

3M 25 EPA REG No. 7969-112 pg 1 of 4
US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.
7969-112

DATE OF ISSUANCE
SEP 13 1993

TERM OF ISSUANCE

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT
Basagran 5L Herbicide

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Mr. T. R. Nelson
BASF Corporation
Agricultural Products
P. O. Box 13528
Research Triangle Park, NC 27709-3528

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under Federal Insecticide, Fungicide, and Rodenticide Act.

copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

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This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase, "EPA Registration No. 7969-112" to your label before you release the product for shipment.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

This acceptance of your label does not relieve you of any obligation to comply with the Worker Protection Standard (WPS). Under the WPS labeling regulations at 40 CFR part 156, subpart k, sec. 156.200(c)(3), you are prohibited from distributing or selling any product within the scope of the WPS requirements after April 21, 1994, without amended labeling accepted by the Agency.

JMS

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BASF

April 30, 1993

Basagran® 5L

Postemergence Herbicide

A soluble liquid formulation containing.

Active Ingredient:

Sodium salt of bentazon	53%
Inert Ingredients	47%
TOTAL	100%

Equivalent to 5 pounds per gallon bentazon (3-(1-methylethyl)-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide)

EPA Reg. No. 7969-

**KEEP OUT OF THE REACH OF CHILDREN
DANGER**

Causes irreversible eye damage. Avoid contact with skin, eyes or clothing. Harmful if swallowed or absorbed through the skin. Wear goggles, face shield or safety glasses. Wash thoroughly with soap and water after handling. Remove clothing and wash before re-use.

Statement of Practical Treatment

If In Eyes: Flush with plenty of water. Call a physician.
If On Skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

If Swallowed: Call a physician or poison control center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

Net Contents 2½ gallons

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BASF Corporation
Agricultural Products
PO Box 13528, Research Triangle Park, NC 27709-3528

Specimen Label
 RECEIVED
 with COMMENTS
 in EPA Letter Dated
 SEP 13 1993

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 7969-112

In Case of Emergency

In the case of large scale spillage regarding this product, call:

CHEMTREC 800-424-9300
BASF 800-832-HELP

In case of medical emergency regarding this product, call:

1. Your local doctor for immediate treatment.
2. Your local poison control center (hospital).
3. BASF at 800-832-HELP.

Environmental Hazards

Do not apply directly to waters or wetlands except as noted under rice use directions.

Do not contaminate water when disposing of equipment wash waters.

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 in adverse modification of their habitat.

The use of this product may pose a hazard to certain federally designated endangered species known to occur in specific areas within the California counties of Merced, Sacramento and Solano. Before using this product in these counties you must obtain the EPA Endangered Species Bulletin specific for these areas. The bulletin (EPA/ES-85-8) is available from either your county Agricultural Extension Agent, the Endangered Species Specialist in your State Wildlife Agency Headquarters, or the Regional Office of the U.S. Fish and Wildlife Service (Portland, Oregon). **THE USE OF THIS PRODUCT IS PROHIBITED IN THESE COUNTIES UNLESS SPECIFIED OTHERWISE IN THE BULLETIN.**

Storage and Disposal

Do not allow product to freeze.

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

Waste resulting from the use of

this product may be disposed of on-site or at an approved waste disposal facility.

Triple-rinse 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.

Bulk/Mini-Bulk Containers and Refillable Containers Less than 55 Gallons

Refillable/reusable containers should be returned to the point of purchase for cleaning and refilling. Refillable/reusable containers must be thoroughly cleaned before refilling.

Directions for use - ALL CROPS

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

Read the precautionary statements, environmental hazards, storage and disposal statements, and Conditions of Sale and Warranty statement appearing on the container label.

General Information

Basagran® 5L herbicide is intended for selective postemergence control of certain broadleaf weeds and sedges. (See Directions for Use for specific crops and weeds.) Basagran 5L does not control grasses. Basagran 5L 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. Labeled crops are tolerant to Basagran 5L; however, some leaf-speckling and leaf-bronzing may occur under certain conditions. (See Restrictions and Limitations for each crop.)

Timing of Applications

Apply Basagran 5L early, when weeds are small and actively growing and before weeds reach

the maximum size listed in the application rate tables for the individual crops.

Early application produces the most beneficial effect on weed control (exceptions: Yellow Nutsedge and Canada Thistle); allows use of the lower rate (depending on weed species), 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.

Cultivation

Do not cultivate within five days before or after application of Basagran 5L in the following northern and western states: AZ, CA, CO, CT, IA, ID, IL, IN, KS, KY, MA, ME, MI, MN, MO, MT, NE, ND, NH, NJ, NV, NY, OH, OR, PA, RI, SD, UT, VT, WA, WI, WV and WY.

Cultivation may put weeds under stress and reduce control obtained. Timely cultivation 2 to 3 weeks after applying Basagran 5L may assist weed control.

Water Volume and Spray Pressure

Apply recommended rates of Basagran 5L as follows:

Ground Equipment: Use a minimum of 20 gallons of water per broadcast acre and a minimum of 40 psi pressure (measured at the boom, not at the pump or in the line). When crop and weed foliage is dense, use up to 50 gallons of water and up to 80 psi pressure. Use standard high pressure pesticide hollow cone or flat fan nozzles spaced 20 inches apart. Do not use flood, whirl chamber or controlled droplet application (CDA) nozzles.

Air Equipment: Use a minimum of 5 gallons of water per acre (except 10 gallons for rice) and a maximum of 40 psi pressure. Use only diaphragm-type nozzles producing cone or fan spray patterns.

Aerial Application

Special Directions

To obtain uniform coverage and to



avoid drift hazards, the following application equipment and practices should be used:

Nozzle Height: Maximum of 10 feet above crop.

Nozzle Orientation: Nozzles must be oriented so as 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. For optimal coverage when applying Basagran 5L by air in rice, orient all nozzles straight back.

Nozzles must not be located farther out than three-fourths the distance from the center of the aircraft to the end of the wing or rotor.

Do not apply Basagran 5L by aircraft when wind velocity exceeds 10 m.p.h. (except above 5 m.p.h. in California). Coarse sprays (large droplets) are less likely to drift.

Do not apply Basagran 5L by air if ornamental or sensitive non-target crops, such as cotton, sugar beets, sunflowers or okra are within 200 feet downwind.

Applicator must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

Special Information For Irrigated Areas

In irrigated areas, it may be necessary to irrigate prior to treatment with Basagran 5L to ensure that weeds are growing actively. Weeds growing under drought conditions usually are not satisfactorily controlled.

Addition of Oil Concentrate

A nonphytotoxic oil concentrate (commonly referred to as oil concentrate) should be added to the spray tank for certain weed problems as recommended in the

directions for specific crops. 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 (see below), 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. For additional information, see "Jar Test for Estimating Suitability of Mixes" at the end of this section.

With the addition of oil concentrate to Basagran 5L on soybeans, beans and peanuts, a slight leaf burn may occur, but all new growth is normal and crop vigor is not reduced.

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 5L for information concerning successful local experience prior to purchasing any oil concentrate.

Do not add a nitrogen solution (UAN or AMS) to Basagran 5L plus Blazer when oil concentrate is included in the spray tank.

Do not add oil concentrate to Basagran 5L for use on peas except as directed for use in the Pacific Northwest (PNW).

Rate of oil concentrate:

Ground application - 1.25% v/v; 2 pints/acre (maximum)

Air application - 1.25% v/v; 1 pint/acre (maximum)

California - refer to additional information under the specific crop (beans and corn/sorghum)

Addition of Nitrogen Solution (UAN or AMS) for Velvetleaf and Other Weeds*

Urea Ammonium Nitrate (UAN) solution (commonly referred to as 28%, 30% or 32% nitrogen solution) or AMS solution (ammonium sulfate) may be added to Basagran 5L in place of oil concentrate for improved control of velvetleaf. Improvement in the control of cocklebur, wild sunflower, Pennsylvania smartweed, devilsclaw, Venice mallow and wild mustard may also be attained.

Either nitrogen solution should be added to the tank with Basagran 5L when velvetleaf is the primary target weed. Basagran 5L plus a nitrogen solution will not provide adequate control of common ragweed and common lambsquarters. If these weeds or other weeds requiring oil concentrate are present in addition to velvetleaf, then oil concentrate should also be used.

UAN solution is an agricultural grade fertilizer used by local dealers for agricultural applications. With the addition of UAN solution or UAN solution plus oil concentrate to Basagran 5L on certain crops, a slight leaf burn may occur, but the new growth is normal and crop vigor is not reduced. Refer to your local supplier of Basagran 5L for information concerning successful local experience prior to using UAN solution.

Ammonium sulfate (AMS) is a dry granular nitrogen source fertilizer. Several grades of ammonium sulfate are currently available; however, only fine feed grade or spray grade AMS is recommended as an additive to Basagran 5L. Inferior grades of AMS do not dissolve adequately, leading to clogging of spray nozzles. The use

* Not applicable in California.

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AMS requires some preparation in mixing with Basagran 5L as compared to UAN. See section entitled "Mixing/Spraying for AMS". Three quarts of liquid AMS (8-0-0 analysis) may be substituted for granular AMS.

Do not add nitrogen (UAN or AMS) solutions to Basagran 5L for use on rice, peanuts or mint.

Do not use brass or aluminum nozzles when spraying Basagran 5L plus nitrogen solution.

Rate of UAN Solution

Ground Application - 1/2 to 1 gal/A
Air Application - 1/2 gal/A

Rate of AMS Solution

Ground Application - 2.5 lbs./A
Air Application - AMS solution is not recommended due to potential precipitation problems in reduced water volumes. AMS can be used provided a minimum of 10 gpa of solution is applied. Use only if the source of AMS has been demonstrated to be successful in local experience.

Mixing/Spraying

Fill tank of a thoroughly clean sprayer half to two-thirds full with clean water. Start agitation and add Basagran 5L; allow to mix thoroughly. Add oil concentrate and/or nitrogen solution and remaining volume of water. Maintain constant agitation during application.

Jar Test for Estimating Suitability of Mixes:

1. **Water Supply:** Use only water from intended source and at the source temperature.

2. **Amount of Water in Jar:**
Ground application - for 20 gallons/acre spray volume use 1.06 quarts (1 liter or 1000 ml) of water.

Air application - for 5 gallons/acre spray volume use 1 cup (250 ml) of water,

or for 10 gallons/acre spray volume use 1 pint (500 ml) of water. For other spray volumes, adjust proportionately to above. Add 1/2 the volume of water to the jar.

3. Amount of Herbicide(s), Oil Concentrate and/or UAN to Add:

Add herbicides, oil concentrate and/or UAN at the rate of 1 teaspoon (5 ml) for each 0.8 pint of recommended label rate.

4. Add components in following sequence, gently mixing between component additions:

a. Dry products (dry flowables and wettable powders) when applicable.

b. Basagran 5L, and when applicable, other water miscible products (such as Blazer), liquid fertilizers and/or liquid flowables.

c. Oil concentrate.

d. Poast® or other emulsifiable concentrates when applicable.

e. Add remaining volume of water.

5. Cap jar, invert 10 cycles, let stand for 15 minutes, evaluate.

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

a. **Free oil at the surface:** film or globules.

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

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

Ammonium Sulfate (AMS)

AMS may be added in place of UAN to the spray solution. Use AMS at 2.5 lb/A. Use only fine feed grade or spray grade AMS. Fill sprayer tank two-thirds full with

clean water. Begin agitation, slowly add required amount of AMS to the tank. Adding too quickly may clog outlet lines. Allow AMS crystals to dissolve completely. Complete mixing procedures by addition of Basagran 5L and remaining water. Maintain agitation during application to ensure complete mixing. Rinse equipment after use to minimize corrosive activity of AMS.

To determine AMS quality, perform a jar test adding 1/2 cup of AMS to 1 gallon of water and agitate for 1 minute. If undissolved sediment is observed, predissolve AMS in water and filter prior to spray tank addition.

Restrictions and Limitations

Do not apply Basagran 5L to crops that have been subject to stress conditions such as hail damage, flooding, drought, injury from other herbicides or widely fluctuating temperatures, as crop injury may result.

Do not apply Basagran 5L to crops injured (leaf phytotoxicity and/or plant stunting) by any prior herbicide applications. This injury may be enhanced and/or prolonged.

Do not apply Basagran 5L during prolonged periods of drought or during unseasonably cold weather, as unsatisfactory weed control may result.

Clean sprayer thoroughly prior to application of Basagran 5L, particularly if a herbicide was used which has the potential to injure the crop to be sprayed with Basagran 5L.

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

Do not apply directly to water or wetlands except as noted in rice use directions.

Do not contaminate water when disposing of equipment wash waters.

Rainfall or overhead irrigation soon after application may decrease the effectiveness of Basagran 5L.

BASF does not recommend the use of Basagran 5L tank mixes other than those listed on BASF labels, supplemental labels, or technical bulletins. Reduced efficacy, physical incompatibility or crop injury may result from mixing Basagran 5L with other pesticides, additives or fertilizers. Local agricultural authorities may be a source of information when using other than BASF recommended combinations.

Directions for use - SOYBEANS

Apply Basagran 5L when weeds are small and actively growing and before weeds reach the maximum size listed in Table 1. Such applications generally correspond to the soybean growth stages of unifoliate to two expanded trifoliate leaves. Soybeans are tolerant to Basagran 5L at all stages of growth. Slight yellowing, bronzing, speckling, or burning of leaves may occur under certain conditions. Soybean plants generally outgrow this condition within 10 days.

Mixing with Insecticides

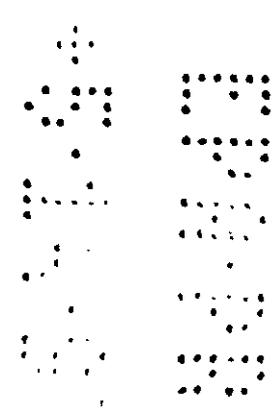
A need may arise that requires postemergence or foliar control of certain insects in the soybean crop. It is possible to tank mix an insecticide with Basagran 5L if the proper application timing of the insecticide coincides with the application timing of Basagran 5L. Insecticides that may be used are Furadan® 4F, Pounce®, Pydrin®, dimethoate, and Lorsban® 4E. Do not tank mix Basagran 5L with malathion or Sevin®. The tank mix addition of an insecticide to Basagran 5L may increase the potential for crop injury. Consult the respective labels for directions for use and restrictions and limitations of each product. The most restrictive labeling applies in tank mixes.

The exact conditions under which an insecticide is tank mixed with Basagran 5L may vary and these conditions may reduce good mixing quality. It is recommended that before a tank mix of Basagran 5L plus an insecticide is mixed, a jar test should be conducted following the directions in the section titled "Jar Test for Estimating Suitability of Mixes."

Restrictions and Limitations (Partial List)

Do not apply more than a total of 3.2 pints of Basagran 5L per acre in one season.

Do not graze or cut treated soybean fields for forage or hay, for at least 30 days after the last treatment of Basagran 5L.



