DIURON 80 WDG
WEED KILLER

WATER DISPERSIBLE GRANULE
ACTIVE INGREDIENT: Diuron [3-(3,4-dichlorophenyl)-1,1-dimethyleurea] 80%
INERT INGREDIENTS: 20%
TOTAL 100%

KEEP OUT OF REACH OF CHILDREN
CAUTION
See Below For Additional Precautionary Statements.

EPA REG. NO. 34704-648
EPA EST. NO. 34704-MS-001
NET WEIGHT 4 POUNDS (1.81 KG)

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION
Harmful if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing.

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

All pilots, flaggers and groundboom applicators must wear: long-sleeved shirt and long pants, shoes plus socks.

All mixers, loaders, other applicators, and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks, chemical resistant gloves such as polyethylene or polyvinylchloride and a NIOSH-approved dust/mist filtering respirator with approval number prefix TC-21C, chemical-resistant apron with mixing, loading, or cleaning equipment or spills.

See Engineering controls for additional requirements.

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

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

Flaggers supporting aerial applications must use an enclosed cab that meets the definition in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)] for dermal protection. In addition, flaggers must wear long-sleeved shirt, long pants, shoes and socks.

SECONDARY PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS

CAUTION
Harmful if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing.

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

All pilots, flaggers and groundboom applicators must wear: long-sleeved shirt and long pants, shoes plus socks, chemical resistant gloves such as polyethylene or polyvinylchloride and a NIOSH-approved dust/mist filtering respirator with approval number prefix TC-21C, chemical-resistant apron with mixing, loading, or cleaning equipment or spills.

See Engineering controls for additional requirements.

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

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

Flaggers supporting aerial applications must use an enclosed cab that meets the definition in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)] for dermal protection. In addition, flaggers must wear long-sleeved shirt, long pants, shoes and socks.

ENGINEERING CONTROLS STATEMENTS
HAZARDS TO DOMESTIC ANIMALS

CAUTION
Harmful if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing.

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

All pilots, flaggers and groundboom applicators must wear: long-sleeved shirt and long pants, shoes plus socks, chemical resistant gloves such as polyethylene or polyvinylchloride and a NIOSH-approved dust/mist filtering respirator with approval number prefix TC-21C, chemical-resistant apron with mixing, loading, or cleaning equipment or spills.

See Engineering controls for additional requirements.

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

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

Flaggers supporting aerial applications must use an enclosed cab that meets the definition in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)] for dermal protection. In addition, flaggers must wear long-sleeved shirt, long pants, shoes and socks.

USDA SAFETY RECOMMENDATIONS

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

All pilots, flaggers and groundboom applicators must wear: long-sleeved shirt and long pants, shoes plus socks, chemical resistant gloves such as polyethylene or polyvinylchloride and a NIOSH-approved dust/mist filtering respirator with approval number prefix TC-21C, chemical-resistant apron with mixing, loading, or cleaning equipment or spills.

See Engineering controls for additional requirements.

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

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

Flaggers supporting aerial applications must use an enclosed cab that meets the definition in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)] for dermal protection. In addition, flaggers must wear long-sleeved shirt, long pants, shoes and socks.

USER SAFETY RECOMMENDATIONS

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

FIRST AID

If swallowed:
• Call a poison control center or doctor immediately for treatment advice.
• Have a person sip a glass of water if able to swallow.
• Do not induce vomiting unless told to do so by the poison control center or doctor.
• Do not give anything by mouth to an unconscious person.

If in eyes:
• Hold eye open and rinse slowly and gently with water for 15-20 minutes.
• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
• Call a poison control center or doctor for treatment advice.

If on skin or clothing:
• Take off contaminated clothing.
• Rinse skin immediately with plenty of water for 15-20 minutes.
• Call a poison control center or doctor for treatment advice.

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

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

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-7976.

ENVIRONMENTAL HAZARDS
Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. Apply this product only as specified on this label.

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

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

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

Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 order for injunctive relief in Washington Toxics Coalition, et. Al, v. EPA C01-0143C(W.D. WA). For more information, please refer to www.epa.gov/espp.

AGRICULTURAL USE REQUIREMENTS
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coversalls, chemical-resistant gloves made of any waterproof material, and shoes plus socks.

This herbicide should be used only in accordance with directions on this label, or in separate published Loveland Products, Inc. directions available through local dealers.

Loveland Products, Inc. will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by Loveland Products, Inc. User assumes all risk associated with such non recommended use.

Do not apply this product through any type of irrigation system.

This product is a water-dispersible granule in a bagged form.
Requirements for reducing spray drift for Diuron ground and aerial applications.
Use best practices to avoid drift to all other crops and non-target areas. Do not apply when conditions favor drift from target areas. The interaction of many equipment-and weather-related factors determine the potential for spray drift. Avoiding spray drift at the application site is the responsibility of the applicator. The applicator must follow the most restrictive precautions to avoid drift, including those found in this labeling as well as applicable state and local regulations and ordinances. A drift control agent may reduce drift, however, it may also decrease weed control.

Make aerial or ground applications only when the wind speed is less than or equal to 10 miles per hour. Do not make aerial or ground applications into temperature inversions.

Apply with medium or coarser spray (according to ASAE standard 572) for standard nozzles.
Additional Requirements for ground applications:
When applying to crops, apply with nozzle height no more than 2 feet above the ground or crop canopy. When applying to non-crop areas, use lowest nozzle height consistent with safety and efficacy. Direct spray into target vegetation.

Additional requirements for aerial applications:
The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The boom length must not exceed 75% of the wingspan or 90% of rotor blade diameter.
Use upwind swath displacement.
When applying to crops, do not release spray at a height greater than 6 to 10 feet above the ground or crop canopy. When applying to non-crop areas, apply at a minimum safe altitude above the area being treated.
Do not apply by air if sensitive non-target crops are within 100 feet of the application site.

GENERAL INFORMATION
This product is a dispersible granule to be mixed in water and applied as a spray for selective control of weeds in certain crops and for nonselective weed control on non-cropland areas. It is noncorrosive to equipment, nonflammable and non-volatile.

This product may be applied to soil prior to emergence of weeds to control susceptible weed seedlings for an extended period of time; the degree of control and duration of effect will vary with the amount of chemical applied, soil texture, rainfall and other conditions. Soils high in clay or organic matter require higher dosages than soil low in clay or organic matter to obtain equivalent herbicide performance. Moisture is required to activate the chemical; best results occur if rainfall (or sprinkler irrigation) occurs within 2 weeks of application.

This herbicide applied preemergence, before emergence of crop and weeds, is an effective procedure because susceptible weeds are controlled in an early, vulnerable seedling state before they compete with the crop. With favorable moisture conditions, this herbicide continues to control weeds for some time as the crop becomes better able to compete. Should weed seedlings begin to break through the preemergence treatment in significant numbers, secondary weed control procedures should be implemented; these include cultivation and postemergence herbicide application.

This product may also be used to control emerged weeds. Results vary with rate applied, soil and environmental conditions; best results are obtained on succulent weeds growing under conditions of high humidity and temperatures of 70° F or higher. Addition of a surfactant, such as DuPont Surfactant WK or other similar herbicide surfactant approved for use on crops, to the spray (where recommended) increases contact effects of this product. This herbicide may be used as a directed postemergence application, where spray nozzles are adjusted so the weeds are sprayed but the crop is not, on the following crops: artichoke, corn (field), cotton, sorghum (grain), sugarcane, and established plantings of apples, bananas, plantains, blueberries, caneberrries, gooseberries, citrus, grapes, macadamia nuts, olives, papayas, peaches, pears, pecans, walnuts and certain tree plantings.

Under specified conditions (see Directions for Use), this herbicide without surfactant may be applied over the top of alfalfa (established, dormant or semidormant), asparagus (established), birdsfoot trefoil (established, dormant), grass seed crops (established), oats, red clover (established, dormant), sugarcane, wheat, pineapple and plumosus fern (established, mowed).

Weed species vary in susceptibility to this product and they may be more difficult to control when under stress. Combinations of this product with other herbicides (as registered) increase the number of weed species controlled; consult labels of the companion product for this and other information.
Since the effect of this herbicide varies with soils, uniformity of application, and environmental conditions, it is suggested that growers limit their first use to small areas. Observe all cautions and limitations on labeling of all products used in mixtures.

