.25 lbs + 0.5 lb + 1 to 2 pts	1.25 lbs + 0.5 lb + 1 to 2 pts
MEDIUM sandy clay loams**, sandy clays, loams, silt, silt loams	1.25 to 1.65 lbs + 0.5 lb + 1 to 2 pts		1.25 to 1.65 lbs + 0.5 lb + 1 to 2 pts	1.25 to 1.65 lbs + 0.5 to 0.67 lbs + 1 to 2 pts
FINE silty clay loams**, clay loams, silty clays, clays	1.25 to 1.65 lbs + 0.67 lb + 1 to 2 pts		1.25 to 1.65 lbs + 0.5 to 0.67 lb + 1 to 2 pts	1.65 to 2.1 lbs + 0.67 lb + 1 to 2 pts

¹Paraquat CL should be deleted from the tank mixture if vegetation is absent at time of application.

²See map on page 72 for specific states. DO NOT USE IN CALIFORNIA.

³When 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 on page 10.

⁴When Paraquat CL is included in the tank mixture add 8 oz. of Ortho X-77 spreader or similar non-ionic surfactant per 100 gal. of spray mixture. See mixing instructions on page 62.

*DO NOT USE on sands. DO NOT USE on loamy sands or on sandy loams that contain less than 2% organic matter. DO NOT USE on peat or muck soils.

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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. The high rate of Paraquat CL should be used if weeds are 4 to 6 inches tall. Weeds over 6 inches tall will not be controlled with this treatment.

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

PROWL DG PLUS LOROX PLUS PARAQUAT CL

PROWL DG plus Lorox plus Paraquat CL treatment may be used in minimum and no-till soybeans in all states except California.

WEED SPECIES CONTROLLED

Controlled by Paraquat CL

Paraquat CL will control most annual emerged weeds and suppress many emerged perennials. Refer to the Paraquat CL label for specific use recommendations.

PROWL DG plus Lorox preemergence will control the following weed species in addition to those controlled by PROWL DG alone:

Mustards (*Brassica* spp.)
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 RATES PER ACRE OF PROWL DG
PLUS LOROX PLUS PARAQUAT CL TANK MIXTURE¹**

Soil Texture	PROWL DG + Lorox L ¹ + Paraquat CL ²	PROWL DG + Lorox L ¹ + Paraquat CL ²
	¹ / ₂ to 3% Organic Matter	More Than 3% Organic Matter
COARSE loamy sands sandy loams	0.85 to 1.25 lbs - 1.0 pt - 1 to 2 pts	1.25 lbs - 1.0 to 1.5 pts - 1 to 2 pts
MEDIUM sandy clay lo. sandy clays, loams, silts, silt loams	1.25 to 1.65 lbs - 1.0 to 1.5 pts - 1 to 2 pts	1.25 to 1.65 lbs - 1.5 to 2.0 pts - 1 to 2 pts
FINE silty clay loams ³ clay loams, silty clays, clays	1.25 to 1.65 lbs - 1.5 to 2.0 pts - 1 to 2 pts	1.65 to 2.1 lbs 2.0 to 2.5 pts - 1 to 2 pts

¹Paraquat CL should be deleted from the tank mixture if vegetation is absent at time of application.

²When using Lorox 50W use equivalent rates. One pint of the flowable formulation equals 1.5 lb of the wettable powder formulation. See conversion chart on page 10.

³When Paraquat CL is included in the tank mixture add 8 oz. of Ortho X-77 spreader or similar non-ionic surfactant per 100 gal. of spray mixture. See mixing instructions on page 62.

⁴Sometimes considered transitional soils and may be classified as either medium or fine textured soils.

The high rates of PROWL DG and Lorox for each soil texture, as stated above, should be used if heavy weed populations are anticipated or if field is particularly trashy or cloddy. The high rate of Paraquat CL should be used if weeds are 4 to 6 inches tall. Weeds over 6 inches tall will not be controlled with this treatment.

DO NOT USE on peat or muck soils. DO NOT USE on sands, loamy sands or gravelly soils, or on soils containing less than 1% organic matter.

NOTE: Livestock may graze or be fed forage from PROWL DG plus atrazine treated lands. Observe a preharvest interval of 30 days before harvesting for feed.

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**CULTI-SPRAY™
(POSTEMERGENCE INCORPORATED)**

FIELD CORN

PROWL DG CULTI-SPRAY (Postemergence incorporated) can be applied in field corn in all states except California as follows:

PROWL DG alone p. 69

PROWL DG + atrazine p. 70

Winter wheat and winter barley may be planted in the fall 90 days after a PROWL DG CULTI-SPRAY application in irrigated field corn or 120 days after a PROWL DG CULTI-SPRAY application in dry land field corn. The PROWL DG-treated crop must be grown to maturity and harvested before planting wheat or barley. See page 13 for complete follow crop instructions.