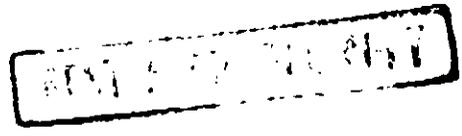
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**Table 1
Application Rates for Soybeans**

WEEDS CONTROLLED	APPLICATION RATES FOR WEED GROWTH STAGES					
	0.8 PINT PER ACRE		1.2 PINTS PER ACRE		1.6 PINTS PER ACRE	
	LEAF STAGE	MAXIMUM HEIGHT	LEAF STAGE	MAXIMUM HEIGHT	LEAF STAGE	MAXIMUM HEIGHT
Balloonvine	---	---	?-4	2"	4-6	3"
Beggarticks	---	---	Up to 6	6"	6-8	8"
Bristly Starbur	---	---	Up to 4	2"	4-6	3"
Cocklebur ^a	2-4	4"	2-6	6"	6-10	10"
Coffee Senna	---	---	---	---	Up to 1" Pinnate	2"
Common Lambsquarters ^b	Up to 4"	1"	Up to 6"	1 1/2"	4-8	2"
Common Purslane	---	---	Up to 4	1"	4-6	2"
Common Ragweed	---	---	---	---	4-6"	3"
Dayflower	---	---	Up to 6	4"	6-10	8"
Devilsclaw	---	---	---	---	Up to 6"	3"
Galinsoga	---	---	---	---	Cotyledon to 6"	2"
Giant Ragweed ^c	---	---	---	---	Up to 4	6"
Jimsonweed	Up to 4	4"	Up to 6	6"	6-10	10"
Ladysthumb	Up to 4	4"	Up to 6	6"	6-10	10"
Marshelder	---	---	Up to 4	2"	Up to 8	4"
Pennsylvania Smartweed	Up to 4	4"	Up to 6	6"	6-10	10"
Prickly Sida or Teaweed	---	---	Up to 6	3"	6-8	4"
Redweed	---	---	4-6	6"	6-10	8"
Sesbania	---	---	---	---	3-5"	3"
Shepherdspurse ^d	---	---	Up to 6	4"	6-10	8"
Spurred Anoda	---	---	Up to 6	3"	6-8	4"
Tropic Croton	---	---	Up to 2	2"	2-4	4"
Velvetleaf ^e	Up to 4	2"	Up to 6	5"	4-6	6"
Venice Mallow	Up to 4	2"	Up to 6	2"	6-10	4"
Wild Buckwheat	---	---	Up to 4	3"	4-6	5"
Wild Mustard	Up to 4	2"	Up to 6	4"	6-10	8"
Wild Poinsettia	---	---	2-4	4"	4-8"	6"
Wild Sunflower	Up to 2	3"	Up to 4	5"	4-6	8"

For additional weeds see Special Directions section following.

- Apply before weeds reach the maximum size or leaf stage indicated. If regrowth develops, make a second application of 0.8 pint seven to fourteen days after the first application. (This rate not applicable in California.)
- Add oil concentrate at a rate (concentration) of 1.25% v/v (2 pints/A maximum). See Addition of Oil Concentrate.
- Do not treat earlier than leaf stage shown and do not count cotyledon leaves.
- Control may be partial or inconsistent.
- If a second flush occurs, re-treat field according to this rate table.
- Do not treat rosette before seed stalk appears.
- Add nitrogen solution according to the section Addition of Nitrogen Solution (see pages) or add oil concentrate according to the section Addition of Oil Concentrate.



Special Directions for Other Weed Problems in Soybeans

Annual Morningglories

South: (AL, AR, FL, GA, LA, MS, NC, OK, SC, TN, TX, VA) To control smallflower and cypressvine morningglories apply a single application of either 1.2 pints of Basagran 5L per acre to plants not larger than 4 true leaves and 4 inches in height, or 1.6 pints of Basagran 5L per acre to plants not larger than 6 true leaves and 6 inches in height. Add oil concentrate to the spray solution with Basagran 5L (see section Addition of Oil Concentrate).

To control palmleaf, pitted, tall (common), entireleaf, purple moonflower and ivyleaf morningglories, apply 1.2 pints of Basagran 5L per acre to plants not larger than 4 true leaves and 4 inches in height (14 to 18 days after morningglory emergence). Make a second application at the same rate of 5 to 14 days later.

All states other than the South (see above): Apply 1.6 to 2.4 pints of Basagran 5L per acre to annual morningglories not larger than 4 true leaves. Control may be partial or inconsistent. Add oil concentrate to the spray solution of Basagran 5L/water (see section Addition of Oil Concentrate).

Because morningglories grow very rapidly, it is important to watch the growth stage carefully and to be certain that Basagran 5L is applied to morningglories before they exceed the maximum size recommended on this label.

Canada Thistle

Apply 1.6 pints of Basagran 5L per acre when plants are from 8 inches tall to bud stage. Make a second application at the same rate 7 to 10 days later. Add oil concentrate to the spray solution of Basagran 5L (see section Addition of Oil Concentrate).

Yellow Nutsedge

Two applications are preferred for best results. Apply 1.2 to 1.6 pints of Basagran 5L per acre when plants are 6 to 8 inches tall. If needed, make a second application at the same rate 7 to 10 days later. Add oil concentrate to the spray solution of Basagran 5L (see section Addition of Oil Concentrate).

Field and Hedge Bindweed in KY, IL, IN, MI, and OH Only

For suppression of field and hedge bindweed, apply 1.6 to 2.4 pints of Basagran 5L per acre when vines are a maximum of 10 inches long. Add oil concentrate to the spray solution of Basagran 5L/water (see section Addition of Oil Concentrate).

Late Cocklebur Rescue Treatment

This treatment is intended to provide only partial control of cocklebur in the event early postemergence treatments were not made. Very thorough spray coverage is essential. Apply a single application of 1.6 to 2.4 pints of Basagran 5L per acre to plants up to 24 inches tall, repeat 10 to 14 days later.

Late Velvetleaf Rescue Treatment

Partial velvetleaf control can be obtained in the event postemergence treatments were not made. Thorough coverage is essential. Apply a single application of 2.4 pints per acre of Basagran 5L plus 1 quart of oil concentrate and 1 gallon of UAN solution to velvetleaf plants up to 12". For best results, apply 1.2 pints per acre of Basagran 5L plus 1 quart of oil concentrate plus 1 gallon of UAN solution (AMS may be substituted) followed in 4 to 7 days with the same treatment.

SOYBEANS - Tank Mixes with Basagran 5L

Use the following chart as a guide to determine broadleaf weeds and grasses controlled by Basagran 5L alone and various tank mixes with Basagran 5L.

BASAGRAN 5L TANK MIXES* -- GUIDE TO ADDITIONAL WEED CONTROL	
BASAGRAN 5L CONTROLS WEEDS LISTED IN TABLE 1. ADDITIONAL WEED CONTROL BY TANK MIXING WITH BASAGRAN 5L	REFER TO TABLE LISTED BELOW FOR RATE, WEED SIZE AND ADDITIVE INFORMATION
Blazer® Herbicide Common Ragweed (larger growth stage) Tall Waterhemp Redroot Pigweed Smooth Pigweed Black Nightshade Sesbania Morningglories Crotalaria	Basagran 5L + Blazer Tables 2, 3 and 4 Page
Pinnacle® Herbicide Redroot Pigweed Smooth Pigweed Tall Waterhemp	Basagran 5L + Pinnacle Table 11 Page
Reflex® 2LC Herbicide Common Ragweed Tall Waterhemp Redroot Pigweed Smooth Pigweed Black Nightshade Sesbania Morningglories Crotalaria	Basagran 5L + Reflex 2LC Page
2,4-DB Herbicide Morningglories (Ivyleaf, Tall, Entireleaf) Vines up to 6" long	Basagran 5L + 2,4-DB Table 5 Page
Scepter® Herbicide Redroot Pigweed Smooth Pigweed Tall Waterhemp Wild Sunflower	Basagran 5L + Scepter Table 6 Page
Poast® Herbicide Barnyardgrass Broadleaf Signalgrass Fall Panicum Giant Foxtail Goosegrass Green Foxtail Junglerice Large Crabgrass Red Sprangletop Seeding Johnsongrass Smooth Crabgrass Texas Panicum Wild Proso Millet Witchgrass Woolly Cupgrass Yellow Foxtail	Basagran 5L + Poast Table 7 Page
Poast® + Blazer® Herbicides See weeds listed above for Poast and Blazer	Basagran 5L + Poast + Blazer Table 8 Page
Early Spot Spray	Basagran 5L + Poast + Blazer Table 9 Page

*Tank mixes not applicable in California.

Basagran 5L + Blazer Tank Mixes - SOYBEANS

General and Application Information, Restrictions and Limitations

General Information

For postemergence broadleaf weed control, refer to Tables 2, 3 and 4 as determined by weed problems and geographical area.

Table 2: Northern States
Basagran 5L: 0.8 - 1.6 pts/A
Blazer: ½ pint/A

Additional Weeds Controlled:
Pigweeds (Redroot and Smooth)
and Tall Waterhemp

**Table 3: All States (except
California)**
Basagran 5L: 0.8 - 1.6 pts/A
Blazer: 1 pint/A

Additional Weeds Controlled: Listed
in Table 3.

Table 4: Southern States
Basagran 5L: 0.8 pint/A
Blazer: 1 pint/A

Weeds Controlled:
Listed in Table 4.

Time of Application

The timing of all applications of Basagran 5L should be in accordance with the weed growth stages indicated in Table 1 and when weeds are actively growing. With Blazer in the tank mix, the timing should be in accordance with the weed growth stages indicated in Tables 2, 3 and 4 and when weeds are actively growing. If weeds are not at the correct stage of growth for treatment at the same time, then separate applications should be made. Delay in application which permits weeds to exceed the maximum size stated will result in inadequate control.

Water Volume and Spray Pressure

Ground Equipment: Refer to the
Directions for Use - ALL CROPS.

Air Equipment: Use a minimum of
10 gallons of total spray solution
per acre.

Mixing

Refer to Directions for Use - ALL
CROPS.

Coverage

Thorough coverage of actively growing weeds is essential. Large crop-and-weed leaf canopies shelter smaller weeds and can prevent adequate spray coverage. Soybeans are tolerant to the above tank mixes; however, under certain conditions soybeans may burn, crinkle and bronze.

Restrictions and Limitations (Partial List)

Read and follow restrictions and limitations on the Basagran 5L herbicide and Blazer labels. The most restrictive labeling applies to tank mixes.

Do not apply Blazer within 50 days of harvest (see Blazer label).

Do not graze treated soybean fields and do not feed treated soybean forage, ensilage or hay to livestock (see Blazer label).

Do not include oil concentrate with nitrogen solutions (UAN or AMS) when tank mixing Basagran 5L with Blazer.

*Tank mixes not applicable in California.

TABLE 2
Northern States*
Basagran 5L + Blazer Tank Mix Additional Weed Control - SOYBEANS
Rate and Time of Application

PRODUCT	PRODUCT RATE	WEEDS CONTROLLED/WEED SIZE			ADDITIVE RATE
Basagran 5L	0.8 to 1.6 pints/A According to weed species and size (see Table 1, Page)	Apply rate of Basagran 5L according to weed size in Table 1.			Oil Concentrate 1.25% v/v (2 pints/A max.) or Nitrogen solution (UAN solution 0.5-1.0 gallon/A or AMS 2.5 lbs./A) ^b if velvetleaf is the primary weed target and lambsquarters or common ragweed are not a problem.
Blazer ^c	½ pint/A	Weed Controlled	Leaf Stage	Maximum Height	NOTE: Do not include Oil Concentrate with nitrogen solutions when tank mixing Basagran 5L with Blazer.
		Pigweeds ^d (Redroot and Smooth) Tall Waterhemp	Up to 4	< 2"	
<p>^a See Table 4 for control of additional weeds.</p> <p>^b Northern States, for the purpose of this table, are the following states and those to the north thereof: MD, WV, OH, IN, IL, KS and MO (except southeastern MO., Jefferson county and south).</p> <p>^c See section Addition of Nitrogen Solution, page .</p> <p>^d Apply tank mix early, when weeds are small and actively growing before weeds reach maximum height listed.</p>					

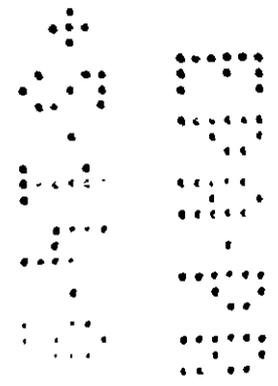


Table 3
All States*
Basagran 5L + Blazer Tank Mix Additional Weed Control - SOYBEANS
Rate and Time of Application

PRUDUCT	PRODUCT RATE	WEEDS CONTROLLED/WEED SIZE			ADDITIVE RATE
Basagran 5L	0.8 to 1.6 pints/A According to weed species and weed size (See Table 1, Page)				Oil Concentrate** 1.25% v/v (2 pts./A ac...) or Nitrogen Solution (UAN solution 0.5-1.0 gal/A* grams 2.5 lb./A) if Velvetlea* is the primary target and Lambsquarters or Common Ragweed are not a problem.
Blazer	1 pint/A	Weed Controlled	Leaf Stage	Maximum Height	NOTE: Do not include Oil Concentrate with nitrogen solutions when tank mixing Basagran 5L with Blazer.
		Black Nightshade Common Ragweed* Crotalaria Giant Ragweed* Morningglories*** Redroot Pigweed Sesbania Smooth Pigweed Tall Waterhemp	Up to 2 Up to 10 Up to 6 Up to 10 Up to 2 Up to 6 Up to 4 pinnate Up to 6 Up to 6	<2" 6" 6" 6" 2" < 4" 6" < 4" < 4"	
<p>* Requires 1.6 pints Basagran 5L. ** Except in California. *** Add oil concentrate to the tank mix according to recommendations in Table 1, "Application Rate Table for Soybeans", Page . For consistent control of common (tall) morningglory, use the 1.2 pints rate of Basagran 5L. See section Addition of Nitrogen Solution, page .</p>					

Table 4
Southern States^a
Basagran 5L + Blazer Tank Mix Additional Weed Control - SOYBEANS
Rate and Time of Application

PRODUCT	PRODUCT RATE	WEEDS CONTROLLED	LEAF STAGE	WEED SIZE MAXIMUM HEIGHT	ADDITIVE RATE
Basagran 5L	0.8 pt./A	Black Nightshade	Up to 2	<2"	Oil Concentrate 1.25% v/v (2 pts./A maximum.)
+	+	Bristly Starbur	4-6	3"	
Blazer	1 pt./A	Cocklebur ^b	2-6	6"	
		Carpetweed	---	2"	
		Common Lambsquarters ^c	4-6	2"	
		Common Ragweed	4-6	3"	
		Crotalaria	Up to 6	6"	
		Giant Ragweed	Up to 4	6"	
		Jimsonweed	Up to 6	6"	
		Ladysthumb	Up to 6	6"	
		Morningglories ^c	Up to 2	2"	
		Pennsylvania Smartweed	Up to 6	6"	
		Prickly Sida (Teaweed) ^c	Up to 4	2"	
		Redroot Pigweed	Up to 6	<4"	
		Redweed	2-4	3"	
		Sesbania	Up to 4	6"	
		Smooth Pigweed	Up to 6	<4"	
		Spurred Anoda ^c	Up to 4	2"	
		Tall Waterhemp	Up to 6	<4"	
		Velvetleaf ^c	Up to 4	2"	
		Venice Mallow	Up to 6	2"	
		Tropic Croton	2	<2"	
		Woolly Croton	2	<2"	
		Wild Mustard	Up to 6	4"	

^a For more consistent control, increase rate of Basagran 5L to 1.2 pints.
^b Southern States, for the purpose of this table are: AL, AR, FL, GA, KY, LA, MS, NC, OK, SC, TN, TX, VA and southeastern MO (Jefferson County and south).
^c Do not treat earlier than the 2-leaf stage and do not count cotyledon leaves.
For common (tall) morningglory, increase rate of Basagran 5L to 1.2 pints.