IMPORTANT—Injury to or loss of desirable trees or other plants may result from failure to observe the following: do not apply (except as directed for crop use), or drain or flush equipment on or near desirable trees or other plants; or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on home plantings of trees, shrubs or herbaceous plants, nor on lawns, walks, driveways, tennis courts, or similar areas. Avoid drift of granules or spray to desirable plants. Do not contaminate any body of water. Keep from contact with fertilizers, insecticides, fungicides and seeds.

Thoroughly clean all traces of this herbicide from equipment application immediately after use. Flush tank, pump, hoses and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

SELECTIVE USE IN CROPS
PREEMERGENCE USE (Germinating Weeds): DO NOT EXCEED THE APPLICATION RATES SPECIFIED IN THE "FIELD CROP" SECTION. This herbicide, at specified rates, controls annual weeds such as:

**Broadleaves**

<table>
<thead>
<tr>
<th>% to 1 Lb./Acre</th>
<th>1½ to 2 Lbs./Acre</th>
<th>2 to 6 Lbs./Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lambquarters</td>
<td>Annual groundcherry</td>
<td>Ageratum</td>
</tr>
<tr>
<td>Pigweed</td>
<td>Annual morninggloary</td>
<td>Annual smartweed</td>
</tr>
<tr>
<td>Purslane</td>
<td>Annual chickweed</td>
<td>Annual sowthistle</td>
</tr>
<tr>
<td>Ragweed</td>
<td>Corn spurry</td>
<td>Corn speedwell</td>
</tr>
<tr>
<td>Dogfennel</td>
<td>Dillitec (aminsickia)</td>
<td>Dayflower</td>
</tr>
<tr>
<td>Groenwell</td>
<td>Flora's paintbrush</td>
<td>Hawskbeard</td>
</tr>
<tr>
<td>Nkwei</td>
<td>Kochia</td>
<td></td>
</tr>
<tr>
<td>Pennycress</td>
<td>Marigold</td>
<td></td>
</tr>
<tr>
<td>Shepherdspurse</td>
<td>Mexican clover</td>
<td></td>
</tr>
<tr>
<td>Tansy-mustard</td>
<td>Pineappleweed</td>
<td></td>
</tr>
<tr>
<td>Wild buckwheat</td>
<td>Pockeweed</td>
<td></td>
</tr>
<tr>
<td>Wild lettuce</td>
<td>Rabbit tobacco</td>
<td></td>
</tr>
<tr>
<td>Wild mustard</td>
<td>Spanishneedles</td>
<td></td>
</tr>
<tr>
<td>Wild radish</td>
<td>Velvetleaf (buttonweed)</td>
<td></td>
</tr>
</tbody>
</table>

**Grasses**

<table>
<thead>
<tr>
<th>% to 1 Lb./Acre</th>
<th>1½ to 2 Lbs./Acre</th>
<th>2 to 6 Lbs./Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barnyardgrass (watergrass)</td>
<td>Annual bluegrass</td>
<td>Annual lovegrass</td>
</tr>
<tr>
<td>Crabgrass</td>
<td>Annual sweet vernalgrass</td>
<td>Annual ryegrass</td>
</tr>
<tr>
<td>Foxtail</td>
<td>Annual sweet vernalgrass</td>
<td>Kylina</td>
</tr>
<tr>
<td>Rattlesnake</td>
<td>Red spangletop</td>
<td>Orchardgrass</td>
</tr>
<tr>
<td>Velvgrass</td>
<td>Red spangletop</td>
<td>Peppergrass</td>
</tr>
<tr>
<td>Seedling johnsongrass</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Partial control of the following weeds usually occurs at rates stated:

**Broadleaves**

<table>
<thead>
<tr>
<th>1 Lb./Acre</th>
<th>4 Lbs./Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual morninggloary</td>
<td>Horsenettle</td>
</tr>
<tr>
<td>Cocklebur</td>
<td></td>
</tr>
<tr>
<td>Prickly sida</td>
<td></td>
</tr>
<tr>
<td>(teaweed)</td>
<td></td>
</tr>
<tr>
<td>Sesbania</td>
<td></td>
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<tr>
<td>Sicklepod</td>
<td></td>
</tr>
</tbody>
</table>

**Grasses**

<table>
<thead>
<tr>
<th>4 Lbs./Acre</th>
<th>8 to 10 Lbs./Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quackgrass</td>
<td>Guineagrass</td>
</tr>
<tr>
<td>Maidencane</td>
<td>Pangolagrass</td>
</tr>
</tbody>
</table>

POSTEMERGENCE USE (Emerged Seedlings)
This product at listed rates, controls annual weeds such as annual morninggloary, barnyardgrass (watergrass), crabgrass, crowfoot, goosegrass, pigweed and purslane. Addition of surfactant to the spray (where specified) increases contact effects of this product. Best results are obtained on succulent weeds growing under conditions of high humidity and temperatures of 70° F or higher.

EQUIPMENT-SPRAY VOLUMES AND PRESSURES
Use a boom power sprayer properly calibrated to a constant speed and rate of
delivery. Openings in screens should be equal to or larger than 50 mesh. Continuous agitation in the spray tank is required to keep the material in suspension. Agitate by mechanical or hydraulic means; if by-pass or return line is used, it should terminate at bottom of tank to minimize foaming. Avoid overlapping, and shut off spray booms while starting, turning, slowing or stopping, or injury to the crop may result.

For preemergence application, use 25 to 40 gals. per acre and spray pressure of 30 to 40 psi. For postemergence application, use sufficient volume (min. 25 gals. per acre) for thorough coverage of weed foliage; use spray pressure of 20 to 25 psi to keep spray drift to a minimum.

**Aerial:** For alfalfa, barley (winter), cotton (preplant or preemergence only), grass seed crops in the Pacific Northwest, sugarcane and wheat (winter), application may be made by aircraft (5 to 10 gals. per acre); avoid overlapping of spray swath and avoid application under conditions where excessive drift may occur. Where land is bedded, make passes parallel to rows. **NOTE:** With fixed-wing aircraft or helicopter application, an exactly even swath deposition cannot be achieved, and consequently crop injury or herbicide nonperformance may result wholly or in part. Do not apply by air during periods of thermal inversion.

**SPRAY PREPARATION**

Mix proper amount of this product into necessary volume of water; where use of surfactant is recommended, dilute with 10 parts of water and add as last ingredient to nearly full tank.

**USE RATES**

All dosages of this herbicide are expressed as broadcast rates; for band treatment, use proportionally less. For example, use ½ of the broadcast rate when treating a 14" band where row spacing is 42". Where a range of dosage is given, use the lower rate on coarse textured soils (low in clay or organic matter) and the higher rate on the fine textured soils (high in clay or organic matter); for postemergence application, use the lower rate on smaller weeds and the higher rate on larger weeds.

**SOIL LIMITATIONS**

Crop injury may result from failure to observe the following:

Unless otherwise directed, do not use on sand, loamy sand, gravelly soils or exposed subsoils; nor on peans where organic matter is less than 5%; nor on alfalfa, apples, artichoke, barley (winter), bermedaggrass pasture, citrus, cotton, grapes, oats, olives, papayas, peaches, pears, plumosum fern, sorghum, sugarcane, walnuts and wheat (winter) where organic matter is less than 1%; nor on blueberries, birdfoot trefoil, canabees, gooseberries, macadamia nuts and peppermint where organic matter is less than 2%. Preemergence weed control will be reduced on high organic matter soils (greater than 5%, such as peat or muck).

**REPLANTING**

Unless otherwise directed, do not replant treated areas to any crop within 2 years after last application as injury to subsequent crops may result. **FIELD CROPS (See Soil Limitations)**

A good seedbed must be prepared before preemergence use of this product as crop injury may result if application is made to ground which is cloddy or compacted resulting in improperly planted seed. Plant seed to depth specified. Unless otherwise directed, make passes parallel to rows. Associated with the use of this herbicide and before emergence of the crop as weed control may be reduced and crop injury may result. However, if moisture is insufficient to activate the herbicide, a shallow cultivation (rotary hoe preferred) should be made after emergence of crops where weeds are small enough to be controlled by mechanical means.

**ALFALFA**

Treat only stands established 1 year or more. Do not apply to seedling alfalfa nor to alfaglass mixtures; do not apply to alfalfa under stress from disease, insect damage, shallow root penetration (such as on shallow hard pans), alkali spots; nor to flooded fields as crop injury may result. Do not spray on snow-covered or frozen ground.

