

*Sale, use and distribution of this product in Nassau and Suffolk Counties in the State of New York is prohibited.*

GROUP 15 HERBICIDE



## **Herbicide**

*For weed control in corn; cotton; grasses grown for seed; horseradish; peanuts; beans, peas, and lentils; potatoes; pumpkin; rhubarb; safflowers; sugar beets; sunflowers; sweet, grain or forage sorghum; soybean; soybean, immature seed; and tomatoes*

Active Ingredient:	
S-metolachlor (CAS No. 87392-12-9) .....	83.7%
Other Ingredients:	16.3%
Total:	100.0%

*Brawl is formulated as an Emulsifiable Concentrate (EC).*

*Brawl contains 7.62 lb of active ingredient per gallon.*

**KEEP OUT OF REACH OF CHILDREN.**

## **CAUTION**

*See additional precautionary statements and directions for use inside booklet.*

*EPA Reg. No. 100-816-55467 EPA Est. 070989-IA-001*

*Product of Switzerland  
Formulated in the USA*

**SCPSR-TEN 816A-L1V 0814  
4045906**

# **2.5 gallons**

**Net Contents**

SPECIMEN

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

#### CAUTION

Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing. May cause skin sensitization reactions in certain individuals.

#### FIRST AID

<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Do not give any liquid to the person.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>

Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment.

#### HOT LINE NUMBER

For 24 Hour Medical Emergency Assistance (Human or Animal)  
Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident),  
Call Chemtrec at  
**1-800-424-9300**

### Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or Viton®
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### Engineering Control Statements

Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)]. When using the closed system, the mixers' and loaders' PPE requirements may be reduced or modified as specified in the WPS.

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

*continued...*

## PRECAUTIONARY STATEMENTS (*continued*)

### User Safety Recommendations

#### Users should:

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

### Environmental Hazards

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

### Ground Water Advisory

The active ingredient in Brawl has the potential to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

### Surface Water Advisory

The active ingredient in Brawl has the potential to contaminate surface water through ground spray drift. Under some conditions, the active ingredient may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

### Mixing/Loading Instructions

Care must be taken when using this product to prevent back-siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates.

Check-valves or antisiphoning devices must be used on all mixing and/or irrigation equipment.

This product may not be mixed or loaded within 50 ft of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be mixed/loaded or used within 50 ft of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site.

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of TENKOZ, Inc. or Seller. To the extent consistent with applicable law, Buyer and User agree to hold TENKOZ, Inc. and Seller harmless for any claims relating to such factors.

TENKOZ, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent consistent with applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or TENKOZ, Inc., and, (2) Buyer and User assume the risk of any such use. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, TENKOZ, Inc. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent consistent with applicable law, in no event shall TENKOZ, Inc. be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF TENKOZ, Inc. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF TENKOZ OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

TENKOZ, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of TENKOZ, Inc.

## DIRECTIONS FOR USE

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

Brawl must be used only in accordance with directions on this label or in separately published EPA accepted supplemental labeling for this product.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## AGRICULTURAL USE REQUIREMENTS

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

*continued...*

## AGRICULTURAL USE REQUIREMENTS *(continued)*

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.** Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate or Viton
- Shoes plus socks

### **FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.**

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.

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## PRODUCT INFORMATION

Observe all precautions and limitations on the labels of each product used in tank mixtures. Tank mixtures are permitted only in those states where the tank mix partner is registered. Refer to and follow the label for each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

Brawl is a selective herbicide that can be applied as a preplant surface-applied, preplant incorporated, preemergence, or postemergence treatment for control of most annual grasses and certain broadleaf weeds in corn (all types); cotton; grasses grown for seed; peanuts; beans, peas, and lentils; potatoes; safflowers; sugar beets; sunflowers; grain or forage sorghum; soybeans; soybean, immature seed; and tomatoes.

**Use Site Restrictions:** Do not use in nurseries, turf, or landscape plantings.

Do not apply under conditions which favor runoff or wind erosion of soil containing this product to nontarget areas.

