

BASAGRAN[®]

herbicide

Supplemental Labeling

FOR DISTRIBUTION AND USE ONLY WITHIN WYOMING

EPA Reg No. 7969-45

EPA SLN. WY-040003

FOR WEED CONTROL IN ALFALFA GROWN FOR SEED PRODUCTION

THIS LABEL VALID UNTIL June 21, 2009 UNTIL OTHERWISE AMENDED,
WITHDRAWN, CANCELLED OR SUSPENDED

All applicable directions, restrictions, precautions and Conditions of Sale and Warranty on the EPA-registered label are to be followed. This labeling must be in the possession of the user at the time of herbicide application.

DIRECTIONS FOR USE

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

Read the **Precautionary Statement, Environmental Hazards, Storage and Disposal** statements, and **Conditions of Sale and Warranty** statement appearing on the container label.

GENERAL INFORMATION

Basagran[®] herbicide is intended for selective postemergence control of certain broadleaf weeds.

Basagran does not control grasses. **Basagran** is effective mainly through contact action; therefore, weeds must be thoroughly covered with spray. Large crop-and-weed leaf canopies shelter smaller weeds and prevent adequate spray coverage. Seed alfalfa is tolerant to **Basagran**, however some leaf speckling, leaf bleaching, or whitening and temporary stunting may occur under certain conditions. Applications made at or after flower bud formation may reduce seed yields.

Timing of Applications

At application, alfalfa must have at least 2 trifoliolate leaves and have no flower bud formation. Make post-emergence applications of **Basagran** early, when weeds are small and actively growing and before weeds reach the maximum size listed in **Table 1**. Early application to weeds produces the most beneficial effect on weed control and makes it easier to obtain thorough spray coverage. Delay in application, which permits weeds to exceed the maximum size stated, will result in inadequate control.

Ground Application Methods and Equipment (Broadcast)

Water Volume: Use 10-20 gallons of spray solution per broadcast acre for optimal performance.

Spray Pressure: Use a minimum of 40 psi (measured at the boom, not at the pump or in the line).

Note: When using the lower volume (i.e., 10 gallons per acre) or when crop and weed foliage is dense, use a minimum of 60 psi for best results.

Application Equipment: Use standard high-pressure pesticide flat fan or hollow cone nozzles spaced up to 20 inches apart. Do not use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles as erratic coverage can cause inconsistent weed control. Do not use selective application equipment such as recirculating sprayers or wiper applicators. Good coverage is essential for maximum control.

Basagran® herbicide

Aerial Application Methods and Equipment

Water Volume: Use a minimum of 5 gallons of water per acre.

Spray Pressure: Use up to 40 psi.

Application Equipment: Use only diaphragm-type nozzles that produce cone or fan spray patterns.

Nozzles: Nozzles must not be more than 10 feet above crop. Nozzles must be oriented to discharge straight back with the air stream (opposite the direction of travel of the aircraft) or at some angle between straight back and straight down.

Special Directions for Aerial Application

To obtain uniform coverage and to avoid drift hazards, follow these guidelines:

- Do not apply **Basagran** by aircraft when wind is blowing more than 10 mph.
- Use coarse sprays (larger droplets), as they are less likely to drift.
- Do not apply **Basagran** by air if sensitive non-target plant species (such as lentils, lupines, ornamentals, strawberries, sugar beets, or sunflowers) are within 200 feet downwind.

The applicator must follow the most restrictive use cautions to avoid drift hazards, including those found in this supplemental label and the main EPA-registered label, as well as applicable state and local regulations and ordinances.

Irrigation

In irrigated areas, it may be necessary to irrigate before treatment to ensure active weed growth because weeds growing under drought conditions usually are not satisfactorily controlled.

Spray Coverage

Weeds must be thoroughly covered with spray. Dense leaf canopies shelter smaller weeds and can prevent adequate spray coverage.

Addition of Oil Concentrate

A nonphytotoxic oil concentrate (commonly referred to as oil concentrate) should always be added to the spray tank. The oil concentrate must contain either a petroleum or vegetable oil base and must meet the following criteria:

1. be nonphytotoxic,
2. contain only EPA-exempt ingredients,
3. provide good mixing quality in the jar test, and
4. be successful in local experience.

The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers which provide good mixing quality. For vegetable oil concentrates, it has been observed that highly refined vegetable oils are more satisfactory than unrefined vegetable oils.

With the addition of oil concentrate to **Basagran** on seed alfalfa, a slight leaf burn or temporary stunting may occur, but all new growth is normal. The potential for leaf burn is increased when relative humidity and temperature are high. A few oil concentrates have exhibited excessive leaf burn. Refer to your supplier of **Basagran** for information concerning successful local experience prior to purchasing any oil concentrate.

For additional information, see **Jar Test for Estimating Suitability of Oil Concentrates**.