Maximum application rate per crop cycle: 3 pounds of product (or 2.4 pounds a.i.) per acre. Apply a maximum of one application per year.

**Idaho, Oregon, Washington:** Use 1½ to 3 lbs. per acre; for control of volunteer alfalfa, use 4 lbs. per acre. Apply in fall after alfalfa becomes dormant but no later than mid-December.

**California (Dormant and Semi-Dormant Varieties):** Use 1½ to 3 lbs. per acre; for control of volunteer alfalfa, use 4 lbs. per acre. Apply in fall after alfalfa becomes dormant or semi-dormant, but before growth begins in the spring. Crop injury may result if application is made to actively growing alfalfa. For best results, apply before weeds have emerged or become established (2" in height or diameter). Control of established weeds is improved by applying this product with a suitable contact herbicide registered for such use. Sufficient rainfall for soil activation of this product is unlikely in California after February 1. Treated areas may be replanted to any crop after one year from last application if rate does not exceed 2 lbs. per acre.

**Arizona, Nevada:** Use 1½ to 3 lbs. per acre; apply in fall after alfalfa becomes dormant but no later than January.

**Eastern Colorado, Kansas:** For control of tansy mustard, apply 1 lb. per acre shortly after emergence of mustard in fall or winter; use 2 lbs. per acre if weeds are 2" to 4" in height. Alternatively, if other annual weeds are present, apply 2 to 3 lbs. per acre in February or March.

**Other Areas Where Alfalfa Becomes Winter Dormant:** Use 1½ to 3 lbs. per acre (1½ to 2 lbs. per acre East of Appalachian Mountains). Apply in March or early April, but before spring growth begins.

**ARTICHOKE—California**

Apply 2 to 4 lbs. per acre in late fall or early winter after the last cultivation. Apply before weeds germinate or to emerging seedlings. Direct spray to cover the area between the rows and at the base of artichoke plants, keeping contact with crop plants at a minimum. Aerial application is prohibited.

**ASPARAGUS**

Apply as a band or broadcast treatment. Do not apply to young plants during the first growing season (except as noted below), nor to newly seeded asparagus, nor on plants with exposed roots as severe injury may result. Preemergence weed control will be reduced on high organic matter soils (greater than 5%). Aerial application is prohibited.

**Established Plantings:** On light sandy soils and other soils low in clay or organic matter, apply 1 to 2 lbs. per acre. On soil high in clay or organic matter, use 2 to 4 lbs. per acre. Two applications may be used; the first application should be made before weeds become established but no earlier than 4 weeks before spear emergence and no later than the early cutting period (if weeds are controlled into the cutting period by cultural practices, application may be delayed until immediately after the last cultivation); a second application may be made immediately following completion of harvest provided rainfall is expected. When two applications are used in one session, do not exceed 3 lbs. per acre per application. In Washington (irrigated crops), the highest rate of single treatment of 4 lbs. per acre. If treatment is delayed until late winter or early spring, incorporation of the chemical in the top 1" to 2" of soil may substitute for lack of rain to activate the herbicide.

**Newly Planted Crowns—California (San Joaquin Delta):** Make a single application of 2 to 4 lbs. per acre on soils high in clay or organic matter; use the lower rate on clay loams and the higher rate on peat soils. Do not use on soils containing less than 2% organic matter. Soil must not be settled by rainfall or irrigation prior to treatment. Do not treat crowns planted to a depth of less than 2".

**BARLEY, WINTER (Drill-Planted)—Western Oregon and Western Washington:** Make a single application of 1½ to 3 lbs. per acre as soon as possible after planting but before emergence of barley. Do not replant treated areas to any crop within 1 year after last application as injury to subsequent crops may result.

**BIRDSFOOT TREFOIL (Lotus)—Western Oregon**

Treat only stands established for at least 1 year; do not apply to seedling trefolius as injury may result. Make a single application of 2 lbs. per acre before trefoil is dormant (October 15 to December 15). Do not replant treated areas to any crop with in 1 year after last application as injury to subsequent crops may result. Aerial application is prohibited.

**CORN (Field)**

**Postemergence—** Make a single application of ¼ lb. per acre in combination with non pressure nitrogen solution. If nitrogen solution is not used, apply 1 lb. per acre; add surfactant per 25 gals. of spray. Apply as a directed spray when corn is at least 20" high and weeds are no taller than 3". DO NOT APPLY OVER TOP OF CORN. Do not replant to any crop within 1 year, except that cotton, corn and grain sorghum may be planted the spring following treatment.

**Preemergence—Arkansas, Louisiana, Mississippi and Tennessee:** Make a single application of ½ to 1 lb. per acre as a broadcast or band treatment after planting but before corn emerges. Plant corn at least 1½" deep. Do not treat areas of crops other than corn or cotton with in 4 months following broadcast band treatment and 6 months following broadcast treatment as crop injury may result. Aerial application is prohibited.

**COTTON**

During a single crop season, do not exceed the following amounts of this product as injury to subsequent crops may result: 1 lb. on loamy sand; 1½ lbs. on sandy loam; 2 lbs. on clay loam; 2½ lbs. on clay. Injury may occur if this herbicide is used in conjunction with soil-applied organic phosphate pesticides. Do not allow livestock to graze treated cotton.

Cotton (preplant/preemergence/postemergence)

Maximum application rate per crop cycle:
- 1 pound product (0.8 pounds a.i.) per acre in coarse soils, - 1.9 pounds product (1.5 pounds a.i.) per acre in medium soils, and - 2.75 pounds product (2.2 pounds a.i.) per acre in fine soils.

Apply a maximum of three applications per year. Minimum retreatment interval 21 days.

**Preplant—Arizona and California:** Use this product alone, or apply as a separate operation following preplant broadcast treatment with TREFLAN® or Trifluralin (incorporated according to directions on TREFLAN or Trifluran label). Apply DIURON 80 WDG WEED KILLER as a broadcast spray after beds are formed, preirrigated, and final seedbeds prepared. Prior to planting, drag-off the tops of the beds and plant in moist soil not treated with this product. Treated soil is returned to the bed after planting when irrigation furrows are reformed after cotton has emerged. If more than two furrowing-out operations are made prior to lay-by, or deep furrows are made early, weed control may be reduced in furrow bottoms. Use at the following rates:

- 1 pound product (0.8 pounds a.i.) per acre in coarse soils,
- 1.9 pounds product (1.5 pounds a.i.) per acre in medium soils, and
- 2.75 pounds product (2.2 pounds a.i.) per acre in fine soils.
above spray mixture. If DSMA is used, do not apply after first bloom.

Note: Seeding disease may weaken plants and increase the possibility of injury from the use of TREFLAN or Trifluralin followed by DIURON 80 WDG WEED KILLER. These treatments should be used only in conjunction with a standard fungicide seed treatment plus a good supplemental soil fungicide program such as Capitan-PCNB mixture.

Preemergence—U.S., except Arizona, California, and areas west of Interstate 85 or 35W in Texas and Oklahoma: Use this product alone or apply as a separate operation following preplant treatment with TREFLAN or Trifluralin. Apply DIURON 80 WDG WEED KILLER after planting but before cotton emerges. Do not treat cotton in deep furrows as crop injury may result; use only where cotton is planted on flat or raised seedbeds.

Shallow incorporation (no deeper than ¼") with a rotary hoe or similar equipment following planting usually improves results especially during dry weather. A wide press wheel should be used on the planter to provide a level seeded bed for subsequent early season postemergence treatments. If moisture is insufficient to activate this product or if soil becomes crusted before crop emerges, a shallow rotary hoeing (no deeper than ¼") should be made before weeds become established.

DIURON 80 WDG Alone: Make a single application as a broadcast or band spray, using the following broadcast rates; for band treatment, use proportionately less.

** Soil Texture**

<table>
<thead>
<tr>
<th>Lbs. DIURON 80 WDG Per Acre</th>
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<tr>
<td>Sandy loam, loam, silt loam, silt ... 1 pt. ........... 0.8 pt. .............. ½ to 1 lb.</td>
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<td>Sandy clay loam, clay loam, silty clay loam, sandy clay ......... 1½ pts. ........ 1 to 1¼ lbs.</td>
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</tr>
<tr>
<td>Silty clay, clay ............ ½ pt. to 0.4 pt.</td>
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** Do not use on soils with less than 1% organic matter as crop injury may result.