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. PROWL DG treatments can be applied from the 4 inch growth stage to as late as the last cultivation (layby) of field corn. PROWL DG treatments will not control established weeds. EMERGED WEEDS MUST BE DESTROYED BY CULTIVATION PRIOR TO PROWL DG APPLICATION.

Additional Herbicide Applications

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

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CULTI-SPRAY (Postemergence Incorporated) APPLICATIONS

The field must be cultivated and all emerged weeds must be destroyed prior to application. Cultivation should be accomplished 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 plants. This will kill small weed seedlings growing in the field corn row and will prevent direct contact of the zone of brace root formation by PROWL DG during application.

Uniformly apply the recommended PROWL DG or PROWL DG plus atrazine tank-mix treatment in 10 or more gallons of water by ground equipment. Refer to page 12 for spraying instructions.

Uniform soil coverage must be obtained. Drop nozzles should be used if field corn forage 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.

PROWL DG treatments must be thoroughly and uniformly incorporated 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, PROWL DG treatments should be incorporated as soon as possible after application but incorporation must be completed within 7 days after application. If adequate moisture is not received within 7 days after application, PROWL DG must be incorporated 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 more than once per crop season.

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

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Applications of PROWL DG Alone

The following grass and broadleaf weed species are controlled by CULTI-SPRAY (postemergence incorporated) treatments of PROWL DG in field corn at the rates recommended for each soil texture listed below.

GRASSES CONTROLLED:

Barnyardgrass (*Echinochloa crus-galli*)
Crabgrass (*Digitaria* spp.)
Fall panicum (*Panicum dichotomiflorum*)
Field sandbur (*Cenchrus incertus*)
Foxtail (giant) (*Setaria faberii*)
Foxtail (green) (*Setaria viridis*)
Foxtail (yellow) (*Setaria lutescens*)
Goosegrass (*Elyusine indica*)
Johnsongrass (from seed) (*Sorghum halepense*)
Signalgrass (*Brachiaria platyphylla*)
Shattercane (*Sorghum bicolor*)
Texas panicum (*Panicum texanum*)
Witchgrass (*Panicum capillare*)
Wild proso millet (*Panicum miliaceum*)

BROADLEAF WEEDS CONTROLLED:

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

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

Smartweed (*Polygonum pennsylvanicum*)
Velvetleaf (Buttonweed) (*Abutilon theophrasti*)

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

Soil Texture	Southern States ¹	Northern States ¹
COARSE sands, loamy sands, sandy loams	0.85 to 1.25 lbs	1.25 to 1.65 lbs
MEDIUM sandy clay loams ^{**} , sandy clays loams, silts, silt loams	1.25 to 1.65 lbs	1.65 to 2.5 lbs
FINE silty clay loams ^{**} , clay loams silty clays, clays	1.25 to 2.5 lbs *	1.65 to 2.5 lbs

¹ See map on page 72 for specific states

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

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

DO NOT use on peat or muck soils

NOTE: Livestock can graze or be fed forage from PROWL DG treated field corn after 21 days following applications

Applications of PROWL DG Plus Atrazine Mixtures

In addition to weed species controlled by PROWL DG alone, the following weed species are controlled by CULTI-SPRAY (postemergence incorporated) treatments of PROWL DG plus atrazine in field corn at the rates recommended for each soil texture listed below:

Velvetleaf (Buttonweed) (*Abutilon theophrasti*)
Venice mallow (*Hibiscus trionum*)
Smartweed (*Polygonum pennsylvanicum*)

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**Broadcast Rate Per Acre for CULTI-SPRAY
(Postemergence Incorporated)
Application of PROWL DG Plus Atrazine in Field Corn**

Soil Texture	PROWL DG + Atrazine 80W [*]	
	Southern States ¹	Northern States ¹
COARSE sands, loamy sands sandy loams	0.85 to 1.25 lbs + 1.25 lbs	1.25 to 1.65 lbs + 1.25 lbs
MEDIUM sandy clay loams ^{**} , sandy clays loams, silts, silt loams	1.25 to 1.65 lbs + 1.25 to 1.5 lbs	1.65 to 2.5 lbs + 1.25 to 1.5 lbs
FINE silty clay loams ^{**} , clay loams silty clays, clays	1.25 to 2.5 lbs + 1.25 to 1.5 lbs	1.65 to 2.5 lbs + 1.25 to 1.5 lbs

¹ See map on page 72 for specific states

* When using atrazine 4L or AAtrex Nine-O use equivalent rates. One quart of atrazine 4L equals 1.25 lbs. of atrazine 80W. One pound of AAtrex Nine-O equals 1.12 lbs. of atrazine 80W. See conversion chart on page 10.

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

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

DO NOT use on peat or muck soils

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

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REGIONAL MAP FOR RATE DETERMINATION