To prevent off-site movement due to runoff or wind erosion:

- Avoid treating powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, settle the soil surface first by rainfall or irrigation.
- Do not apply to impervious substrates, such as paved or highly compacted surfaces.
- Do not use tailwater from the first flood or furrow irrigation of treated fields to treat nontarget crops, unless at least  $\frac{1}{2}$  inch of rainfall has occurred between application and the first irrigation.

Where directions specify a Brawl tank mixture with AAtrex® formulations, other brands of atrazine may be used. Follow all use rates and other use restrictions on the AAtrex or respective atrazine product label if other brands of atrazine are used.

**Note:** Certain states may have established rate limitations for atrazine within specific geographical areas. Consult your state lead pesticide control agency for additional information. It is a violation of this label to deviate from state use regulations.

**Precaution:** *Injury may occur following the use of Brawl under abnormally high soil moisture conditions during early development of the crop.*

## SOIL TEXTURES AND HERBICIDE RATES

Where rates are based on coarse-, medium-, or fine-textured soils, it is understood that soil textural classes are generally categorized as follows:

Coarse	Medium	Fine
Sand	Loam	Sandy clay loam
Loamy sand	Silt loam	Silty clay loam
Sandy loam	Silt	Clay loam
		Sandy clay
		Silty clay
		Clay

Within rate ranges in the rate tables and elsewhere on this label, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter.

Brawl may be applied preemergence alone, or in combination with tank mix partners specified on this label, following preplant incorporated herbicides when used according to their label use directions and restrictions, provided that such use is not prohibited on the respective labels.

Thoroughly clean sprayer or other application device before using. Dispose of cleaning solution in a responsible manner. Do not use a sprayer or applicator contaminated with any other materials, or crop damage or clogging of the application device may result.

### BRAWL APPLIED ALONE

#### WEEDS CONTROLLED

Brawl is taken up by the shoots and/or roots of emerging weeds. This uptake results in the inhibition of shoot and root tissue growth soon after weed germination. Because of this, Brawl will not control emerged weeds. Control weeds that are present by another means, e.g., mechanical means or by another herbicide.

If Brawl is incorporated, do not exceed a 2-3 inch depth. Any tillage after the Brawl incorporation and before planting may not exceed 2-3 inches, or the depth of incorporation.

Dry weather following application of Brawl may reduce weed control. Cultivate if weeds develop.

Where reference is made to weeds partially controlled, partial control can either mean erratic control from good to poor, or consistent control at a level below that generally considered acceptable for commercial weed control. Control of these weeds can be erratic, due partially to variable weather conditions. The following procedures may improve the control of weeds listed as partially controlled in Table 1:

- Thoroughly till soil to destroy germinating and emerged weeds.
- Plant crop into moist soil immediately after tillage. If Brawl is to be used preemergence, apply at planting or immediately after planting.
- If available, sprinkler irrigate within 2 days after application. Apply  $1/2$ -1 inch of water. Use lower water volume ( $1/2$  inch) on *coarse-textured soils* and higher volume (1 inch) on *fine-textured soils*. Also, refer to the section on **Center Pivot Irrigation Application** for this method of applying Brawl.
- If irrigation is not possible and rain does not occur within 2 days after planting and application, weed control may be decreased. Under these conditions, make a uniform, shallow cultivation as soon as weeds emerge.