DIURON 80 WDG Following TREFLAN or Trifluralin Preplant: Apply TREFLAN or Trifluralin prior to planting as a broadcast or band treatment; incorporate according to directions on TREFLAN or Trifluran label. As a separate application, apply this product as a band treatment (14" to 20" wide) after planting but before cotton emerges. Use at the following broadcast rates; for band treatment, use proportionately less. See “Note” under Preplant above.

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** Do not use on soils with less than 1% organic matter as crop injury may result.

DIURON 80 WDG Following TREFLAN or Trifluran Preplant: Apply TREFLAN or Trifluran prior to planting as a broadcast or band treatment; incorporate according to directions on TREFLAN or Trifluran label. As a separate application, apply this product as a band treatment (14" to 20" wide) after planting but before cotton emerges. Use at the following broadcast rates; for band treatment, use proportionately less. See “Note” under Preplant above.

**Product Per Acre**

<table>
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<tr>
<th>TREFLAN or Trifluran DIURON 80 WDG</th>
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** Do not use on soils with less than 1% organic matter as crop injury may result.

Late Season (Lay-By)—Apply to 1½ lbs. per acre (1 to 2 lbs. in Arizona and California) when cotton is at least 12" tall (at least 20" tall for Pima S-2). For control of germinating weed seedlings, apply to soil beneath cotton plants and between rows immediately after last cultivation. In irrigated cotton, best weed control is obtained if the field is irrigated within 3 to 4 days after application; thoroughly wet the surface of the ground over the row to carry the herbicide into the root zone of germinating weeds. Alternatively, for control of emerged annual weeds (up to 4" in height) at lay-by time, make a simple application in combination with surfactant (1 pt. per 25 gal. sprays), or use 1 to ½ lb. DIURON 80 WDG WEED KILLER (plus surfactant) per acre and repeat later if needed.

Replanting: If initial seeding fails to produce a stand, cotton may be reseeded in soil treated preplant or preemergence with this product, alone or following TREFLAN or Trifluran. Wherever possible, avoid disturbing original bed. If necessary to rework soil before replanting, use shallow cultivation such as discing; do not reseeding nor move soil into the original drill area. Plant seed at least 1" deep. Do not retreat field with a second preplant or preemergence application during the same crop year as injury to the crop may result.

Subsequent Crops:

**DIURON 80 WDG- Type of Application**

<table>
<thead>
<tr>
<th>Crops That May Follow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated Cotton</td>
</tr>
</tbody>
</table>

**Band preemergence or postemergence** Any crop 4 months after last application

**Band preemergence plus postemergence** Cotton, soybeans, corn or grain sorghums (not sorghos nor or grass sorghums) the next spring. Do not replant treated areas to any other crop within one year after last application as injury to subsequent crops may result.

**Broadcast preemergence (and preplant)**

**DIURON 80 WDG Type of Application**

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**Broadcast postemergence (lay-by)**

For subsequent crops in fields where TREFLAN or Trifluran is used, follow instructions on the TREFLAN or Trifluran label. ® TREFLAN is a Registered T.M. of DowElanco.

GRASS SEED CROPS (Perennial): Except as noted, apply only to established plantings at least 1 yr. old.

Maximum single application rate is 2.4 lbs. a.i./acre (3 lbs. product). Maximum of one application allowed per year.

Colorado, Kansas, New Mexico, and Oklahoma: On sand bluestem, side oats grama and switchgrass, apply 2 to 3 lbs. per acre during the dormant period shortly before weed seedlings emerge. Do not apply after crop begins growth in the spring as crop injury may result. In fields where ash residues have accumulated from burning straw, use 3 lbs. per acre; spread unburned chaff or straw with a harrow or chopper before application. Aerial application is prohibited in these states.

Western Oregon: On alfalfa fescue, Astoria bentgrass, Highland bentgrass, Kentucky bluegrass (Merion bluestgrass) and orchardgrass, apply 2 to 3 lbs. per acre between October 1 and November 15. In fields where ash residues have accumulated from burning straw, use 3 lbs. per acre; spread unburned chaff or straw with a harrow or chopper before application. If perennial vetivergrass (Holcus lanatus) is a problem, use 3 lbs. per acre. For best results, apply as soon as possible after fall rains start. Established weeds (beyond 2 to 4 leaf stage) should be removed prior to treatment.

Well established vigorous stands of spring-planted alfalfa fescue, Kentucky bluegrass, and orchardgrass may be treated the following fall provided the crop is planted before April 1 and treatment is not applied before October 15; use 2 lbs. per acre.

Oregon: For use in newly planted bentgrass, Chewing fescue, Kentucky bluegrass, perennial ryegrass, orchardgrass and tall fescue. During plant operation, spray AQUA NU-CHAP 3 or GRO-SAFE 3 or other suitable brands of activated charcoal as a 1" band on soil surface at rate of 300 lbs. per acre (broadcast basis; equivalent to 15 lb., per acre of crop where row spacing is 20"). Mount nozzles to apply directly over seed rows to prevent crop injury. Follow with this herbicide as a single broadcast spray at rate of 2½ to 3 lbs. per acre; apply as soon as possible after planting but before crops or weeds emerge and before rains or sprinkler irrigation. Fall or spring plantings may be treated; best results usually occur with early fall plantings. Treatment will not control downy brome or wild oats.

Washington: For preemergence weed control in newly seeded perennial grass seed crops.

DIURON 80 WDG WEED KILLER may be used on newly planted bentgrass, perennial ryegrass, tall fescue, chewing fescue, Kentucky bluegrass, and orchardgrass fields for the selective control of weeds such as annual ryegrass, ratali fescue, annual bluegrass (Poa annua), groundsel, and mustard in western Washington. Treatment will not control wild oats or downy brome.
Before Herbicide Treatment—Prepare a smooth, firm cloed-free seed bed before planting. During the planting operation, spray AQUA NU CHAR or GRO-SAFE (acti-
vated charcoal) as a 1" band on soil surface at rate of 300 lbs. per acre (broadcast basis; equivalent to 15 lbs. per acre). Use the lower rate on lighter soils. Apply as soon as possible after planting but before crops or weeds emerge, and before rains or sprinkler irrigation. Use a fixed-boom power sprayer properly calibrated to a constant speed and rate of delivery. Avoid overlapping of spray swath, and shut off boom while starting, stopping, or stopping or injury to the crop may result. Continuous agitation is required to keep the material in suspension. Treatment may be applied to fall or spring plantings of grass seed crops; best results usually occur with early fall plantings. At least 1" of overhead moisture (rainfall or sprinkler agitation) is necessary within 2 weeks after treatment to activate the herbicide.

Herbicide Treatment—Make a single application of this herbicide as a broadcast spray at the rate of 2½ to 3 lbs. per acre; use the lower rate on lighter soils. Apply as soon as possible after planting but before crops or weeds emerge, and before rains or sprinkler irrigation. Use a fixed-boom power sprayer properly calibrated to a constant speed and rate of delivery. Avoid overlapping of spray swath, and shut off boom while starting, stopping, or stopping or injury to the crop may result. Continuous agitation is required to keep the material in suspension. Treatment may be applied to fall or spring plantings of grass seed crops; best results usually occur with early fall plantings. At least 1" of overhead moisture (rainfall or sprinkler agitation) is necessary within 2 weeks after treatment to activate the herbicide.

Notes: Do not replant treated areas to any crop within 2 years after last application as injury to subsequent crops may result. Aerial application is prohibited.

OATs—Drill-Planted
Do not replant treated areas to any crop within one year after last application as injury to subsequent crops may result. Aerial application is prohibited.

Spring Oats—Idaho, Eastern Oregon, Eastern Washington: Use in areas where winter annuals exceed 1". Make a single application of 1 to 1½ lbs. per acre after planting, either before or after oats emerge but within 6 weeks of plant-
ing. Best results are usually obtained when application is made 3 to 4 weeks after planting. Apply before weeds are 3" to 4" tall.

Winter Oats and Mixtures with Peas or Vetch—Western Oregon and Western Washington: Make a single application of 1½ to 2 lbs. per acre as soon as possible after planting but before emergence of the crop.