Basagran 5L + Reflex 2LC Tank Mix - SOYBEANS

General and Application Information, Restrictions and Limitations

General Information

A tank mix of Basagran 5L herbicide and Reflex® 2LC herbicide may be applied for postemergence control of the major troublesome broadleaf weed species in soybeans.

Basagran 5L and Reflex 2LC are selective postemergence herbicides which control annual broadleaf weeds. Apply the tank mix to actively growing weeds. Refer to this label and the Reflex 2LC labels for defined environmental conditions, and recommended rates. Weed size and growth stage for susceptible weed species are described in these labels. The most restrictive labeling applies to tank mixes.

Water Volume and Spray Pressure

Ground Application: Refer to Directions for Use - ALL CROPS.

Mixing

Refer to Directions for Use - ALL CROPS.

Rate

Basagran 5L may be used in ten tank mixes at rates of 0.8 to 1.6 pints per acre in each of the regions listed for Reflex 2LC. Refer to tank mix table below for the recommended use rate of Reflex 2LC in Regions 1, 2, and 3. Geographic description of these regions is included in the Reflex 2LC label.

Restrictions and Limitations (Partial List)

Always read and follow the restrictions and limitations for each product. The most restrictive labeling applies in tank mixes.

Reflex 2LC can be applied only in the states included in Regions 1, 2 and 3 as described on the Reflex label. DO NOT APPLY REFLEX 2LC TO ANY FIELD IN REGIONS 2 AND 3 MORE THAN ONCE EVERY TWO YEARS.

A maximum of 1.5 pints (0.375 lb. ai.) per acre of Reflex 2LC may be applied per growing season for soybeans in Region 1. A maximum of 1.25 pints (0.313 lb. ai.) per acre may be applied in alternate years in Region 2. A maximum of 1.0 pint (0.25 lb. ai.) per acre may be applied in alternate years in Region 3.

Refer to Reflex 2LC label for recommendations concerning crop rotation.

Do not apply a total of more than 3.2 pints of Basagran 5L per acre in one season on soybeans.

DO NOT MAKE MORE THAN ONE APPLICATION OF THE BASAGRAN 5L/REFLEX 2LC TANK MIX IN A SINGLE SEASON.

Basagran 5L + Reflex 2LC tank mix requires a 4-hour rain-free period. Do not apply the tank mix if rain is threatening.

Use of Basagran 5L + Reflex 2LC tank mix during periods of dry weather when crop and weeds are under stress and not actively growing may result in reduced weed control. Do not apply to drought stressed weeds or weeds which have gone through an extended dry period.

In the event of a crop loss due to weather conditions, only soybeans can be replanted (see Reflex label).

Avoid drift to all other crops and nontarget areas. Crops other than soybeans may be severely injured by drift.

Do not graze treated areas or harvest for forage or hay (see Reflex label).

APPLICATION RATES FOR BASAGRAN 5L AND REFLEX 2LC IN TANK MIX

REGION*	BASAGRAN 5L**	REFLEX 2LC**	OIL CONCENTRATE
1	0.8 - 1.6 pts/A	1 - 1 1/2 pts/A	1 qt/A
2	0.8 - 1.6 pts/A	3/4 - 1 1/2 pts/A	1 qt/A
3	0.8 - 1.6 pts/A	3/4 - 1 pt/A	1 qt/A

* See the Reflex 2LC label for states or parts of states included in regions.

** Consult labels for each product for specific weeds controlled.

**Basagran 5L +
2,4-DB Tank Mix*
SOYBEANS**

**General and Application
Information, Restrictions and
Limitations**

General Information

These directions are intended to provide the user of Basagran 5L with instructions for tank mixing with 2,4-DB (such as Butyrac® 200 or Butoxone® 200 herbicides) to control entireleaf, tall (common), and ivyleaf morningglories. Weeds must be actively growing and at the recommended growth stages. Delay in application which permits weeds to exceed the maximum size stated will result in inadequate control.

**Water Volume and
Spray Pressure**

Refer to the Directions for Use - ALL CROPS.

Mixing

Refer to the Directions for Use - ALL CROPS.

Coverage

Refer to the Directions for Use - ALL CROPS.

**Restrictions and Limitations
(Partial List)**

Read and follow the restrictions and limitations on the labels for Basagran 5L herbicide and 2,4-DB. The most restrictive labeling applies in tank mixes.

Use only amine formulations of 2,4-DB.

Do not add oil or any other additive (including nitrogen solution) to tank mix with 2,4-DB.

Do not apply more than one application of tank mix per season.

Do not apply within 60 days of harvest (see label for 2,4-DB).

The use of this tank mix will cause soybean foliage injury (such as burning, bronzing or crinkling) and may reduce yields.

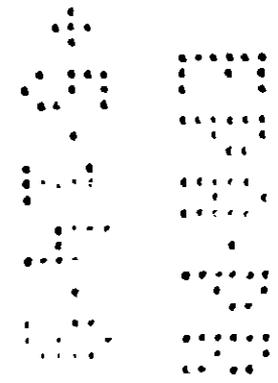
Do not use this tank mix on soybeans that show symptoms of disease such as phytophthora root rot (see label for 2,4-DB).

* Tank mix not applicable in California.

**TABLE 5
Basagran 5L + 2,4-DB Tank Mix Additional Weed Control - SOYBEANS
Rate and Time of Application**

PRODUCT	PRODUCT RATE	WEEDS CONTROLLED/WEED SIZE		ADDITIVE RATE
Basagran 5L	1.2 to 1.6 pints/A According to weed species and size (See Table 1, page)	Apply rate of Basagran 5L according to weed sizes in Table 1.		Do not add oil concentrate or any other additives. (Including nitrogen solution) to this tank mix.
2,4-DB (amine formulation)	2 fl. oz./A. of Butoxone 200 or Butyrac 200 (0.03 lb. ae/A.)	Morningglories Ivyleaf Tall (Common) Entireleaf	Vines up to 6" long	

* Acid equivalent.



Basagran 5L + Scepter Tank Mix* - SOYBEANS (Northern States Only)

General and Application Information, Restrictions and Limitations

General Information

The tank mix of Basagran 5L plus Scepter herbicide will control pigweeds in addition to those weeds controlled by Basagran 5L. Weeds must be actively growing and at the recommended growth stages.

Water Volume and Spray Pressure

Refer to Directions for Use - ALL CROPS.

Ground Equipment: Use a maximum of 40 psi pressure. For additional directions refer to Directions for Use - ALL CROPS.

Mixing/Coverage

Refer to Directions for Use - ALL CROPS.

Restrictions and Limitations (Partial List)

Read and follow the restrictions and limitations on the labels for Basagran 5L and Scepter® herbicides. The most restrictive labeling applies in tank mixes.

Observe all geographical and rotational crop restrictions on the label for Scepter.

*Tank mix not applicable in California.

**TABLE 6
Basagran 5L + Scepter Tank Mix Additional Weed Control - SOYBEANS
Northern States*
Rate and Time of Application**

PRODUCT	RATE	WEEDS CONTROLLED/WEED SIZE			ADDITIVE RATE
		Weed Controlled	Leaf Stage	Maximum Height	
Basagran 5L	0.8 to 1.6 pints/A. According to weed species and size (See Table 1, Page)	Apply rate of Basagran 5L according to weed sizes in Table 1.			Oil Concentrate 1.25% v/v (2 pints/A. maximum)
Scepter	½ pint/A.	Redroot Pigweed Smooth Pigweed Tall Waterhemp Wild Sunflower	Up to 6 Up to 6 Up to 6 Up to 6	3" 3" 3" 3"	

* Northern States, for the purpose of this table, are the following states: IA, southern MI, southern WI, PA, NJ, DE, NE, KS, MD, WV, OH, IN, IL, KS and MO (except southeastern: Jefferson County and south). See label for Scepter for list of approved states and parts of states.

Basagran 5L + Poast Tank Mix - SOYBEANS

General and Application Information, Restrictions and Limitations

General Information

Basagran 5L and Poast herbicide may be tank mixed for postemergence control of the broadleaf and grass weeds shown in this table. Weeds must be actively growing and at the recommended growth stages. Soybeans are tolerant to Basagran 5L and Poast at all stages of growth.

Separate applications should be made if: a) all weeds to be controlled are not at the correct growth stage for treatment at the same time, or b) grasses to be controlled include rhizome Johnsongrass, quackgrass, bermudagrass, wirestem muhly, shattercane, volunteer cereals, wild oats, red rice or itchgrass. See Table 10, Separate Applications of Basagran 5L.

Water Volume and Spray Pressure

Ground Equipment: Use a minimum of 10 gallons of total spray solution per acre (broadcast basis) and a minimum of 40 psi pressure. Use standard high pressure hollow cone or flat fan nozzles spaced 20 inches apart. Do not use whirl chamber nozzles.

Air Equipment: Use a minimum of 5 gallons of total spray solution per acre.

Additives

At the low rate of Poast (1 pint/A) the additive Dash HC spray adjuvant plus UAN (or ammonium sulfate) must be used. For control of the additional grasses listed in Table 7, use the higher rate of Poast (1 1/2 pint/A.) and either Dash HC or oil concentrate. To enhance weed control UAN (or ammonium sulfate) may also be added.

Mixing/Coverage

Refer to Directions for Use - ALL CROPS.

Restrictions and Limitations (Partial List)

Read and follow the restrictions and limitations on the labels for Basagran 5L and Poast herbicides. The most restrictive labeling applies in tank mixes.

Do not apply tank mix within 75 days of harvest (see label for Poast).

Do not graze treated soybean fields and do not feed treated soybean forage (green, succulent) or ensilage to livestock. Treated soybean hay may be fed (see label for Poast).

*Tank mix not applicable in California.

**Table 7
Basagran 5L + Poast Tank Mix Additional Weed Control - SOYBEANS
Rate and Time of Application**

PRODUCT	RATE	WEEDS CONTROLLED/WEED SIZE	ADDITIVE RATE/ACRE	
			Dash HC or Oil Concentrate	UAN solution or AMS
Basagran 5L	0.8 to 1.6 pints/A. According to weed species and size (see Table 1, page)	Apply Basagran 5L according to weed sizes in Table 1.		
Poast	1 pint/A.	Annual Grasses*		Dash HC (1 pt) plus 1/2 to 1 gal UAN or 2 1/2 lbs AMS
		Fall Panicum Giant Foxtail Green Foxtail Volunteer Corn Wild Proso Millet** Witchgrass Woolly Cupress	3-8" 3-8" 3-8" 1-12" 4-10" 3-8" 3-8"	
Poast	1 1/2 pints/A.***	Barnyardgrass Broadleaf Signalgrass Goosegrass Jungle rice Large Crabgrass Red Sprangletop Seedling Johnsongrass Smooth Crabgrass Texas Panicum Yellow Foxtail	3-8" 3-8" 3-8" 3-8" 3-8" 3-8" 3-8" 3-6" 3-8" 3-8"	Dash HC (1 pt) or Oil Concentrate (2 pts) plus 1/2 to 1 gal UAN or 2 1/2 lbs AMS may be added to this tank mix

*Tank mix does not control rhizome Johnsongrass, Bermudagrass, wirestem muhly, shattercane, volunteer cereals, wild oats, red rice or itchgrass.
**For control of wild proso millet only include Poast in the tank mix at 1/2 pint/A.
***The 1 1/2 pints/A. rate of Poast will also control all grasses listed at the 1 pint/A. rate.



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**Basagran 5L +
Blazer + Poast
Tank Mix -
SOYBEANS**

**General and Application
Information, Restrictions and
Limitations**

General Information

Basagran 5L, Poast and Blazer herbicides may be tank mixed for postemergence control of broadleaf and grass weeds. Weeds must be actively growing and at the recommended growth stages.

Separate applications should be made if:

- a) all weeds to be controlled are not at the correct growth stage for treatment at the same time, or
- b) grasses to be controlled include rhizome Johnsongrass, Quackgrass, Bermudagrass, Wirestem Muhly, volunteer corn, Shattercane, volunteer cereals, wild oats, red rice or Itchgrass.

See Table 10, SEPARATE APPLICATIONS.

**Water Volume and
Spray Pressure**

Ground Equipment: Use a minimum of 20 gallons of total spray solution per acre (broadcast basis) and a minimum of 40 psi pressure. Use standard high pressure hollow cone or flat fan nozzles spaced 20 inches apart. Do not use flood or whirl chamber nozzles.

Air Equipment: Use a minimum of 10 gallons of total spray solution per acre.

Mixing/Coverage

Refer to Directions for Use - ALL CROPS.

Early Spot Spray

When using knapsack sprayers or high volume equipment utilizing handguns (or other suitable nozzle arrangements), prepare spray solution according to Table 9. Apply to foliage on a spray-to-wet basis. Complete coverage of all foliage is essential for control. Control of perennial grassy weeds may be limited to burnoff of exposed foliage.

Observe all safety precautions when spot spraying Basagran 5L + Blazer + Poast tank mix.

**Restrictions and Limitations
(Partial List)**

Read and follow the restrictions and limitations on the labels for Basagran 5L, Poast and Blazer herbicides. The most restrictive labeling applies in tank mixes.

Do not apply tank mix within 75 days of harvest. (See label for Poast).

Do not graze treated soybean fields and do not feed treated soybean forage, ensilage or hay to livestock (see labels for Blazer and Poast).

Do not include UAN solution (or ammonium sulfate) when tank mixing Basagran 5L, Blazer and Poast.

* Tank mix not applicable in California.