**Table 1: Weeds Controlled or Partially Controlled by Brawl Applied Prior to Weed Emergence**

Common Name	Scientific Name	Weed Type	Control (C) or Partial Control (PC)
Barnyardgrass	<i>Echinochloa crus-galli</i>	Grass	C
Crabgrass, large	<i>Digitaria ischaemum</i>	Grass	C
Crabgrass, smooth	<i>Digitaria sanguinalis</i>	Grass	C
Crowfootgrass	<i>Dactyloctenium aegyptium</i>	Grass	C
Cupgrass, Prairie	<i>Eriochloa contracta</i>	Grass	C
Cupgrass, Southwestern	<i>Eriochloa acuminata</i>	Grass	C
Cupgrass, woolly	<i>Eriochloa villosa</i>	Grass	PC <sup>1</sup>
Foxtail, bristly	<i>Setaria verticillata</i>	Grass	C
Foxtail, giant	<i>Setaria faberi</i>	Grass	C
Foxtail, green	<i>Setaria viridis</i>	Grass	C
Foxtail, millet	<i>Setaria italica</i>	Grass	C
Foxtail, yellow	<i>Setaria pumila</i>	Grass	C
Goosegrass	<i>Eleusine indica</i>	Grass	C
Johnsongrass (seedling)	<i>Sorghum halepense</i>	Grass	PC
Millet, wild-proso	<i>Panicum miliaceum</i>	Grass	PC <sup>1</sup>
Panicum, fall	<i>Panicum dichotomiflorum</i>	Grass	C
Panicum, Texas	<i>Panicum texanum</i>	Grass	PC
Rice, red	<i>Oryza punctata</i>	Grass	C
Sandbur, field	<i>Cenchrus spinifex</i>	Grass	PC
Ryegrass, Italian	<i>Lolium multiflorum</i>	Grass	C
Sandbur, Southern	<i>Cenchrus echinatus</i>	Grass	PC
Shattercane	<i>Sorghum bicolor</i>	Grass	PC
Signalgrass, broadleaf	<i>Urochloa platyphylla</i>	Grass	C
Sorghum (volunteer)	<i>Sorghum bicolor</i>	Grass	PC
Witchgrass	<i>Panicum capillare</i>	Grass	C
Amaranth, Palmer	<i>Amaranthus palmeri</i>	Broadleaf	C
Amaranth, Powell	<i>Amaranthus powellii</i>	Broadleaf	C
Beggarweed, Florida	<i>Desmodium tortuosum</i>	Broadleaf	PC
Carpeweed	<i>Mollugo verticillata</i>	Broadleaf	C
Eclipta	<i>Eclipta prostrata</i>	Broadleaf	PC
Galinsoga, hairy	<i>Galinsoga quadriradiata</i>	Broadleaf	C
Galinsoga, smallflower	<i>Galinsoga parviflora</i>	Broadleaf	C
Nightshade, Eastern black	<i>Solanum ptychanthum</i>	Broadleaf	C
Nightshade, hairy	<i>Solanum physalifolium</i>	Broadleaf	PC
Pigweed, prostrate	<i>Amaranthus blitoides</i>	Broadleaf	C



Common Name	Scientific Name	Weed Type	Control (C) or Partial Control (PC)
Pigweed, redroot	<i>Amaranthus retroflexus</i>	Broadleaf	C
Pigweed, smooth	<i>Amaranthus hybridus</i>	Broadleaf	C
Pigweed, tumble	<i>Amaranthus albus</i>	Broadleaf	C
Purslane, common	<i>Portulaca oleracea</i>	Broadleaf	PC
Pusley, Florida	<i>Richardia scabra</i>	Broadleaf	C
Spiderwort, tropical	<i>Commelina benghalensis</i>	Broadleaf	C
Waterhemp, common	<i>Amaranthus rudis</i>	Broadleaf	C
Waterhemp, tall	<i>Amaranthus tuberculatus</i>	Broadleaf	C
Nutsedge, yellow	<i>Cyperus esculentus</i>	Sedge	C

<sup>1</sup> Refer to the corn section of this label for additional use directions.

### Weed Resistance Management

S-metolachlor, the active ingredient in this product, is a Group 15 herbicide based on the mode of action classification system of the Weed Science Society of America. Any weed population may contain plants naturally resistant to Group 15 herbicides. Such resistant weed plants may not be effectively managed using Group 15 herbicides but may be effectively managed utilizing another herbicide alone or in mixtures from a different group and/or by using cultural or mechanical practices. However, a herbicide mode of action classification by itself may not adequately address specific weeds that are resistant to specific herbicides. Consult your local company representative, state cooperative extension service, professional consultants or other qualified authorities to determine appropriate actions for treating specific resistant weeds.

### Best Management Practices

Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is recommended. A diversified weed management program may include the use of multiple herbicides with different modes of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistance. Scouting after a herbicide application is important because it can facilitate the early identification of weed shifts and/or weed resistance and thus provide direction on future weed management practices. One of the best ways to contain resistant populations is to implement measures to avoid allowing weeds to reproduce by seed or to proliferate vegetatively. Cleaning equipment between sites and avoiding movement of plant material between sites will greatly aid in retarding the spread of resistant weed seed.