AUSTRIAN FIELD PEAS—WESTERN OREGON
For selective control of certain weeds in Austrian field peas in Western Oregon. Apply 1½ to 2 lbs. per acre as broadcast spray with air on ground equipment as soon as possible after planting but before crop emerges for control of weeds such as chickweed, shepherdspurse, wild mustard, fiddleneck, lambsquarters, pigweed and annual bluegrass. Use the lower rate on coarse-textured soils and the higher rate on fine-textured soils.

Notes: Do not use this herbicide on sand, sandy loam, gravelly soils or exposed subsoils or on soils having less than 1½% organic matter as crop injury may result. Do not replant treated area to another crop within one year of application. Crop injury may result if severe winter stress, disease or insect damage to the crop fol-
loows application. Aerial application is prohibited.

PEPPERMINT—Pacific Northwest
Apply 3 lbs. per acre just after the last cultivation in the spring prior to emergence of peppermint. Do not apply to newly planted (less than 1 year) nor to emerged pep-
permint as injury may result. Aerial application is prohibited.

RED CLOVER—Western Oregon
Make a single application of two pounds per acre on established red clover stands (at least 9 months old). Apply this product when red clover is dormant (October 15 to December 15). Do not apply to seeding red clover, and do not replant treated area to any crop within one year after last application.

Treatment will control annual weeds such as bluegrass, chickweed, hawkweed, rattail fescue, ryegrass, and velvetgrass. Aerial application is prohibited.

SORGHUM (GRAIN)—Southwestern States
Apply 1½ to 2½ lbs. per acre, add 1 pt. surfactant per 25 gals. of spray. Apply as direct-
ed postemergence broadcast or band spray after sorghum is 15" tall to control weeds 6" in height. Do NOT SPRAY OVER TOP OF SORGHUM. Use the lower rate on broadleafed weeds up to 2" tall; use the higher rate on grasses up to 2" and broadleafed weeds up to 4" tall. When the lower rate is used, a second application may be made if needed provided the amount applied in one crop years does not exceed 1½ lbs. per acre. Treatment of weeds under drought stress is usual-
ly ineffective.

Do not replant treated areas to crops other than cotton or corn within 4 months fol-
loowing band treatment and 6 months following broadcast treatment as crop injury may result. Aerial application is prohibited.

SUGARCANE
To prevent possible crop injury on new cane varieties, tolerance to this herbicide should be determined prior to adoption as field practice. Do not treat sugarcane growing on thin subsoils or rocks; such crops may result in tempor-
ary chlorosis of the crop may result from application over emerged cane; to mini-
imize chlorosis, use directed postemergence sprays. Aerial application is prohibited.

Florida: Preemergence—For high organic soils, apply 2 to 4 lbs. per acre as a broadcast or band spray prior to weed emergence after planting or after harvesting plant crop (for ratoon crop). Postemergence—Make 1 to 2 applications of 2 lbs. per acre as needed by directed spray inter-row. Alternatively, for panicum control, make up to 2 applications of 1½ to 2 lbs. per acre as directed spray inter-row. If panicum is emerged but before panicum exceeds 2" in height; add 1 qt. surfactant per 100 gals. of spray. Adjust nozzle to spray beneath cane plants and beneath rows to cover weed foliage and to minimize contact of cane leaves with spray drift. Do not apply more than 6 lbs. per acre total between planting (or ratooning) and harvest.

Hawaiian: For selective control of weeds, such as crabgrass, foxtail, ryegrass, pig-
weed, purslane, Spanish needle, ragweed, chickweed, mustard and lambsquarter.
Apply 4 to 8 lbs. per acre as a broadcast spray prior to weed emergence after plant-
ing or after harvesting plant crop (for ratoon crop). A second and third application of 2 to 4 lbs. per acre may be made as a broadcast spray over emerged cane or by directed spray inter-row. Additional applications of 4 to 6 lbs. per acre may be made as directed spray inter-row.

If weeds are emerged, add a surfactant (such as Surfactant WK, "OSAMUL" 95 or "STEROX" SK) to the spray at the rate of 1 to 2 qts. per 100 gals. and apply as a directed spray. DO NOT SPRAY OVER THE TOP OF CANE.

Note: To prevent possible crop injury on new cane varieties, tolerance to DIURON 80 WDG WEED KILLER varies with soils, uniformity of application, and environmental conditions. To prevent possible crop injury on new cane varieties should be determined prior to adoption as field practice. Do not treat sugarcane growing on thin subsoils or rocks as crop injury may result. Do not apply more than 20 lbs. per acre total between planting (or ratooning) and harvest. Do not apply within 8 months of harvest.

Puerto Rico: Apply 4 to 8 lbs. per acre as a broadcast spray prior to weed emer-
gence after planting or after harvesting plant crop (for ratoon crop). A second and third application of 2 to 4 lbs. per acre may be made as a broadcast spray over emerged cane or by directed spray inter-row.

If weeds are emerged, add a surfactant (such as Surfactant WK, "OSAMUL" 95 or "STEROX" SK) to the spray at the rate of 1 to 2 qts. per 100 gals. and apply as a directed spray. DO NOT SPRAY OVER THE TOP OF CANE.

Do not apply more than 3 treatments nor more than 10 lbs. total per acre between planting (or ratooning) and harvest. Treated areas may be planted to sugarcane or pineapple one year after last application.

Louisiana: Use on plant cane seeded on fallowed ground. Make a single applica-
tion of 3 to 3½ lbs. per acre at either of the following times. Fall Treatment (August through October)- Treat a 2 ft. band over the row after planting of cane, but before weeds or cane emerge. Spring Treatment (January through April)- If shaving off and barring are practiced, treat a 2 ft. band over the row before weeds or cane emerge.

Texas: A tank mixture of DuPont VELPAR® Weed Killer + DIURON 80 WDG WEED KILLER is recommended for selective weed control in sugarcane. Since the effect on sugarcane varies with soils, uniformity of application, and environmental conditions, it is suggested that growers limit their first use to small areas. Tolerance of new cane varieties should be determined prior to adoption as field practice. Moisture is necessary to activate these herbicides. Best results are obtained when weeds are less than 2 inches in height or diameter and actively growing, soil is moist at time of application, and 1 to 1½ inch of rainfall occurs within 2 weeks after application. Foliar application to weeds is most effective under conditions of high temperature (above 80°F), high humidity, and good soil moisture. Symptoms usu-
ally occur within 2 weeks after application under these conditions, while 4 to 6 weeks may be required when weather is cool. If rainfall after treatment is inade-
quate to promote root uptake, weeds may recover from foliar effects and continue to grow. Extremely heavy rainfall after application may result in poor weed control and/or crop injury, especially if the application is made to dry soil.

Preemergence Use (Germinating Weeds): VELPAR® plus DIURON 80 WDG WEED KILLER tank mixture at the specified rates controls barnyardgrass (water-
weeds), California thistle, Colorado grass (Texas panicum), crabgrass, crabgrass plume, dandelion, dandelion, dandelion, devil's paintbrush, Flora's paintbrush, junglerice, morningglory, pigweed, purslane, and sunflower, and provides partial control of agratema, foxtail, goosegrass, guineagrass, hairy threelobe, johnsongrass (from seed), junglerice, mustard (wild), panicum (broadleaf and browntop), aspalasm (dallisgrass), popolo, signalgrass, sowthistle, springtoplet and spurge (prostrate and graceful).

Postemergence Use (Established Seedling Weeds): VELPAR® plus DIURON 80 WDG WEED KILLER tank mixture at specified rates controls amaranth, crabgrass, Colorado grass (Texas panicum), crabgrass plume, dandelion, dandelion, dandelion, devil's paintbrush, Flora's paintbrush, Flora's paintbrush, Flora's paintbrush, junglerice, morningglory, pigweed, purslane, and sunflower, and provides partial control of agratema, guineagrass, mustard (wild), panicum (broadleaf and browntop), signalgrass, sowthistle, and sunflower.

Make a single tank mix application of 1½ lb. VELPAR® plus 1½ to 2 lbs. DIURON 80 WDG WEED KILLER per acre as a preemergence or directed postemergence application before the cane escapes (preemergence) or as directed lay-by-treatment. For stubble cane, apply preemergence, early postemergence (sugarcane up to 3-leaf stage), or as directed lay-by-treatment.