Table 8
Basagran 5L + Blazer + Poast Tank Mix Additional Weed Control - SOYBEANS or PEANUTS
Rate and Time of Application

PRODUCT	RATE	WEEDS CONTROLLED / WEED SIZE		RATE ADDITIVE
Basagran 5L	0.8 to 1.6 pints/A. According to weed species and size (see Table 1, page)	Apply Basagran 5L according to weed sizes in Table 1.		Oil Concentrate 1.25% v/v (2 pts./A maximum) Note: Do not include UAN solution or AMS when tank mixing oil concentrate with Basagran 5L and Blazer.
Poast**	1 1/2 pints/A.	Barnyardgrass Broadleaf Signalgrass Fall Panicum Giant Foxtail Goosegrass... Green Foxtail Junglerice Large Crabgrass Red Sprangletop Seedling Johnsongrass Smooth Crabgrass Texas Panicum Wild Proso Millet* Witchgrass Woolly Cupgrass Yellow Foxtail	3-8" 3-8" 3-8" 3-8" 3-6" 3-8" 3-8" 3-8" 3-6" 3-8" 3-8" 3-6" 3-8" 4-10" 3-8" 3-8" 3-8"	
			Leaf Stage Height Up to 6 2" Up to 10 6" Up to 6 6" Up to 4 4" Up to 6 <4" Up to 4 6" pinnate Up to 6 <4" Up to 6 <4"	
Blazer	1/2 to 1 pint/A. Use 1/2 pint for pigweed (up to 2") only; 1 pint if other weeds at right are present.	Black Nightshade Common Ragweed Crotalaria Morningglories*** Redroot Pigweed Sesbania Smooth Pigweed Tall Waterhemp	Up to 6 Up to 10 Up to 6 Up to 4 Up to 6 Up to 4 pinnate Up to 6 Up to 6	
.. For control of wild proso millet only, include Poast herbicide in tank mix at 1/4 pt/A. ... Tank mix does not control rhizome Johnsongrass, Quackgrass, Bermudagrass, Wirestem Muhly, volunteer corn, Shattercane, volunteer cereals, wild oats, red rice or Itchgrass. For consistent control of common (tall) morningglory, use the 1.2 pint rate of Basagran 5L.				

Table 9
Basagran 5L + Blazer + Poast Tank Mix - SOYBEANS or PEANUTS
Spot Treatment Application

See annual grasses and broadleaves listed in Table 8.	CONCENTRATION IN SPRAY SOLUTION			
	BASAGRAN 5L	BLAZER	POAST	OIL CONCENTRATE
	1%	1%	1%	1%
Desired Spray Solution Volume	Amount to be Added to Obtain a 1% Solution			
	POAST		OIL CONCENTRATE	
1 Gallon	1 1/2 fl. oz.*		1 1/2 fl. oz.	
25 Gallons	1 quart		1 quart	
50 Gallons	2 quarts		2 quarts	
100 Gallons	4 quarts		4 quarts	
* 2 Tablespoons = 1 fl. oz.				

**SOYBEANS or PEANUTS -
Separate Application of
Basagran 5L or Basagran 5L
+ Blazer Tank Mix* Preceded
or Followed by Poast**

Applications of Basagran 5L or Basagran 5L tank mixed with Blazer can be preceded or followed by Poast to obtain broad spectrum control of weeds listed on the respective product labels (refer to this label and the labels for Poast, and Basagran 5L + Blazer tank mix). Also refer to these product labels for timing, rate and other information for ground and aerial applications.

For best results when making separate applications, depending upon their order, according to Table 10.

**Table 10
SOYBEANS or PEANUTS
Separate Application of Basagran 5L or Basagran 5L + Blazer
Tank Mix* Preceded or Followed by Poast**

ORDER OF APPLICATION		MINIMUM TIME BETWEEN APPLICATIONS
First Product(s) Applied	Second Product(s) Applied	
Basagran 5L	Poast	24 Hours
Basagran 5L + Blazer	Poast	7 Days
Poast	Basagran 5L or Basagran 5L + Blazer	24 Hours
* Tank mixes not applicable in California.		

Basagran 5L + Pinnacle Tank Mix - SOYBEANS

General and Application Information, Restrictions and Limitations

General Information

The tank mix of Basagran 5L herbicide plus Pinnacle herbicide will control certain weeds not controlled by Basagran 5L or Pinnacle alone (see Table 11).

The tank mix 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.

Time and Rate of Application

The rates of application and weed sizes for the use of this tank mix are given in Table 11. Applications of this tank mix made to weeds that are in the cotyledon stage, larger than the size in Table 11, or to weeds under stress, may result in unsatisfactory control. Soybeans are tolerant to the tank mix of Basagran 5L + Pinnacle after the first trifoliate soybean leaf has fully expanded; however, under conditions of high temperature or humidity some leaf-bronzing or leaf-speckling of soybean foliage may occur. Soybean plants will generally outgrow this condition within 10 to 14 days.

Water Volume and Spray Pressure

Refer to Directions for Use - ALL CROPS.

Mixing

Refer to Directions for Use - ALL CROPS.

Addition of Additives

Applications of Basagran 5L plus Pinnacle tank mix must include a nonionic surfactant at the rate (concentration) of 0.125% to 0.25% v/v (1 to 2 pints per 100 gallons of spray solution). USE OF THE HIGHER RATE OF NONIONIC SURFACTANT, PARTICULARLY UNDER HOT, HUMID CONDITIONS, MAY INCREASE TEMPORARY CROP INJURY. Use only EPA approved surfactants authorized for use on food crops. Use a nonionic surfactant of at least 80% active ingredient. DO NOT USE DASH SPRAY ADJUVANT.

Under dry conditions or during cool weather, a crop oil concentrate at 0.5% v/v (4 pints per 100 gallons of spray solution) may be used to enhance weed control. Use a petroleum based crop oil concentrate (0.5% v/v) with at least 15% emulsifiers/surfactant. THE USE OF CROP OIL CONCENTRATE MAY INCREASE TEMPORARY INJURY TO SOYBEANS.

The addition of ammonium nitrogen fertilizer is required for control of velvetleaf. Use a high quality liquid nitrogen fertilizer such as 28-0-0 at a rate of 2 to 4 quarts per acre or 10-34-0 at a rate of 1 to 2 quarts per acre. Alternatively, a high quality, sprayable grade of ammonium sulfate (AMS) (21-0-0) may be used at a rate of 2 to 4 pounds per acre. The addition of ammonium nitrogen fertilizer does not replace the need for a surfactant. Use the lower rate of nitrogen fertilizer for aerial applications.

Restrictions and Limitations (Partial List)

Always read and follow the restrictions and limitations for each product. The most restrictive labeling applies in tank mixes.

Do not apply within 60 days of harvesting soybeans.

Do not graze animals on green forage or stubble. Do not utilize hay or straw for animal feed or bedding.

Do not apply if rain is expected within 1 hour of application or unsatisfactory weed control may result.

Do not apply through any type of irrigation system.

Do not cultivate within seven days before or after application.

Do not allow spray from either ground or aerial equipment to drift onto adjacent crops or land, as injury to other crops may occur. Consult the respective labels for details.

Thoroughly clean sprayer immediately after spraying. See Pinnacle label for "Sprayer Clean-up".

Do not apply within 14 days before or after an organophosphate insecticide as severe crop injury may occur.

**Table 11
Basagran 5L + Pinnacle Tank Mix - SOYBEANS**

WEEDS CONTROLLED	BASAGRAN 5L 1.2 PT/A + PINNACLE ¼ OZ/A HEIGHT (INCHES)	BASAGRAN 5L 1.2 PT/A + PINNACLE ¼ OZ/A HEIGHT (INCHES)	BASAGRAN 5L 0.8 PT/A + PINNACLE ¼ OZ/A HEIGHT (INCHES)	ADDITIVE RATE*
Cocklebur	2-6"	2-6"	2-4"	Nonionic surfactant at 0.125- 0.25% v/v (1 to 2 pints per 100 gallons spray solution) + Nitrogen** solution
Common Lambsquarters	2-4"	---	2-4"	
Jimsonweed	2-6"	2-6"	2-6"	
Ladysthumb	2-6"	2-6"	2-6"	
Pennsylvania Smartweed	2-6"	2-6"	2-6"	
Redroot Pigweed	2-8"	2-4"	2-6"	
Smooth Pigweed	2-8"	2-4"	2-6"	
Tall Waterhemp	2-8"	2-4"	2-6"	
Velvetleaf	2-5"	2-5"	2-5"	
Venice Mallow	2"	2"	2"	
Wild Buckwheat	2-3"	2-3"	---	
Wild Mustard	Up to 4"***	Up to 4"***	Up to 4"***	
Wild Sunflower	2-6"	2-4"	2-4"	
<p>* Refer to the section entitled Addition of Additives for specific rates and environmental conditions. ** Nitrogen solution is referred to as 28%-32% UAN (urea ammonium nitrate) or AMS (ammonium sulfate). Refer to section entitled Addition of nitrogen solution. *** Diameter.</p>				

Basagran 5L + Pursuit* Tank Mix - SOYBEANS

General and Application Information, Restrictions and Limitations

General Information

The tank mix of Basagran 5L herbicide plus Pursuit herbicide will control certain weeds not controlled by Basagran 5L or Pursuit alone (see Table 2).

The tank mix 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.

Time and Rate of Application

Rates of application and weed sizes for the use of this tank mix are given in Table 2. Applications of this tank mix should be made when weeds are small and actively growing and before weeds reach

the maximum size listed in the application table. Such applications should be applied within 14 to 28 days after planting. Soybeans are tolerant to the tank mix of Basagran 5L plus Pursuit after the first trifoliate soybean leaf has fully expanded, however under conditions of high temperature or humidity some leaf-bronzing or leaf speckling of soybean foliage may occur. Soybean plants will generally outgrow this condition within 10 to 14 days.

Water Volume and Spray Pressure

Apply recommended rates of this tank mix as follows:

Ground Equipment Only: Use a minimum 20 gallons of water per acre on a broadcast basis. Use a minimum of 40 psi pressure (measured at the boom not at the pump or in the line) when using flat fan nozzles and 40 to 60 psi pressure when using hollow cone nozzles. Do not use flood, whirl chamber, or controlled droplet application (CDA) nozzles.

Restrictions and Limitations (Partial List)

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix.

Do not apply the tank mix of Basagran 5L plus Pursuit within 85 days of soybean harvest.

Do not apply this tank mix through any type of irrigation system.

Do not allow spray to drift onto adjacent crops or land, as injury to other plants may occur. Consult the respective labels for details.

Do not apply this tank mix by aerial application.

Do not apply with ground equipment when wind velocity is greater than 10 m.p.h., or when spray may be carried to sensitive crops. Sensitive crops include leaf vegetables, sugar beets and cotton.

* Tank mix not applicable in California.

TABLE 12
Basagran 5L + Pursuit Tank Mix - SOYBEANS

WEEDS CONTROLLED	BASAGRAN 0.8 PT/A + PURSUIT 2 OZ/A	BASAGRAN 1.2 PTS/A + PURSUIT 20 Z/A	BASAGRAN 1.2 PT/A + PURSUIT 4 OZ/A	ADDITIVE RATE
Broadleaf Weeds	Maximum Weed Size			nonionic surfactant ^a (1 qt/100 gals) plus nitrogen solution UAN (2 qts/A) or AMS ^c
Cocklebur	4"	6"	8"	
Common Lambcort	1"	1.5"	2"	
Jerusalem Artichoke	—	—	10"	
Jimsonweed	4"	6"	6"	
Kochia	<1"	<2"	4"	
Marshelder	—	2	3"	
Morningglory	—	—	—	
,Entireleaf	—	2"	2"	
,Hyaleaf	—	—	2"	
,Pitted	—	—	2"	
,Smallflower	—	—	3"	
,Tail	—	—	2"	
Nightshade	—	—	—	
,Black	<2"	<2"	3"	
,Eastern black	<2"	<2"	3"	
,Hairy	<2"	<2"	3"	
Pigweed	—	—	—	
,Palmer	4"	4"	8"	
,Redroot	4"	4"	8"	
,Smooth	4"	4"	8"	
Prickly sida/Teaweed	—	3"	3"	
Ragweed	—	—	—	
,Common	—	<2"	3"	
,Giant	2"	<2"	3"	
Smartweed	—	—	—	
,Ladysthumb	4"	6"	6"	
,Pennsylvania	4"	6"	6"	
Tall Waterhemp	2"	2"	4"	
Velvetleaf	2"	5"	5"	
Verica Mallow	2"	2"	2"	
Wild Buckwheat	—	3"	3"	
Wild Mustard	2"	4"	4"	
Wild Sunflower	3"	5"	5"	
Grasses	—	—	—	
Barnyardgrass	—	—	3"	
Crabgrass	—	—	—	
,Large	—	—	3"	
,Smooth	—	—	3"	
Foxtails	—	—	—	
,Giant	—	—	3"	
,Green	—	—	3"	
,Giant Green	—	—	3"	
,Robust Purple	—	—	3"	
,Robust White	—	—	3"	
,Yellow	—	—	3"	
Johnsongrass, Seedling	—	—	3"	
Red Rice	4"	4"	8"	
Shattercane	—	—	—	

a. Refer to respective labels for complete list of weeds controlled.
 Use a nonionic surfactant containing at least 80% active ingredient.
 Dash[®] HC spray adjuvant may be substituted at 1 pt/A for the nonionic surfactant.
 Dash HC is recommended when weeds have been subjected to heat or moisture stress.
 UAN (Urea Ammonium Nitrate) is generally referred to as 28% to 32% nitrogen solution.
 AMS (Ammonium Sulfate) may be used at the rate of 17 lbs. per 100 gallons of spray solution.

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Basagran 5L - CORN AND SORGHUM

Directions for Use

Apply Basagran 5L when weeds are small and actively growing and before weeds reach the maximum size listed in the Application Rate Table for Corn and Sorghum. Such applications generally correspond to the crop growth stages of one to five leaves. Corn is tolerant to Basagran 5L at all stages of growth. Sorghum is tolerant to Basagran 5L at all stages of growth up to and including early boot stage. Very slight leaf-speckling of corn and

sorghum may occur but plants generally outgrow this condition within 10 days. Corn types include field, sweet and pop, and corn grown for seed or silage. Sorghum types include grain sorghum and forage sorghum.

Restrictions and Limitations

Do not apply more than a total of 3.2 pints per acre in one season in corn or 1.6 pints per acre in one season in sorghum.

Seed producers should consult the seed company regarding tolerance of seed production inbred lines to Basagran 5L.

Do not apply to sorghum that is heading or blooming.

Do not graze treated fields for at least 12 days after the last treatment with Basagran 5L.

California only: Not recommended for control of yellow nutsedge in corn or sorghum. Not for use on forage sorghum.

TABLE 13
Application Rates for Corn and Sorghum

WEED CONTROLLED	APPLICATION RATES FOR WEED GROWTH STAGES*			
	1.2 Pints/Acre		1.6 Pints/Acre	
	Leaf Stage	Maximum Height	Leaf Stage	Maximum Height
Beggarticks	Up to 6	6"	6-8	8"
Bristly Starbur	Up to 4	2"	4-6	3"
Cocklebur	2-6*	6"	3-10	10"
Common Lambsquarters*	---	---	4-8**	2"
Common Ragweed	---	---	4-6**	3"
Dayflower	Up to 6	4"	6-10	8"
Devilsclaw	---	---	Up to 6**	3"
Galinsoga	---	---	Cotyledon to 6**	2"
Giant Ragweed**	---	---	Up to 4	6"
Jimsonweed	Up to 6	6"	6-10	10"
Ladysthumb	Up to 6	6"	6-10	10"
Pennsylvania Smartweed	Up to 6	6"	6-10	10"
Prickly Sida or Tear Weed	Up to 6	3"	6-8	4"
Spurred Anoda	Up to 6	3"	6-8	4"
Tropic Croton	Up to 2	2"	2-4	4"
Velvetleaf***	Up to 4***	2"	4-6***	5"
Venice Mallow	Up to 6	2"	6-10	4"
Wild Buckwheat	Up to 4	3"	4-6	5"
Wild Mustard	Up to 6	4"	6-10	8"
Wild Sunflower	Up to 4	5"	4-6	8"

For additional weeds, see Special Directions section following.