Rate of Oil Concentrate

Ground application: 2 pints per acre (maximum)

Air application: 1 pint per acre (maximum)

Jar Test for Estimating Suitability of Oil Concentrates

1. **Water supply:** Use only water from intended source and at the source temperature.
2. **Amount of water in jar:** For 20 gallons per acre spray volume, use 3-1/3 cups (800 ml) of water. For 10 gallons per acre spray volume, use 1-2/3 cups (400 ml) of water. For 5 gallons per acre spray volume use 5/6 cup (200 ml) of water. For other spray volumes, adjust proportionately to above.
3. **Amount of herbicide and oil concentrate to add:** Add herbicide and oil concentrate at the rate of 1 teaspoon (5 ml) for each pint of recommended label rate.
4. **Add components** in following sequence, gently mixing between adding components:
 - a) **Basagran**
 - b) Oil Concentrate.
5. **Cap jar, invert** 10 cycles, let stand for 15 minutes. Evaluate.

Basagran® herbicide

6. **Evaluation:** An ideal tank mix combination will be uniform; thus, the suitability of the oil concentrate is questionable if any of the following are observed:

Free oil at the surface - film or globule.

Flocculation - fine particles which may be suspended in the liquid or found as a precipitated layer at the bottom of the jar.

Clabbering - thickening texture (coagulated) resembling yogurt or a curd-like texture as with cottage cheese.

Mixing/Spraying

Fill tank of a thoroughly clean sprayer half to two-thirds full with clean water. Start agitation and add **Basagran**; allow to mix thoroughly. Add oil concentrate and the remaining volume of water. Maintain constant agitation during application.

Physical incompatibility, reduced weed control, or crop injury may result from mixing **Basagran** with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. BASF does not recommend using tank mixes other than those listed on BASF labeling. Local agricultural authorities may be a source of information when using other than BASF recommended tank mixes.

Restrictions and Limitations

For use only on fields in production of alfalfa seed. Not for use on fields producing alfalfa for livestock feed. No portion of the treated field, including seed, seed screenings, hay, forage, or stubble, may be used for human food or animal feed.

Producers of alfalfa seed who use **Basagran** or cause the product to be used on fields they operate are required to inform, in writing, conditioners receiving seed produced on treated fields of the product's use. A copy of this labeling is required to be provided to the conditioner by the producer.

Use of **Basagran** according to this labeling is deemed a non-food use.

Treated alfalfa is not to be used for sprouting. All seed alfalfa treated with **Basagran** is to be tagged at the conditioning plant "Not for human or animal consumption."

The processor must dispose of all seed screenings in such a way that they cannot be distributed or used for food or feed.

Do not apply **Basagran** if alfalfa shows injury (leaf phytotoxicity and/or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced and/or prolonged.

Do not apply **Basagran** during prolonged periods of drought or during unseasonably cold weather, as unsatisfactory control may result.

Rainfall or overhead irrigation soon after application (within 4 hours) may nullify the effectiveness of **Basagran**.

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

Clean sprayer thoroughly prior to application of **Basagran** particularly if a herbicide was used which has the potential to injure the crop to be sprayed with **Basagran**.

Do not apply when weather conditions favor drift from treated areas.

Do not apply more than a total of 4 pints of **Basagran** per acre in one season.

One pint of **Basagran** contains 0.5 pounds of bentazon active ingredient (a.i). Do not apply more than a total of 2.0 pounds of bentazon a.i. (from all sources) per acre, per calendar year.

Basagran® herbicide

Table 1. Application Rates for Specific Weed Growth Stages

Weeds Controlled	Application Rates for Weed Growth Stage					
	1 pint per acre		1.5 pints per acre		2 pints per acre	
	Leaf Stage	Maximum Height	Leaf Stage	Maximum Height	Leaf Stage	Maximum Height
Lambsquarters, Common ¹	Up to 4	1"	Up to 6	1.5"	Up to 6	2"
Mayweed/dogfennel	-	-	-	2"	-	3"
Mustard, Wild	Up to 4	2"	Up to 6	4"	6-10	8"
Nightshade, Hairy ²	-	-	-	-	2-6	4"
Purslane, Common	-	-	Up to 4	1"	4-6	2"
Radish, Volunteer	-	-	2-6	4"	6-10	10"
Shepherdspurse ³	-	-	Up to 6	4"	6-10	8"
Sugar beet, Volunteer	-	-	2-4	-	4-8	-
Sunflower, Wild	Up to 2	3"	Up to 4	5"	4-6	8"

¹ Control requires the addition of 1-2 pints per acre of oil concentrate (2 pints maximum per acre).
² **Basagran® herbicide** does not adequately control black nightshade or Eastern black nightshade.
³ Do not treat rosette before seed stalk appears.

Canada Thistle

Apply 2 pints of **Basagran** per acre when plants are from 8 inches tall to the bud stage. Make a second application at the same rate 7-10 days later.

Environmental Hazards

For terrestrial uses, 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 or rinsate.

Bentazon, which is present in this product, is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Notice: It is a violation of federal law to use any pesticide in a manner that results in the death of an endangered species or adverse modification of their habitat.

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Do not store at less than 32° F and do not allow product to freeze.

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:

- **Plastic Containers:** Triple rinse the container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not re-use empty container.

Conditions of Sale and Warranty

The **Directions For Use** of this product reflects 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 use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF Corporation ("BASF") or the Seller. All such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

Basagran is a registered trademark of BASF.

©2004 BASF Corporation

All rights reserved

007969-00045.20040617.NVA 2004-04-004-0080.pdf

Supersedes: NVA 1998-04-004-0033

BASF Corporation

26 Davis Drive

Research Triangle Park, NC 27709

BASF