SPRAY PREPARATION
Prior to treatment, calibrate equipment to insure uniform application. Continuous agitation in the spray tank is required to keep the material in suspension. Avoid overlapping and shut off spray booms while starting, stopping, and overlapping or injury to the crop may result.

Apply at least 25 gals. of spray per acre using ground equipment or 5 to 10 gals. per acre using aerial equipment. Add the proper amount of VELPAR® to the necessary
volume of water in the spray tank using agitation vigorous enough to prevent settling for approximately 10 minutes to dissolve the product, then add the proper amount of DIURON 80 WDG WEED KILLER. For directed postemergence applications, add 1 quart of a nonionic surfactant per 100 gals. of water as the last ingredient.

NOTE: Because of injury to sugarcane may result, do not use on cane which shows poor vigor because of insect, disease or winter injury, or shows symptoms of other stress conditions such as drought stress; do not add surfactant if applied over the top of cane or where weeds mix with sugarcane; do not use if it appears that injury is caused by other factors; do not use where weeds are less tolerant of this product than winter-hardy varieties such as Gaines and Nugaines. Injury to sugarcane may also result from failure to observe the following: Do not use on sand or loamy sand soils, nor on gravelly or sandy loams low in organic matter (less than 1%), nor on sharply defined or exposed subsoil areas (clay knobs); do not treat wheat planted less than 1" deep; do not treat wheat where winter climatic conditions have caused “heaving” of plants; do not treat wheat plants lacking in vigor due to poor emergence, insect damage, disease, high alkalinity or other causes; do not apply after wheat has reached the “boot” stage of maturity; do not use with surfactants. Do not replant treated areas to any other crop within 1 year after last treatment (except as noted) as injury to subsequent crops may result.

Idaho, Oregon and Washington—East of Cascade Range:

Areas Where Average Annual Rainfall Exceeds 16 Inches: Make a single application of 1 to 1½ lbs. per acre.

Fall Treatment: For early fall-planted wheat (seeded before September 10), apply 3 to 6 weeks after planting but before weeds are 3" to 4" tall. Treatment after October 1 has generally given best results. Application should not be made after soil freezes in the fall. Wheat planted in late October should not be treated until the following spring.

Spring Treatment: Apply as soon as wheat starts to grow in the spring. Treatment made prior to April 10 will usually give good results provided weed growth is less than 4" tall. Application later than May 1 may give poor results.

Alternatively, make a single application of 1 to 1 lb. of this product plus ¼ lb. bromoxynil per acre as a tank mix, either in the fall after wheat has emerged but before soil freezes or in the spring as soon as soil thaws; apply before weeds are 2" tall or across.

Areas where Average Annual Rainfall is 10 to 16 inches: After wheat is planted in the fall, make a single application of 1 to 1½ lbs. per acre when sufficient moisture is available to germinate wheat seeds. Apply before soil freezes and before weeds are 2" tall. Application later than March 1 may give poor results.

NOTE: If fall-planted wheat fails to grow due to winter kill or adverse growing conditions, only fall treatment before November 1 may be replanted to spring wheat. Spring wheat should not be planted before April 1, and only after deep disking and plowing to a depth of 4" to 6" prior to planting. Do not retreat field with a second application during the same crop year as injury to the crop may result.

Oregon and Washington—West of Cascade Range: Make a single application of 1½ to 2 lbs. per acre as soon as possible after planting; if wheat and weeds have emerged, apply before weeds are 3" to 4" tall. Alternatively, apply a tank of mixture of this product plus bromoxynil as detailed above for “East of Cascade Range.”

Other Areas: Make a single application in the spring as soon as wheat (fall-plant ed) starts to grow and before weeds are 2" tall. Application later than May 1 may give poor results.

Central Plains and Midwest: Use 1 to 2 lbs. per acre.

Kansas, Oklahoma and Texas: Do not use on sand or sandy loam soils. Use 1 lb. per acre on silt and silt loam soils and 1½-2 lbs. per acre on clay, clay loam, and silty clay loam soils.

Northeast: Use 1 to 1½ lbs. per acre.

FRUIT AND NUT CROPS (See Soil Limitations)

Unless otherwise directed, make a single application per year as a directed spray, avoiding contact of foliage and fruit with spray or drift. Do not graze livestock in treated orchards or groves. Aerial application is prohibited.

APPLES: Maximum rate per application: 4 pounds product (3.2 pounds a.i.) per acre.

Maximum application rate per crop cycle: 4 pounds product (3.2 pounds a.i.) per acre. Apply a maximum of two applications per year. Minimum retreatment interval: 90 days. Use this herbicide alone, or apply as a tank mixture with Du Pont SINBAR® Herbicide.

DIURON 80 WDG Alone—Use only under trees established in the orchard for at least 1 year; do not treat varieties grafted on full-dwarf root stocks. Apply 4 lbs. per acre in the fall (March through May). In the Far West, treatment may be made in winter (December through February), or apply 2 lbs. per acre as a postharvest treatment followed by 2 lbs. in the spring.

DIURON 80 WDG + SINBAR—Use only under trees established in the orchard for at least 2 years. Apply either in the spring or after harvest in the fall before weeds emerge or during early seeding stage of weed growth.

Maximum application rate per cycle: 4 pounds product (3.2 pounds a.i.) per acre. Apply a maximum of two applications per year. Minimum retreatment interval: 90 days. Use this herbicide alone, or apply as a tank mixture with Du Pont SINBAR® Herbicide.
California-Raspberries, Blackberries, Boysenberries, Dewberries and Loganberries: For control of winter annuals, apply 2 lbs. per acre in October or November; repeat at same rate in late spring to control summer annuals. A single application of 3 lbs. per acre in January or February will control both winter and summer annuals in some areas, but the separate fall and spring schedule is preferred.

Western Oregon and Western Washington—Blueberries, Caneberries and Gooseberries: Use same schedule as recommended for California.

DIURON 80 WDG WEED KILLER + SINBAR (New Jersey & Maine)—Blueberries—For control of annual and perennial weeds such as cinquefoil, crabgrass, dogfennel, fall panicum, hawkweed, panicgrass, red root (Lachnanthes caroliniana), red sorrel, annual sedge, perennial ryegrass, and quackgrass.

Use only in blueberry plantings that have been established in the field for at least one year. Make a single band or broadcast application, either in the spring after burning of dried vegetation or in the fall after harvest. Apply before weeds emerge or during the early seedling stage of weed growth at the following broadcast rates:

- **SINBAR + DIURON 80 WDG WEED KILLER - TANK MIXTURE**
  - **Soil Texture**
    - Organic Matter
      - 1 to 3%
        - Sand, Loamy Sand
          - Lbs. Product Per Acre
            - Sinbar + Diuron 80 Wdg
              - 2 + 2
            - Sinbar + Diuron 80 Wdg
              - 2 + 2
          - Sandy Loam
            - 2 + 2
          - Silt Loam
            - 2 + 2
          - Clay Loam
            - 3 + 2
      - More than 3%
        - Sand, Loamy Sand
          - Lbs. Product Per Acre
            - Sinbar + Diuron 80 Wdg
              - 2 + 2
            - Sinbar + Diuron 80 Wdg
              - 2 + 2
          - Sandy Loam
            - 2 + 2
          - Silt Loam
            - 2 + 2
          - Clay Loam
            - 3 + 2

Apply uniformly by air or with a fixed boom sprayer properly calibrated to a constant speed and rate of delivery. Use sufficient water (minimum of 25 gals. per acre with ground equipment or 5 to 10 gals. per acre by aircraft) to provide thorough and uniform coverage of ground. Spray booms must be shut off while starting, turning, slowing, or stopping, or injury to the crop may result. Avoid contact of foliage and fruit with spray or mist.

**NOTE:** Do not use on soils containing less than 1% organic matter, nor on gravelly soils or eroded areas where subsoil or roots are exposed, nor on plants that are diseased or lacking in vigor, as injury to the plants may result. SINBAR-treated areas may be planted to alfalfa, apples, blueberries, citrus, mint, peaches, straw-berries, and sugarcane one year after last application. Do not replant to other crops within two years after last application as injury to those crops may result. Do not replant areas treated with SINBAR + DIURON 80 WDG WEED KILLER to crops other than blueberries within two years after application, as injury to those crops may result.

**CITRUS**

Use only under trees established in the grove for at least 1 year. Time application as indicated for specific areas, except application may be made any time of the year where sprinkler or flood irrigation can be timed to activate the herbicide. Established perennial weeds require other special control procedures. Do not apply under citrus trees that have been subjected to freezing within 6 months.