- .. Do not treat later than leaf stage shown and do not count cotyledon leaves.
- .. Add oil concentrate according to section Addition of Oil Concentrate, page . Nitrogen solution may be substituted for oil concentrate for all weeds except common Lambsquarters, common Ragweed and Galinsoga. If Velvetleaf is present with weeds requiring oil concentrate, a Nitrogen solution plus Oil Concentrate may be used.
- * Control may be partial or inconsistent.
- ** If, after the first application, a second weed flush develops, re-treat according to this rate table (corn only).
- *** See section Addition of Nitrogen Solution (see page).

Special Directions for Other Weed Problems in Corn

Morningglories

South: (AL, AR, FL, GA, LA, MS, NC, OK, SC, TN, TX, VA) To control smallflower and cypressvine morningglories, apply either 1.2 pints of Basagran 5L per acre to plants not larger than 4 true leaves and 4 inches in height or length, or 1.6 pints of Basagran 5L per acre to plants not larger than 6 true leaves and 6 inches in length.

To control palmleaf, pitted, tall (common), entireleaf, ivyleaf and purple moonflower morningglories, apply 1.2 pints of Basagran 5L per acre to plants not larger than 4 true leaves and 4 inches in height (14 to 18 days after morningglory emergence). Make a second application at the same rate of 5 to 14 days later.

All states other than the South (see above): Apply 1.6 to 2.4 pints of Basagran 5L per acre to annual morningglories not larger than 4 true leaves. Control may be partial or inconsistent. Add oil concentrate to the spray solution of Basagran 5L/water.

Because morningglories grow very rapidly, it is important to watch the growth stage carefully and to be certain that Basagran 5L is applied to morningglories before they exceed the maximum size recommended on this label. Add oil concentrate to the spray solution of Basagran 5L/water for each application (see section Addition of Oil Concentrate).

Canada Thistle

Apply 1.6 pints of Basagran 5L per acre when plants are from 8 inches tall to the bud stage. Make a second application at the same rate 7 to 10 days later.

Yellow Nutsedge

Two applications are preferred for best results. Apply 1.2 to 1.6 pints of Basagran 5L per acre when plants are 6 to 8 inches tall. If needed, make a second application at the same rate 7 to 10 days later. Add oil concentrate to the spray solution of Basagran 5L/water for each application (see section Addition of Oil Concentrate).

Field and Hedge Bindweed

In KY, IL, IN, MI and OH only: For suppression of field hedge bindweed, apply 1.6 to 2.4 pints of Basagran 5L per acre when vines are a maximum of 10 inches long.

Add oil concentrate to the spray solution of Basagran 5L/water according to section Addition of Oil Concentrate.

Late Cocklebur Rescue Treatment

This treatment is intended to provide only partial control of cocklebur in the event early postemergence treatments were not made.

Thorough spray coverage is essential. Apply 1.6 to 2.4 pints of Basagran 5L per acre to plants up to 24 inches tall, or for best results, apply 1.2 pints of Basagran 5L per acre to plants up to 24 inches tall and repeat 10 to 14 days later. Add oil concentrate to spray solution according to directions in section entitled Addition of Oil Concentrate.

Special Directions for Other Weed Problems in Sorghum

Annual Morningglories

Apply 1.6 pints of Basagran 5L per acre to annual morningglories not larger than 4 true leaves. Control may be partial or inconsistent. Add oil concentrate to the spray solution of Basagran 5L/water, according to Addition of Oil Concentrate section.

Because morningglories grow very rapidly, it is important to watch the growth stage carefully and to be certain that Basagran 5L is applied to morningglories before they exceed the maximum size recommended (see page).

Canada Thistle

Apply 1.6 pints of Basagran 5L per acre when plants are from 8 inches tall to the bud stage. Control may be partial or inconsistent.

Yellow Nutsedge

Apply 1.2 to 1.6 pints of Basagran 5L per acre when plants are 6 to 8 inches tall. Add oil concentrate according to section Addition of Oil Concentrate. Control may be partial or inconsistent.

Basagran 5L + Atrazine Tank Mix CORN AND SORGHUM

General and Application Information, Restrictions and Limitations

General Information

The tank mix of Basagran 5L with atrazine effectively controls a broad spectrum of broadleaf weeds on the labeling of both products. For the control of annual morningglories, Canada thistle and yellow nutsedge, refer to the sections entitled Special Directions for Other Weed Problems in Corn and Sorghum.

Atrazine products compatible with Basagran 5L include AAtrex® 80 W, AAtrex® 4L, and AAtrex Nine-O® herbicides. Refer to the respective atrazine labels for additional directions and limitations. Always add nitrogen solution or oil concentrate according to the sections regarding addition of oil concentrate and addition of nitrogen solution.

Mixing and Spray Equipment

Use intake, in-line, or nozzle screens finer than 50 mesh. Fill tank of a thoroughly clean sprayer half to two-thirds full of clean water. Start agitation. Add atrazine and allow to wet and mix thoroughly. Maintain agitation and add Basagran 5L and nitrogen

solution, and/or oil concentrate; allow to mix. Dash HC may be substituted for oil concentrate. Last, add the remaining quantity of water and mix thoroughly. Maintain constant agitation during application. Avoid allowing the mixture to stand overnight. Clean sprayer immediately after use by flushing the system with water and a strong detergent. Do not allow cleaning water to contaminate streams or ponds.

Time and Rate of Application

Apply when weeds are small and actively growing and before weeds reach the maximum size listed in the Application Rate Table for Corn and Sorghum. Such applications generally correspond to the crop growth stages of one to five leaves.

Corn is tolerant to the tank mix at all stages of growth. Sorghum is tolerant to the tank mix at all stages of growth up to and including early boot stage.

Very light leaf speckling may occur in corn and sorghum, but plants generally outgrow this condition within 10 days.

Refer to the Conversion Table below for application rates depending on formulation. A cultivation may be necessary if all weeds are not controlled or if regrowth of weeds occurs.

Restrictions and Limitations for Tank Mix with Atrazine (Partial List)

Read and follow the restrictions and limitations on the labels for Basagran 5L and atrazine. The most restrictive labeling applies in tank mixes.

Do not use tank mix when crop is under stress from prolonged cold, wet weather, poor fertility, or other factors or when crop is wet and succulent from recent rainfall as crop injury may occur.

Seed producers should consult the seed company regarding tolerance of seed production inbred lines to tank mix.

Do not apply to sorghum that is heading out or blooming.

Do not make more than one application of tank mix per season.

Do not apply more than 3.2 pints of Basagran 5L per acre in one season in corn or 1.6 pints of Basagran 5L per acre in one season in sorghum.

Do not graze treated area or feed treated forage to livestock for 21 days following application (see label for atrazine).

Do not plant oats, sugar beets, or sunflowers the season following application in soil having a calcareous surface layer.

In the Intermountain Region of the United States, do not plant any other crop the year following application except corn or sorghum.

Do not apply this tank mix through any type of irrigation.

**Table 14
Acreage Conversion**

TANK MIX RATE RECOMMENDATION (lb. ai/A.) [*]	AMOUNT OF FORMULATED PRODUCT									
	BASAGRAN 5L	ATRAZINE (AATREX)								
	1 Acre	1 Acre			10 Acres			50 Acres		
	Pints	50W lbs	Misc-O lbs	4L pts	50W lbs	Misc-O lbs	4L pts	50W lbs	Misc-O lbs	4L pts
0.42 + 0.42	0.67	.525	.46	.64	5.25	4.6	8.4	26.25	23	42
0.5 + 0.5	0.8	.65	.58	1	6.25	5.6	10	31.25	30	50
0.75 + 0.75	1.2	.94	.83	1.5	9.4	8.3	15	46.8	41.5	75

^{*} According to weed growth stage indicated in table below.

**Table 15
Application Rates for Tank Mix of Basagran 5L + Atrazine - CORN and SORGHUM**

WEEDS CONTROLLED	APPLICATION RATES FOR WEED GROWTH STAGES [*]					
	0.42 + 0.42 lb. ai/A. [*]		0.5 + 0.5 lb. ai/A. [*]		0.75 + 0.75 lb. ai/A. [*]	
	Leaf Stages	Maximum Height	Leaf Stages	Maximum Height	Leaf Stages	Maximum Height
Beggerticks			Up to 4	1"	Up to 6	6"
Black Nightshade					Up to 4	1"
Bristly Starbur					Up to 4	2"
Burcucumber				2"		4"
Cocklebur	2-4 ^{**}	3"	2-10 ^{**}	8"	2-10 ^{**}	8"
Common Lambsquarters	2-6	2"	Up to 8	5"	8-12	8"
Common Ragweed			Up to 4 ^{***}	4"	1-7 ^{***}	5"
Dayflower					Up to 6	4"
Eastern Black Nightshade			Up to 4	1"	Up to 4	1"
Giant Ragweed			Up to 4	4"	Up to 6	6"
Jimsonweed	2-4	3"	Up to 5	6"	4-6	8"
Kochia				4"	6-10	4"
Ladythumb	2-6	4"	Up to 10	10"		12"
Morningglory, Annual			Up to 4	4"	10-14	6"
Morningglory, Smallflower			Up to 4	4"	4-6	6"
Pennsylvania Smartweed	2-6	4"	Up to 10	10"	4-6	12"
Prickly Side or Teaweed			Up to 4	2"	10-14	6"
Redroot Pigweed	2-4	2"	Up to 10	6"	Up to 10	4"
Smooth Pigweed	2-4	2"	Up to 10	6"	Up to 10	6"
Spurred Anoda					Up to 6	6"
Tall Waterhemp			Up to 8	2"	6-9	3"
Velvetleaf [†]	2-4	3"	Up to 8	8"	8-10	4"
Venice Mallow			Up to 8	4"	Up to 8	10"
Wild Buckwheat			Up to 4	3"	4-6	4"
Wild Mustard			Up to 6	4"	6-10	5"
Wild Sunflower			Up to 5	6"	4-6	8"

Other weeds: Other weeds listed on the label for Basagran 5L at the % pound rate will also be controlled with the % + % lb. Basagran 5L + atrazine tank mix. Refer to page .

- ^{*} Refer to Conversion Table for recommended rate of formulated product per acre. Add nitrogen solution or one pint of oil concentrate or one quart of Dash HC spray adjuvant for all weeds except common Ragweed. When common Ragweed predominates, use oil concentrate. See sections Addition of Solution or Addition of Oil Concentrate.
- ^{**} Do not treat earlier than leaf stage shown and do not count cotyledon leaves.
- ^{***} Add one quart per acre of oil concentrate, not nitrogen solution, when this weed predominates.
- [†] For velvetleaf, always add UAN solution instead of oil concentrate or Dash HC.

California Only: Not recommended for control of beggarticks, black nightshade, bristly starbur, burcucumber, dayflower, Kochia, prickly sida, spurred anoda.

California Only: Do not use Dash HC spray adjuvant

Basagran 5L - RICE

General and Application Information, Restrictions and Limitations

Directions for Use

(Not for Use in California)

Apply Basagran 5L early postemergence, before weeds exceed the maximum size listed in the Application Rate Table for Rice.

Early application produces the most beneficial effect on crop yields, allows use of the lower rate (depending on weed species), and makes it easier to obtain thorough spray coverage. Delay in application which permits weeds to exceed the maximum size for a given rate will result in inadequate control.

Basagran 5L has not adverse effect on rice when used according to directions and may be used on the first and second (ratoon) crops. If grasses are a problem, use propanil in tank mix with Basagran 5L (see below).

For optimal coverage when applying Basagran 5L by air in rice, orient all nozzles straight back. For additional arial application information, refer to Directions for Use.

Oil concentrate should be applied according to the directions in the section entitled Addition of Oil Concentrate. When tank mixing Basagran 5L with propanil, oil concentrate should not be included as crop injury may be enhanced. Alternate Flooding Culture: In Texas, Louisiana, Arkansas, and Mississippi, weed growth stages generally correspond to rice

that is tillering (stooling) and occur prior to the permanent flood. Application of Basagran 5L must be made when there is no water on the field and 24 hours or more prior to flooding. If Basagran 5L cannot be applied until after flooding see directions under Continuous Flooding Culture.

Continuous Flooding Culture: In states using continuous flooding culture or when treating after permanent flood, treatment should be made only when weeds are above the surface of the water. Weeds submerged at the time of application will result in inadequate control.

For early treatment, water may be partly or completely drained to expose more weed growth to spray applications of Basagran 5L. Do not raise water level for at least 24 hours after application or unsatisfactory control may result. Do not use ground equipment for applications of flooded fields because splashing will wash Basagran 5L off weed leaf surfaces and ineffective control may result.

Table 16
Application Rates for Rice - DRAINED FIELDS

WEEDS CONTROLLED (All States)	APPLICATION RATE FOR WEED GROWTH STAGES			
	1.2 Pints Per Acre*		1.6 Pints Per Acre*	
	Leaf Stage	Maximum Height	Leaf Stage	Maximum Height
Cocklebur	2-10	10"	10-15	15"
Dayflower	2-10	6"	10-15	10"
Duckweed	---	---	6-10**	6"
Gooseweed	4-6	4"	6-10	8"
Redstem	Up to 6	4"	6-10	8"
Redweed	4-6	6"	6-10	8"
Smartweed	2-10	6"	10-15	10"
Spikerush	2-6	6"	6-8	8"
Water Plantains				
Arrowhead	---	---	Up to 4	7"
Common Water Plantain	---	---	Up to 4	7"
Yellow Nutsedge	4-6	6"	6-8	10"

* If after the first application a second weed flush develops, re-treat according to this Rate Table.
 ** Control may be partial or inconsistent.

Table 17
Application Rates for Rice - FLOODED FIELDS

WEEDS CONTROLLED	APPLICATION RATES FOR WEED GROWTH STAGES			
	1.2 Pints Per Acre*		1.6 Pints Per Acre*	
	Maximum Height Above Soil	Minimum Height Range Above Water Level	Maximum Height Above Soil	Minimum Height Range Above Water Level
Cocklebur	10"	3 - 6"	15"	6 - 10"
Dayflower	6"	3 - 5"	10"	5 - 8"
Redstem	4"	2 - 3"	8"	4 - 6"
Smartweed	6"	2 - 5"	10"	5 - 8"
Water Plantains				
Arrowhead	---	---	7"	5" - 6"
Common Water Plantain	---	---	7"	5" - 6"
Yellow Nutsedge	6"	4" - 5"	10"	6" - 8"

* If after the first application a second weed flush develops, re-treat according to this Rate Table.

Restrictions and Limitations

Rice straw may be fed to livestock.

Do not apply Basagran 5L to rice with ground equipment when field is flooded because splashing will wash Basagran 5L off weed leaf surfaces and ineffective control may result.

Do not apply more than 4.8 pints of Basagran 5L per acre in one season. (Maximum of 3.7 pints per acre in first crop and 1.6 pints per acre in second [ratoon] crop.)

Do not use Basagran 5L on rice fields in which the commercial cultivation of catfish or crayfish is practiced.

Do not use water containing Basagran 5L residues from rice cultivation to irrigate crops used or food or feed unless Basagran 5L is registered for use on these crops.

Do not contaminate water when disposing of equipment wash water.

Tank Mix With Propanil

Use a tank mix of Basagran 5L + propanil by ground or air for the control of mixed populations of grasses, sedges and broadleaf weeds listed as susceptible on the two product labels. Prepare tank mix by adding Basagran 5L to half the final volume of water with agitator running. Then add propanil and bring mix to final volume. Agitation must be continuous from time of mixing through spraying.

Apply Basagran 5L at a rate up to 1.6 pints per acre per application. Do not apply more than 3.2 pints of Basagran 5L per acre on the first rice crop. Use up to 5 lbs. active ingredient (a.i.) of propanil for additional broadleaf weed control and grass control with Basagran 5L.

Apply this tank mix only to drained fields.

Restrictions and Limitations

Do not use propanil on second crop (ratoon) rice.

When applying tank mix of Basagran 5L/propanil by air, orient all nozzles straight back in accordance with the propanil label.

Observe all restrictions and limitations on the Basagran 5L and the propanil labels. In tank mixes the most restrictive labeling applies.

Do not use crop oil concentrate with this tank mix.

Add propanil to the tank mix of Basagran 5L based on active ingredient (ai) of formulation used.

*Propanil products compatible with Basagran 5L are Prostar® 4E (4 lbs ai/gal), STAM M-4 (4 lbs ai/gal) and STAM 80 EDF (0.8 lbs ai/lb).

Basagran 5L - PEANUTS

Directions for Use

Apply Basagran 5L when weeds are small and actively growing and before weeds reach the maximum size listed in table, Application Rates for Peanuts. Such applications may occur from peanut cracking through pegging.

Peanuts are tolerant to Basagran 5L at all stages of growth, but slight leaf-speckling may occur under certain conditions (see Restrictions and Limitations). Peanut plants generally outgrow this condition within 10 days.

Restrictions and Limitations

Do not apply Basagran 5L if peanuts show injury (leaf phytotoxicity and/or plant stunting) produced by any prior herbicide applications (preplant incorporated, preemergence, cracking and/or postemergence), because this injury may be enhanced and/or prolonged. In the Southeast, in-furrow treatments of insecticides/nematicides may predispose peanuts to injury from Basagran 5L.

Do not apply more than a total of 3.2 pints of Basagran 5L per acre in one season.

Peanut hay and forage may be fed to livestock.

Do not graze treated peanut fields for at least 50 days after the last Basagran 5L treatment.

Table 18
Application Rates for Peanuts

WEEDS CONTROLLED	APPLICATION RATES FOR WEED GROWTH STAGES*					
	0.8 Pint Per Acre**		1.2 Pints Per Acre		1.6 Pints Per Acre	
	Leaf Stage	Max. Height	Leaf Stage	Max. Height	Leaf Stage	Max. Height
Balloonvine	---	---	2 - 4	2"	4 - 6	3"
Beggarticks	---	---	Up to 6	6"	6 - 8	8"
Bristly Starbur	---	---	Up to 4	2"	4 - 6	3"
Cocklebur	2 - 4'	4"	2 - 6"	6"	6 - 10	10"
Coffee Senna	---	---	---	---	Up to 1"	2"
Common Ragweed	---	---	---	---	pinnate	---
Dayflower	---	---	---	---	4 - 6"	3"
Devilsclaw	---	---	Up to 6	4"	6 - 10	8"
Giant Ragweed*	---	---	---	---	Up to 6"	3"
Jimsonweed	---	---	---	---	Up to 4	6"
Ladysthumb	Up to 4	4"	Up to 6	6"	6 - 10	10"
Pennsylvania Smartweed	Up to 4	4"	Up to 6	6"	6 - 10	10"
Prickly Sida or Teaweed	---	---	Up to 6	3"	6 - 8	4"
Spurred Anoda	---	---	Up to 6	3"	6 - 8	4"
Tropic Croton	---	---	Up to 2	2"	2 - 4	4"
Velvetleaf	---	---	Up to 4	2"	4 - 6	5"
Wild Sunflower	---	---	Up to 4	5"	4 - 6	8"

For additional weeds, see Special Directions section following.

.. Do not treat earlier than leaf stage shown and do not count cotyledon leaves.
 .. Add oil concentrate according to section Addition of Oil Concentrate, page ..
 * If a second flush occurs, re-treat according to this rate table.
 ** Apply before weeds reach the maximum size or leaf stage indicated. If regrowth develops, reapply 0.8 pint seven to fourteen days after first application.

Special Directions for Other Weed Problems in Peanuts

Annual Morningglories

To control Smallflower and Cypressvine Morningglories, apply either 1.2 pints of Basagran 5L per acre to plants not larger than 4 true leaves and 4 inches in height, or 1.6 pints of Basagran 5L per acre to plants not larger than 6 true leaves and 6 inches in height.

To control palmleaf, pitted, common or entireleaf, purple moonflower and ivyleaf Morningglories, apply 1.2 pints of Basagran 5L per acre to plants not larger than 4 true leaves and 4 inches in height (14 to 18 days after morningglory emergence). Make second application at the same rate 5 to 14 days later.

Because morningglories grow very rapidly, it is important to watch the growth stage carefully and to be certain that Basagran 5L is applied to morningglories before they exceed the maximum size recommended (see page). Add oil concentrate to the spray solution of Basagran 5L/water for each application. (See Addition of Oil Concentrate)

Yellow Nutsedge

Two applications are preferred for best results. Apply 1.2 to 1.6 pints of Basagran 5L per acre when plants are 6 to 8 inches tall. In Texas and Oklahoma use 1.6 pints. If needed, make a second application at the same rate 7 to 10 days later. Add oil concentrate to the spray solution of Basagran 5L/water, according to the section Addition of Oil Concentrate, page .

Late Cocklebur

This treatment is intended to provide partial control of cocklebur in the event early postemergence treatments were not made. Very thorough spray coverage is essential. Apply 1.6 to 2.4 pints of Basagran 5L per acre to plants up to 24 inches tall, or for best results, apply 1.2 pints of Basagran 5L per acre to plants up to 24" tall and repeat 10 to 14 days later. Add oil concentrate according to the section Addition of Oil Concentrate.

Basagran 5L + 2,4-DB Tank Mix - PEANUTS

General and Application Information, Restrictions and Limitations

General Information

These directions are intended to provide the user of Basagran 5L with instructions for tank mixing with 2,4-DB (such as Butyrac 200 or Butoxone 200 herbicides) to control Entireleaf, tall (common), and ivyleaf Morningglories in addition to all other weeds listed in Table 1. Weeds must be actively growing and at recommended growth stages. Delay in application which permits weeds to exceed maximum size stated will result in inadequate control.

Water Volume and Spray Pressure

Refer to section entitled Directions for Use - ALL CROPS.

Ground Equipment

Refer to section entitled Directions for Use - ALL CROPS.

Mixing

Refer to Directions for Use - ALL CROPS.

Coverage

The tank mix is effective partly through contact action. Therefore, weeds must be thoroughly covered with spray. If applied to Morningglories larger than 10", control will be inadequate.

Large crop-and-weed leaf canopies shelter smaller weeds and prevent adequate spray coverage.

Peanuts are tolerant to the tank mix of Basagran 5L + 2,4-DB; however, under certain conditions peanuts may have a white, bleached appearance and the leaves may be slightly elongated.

Restrictions and Limitations for Tank Mix With 2,4-DB (Partial List)

Read and follow the restrictions and limitations on the labels for Basagran 5L and 2,4-DB. The most restrictive labeling applies in tank mixes.

Use only amine formulations of 2,4-DB.

Do not apply to or allow drift to any other adjacent crop.

Do not add oil or any other additives to tank mix.

Do not apply tank mix if peanuts show injury (leaf phytotoxicity and/or plant stunting) produced by any other prior herbicide treatment or by disease because this injury may be enhanced and/or prolonged.

Do not apply tank mix during prolonged periods of drought or during unseasonably cold weather, as unsatisfactory weed control may result.

Do not apply tank mix to peanuts that have been subject to stress conditions such as hail damage, flooding, drought, injury from other herbicides, or unseasonably cold or widely fluctuating temperatures because injury may result.

Do not apply more than 2 applications of the tank mix per season.

Do not apply within 30 days of harvest in Oklahoma, Texas and New Mexico or 45 days in the Virginia-Carolina area. (See label for 2,4-DB.)

Do not feed treated peanut vines and peanut hay to livestock. (See label for 2,4-DB.)

*Tank mix not applicable in California.

Table 19
Basagran 5L + 2,4-DB Tank Mix Additional Weed Control - PEANUTS
Rate and Time of Application

PRODUCT	RATE	WEEDS CONTROLLED/WEED SIZE		ADDITIVES
Basagran 5L	1.2 to 1.6 pints/A. According to weed species and size (see Table 1, page)	Apply Basagran 5L according to weed sizes in Table 1.		Do not add oil concentrate or any other additives (including UAN solution) to this tank mix.
2,4-DB (amine formulation)	8 fl. oz./A. of Butoxone 200 or Butyrac 200. (0.125 lb. a.e./A.)**	Morningglories: Ivyleaf Tall (Common) Entireleaf	Vines up to 10" long	
* Acid equivalent.				

Basagran 5L + Blazer Tank Mix - PEANUTS

General and Application Information, Restrictions and Limitations

General Information

The tank mixes of Basagran 5L + Blazer herbicides will control the weeds listed in Tables 3 and 4.

Table 20 - All States
 Basagran 5L: 0.8 pint/A.
 Blazer: 1 pint/A.

Table 21 - All States for additional weeds or larger sizes
 Basagran 5L: 1.2 - 1.6 pints/A.
 Blazer: 1 pint/A.

For Time of Application, Water Volume, Spray Pressure and Mixing directions refer to the Basagran 5L + Blazer tank mix for soybeans.

Restrictions and Limitations for Tank Mix with Blazer (Partial List)

Observe all applicable directions, restrictions and precautions on this label and the Blazer label. The most restrictive labeling applies in tank mixes.

Do not apply tank mix if peanuts show injury (leaf phytotoxicity and/or plant stunting) produced by any other prior herbicide treatment because this injury may be enhanced and/or prolonged.

Do not apply tank mix during prolonged periods of drought or during unseasonably cold weather, as unsatisfactory weed control may result.

Do not apply tank mix to peanuts that have been subject to stress conditions such as hail damage, flooding, drought, or unseasonably cold or widely fluctuating temperatures because injury may result.

Do not add a surfactant or oil concentrate except where specifically recommended.

*Tank mix not applicable in California.

Table 20
Basagran 5L + Blazer Tank Mix - PEANUTS
ALL STATES
Rate and Time of Application

PRODUCT	RATE	WEEDS CONTROLLED/WEED SIZE		ADDITIVE RATE	
			Leaf Stage		Maximum Height
Basagran 5L + Blazer	0.8 pint/A. + 1 pint/A.*	Black Nightshade	Up to 2	<2"	Oil Concentrate 1.25% v/v (2 pts/A maximum)
		Bristly Starbur	4-6	3"	
		Cocklebur	2-6	6"	
		Common Lambsquarters	4-6	2"	
		Common Ragweed*	4-6	3"	
		Crotalaria**	Up to 6	6"	
		Jimsonweed	Up to 6	6"	
		Morningglories*	Up to 2	2"	
		Pennsylvania Smartweed	Up to 6	6"	
		Prickly Sida (Teaweed)	Up to 4	2"	
		Redroot Pigweed	Up to 6	3"	
		Sesbania**	Up to 4	6"	
		Smooth Pigweed	Up to 6	3"	
		Spurred Anoda	Up to 4	2"	
Velvetleaf	Up to 4	2"			
Wild Mustard	Up to 6	4"			

*For common Ragweed up to 6" tall and 10 leaves, use 1.2 pints of Basagran 5L with 1 pint of Blazer.

**For common (tall) Morningglory, increase rate of Basagran 5L to 1.2 pints.

Blazer may also be included in the tank mix at a rate of up to 2 pints per acre; however, this will increase the severity and/or frequency with which peanut injury is observed.

For more consistent control, increase the Basagran 5L rate to 1.2 pints per acre.

**If crotalaria or sesbania are present, add Triton® AG-98 at the rate of ½ pint per 100 gallons of spray solution; but do not combine Triton AG-98 with oil concentrate.

Basagran 5L + Blazer + Poast Tank Mix - PEANUTS

General and Application Information, Restrictions and Limitations

General Information

Basagran 5L, Poast and Blazer herbicides may be tank mixed for postemergence control of broadleaf and grass weeds. Weeds must be actively growing and at the recommended growth stages. Refer to Tables 8 and 9, Rate and Time of Application.

Separate applications should be made if:

1) all weeds to be controlled are not at the correct growth stage for treatment at the same time, or 2) grasses to be controlled include rhizome johnsongrass, quackgrass, Bermudagrass, wirestem muhly, volunteer corn, shattercane, volunteer cereals, wild oats, red rice or itchgrass. See Table 10, Separate Applications.

Refer to the section Directions for Use - SOYBEANS for water volume and spray pressure, mixing and for early spot spray.

RESTRICTIONS AND LIMITATIONS

Read and follow the restrictions and limitations on the labels for Basagran 5L, Poast and Blazer herbicides. The most restrictive labeling applies in tank mixes.

Do not apply tank mix within 75 days of harvest. (See label for Poast.)

Do not graze treated peanut fields and do not feed treated peanut forage, ensilage or hay to livestock (see labels for Blazer and Poast).

Do not include UAN solution (or ammonium sulfate) when tank mixing Basagran 5L, Blazer and Poast.

*Tank mix not applicable in California.

**Table 21
Basagran 5L + Blazer Tank Mix - PEANUTS
All States (for additional weeds or larger weed sizes)
Rate and Time of Application**

PRODUCT	RATE*	WEEDS CONTROLLED / WEED SIZES		ADDITIVE RATE
Basagran 5L	1.2 to 1.6 pints/A. According to weed species and size (see Table 16, page)	Balloonvine Beggarticks Bristly Starbur Cocklebur Coffee Senna ^b Common Ragweed ^b Cypressvine Morningglory Dayflower Devilsclaw Giant Ragweed	Jimsonweed Ladysthumb Pennsylvania Smartweed Prickly Sida or Teaweed Smallflower Morningglory Spurred Anoda Tropic Croton Velvetleaf ^b Wild Sunflower Yellow Nutsedge ^b	Oil Concentrate ^b
			LEAF STAGE MAXIMUM HEIGHT	
Blazer	1 pint/A.	Common Ragweed ^b Black Nightshade Morningglories Crotalaria ^b Sesbania ^b Tall Waterhemp Redroot Pigweed Smooth Pigweed Citron	Up to 10 Up to 2 Up to 2 Up to 6 Up to 4 pinnate Up to 6 Up to 6 Up to 6 Up to 4	6" <2" 2" 6" 6" 3" 3" 3" 2"

* Choose the rate of Basagran 5L (1.2 or 1.6 pints per acre) according to the size and species of the weeds to be controlled with Basagran 5L alone (see Table 16, Application Rates for (Peanuts). Then add Blazer at the rate of 1 pint per acre, if needed to control the additional weed species, up to the maximum size, as shown in the Tank Mix Time of Application Table above. Blazer may also be included in the tank mix at a rate of up to 2 pints per acre; however, this will increase the severity and/or frequency with which peanut injury is observed.