Arizona (except Yuma area) and California (except Imperial and Coachella Valleys): Apply 3 to 4 lbs. per acre shortly after grove has been laid-out in final form (noontime program) in late fall or early winter. Alternatively, apply 2 lbs. per acre in October or November and repeat at the same rate in March or April. Subsequent annual applications of 2 to 3 lbs. per acre will usually give adequate weed control.

Florida (except Flatwood FL area) and Puerto Rico: Make a single application of 4 lbs. per acre, or apply 3 to 4 lbs. per acre followed by the same rate 4 to 6 months later. On bearing citrus, apply any time when seasonal rains are expected; on nonbearing trees, apply when winter banks are pulled down.

Citrus (all areas except Flatwood, FL)

Maximum single application rate is 4 pounds of product (3.2 lbs. a.i.) per acre. Maximum annual application rate is 8 pounds of product (6.4 lbs. a.i.) per acre.

- for trees less than four years old
  - minimum retreatment interval is 60-days
  - maximum of 2 applications per year.
- for trees 4 years or older
  - minimum retreatment interval is 80-days
  - maximum of 2 applications per year.

**NOTE:** Do not replant treated areas to any other crops within two years after last application as injury may result. Do not use on home plantings or in areas in which the roots of other plants or trees may extend as plant injury may result.

Texas: Apply 2 to 4 lbs. per acre for annual weeds; use 4 lbs. per acre for control of johnsongrass seedlings. Best results accompany application in the spring; well-established weeds should be eliminated by cultivation prior to treatment.

**FILBERTS**

DIURON 80 WDG WEED KILLER may be used for control of certain weeds in filbert orchards established for at least one year.

Maximum rate per application: 2.75 pounds product (2.2 pounds a.i.) per acre. Maximum application rate per crop cycle: 5.5 pounds product (4.4 pounds a.i.) per acre. Apply a maximum of two applications per year. Minimum retreatment interval: 150 days.

Applying as a directed spray, avoiding contact on the foliage and fruit with spray or drift. Make an initial treatment of up to 2.75 pounds product (2.2 lbs. a.i.) per acre in the late fall or early winter after harvest. Repeat annually up to 2.75 pounds product (2.2 lbs. a.i.) per acre, or apply 2 lbs. per acre in October or November after harvest and repeat the same rate in March or April.

Do not apply when nuts are on the ground. Do not graze livestock in treated orchards. Do not use on light sandy soils. If trees are planted on hillsides, the elimination of weeds and ground cover may cause excessive soil erosion. Under these conditions strip applications (at proportionately lower rates) may be made near the trees or to the tree rows perpendicular to the slope.

**GRAPE**

Apply only to established vineyards (at least 3 years old) as a band treatment to grape rows. On soils low in clay or organic matter (1 to 2%), severe plant injury may result if heavy rainfall or more than one inch of irrigation occurs soon after treatment. This risk must be assumed by the user.

Maximum rate per application: 5 pounds product (4 pounds a.i.) per acre. Maximum rate per application on annual basis: 10 pounds product (8 pounds a.i.) per acre. Apply a maximum of two applications per year. Minimum retreatment interval: 90 days.

**East of the Rocky Mountains:** On soils low in clay or organic matter (1 to 2%), apply 2 to 3 lbs. per acre; on soils high in clay or organic matter, apply 3 to 5 lbs. per acre. Apply in the spring just prior to germination and growth of annual weeds.

**West of the Rocky Mountains:** Apply in November, December or January. For initial treatment, apply 3 to 4 lbs. per acre; subsequent annual applications of 2 lbs. per acre will usually give adequate weed control. Do not apply to vines with trunks less than 1½” in diameter as injury may result.

**New York and Pennsylvania—Perennial Grasses:** Use only in established vineyards (at least 4 years old) for spot control of perennial grasses such as orchardgrass, quackgrass and ryegrass. Apply in the spring as a band treatment to ridged soil (2” to 4” high) under the trellis at the rate of up to 5 lbs. product per acre. Band width should not exceed 30”. Do not apply more than once every 4 years. Use only on heavy soils such as loams, silty loams, clay loams. Do not use in areas where grape roots are shallow or exposed because of high bedrock, poor drainage, or erosion as injury to grapes may result.

**MACADAMIA NUTS—Hawaii**

Use only under trees established in the orchard for at least 1 year. Apply 2 to 6 lbs. per acre immediately after harvest, preferably before weeds emerge; if weeds have emerged, add 1 pt. surfactant per 25 gals. of spray. Retreat as needed but do not exceed 10 lbs. per acre per year.

**OLIVES—California**

Use only under trees established in the orchard for at least 1 year. Apply 2 lbs. per acre after grove has been laid-out in final form in late October or November; repeat at same rate in March or April. Remove weed growth prior to treatment.

**PAPAYAS**

Use only under trees established in the orchard for at least 1 year. Apply 2% to 5 lbs. per acre, preferably before weeds emerge; if weeds have emerged, add 1 pt. surfactant per 25 gals. of spray. Retreat as needed but do not exceed 10 lbs. per acre per year.

**PAPAYAS—Hawaii**

DIURON 80 WDG WEED KILLER is recommended as a preplant application to control certain annual weeds such as buttongrass, crabgrass, foxtail, Flora’s paintbrush, pigweed (Amaranth), ricegrass and sandbur.

Apply 1 lb. of DIURON 80 WDG WEED KILLER per acre as a preplant application. Using sufficient water to provide uniform coverage (100 gals. per acre), apply DIURON 80 WDG WEED KILLER as an interrow broadcast, hand knapsack spray or stroller spray. Be sure to avoid spraying on designated planting holes.

**NOTE:** Do not replant treated areas to any other crops within two years after last application as injury may result. Do not use on home plantings or in areas in which the roots of other plants or trees may extend as plant injury may result.
PEACHES
Use this product alone, or apply as a tank mixture with SINBAR.

Do not apply within 3 months of harvest.

All except California:
Maximum rate per application: 2.75 pounds product (2.2 pounds a.i.) per acre.
California only:
Maximum rate per application: crop cycle: 3 pounds of product (or 2.4 pounds a.i.) per acre. Apply a maximum of one application per year.

DIURON 80 WDG + SINBAR—Use only under trees established in the orchard for at least 2 years. Apply either in the spring or after harvest in the fall before weeds emerge or during the early seedling stage of weed growth. Do not apply within 3 months of harvest, in the Fair West, do not apply within 8 months of harvest.

DIURON 80 WDG + SIBAR—Use only under trees established in the orchard for at least 2 years. Apply either in the spring or after harvest in the fall before weeds emerge or during early seedling stage of weed growth.

Lbs. Product Per Acre

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>DIURON 80 WDG + SIBAR</th>
<th>DIURON 80 WDG + SIBAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandy loam</td>
<td>1 to 2</td>
<td>1 to 2</td>
</tr>
<tr>
<td>Loam, silt</td>
<td>1½ to 1½</td>
<td>2 to 2</td>
</tr>
<tr>
<td>Clay loam, clay</td>
<td>2 to 2</td>
<td>2 to 2</td>
</tr>
</tbody>
</table>

Where crop is grown under furrow or under raised-berm flood irrigation (trees 4" to 6" above waterline), apply only as a band treatment. Do not treat trees planted in the bottom of irrigation furrows, nor trees grown under flat floor or basin irrigation, as injury to trees may result. Where complete weed control to harvest is desired, additional weed control measures may be required during the growing season.

PEARS
Use only under trees established in the orchard for at least 1 year; do not treat varieties grafted on full-dwarf root stocks. Apply 4 lbs. per acre in the spring (March through May). In the Far West, treatment may be made in winter (December through February), or apply 2 lbs. per acre as a postharvest treatment followed by 2 lbs. in the spring.

PECANS
Use this product alone or apply as a tank mixture with SINBAR. Make a single band or broadcast application as a directed spray using a minimum of 30 gals. of water per acre. Apply in the spring before weeds emerge or during the early seedling stage of growth.