^b Add oil concentrate to the tank mix according to recommendations in Table 16, "Application Rate Table for Peanuts", page . The addition of oil concentrate may increase the severity and frequency of peanut injury. If crotalaria or sesbania are present, add Triton AG-98 at the rate of 1/2 pint per 100 gallons of spray solution. But do not mix Triton AG-98 with oil concentrate.

Basagran 5L + Starfire Tank Mix - PEANUTS

The tank mix of Basagran 5L plus Starfire herbicide will also control certain weeds not controlled by Basagran 5L alone (see Table 20).

Since this tank mix is effective mainly through contact action, thorough coverage of weeds is essential for effective weed control. Large crop-and-weed leaf canopies shelter smaller weeds and prevent adequate spray coverage. Crop foliage present at application may bronze or crinkle, but the plants will soon outgrow these effects and develop normally.

Time and Rate of Application

The application rates and weed sizes for this tank mix are given in the Rate and Time Application Table. This tank mix should be applied at the ground crack stage of peanuts to control emerged annual grass and broadleaf weeds. A second application may be applied up to 28 days after ground crack stage. Do not make more than two applications of this tank mix to the same crop.

Apply the Basagran 5L + Starfire tank mix to weeds which are actively growing and before weeds reach the maximum size listed in the Application Recommendation Table.

Application to weeds which exceed the maximum size stated may result in inadequate control.

Spray Additives

Always add a nonionic surfactant containing at least 50% surface active agent at the rates listed in the Tank Mix Recommendation Table. Do not use crop oil concentrate or any other oil-based additive with this tank mix.

Water Volume and Spray Pressure

Use a minimum of 20 gallons of total spray mixture per acre (broadcast basis) and 30-50 psi pressure with standard high pressure hollow cone or flat fan nozzles spaced 20 inches apart. Use only ground equipment to apply this tank mix.

Mixing

Fill spray tank half full with water while the agitator is running and add the recommended amount of Basagran 5L, Starfire and nonionic surfactant. Then add the remaining quantity of water.

Restrictions and Limitations (Partial List)

Read and follow the restrictions and limitations on the labels for Basagran 5L and Starfire. The most restrictive labeling applies in tank mixes.

Do not apply tank mix if peanuts show injury (leaf phytotoxicity and/or plant stunting) produced by any other prior herbicide treatment because this injury may be enhanced and/or prolonged.

Do not apply tank mix during prolonged periods of drought or during unseasonably cold weather, as unsatisfactory weed control may result.

Do not apply tank mix to peanuts that have been subjected to stress conditions such as hail damage, flooding, drought, or unseasonably cold or widely fluctuating temperatures because injury may result.

Avoid drift to all other crops and non-target areas. Crops other than peanuts may be severely injured by drift.

*Tank mix not applicable in California.

TABLE 22
Basagran 5L + Starfire Tank Mix - PEANUTS
Rate and Time of Application

PRODUCT	PRODUCT RATE	WEEDS CONTROLLED	WEED GROWTH STAGES*		
			LEAF STAGE	MAX. HEIGHT	ADDITIVE
Basagran 5L	0.8 pint/A.	Balloonvine	2-4	2"	Use suitable nonionic surfactant at .125% v/v (1 pint/100 gallons) water or as directed on respective label.
		Beggarticks	Up to 6	6"	
		Bristly Starbur	Up to 4	2"	
		Cocklebur	2-6"	6"	
		Coffee Senna	(Up to 1 pinnate)	2"	
		Common Ragweed	Up to 6	3"	
		Jayflower	Up to 6	4"	
		Levilsclaw	Up to 6	3"	
		Giant Ragweed	Up to 4	6"	
		Jimsonweed	Up to 6	6"	
		Ladysthumb	Up to 6	6"	
		Pennsylvania Smartweed	Up to 6	6"	
		Prickly Sida/Teaweed	Up to 4	2"	
		Spurred Anoda	Up to 6	3"	
		Tropic Croton	Up to 2	2"	
Velvetleaf	Up to 4	2"			
Wild Sunflower	Up to 4	5"			
Starfire	0.69 pt/A (11 fl oz/A)	Crabgrass, Large	Up to 2	2"	
		Crabgrass, Smooth	Up to 2	2"	
		Florida Beggarweed	Up to 4	4"	
		Goosegrass	Up to 2	2"	
		Morningglories	Up to 6	4"	
		Redroot Pigweed	Up to 6	4"	
		Sicklepod	Up to 4	4"	
		Smooth Pigweed	Up to 6	4"	
		Smallflower Morningglories	Up to 4	3"	
		Tall Waterhemp	Up to 6	4"	
Texas Panicum	Up to 2	2"			

* Do not treat earlier than leaf stage shown and do not count cotyledon leaves.

Basagran 5L - BEANS (DRY OR SUCCULENT)

Directions for Use

Apply Basagran 5L early postemergence when weeds are small and actively growing and before weeds reach the maximum size listed in the Application Rate Table for Beans. Such weed growth stages generally correspond to bean stages of greater than one expanded trifoliate leaf.

Beans are tolerant to Basagran 5L after the first trifoliate leaf has fully expanded. Snap bean injury can be very pronounced. Even at the tolerant stages, yellowing, bronzing, speckling or burning of leaves may occur under certain conditions (see Restrictions and Limitations). This temporary injury is generally outgrown without delaying podset or maturity or reducing yield. The use of oil with Basagran 5L may increase injury and may reduce yields.

Tolerant bean types are adzuki, navy, pinto, pinks, Great Northern, kidney, red, white, cranberry, black turtle soup, small limas, large limas and snap beans.

California Only; Not recommended for use on adzuki beans.

Western Irrigated Areas

In the Western irrigated areas, it may be necessary to irrigate prior to treatment with Basagran 5L to ensure that weeds are growing actively. Weeds that are growing under moisture stress are not actively growing and are not satisfactorily controlled.

Avoid application of Basagran 5L during prolonged periods of cold weather (day temperature below 75 °F and night temperature below 55 °F for 2 to 5 days) because weed control may be nullified.

Restrictions and Limitations (Partial List)

Do not apply Basagran 5L to bean fields until beans have at least the first trifoliate leaf fully expanded because severe crop damage may occur.

Do not apply Basagran 5L to blackeyes grown in California or to garbanzo beans or lupines at any stage of growth, as severe crop damage may occur.

Do not apply more than a total of 3.2 pints of Basagran 5L per acre in one season.

Do not apply Basagran 5L to dry or succulent beans within 30 days of harvest.

Table 23
Application Rates for BEANS (DRY or SUCCULENT)

WEEDS CONTROLLED	APPLICATION RATES FOR WEED GROWTH STAGES					
	0.8 Pt. Per Acre*		1.2 Pts. Per Acre		1.6 Pts. Per Acre	
	Leaf Stage	Max. Height	Leaf Stage	Max. Height	Leaf Stage	Max. Height
Cocklebur (PNW)	2-4*	4"	2-6**	6"	6-10	10"
Common Lambsquarters*	Up to 4	1****	Up to 6	1.5****	4-8	2****
Common Purslane	---	---	Up to 4	1"	4-6	2"
Common Ragweed	---	---	---	---	4-6	3"
Devilsclaw	---	---	---	---	Up to 6***	3"
Galinsoga	---	---	---	---	cotyledon Up to 6***	2"
Giant Ragweed**	---	---	---	---	2-4	6"
Hairy Nightshade****	---	---	---	---	2-6	4"
Jimsonweed	---	---	Up to 6	6"	6-10	10"
Ladysthumb	---	---	Up to 6	6"	6-10	10"
Marshelder	---	---	Up to 4	2"	4-8	4"
Pennsylvania Smartweed	Up to 4	4"	Up to 6	4"	6-10	10"
Prickly Sida or Teaweed	---	---	Up to 6	3"	6-8	4"
Shepherdspurse***	---	---	Up to 6	4"	6-10	8"
Velvetleaf*	Up to 3	2"	Up to 4	2"	4-6***	5"
Venice Mallow	Up to 4	2"	Up to 6	2"	6-10	4"
Wild Mustard (PNW)	Up to 4	2"	Up to 6	4"	6-10	10"
Wild Sunflower	Up to 2	3"	Up to 4	5"	4-6	8"

- * See section Addition of Nitrogen Solution, Directions for Use - ALL CROPS.
- Apply before weeds reach the maximum size or leaf stage indicated. If regrowth develops, make a second application of 0.8 pint seven to fourteen days after the first application. This rate not applicable in California.
- ** Do not treat earlier than leaf stage shown and do not count cotyledon leaves.
- *** Add oil concentrate according to the Directions for Use - ALL CROPS.
- **** Basagran 5L does not adequately control black nightshade.
- + Control may be partial or inconsistent.
- ** If after the first application a second weed flush develops, re-treat according to this rate table.
- *** Do not treat rosette or before seed stalk appears.
- PNW See Special Directions for Pacific Northwest.

Special Directions for Other Weed Problems in Beans

Yellow Nutsedge

Two applications are preferred for best results. Apply 1.2 to 1.6 pints (except Pacific Northwest) of Basagran 5L per acre when plants are 6 to 8 inches tall. If needed, make a second application at the same rate 7 to 10 days later.

Add oil concentrate to the spray solution of Basagran 5L/water for each application according to the Direction for Use - ALL CROPS.

In California: Apply 1.6 pints of Basagran 5L per acre when plants are 6 to 8 inches tall. Make a second application at the same rate 10 to 14 days later. The use of oil concentrate with Basagran 5L may increase injury and may reduce yields.

Canada Thistle

Apply 1.6 pints of Basagran 5L per acre when plants are from 8 inches tall to the bud stage. Make a second application at the same rate 7 to 10 days later.

Field and Hedge Bindweed in KY, IL, IN, MI and OH Only

For suppression of field and hedge Bindweed, apply 1.6 to 2.4 pints of Basagran 5L per acre when vines are a maximum of 10 inches long. Add oil concentrate to the spray solution of Basagran 5L/water, according to the Directions for Use - ALL CROPS.

Pacific Northwest (ID, OR, WA)

For control of Cocklebur, Yellow Nutsedge and Wild Mustard, use only the 1.6 pint rate.

For Cocklebur and Wild Mustard, treat when plants are in the 2-10 leaf stage and a maximum height of 10 inches.

For Yellow Nutsedge, follow the directions indicated above using only the 1.6 pint rate.

Basagran 5L - PEAS (DRY OR SUCCULENT)

Directions for Use

Apply Basagran 5L herbicide early postemergence when weeds are small and actively growing and before weeds reach the maximum size listed in Table 22, Application Rates for Peas. Such weed growth stages generally correspond to pea stages of greater than 3 pairs of leaves (or 4 nodes).

Peas are tolerant to Basagran 5L after 3 pairs of leaves (or 4 nodes) are present. Pea injury can be very pronounced. Even at tolerant stages, yellowing, bronzing, speckling or burning of leaves may occur under certain conditions (see Restrictions and Limitations). This temporary injury is generally outgrown without delaying podset or maturity or reducing yield.

Tolerant pea types are garden peas, English peas and Southern peas.

Western Irrigated Areas

In the western irrigated areas, it may be necessary to irrigate prior to treatment with Basagran 5L to ensure weeds are growing actively. Weeds that are growing under moisture stress are not actively growing and are not satisfactorily controlled.

Avoid application of Basagran 5L during prolonged periods of cold weather (day temperature below 75°F and night temperature below 55°F for 2 to 5 days) because weed control may be nullified.

Restrictions and Limitations

Do not apply Basagran 5L to dry or succulent peas within 30 days of harvest.

Do not apply Basagran 5L to pea fields until peas have at least 3 pairs of leaves (or 4 nodes) because severe crop damage may occur.

Do not apply Basagran 5L to peas under stress from root rot.

In the Southeast, in-furrow treatments of insecticides/nematicides may possibly predispose the peas to injury from Basagran 5L.

Do not apply Basagran 5L to blackeyes grown in California or to garbanzo beans or to lupines at any stage of growth, as severe crop damage may occur.

Do not apply more than a total of 3.2 pints of Basagran 5L per acre in one season.

DO NOT ADD OIL TO BASAGRAN 5L FOR USE ON PEAS.

**Table 24
Application Rates for Peas (Dry or Succulent)**

WEEDS CONTROLLED	APPLICATION RATES FOR WEED GROWTH STAGES			
	1.2 Pints Per Acre		1.6 Pints Per Acre	
	Leaf Stage	Maximum Height	Leaf Stage	Maximum Height
Cocklebur (PNW)	2-4*	6"	6-10	10"
Common Purslane	Up to 4	1"	4-6	2"
Giant Ragweed*	---	---	2-4	6"
Hairy Nightshade**	---	---	2-6	4"
Jimsonweed	Up to 6	6"	6-10	10"
Ladythumb	Up to 6	6"	6-10	10"
Marshelder	Up to 4	2"	4-8	4"
Mayweed/Dogfennel (PNW)	---	2"	---	3"
Pennsylvania Smartweed	Up to 6	4"	6-10	10"
Prickly Side or Teaweed	Up to 6	3"	6-8	4"
Shepherdspurse**	Up to 6	4"	6-10	8"
Velvetleaf	Up to 4	2"	4-6	5"
Vernice Mallow	Up to 6	2"	6-10	4"
Wild Mustard (PNW)	Up to 6	4"	6-10	10"
Wild Sunflower	Up to 4	5"	4-6	8"

For additional weeds, see Special Directions section following.

- * See section Addition of nitrogen solution.
- Do not treat earlier than leaf stage shown and do not count cotyledon leaves.
- ** Basagran 5L does not adequately control Black Nightshade.
- If after the first application a second weed flush develops, re-treat according to this rate table.
- Do not treat rosette or before seed stalk appears.
- PNW See special directions for Pacific Northwest.

Special Directions for Other Weed Problems in Peas

Canada Thistle
Apply 1.6 pints of Basagran 5L per acre when plants are from 8 inches tall to bud stage. Make a second application at the same rate 7 to 10 days later.

Pacific Northwest (ID, OR, WA)
For control of Cocklebur and Wild Mustard, use only the 1.6 pint rate when plants are in the 2 to 10 leaf stage and a maximum height of 10 inches.

Basagran 5L + Thistrol Tank Mix

FOR POSTEMERGENCE APPLICATION IN PEAS

For use in ME, NH, VT, MA, CT, RI, NY, PA, NJ, VA, MD, DE, WA, ID and OR

General Information

The tank mix of Basagran 5L herbicide plus Thistrol® herbicide will control certain weeds not controlled by Basagran 5L alone (see Table 23).

Since this tank mix is effective mainly through contact action, thorough coverage of weeds is essential for effective weed control. Large crop-and-weed leaf canopies shelter smaller weeds and prevent adequate spray coverage. Crop foliage present at application may be injured in the form of yellowing, bronzing, speckling, and/or twisting, but plants usually outgrow this temporary injury and develop normally.

Time and Rate of Application

Application rates and weed sizes for this tank mix are given in Table 23. This tank mix should be applied after the three leaf stage (four node stage) of peas, but not later than three nodes before pea flowering.

Apply the tank mix of Basagran 5L plus Thistrol to weeds that are actively growing and before weeds reach the maximum size listed.

Application to weeds that exceed the maximum size stated may result in inadequate control.

Notice to User

Due to variability among pea cultivars and in application techniques, neither the manufacturers nor the sellers have determined whether or not the tank mix of Basagran 5L + Thistrol can be safely used on all pea crops under all conditions. It is therefore recommended that the user determine if the tank mix of Basagran 5L + Thistrol can be used safely prior to broad use.

Spray Additives

Do not use crop oil concentrate, other oil-based additives, or any other spray additives or surfactants with this tank mix.

Water Volume and Spray Pressure

Use a spray volume of 20-40 gallons of total spray mixture per acre (broadcast basis) and a maximum of 40 psi pressure with standard high pressure hollow cone or flat fan nozzles spaced 20 inches apart. Use only ground equipment to apply this tank mix.

Mixing

Fill the spray tank full with water and while the agitator is running, add the recommended amount of Basagran 5L and Thistrol. Then add the remaining quantity of water.

Restrictions and Limitations (Partial List)

Read and follow the restrictions and limitations on the Thistrol label. The most restrictive labeling applies in tank mixes.

Do not apply tank mix if peas show injury (leaf phytotoxicity and/or plant stunting) produced by any other prior herbicide treatment because this injury may be enhanced and/or prolonged.

Do not feed treated peas, vines or hay to livestock.

Do not apply tank mix during prolonged periods of drought or during unseasonably cold weather, as unsatisfactory weed control may result.

Do not apply tank mix to peas that have been subjected to stress conditions such as root rot, hail damage, flooding, drought, or unseasonably cold or widely fluctuating temperatures because injury may result.

Do not apply the tank mix to peas when temperatures exceed 90 °F.

Do not apply the tank mix to peas after pea flower buds appear.

Avoid drift to all other crops and nontarget areas. Crops other than peas may be severely injured by drift. Cotton, beans, grapes, tomatoes, and ornamentals are particularly sensitive to Thistrol.

Table 25
Application Rates for Tank Mix of Basagran 5L + Thistrol - PEAS

WEEDS CONTROLLED	Basagran 5L (0.8 Pt./A.) + THISTROL (2 Pts./A.)		Basagran 5L (1.2 Pts./A.) + THISTROL (3 Pts./A.)	
	Maximum Leaf Stage	Maximum Height	Maximum Leaf Stage	Maximum Height
Canada Thistle*	---	---	10 to bud	---
Cocklebur**	---	---	6	6"
Common Lambsquarters*	4	2"	8	3"
Common Purslane	4	1"	6	2"
Common Ragweed	---	---	6	3"
Field Pepperweed**	6	4"	10	8"
Giant Ragweed*	---	---	4	6"
Henbit*	---	---	4	2"
Jimsonweed	4	4"	6	6"
Ladysthumb	6	6"	10	10"
Marshelder	---	---	4	2"
Pashenik	---	5"	---	5"
Pennsylvania Smartweed	6	4"	8	6"
Pigweed	5	2"	8	6"
Prickly Sida or Teaweed	6	3"	8	4"
Shepherdspurse**	6	4"	10	8"
Velvetleaf*	---	---	4	2"
Wild Mustard	6	4"	10	10"
Wild Radish	6	4"	10	10"
Wild Sunflower	---	---	4	5"

*Follow treatment with a sequential application of Basagran 5L (1.6 pints/acre) at 7 to 10 days after tank mix treatment as needed.
 **Do not treat earlier than 2-leaf stage and do not count cotyledon leaves.
 *Control may be partial or inconsistent.
 **Do not treat until seed stalk appears.

Special Directions for the Pacific Northwest (PNW) - PEAS (DRY OR SUCCULENT)

Addition of Oil Concentrate to Spray Tank

A nonphytotoxic oil concentrate (commonly referred to as oil concentrate) may 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, and
- 4) be successful in local experience.

Additional information may be found in the section entitled Addition of Oil Concentrate.

Temperature Considerations

Crop and weeds must be actively growing. Basagran 5L may be applied during periods of cold weather (day temperatures below 75 °F and night temperatures below 55 °F) provided crop and weeds are actively growing. Do not apply Basagran 5L with oil concentrate when temperature exceeds 80 °F, as excessive leaf burn may occur.

Restrictions and Limitations (Partial List)

Do not apply Basagran 5L to dry or succulent peas within 30 days of harvest.

Do not apply Basagran 5L to pea fields until peas have at least 3 pairs of leaves (or 4 nodes) because severe crop damage may occur.

Do not apply Basagran 5L to peas under stress from root rot.

Do not apply Basagran 5L to blackeyes grown in California, garbanzo beans or chick peas, or to lupines at any stage of growth, as severe crop damage may occur.

Do not apply more than a total of 3.2 pints of Basagran 5L per acre in one season.

Do not add oil to Basagran 5L for use on peas except as directed for use in the Pacific Northwest (PNW).

Do not apply Basagran 5L with oil concentrate when temperatures exceed 80 °F.

Do not apply oil concentrate with Basagran 5L plus MCPA tank mix.

Table 26 Application Rates for Pacific Northwest - PEAS (DRY OR SUCCULENT)

WEEDS CONTROLLED	APPLICATION RATES FOR WEED GROWTH STAGES					
	0.8 Pts./A.		1.2 Pts./A.		1.6 Pts./A.	
	Leaf Stage	Maximum Height	Leaf Stage	Maximum Height	Leaf Stage	Maximum Height
Cocklebur	---	---	---	---	2-10	10"
Common Lambsquarters	2-4	1"	4-6	1.5"	4-8	2"
Common Purslane	---	---	2-4	1"	4-6	2"
Giant Ragweed**	---	---	---	---	2-4	6"
Hairy Nightshade**	---	---	---	---	2-6	4"
Jimsonweed	---	---	2-6	6"	6-10	10"
Ladysthumb	---	---	2-6	6"	6-10	10"
Marshelder	---	---	2-4	2"	4-8	4"
Mayweed/Dog Fennel	---	2"	---	3"	---	4"
Pashnik	---	---	---	5"	---	5"
Pennsylvania Smartweed	---	---	2-6	4"	6-10	10"
Prickly Side or Teaweed	---	---	2-6	3"	6-8	4"
Shepherdspurse	---	---	2-6	4"	6-10	8"
Vernice Mallow	---	---	2-6	2"	6-10	4"
Volunteer Radish	---	---	2-6	4"	6-10	10"
Volunteer Sugar Beets	---	---	2-4	---	4-8	---
Wild Mustard	2-4	2"	4-6	4"	6-10	10"
Wild Sunflower*	1-2	3"	2-4	5"	4-6	8"

* Control requires the addition of 1-2 pints per acre of oil concentrate (2 pints maximum per acre).
 * Basagran 5L does not adequately control Black Nightshade.
 ** If second weed flush occurs, re-treat according to this table.

Table 27 Application Rates for PNW Peas (Succulent Only) Basagran 5L Tank Mix with MCPA (0.125 To 0.25 lbs AE/A)

WEEDS CONTROLLED	RATE OF BASAGRAN 5L*			
	1.2 Pts/A		1.6 Pts/A	
	Leaf Stage	Maximum Height	Leaf Stage	Maximum Height
Figweeds	2-4	1"	4-8	2"
Common Lambsquarters	2-4	1"	4-8	2"

* Do not apply oil concentrate with Basagran 5L plus MCPA tank mix.

Established Peppermint and Spearmint

Directions for Use

Apply Basagran 5L early postemergence when weeds are small and actively growing and before weeds reach maximum size listed in Table 26 Application Rates for Peppermint and Spearmint.

Peppermint and spearmint are tolerant to Basagran 5L; however, some leaf-burning may occur under certain conditions, such as when plants are growing very actively and have extensive new, succulent tissue. Mint plants generally outgrow this condition within 10 days.

Irrigated Areas

In irrigated areas it may be necessary to irrigate prior to

treatment with Basagran 5L to ensure that weeds are growing actively. Weeds growing under drought conditions or unseasonably cold weather usually are not satisfactorily controlled.

Restrictions and Limitations

Do not apply more than a total of 6.4 pints of Basagran 5L per acre in one season.

**Table 28
Application Rates for Peppermint and Spearmint**

WEEDS CONTROLLED	1.6 Pints Per Acre		3.2 Pints Per Acre	
	Leaf Stage	Maximum Height	Leaf Stage	Maximum Height
Common Lambsquarters*	4-8**	2"	---	---
Common Ragweed	4-6**	3"	---	---
Hairy Nightshade***	2-6	4"	6-10	6"
Kochia	NA	2***	NA	4***
Ladysthumb	6-10	10"	---	---
Pennsylvania Smartweed	6-10	10"	---	---
Wild Mustard	6-10	8"	---	---

For additional weeds see Special Directions section following.

* Control may be partial or inconsistent.
 ** Add oil concentrate according to the Directions for Use - all crops.
 *** Basagran 5L does not adequately control Black Nightshade.
 NA Not Applicable.

Special Directions for Other Weed Problems in Peppermint and Spearmint

Yellow Nutsedge

Apply 1.6 pints of Basagran 5L per acre when plants are 6 to 8 inches tall. Make a second application at the same rate 7 to 10 days later. Add oil concentrate to the spray solution of Basagran 5L/water for each application according to the Directions for Use - all crops.

Canada Thistle

Apply 3.2 pints of Basagran 5L per acre when plants are from 8 inches tall to the bud stage. Make a second application at the same rate 7 to 10 days later.

Common Groundsel

Apply 1.6 to 2.4 pints of Basagran 5L per acre when plants are less than 3 inches tall. Add oil concentrate to the spray solution of Basagran 5L/water, according to the Directions for Use - all crops.

Appendix for Broadleaf Weeds

The following are scientific names for the weeds listed in this section. For specific recommendations on control of these weeds, refer to the major crop and/or tank mix sections.

COMMON NAME	SCIENTIFIC NAME
Arrowhead	<i>Sagittaria</i> spp.
Balloonvine	<i>Cardiospermum halicacabum</i>
Beggarticks	<i>Bidens frondosa</i>
Bindweed, Field	<i>Convolvulus arvensis</i>
Bindweed, Hedge	<i>Convolvulus sepium</i>
Bristly Starbur	<i>Acanthospermum hispidum</i>
Burdock	<i>Sigys angulatus</i>
Butterprint (see Velvetleaf)	
Buttonweed (see Velvetleaf)	
Canada Thistle	<i>Cirsium arvense</i>
Citron (Wild Watermelon)	<i>Citrullus vulgaris</i>
Cocklebur	<i>Xanthium strumarium</i>
Coffee Senna	<i>Cassia occidentalis</i>
Common Chickweed	<i>Stellaria media</i>
Common Lambsquarters	<i>Chenopodium album</i>
Common Purslane	<i>Portulaca oleracea</i>
Crotalaria	<i>Crotalaria spectabilis</i>
Dandelion	<i>Taraxacum officinale</i>
Dayflower	<i>Commelina</i> spp.
Devilsclaw	<i>Proboscidea louisianica</i>
Ducksalad	<i>Heteranthera limosa</i>
Eastern Black Nightshade	<i>Solanum ptycanthum</i>
Florida Beggarweed	<i>esmodium tortuosum</i>
Florida Pusley	<i>Richardia scabra</i>
Galinsoga	<i>Galinsoga</i> spp.
Goldenrod, Western	<i>Solidago occidentalis</i>
Gooseweed	<i>Sphenoclea zeylanica</i>
Groundsel, Common	<i>Senecio vulgaris</i>
Jimsonweed	<i>Datura stramonium</i>
Kochia	<i>Kochia scoparia</i>
Ladysthumb	<i>Polygonum persicaria</i>

Appendix Cont'd.

COMMON NAME	SCIENTIFIC NAME
Marshelder	<i>Iva xanthiifolia</i>
Mayweed/Dogfennel	<i>Anthemis cotula</i>
Musk Thistle	<i>Carduus nutans</i>
Morningglory, Tall (Common)	<i>Ipomoea purpurea</i>
Morningglory, Cypressvine	<i>Ipomoea quamoclit</i>
Morningglory, Entireleaf	<i>Ipomoea hederacea</i> var. <i>intergruscula</i>
Morningglory, Ivyleaf	<i>Ipomoea hederacea</i>
Morningglory, Palmleaf	<i>Ipomoea wrightii</i>
Morningglory, Pitted	<i>Ipomoea lacunosa</i>
Morningglory, Purple Moonflower	<i>Ipomoea muricata</i>
Morningglory, Smallflower	<i>Jacquemontia tamnifolia</i>
Mouse-ear Chickweed	<i>Cerastium vulgatum</i>
Nightshade, Black	<i>Solanum nigrum</i>
Nightshade, Hairy	<i>Solanum sarachoides</i>
Pennsylvania Smartweed	<i>Polygonum pensylvanicum</i>
Pigweed, Redroot	<i>Amaranthus retroflexus</i>
Pigweed, Smooth	<i>Amaranthus hybridus</i>
Plantain	<i>Plantago spp.</i>
Prickly Sida or Teaweed	<i>Sida spinosa</i>
Ragweed, Common	<i>Ambrosia artemisiifolia</i>
Ragweed, Giant	<i>Ambrosia trifida</i>
Redstem	<i>Ammannia spp.</i>
Redweed	<i>Melochia corchorifolia</i>
Sesbania	<i>Sesbania exaltata</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Sicklepod	<i>Cassia obtusifolia</i>
Spurge	<i>Euphorbia maculata</i>
Spurred Anoda	<i>Anoda caristata</i>
Tropic Croton	<i>Croton glandulosus</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Venice Mallow	<i>Hibiscus trionum</i>
Waterhemp, Tall	<i>Amaranthus tuberculatus</i>
Waterplantain, Common	<i>Alisma triviale</i>
Wild Buckwheat	<i>Polygonum convolvulus</i>
Wild Mustard	<i>Sinapsis arvensis</i>
Wild Poinsettia	<i>Euphorbia heterophylla</i>
Wild Sunflower	<i>Helianthus annuus</i>

COMMON NAME	SCIENTIFIC NAME
Annual Sedges	<i>Cyperus spp.</i>
Bulrush, River	<i>Scirpus fluviatilis</i>
Bulrush, Roughseed	<i>Scirpus mucronatus</i>
Spikerush	<i>Eleocharis macrostachya</i>
Umbrellaplant, Smallflower	<i>Cyperus difformis</i>
Yellow Nutsedge	<i>Cyperus esculentus</i>

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