Lbs. Product Per Acre

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>DIURON 80 WDG Alone*</th>
<th>DIURON 80 WDG + SIBAR***</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandy loam</td>
<td>2</td>
<td>1½ to 1½</td>
</tr>
<tr>
<td>Loam, silt</td>
<td>3</td>
<td>1½ to 1½</td>
</tr>
<tr>
<td>Clay loam, clay</td>
<td>4</td>
<td>2 to 2</td>
</tr>
</tbody>
</table>

* Use only on trees established in grove for at least 3 years and on soils with at least 1½% organic matter.
** Use on trees established in the grove for at least 1 year and on soils with at least 1% organic matter.

NOTE: Do not use on eroded areas where subsoil or roots are exposed, nor on trees that are diseased or lacking in vigor or on trees planted in irrigation furrows as injury to the trees may result.

PINEAPPLE
Aerial application is prohibited.

Hawaii and Florida—Apply 4 to 8 lbs. per acre as a broadcast spray just before or immediately after planting but prior to weed emergence. Use 4 lbs. per acre after harvesting plant crop (for ratoon crop). For plant crop only, a second and third broadcast or interseeding application may be made prior to differentiation at a rate of 2 lbs. per acre at intervals of not less than 2 months. Additional applications to plant crop may be made as needed to interspace only using 2 lbs. per acre. Do not apply more than 3 broadcast sprays (maximum 12 lbs. per acre) prior to differentiation nor more than 16 lbs. total per acre per plant crop. Treated areas may be planted to pineapple or sugar cane 1 year after last application.

Puerto Rico—Apply 3.75 to 6.25 lbs. per acre as a broadcast spray before or immediately after planting but prior to weed emergence.

WALNUTS (English)—California, Washington and Oregon
Use only under trees established in the orchard for at least 1 year. As an initial treatment, apply 3 to 5 lbs. per acre after the orchard has been laid up in final form (non-tilage program) in late fall or early winter; retreat annually with 2 to 3 lbs. per acre. Alternatively, apply 2 lbs. per acre in October or November and repeat at same rate in March or April.

Apply a maximum of two applications per year.

NOTE: Do not use on sand, loamy sand, gravelly soils or exposed subsoils, nor where organic matter is less than 1%. Do not graze livestock in treated orchards and groves.

ORNAMENTAL CROPS (See Soil Limitations)

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated area until sprays have dried.

BERMUDAGRASS PASTURES (Newly Sprigged)
Apply 1 to 3 lbs. after planting and before emergence of bermudagrass or weeds. Alternatively, for control of emerged annual weeds up to 4 in height, apply ½ to 1 lb. per acre; add 1 pt. surfactant per 25 gals. of spray. If bermudagrass has emerged at time of treatment, temporary burn of exposed plant parts may occur. Plant sprigs (stolons) 2" deep in a well-prepared seedbed; do not treat areas where sprigs are planted less than 2" deep as crop injury may result. Do not graze or feed foliage from treated areas to livestock within 70 days after application.

BERMUDAGRASS PASTURES (Established)-Arkansas
Use in bermudagrass pastures in Arkansas to control barnyardgrass, annual bluegrass, chickweed, crabgrass, foxtail, morningglory, goosefoot, purslane, ragweed, sandbur, and wild mustard.

Apply 1 to 3 lbs. per acre in early spring before weed emergence. Alternatively for control of emerged annual weeds up to 4" in height, apply ½ to 1 lb. per acre; add 1 pt. surfactant per 25 gals. of spray. For ground pre-emergence application, use 25 to 40 gals. spray mixture per acre. For ground postemergence application use sufficient volume (25 gals. per acre minimum) for thorough coverage of weed foliage. For pre-emergence application by air, use 5 to 10 gals. spray mixture per acre. Avoid overlapping of spray swath and avoid application under conditions where excessive drift may occur. Do not graze or feed foliage from treated areas to livestock within 2 months after application.
Non-Crop Weed Control

This product is an effective herbicide for the control of many annual and perennial grasses and herbaceous weeds of non-cropland area where bare ground is desired. The degree of control and duration of effect will vary with the amount of chemical applied, soil texture, rainfall and other conditions.

This herbicide may be used as a preemergence treatment at any time of the year except when ground is frozen, provided adequate moisture is supplied by rainfall or artificial means to activate the herbicide. Best results are obtained if application is made to the soil shortly before weed growth begins. If dense growth is present, remove tops and spray the ground.

Increased contact activity on established weeds may be obtained by the addition of surfactant at the rate of 2 qts. per 100 gals. of spray mixture. Apply as a drenching spray to actively growing weeds during warm weather when daily temperature will exceed 70°F.

Except for small areas, use a fixed-boom power sprayer properly calibrated to insure a constant rate of application. Mix proper amount of this product into volume of water necessary to obtain uniform coverage; if surfactant is used, dilute with 10 parts of water and add as last ingredient to nearly full tank. Material must be kept in suspension at all times. Agitate by mechanical or hydraulic means in the spray tank; if bypass or return line is used, it should terminate at bottom of tank to minimize foaming. Openings in screen should be equal to or larger than 50 mesh.

General Weed Control: To control most weeds for an extended period of time on non-cropland such as utility, highway, pipeline and railroad right of ways, petroleum tank farms, lumberyards, storage areas, industrial plant sights, and around farm non-crop areas such as utility, highway, pipeline and railroad right of ways for control of annual weeds such as barnyardgrass, crabgrass, kochia, lambsquarters, pigweed, and ragweed.

Apply 5 to 15 lbs. product (12 lbs. a.i.) per acre for perennial weeds; additional treatment may be required where a longer period of control is desired or when hard-to-kill, deep-rooted perennial weeds such as johnsongrass are present. In low rainfall areas, this product may not provide satisfactory control of deep-rooted perennial weeds.

Rights of way/non-crop areas:

- Maximum rate per application:
  - 15 pounds product (12.0 pounds a.i.) per acre in areas of high rainfall or dense vegetation,
  - 10 pounds product (8.0 pounds a.i.) per acre in all other areas.

- Maximum annual application rate of 12 lbs. a.i. (15 lbs. product) per acre per year.

Apply a maximum of two applications per year. Minimum retreatment interval 90 days.

Irrigation and Drainage Ditches: Apply 5 to 15 lbs. per acre (12 lbs. a.i.) to control most annual weeds; use up to 15 lbs. product per acre to control both annual and perennial weeds. Apply only when water is not in the ditch. For irrigation ditches, apply during the non-crop season, and when ditch is not in use. To minimize movement of this herbicide with irrigation water (to avoid possible crop injury), it is essential that the herbicide be fixed in the soil by moisture. Apply before expected season rains (if possible) when soil in the ditch is still moist. Following treatment, if rainfall has not totaled at least 4 inches, fill ditch with water and allow to stand for 72 hours; drain off and waste remaining water before using ditch. Do not treat any ditch into which roots of trees or other desirable plants may extend as injury may result.

Roadside Bermudagrass—Oklahoma

DIURON 80 WDG WEED KILLER may be used for use in bermudagrass on high-way right-of-ways for control of annual weeds such as barnyardgrass, crabgrass, kochia, lambsquarters, pigweed, and ragweed.

Make a single application of DIURON 80 WDG WEED KILLER either preemerge or postemergence to the weeds. Apply as a broadcast treatment with a properly calibrated boom sprayer using sufficient amount of water (25 to 40 gallons per acre) to provide thorough and uniform coverage. Avoid overlapping and shut off spray boom while starting, turning, slowing, or stopping or injury to the bermudagrass may result. Continuous agitation as directed on the package label is required to keep the material in suspension.

Preemerge Treatment: Apply 2 to 4 lbs. DIURON 80 WDG WEED KILLER per acre before emergence of bermudagrass or weeds.

Postemerge Treatment: Apply 2 to 4 lbs. DIURON 80 WDG WEED KILLER per acre when seedlings weeds up to 4” in height are present. Add surfactant at rate of 1 pt. per 25 gals. of spray mixture. Use the lower rate on weeds up to 2” tall and the higher rate on weeds 2” to 4” tall.

Use the lower rates on light soils (sandy loam and loam) and the higher rates on heavy soils (clay loam and clays). Best results are obtained if the herbicide is moved into the root zone of germinating weeds by rainfall or irrigation within two weeks of application.

Notes:
- If bermudagrass is exposed at time of treatment, temporary burn of exposed plant parts may occur.
- DIURON 80 WDG WEED KILLER controls weeds early in the season and supplemental mowing may be required later.
- Do not graze or feed foliage from treated areas to livestock within 70 days after application.