### PREPLANT AND ROTATIONAL CROPS SECTION

#### Replanted Crop Directions:

This section covers replant crops that may be planted following a lost crop that has had an application of Brawl.

If a crop treated with Brawl is lost, any crop on this label, or on a supplemental Brawl label, may be replanted immediately provided that the rate of Brawl applied to the previous crop was not greater than the labeled rate for the crop to be replanted. If the first application was banded and the replant crop is planted in the center of the untreated bands, a second banded treatment may be applied at the rate for the use-pattern for the replant crop, provided the application does not overlap the first application band.

#### Rotational Crop Directions:

Do not rotate to food or feed crops other than those listed below. For all crops not listed, wait at least 12 months following the last application of Brawl before planting.

Barley, oats, rye, or wheat may be planted 4<sup>1</sup>/<sub>2</sub> months following treatment.

Alfalfa may be planted 4 months following application. Clover may be seeded 9 months following application.

**Restrictions:** 1) do not apply more than 1.9 lb active ingredient per acre (2.0 pt of Brawl) in the previous crop, and 2) do not make lay-by or other postemergence applications of Brawl in the previous crop.

Tobacco, buckwheat, and rice, may be planted in the next spring following treatment.

Below in the rotational crop subsections A through C is a listing of rotational crop options that are made possible through S-metolachlor tolerances which were established by the EPA as crop groupings.

**Precautions:** 1) Rotating to crops within these crop groupings at less than 60 days may result in crop injury. 2) If the rate of Brawl applied in the previous crops was greater than the rate listed here (Sections A-C below), these crops cannot be planted until the following spring.

- A. If not more than 1.33 pt/A of Brawl was applied to the field, the following crops (as well as any listed under subsections B or C below) may be planted 60 days after the last application. A second application of a S-metolachlor containing product to the following crops is prohibited within 60 days of the original application.**

**Crop Subgroup 1B Root Vegetables** – garden beet, edible burdock, carrot, celeriac, turnip-rooted chervil, chicory, ginseng, horseradish, turnip-rooted parsley, parsnip, radish, oriental radish, rutabaga, salsify, black salsify, Spanish salsify, skirret, and turnip.

**Crop Group 3 Bulb Vegetables (if to be harvested green)** – garlic, great-headed garlic, leek, green onion, Welsh onion, shallot.

Winter squash (including pumpkins)

- B. If not more than 1.67 pt/A of Brawl was applied to the field, the following crops (as well as any listed under subsection C below) may be planted 60 days after the last application. A second application of a S-metolachlor containing product to the following crops is prohibited within 60 days of the original application.**

**Crop Group 8 Fruiting Vegetables, except Cucurbits** – eggplant, groundcherry (*Physalis* spp.), pepino, peppers (bell, chili, cooking, pimento and sweet), tomatillo and tomato.

- C. If not more than 2.0 pt/A of Brawl was applied to the field, the following crops may be planted 60 days after the last application. A second application of a S-metolachlor containing product to the following crops is prohibited within 60 days of the original application.**

**Crop Subgroup 1C Tuberous and Corm Vegetables** – arracacha, arrowroot, Chinese artichoke, Jerusalem artichoke, edible canna, bitter and sweet cassava, chayote (root), chufa, dasheen (taro), ginger, leren, potato, sweet potato, taniel, tumeric, yam bean, yam, true.

**Crop Group 3 Bulb Vegetables (if to be harvested dry)** – garlic, great-headed garlic, leek, dry bulb and green onion, Welsh onion, shallot.

**Crop Subgroup 4B Leaf Petiole Vegetables** – cardoon, celery, Chinese celery, celtuce, Florence fennel, rhubarb, and Swiss chard.

**Crop Subgroup 5A Head and Stem Brassica Vegetables** – broccoli, Chinese broccoli, brussel sprouts, cabbage, Chinese (napa) cabbage, Chinese mustard, cauliflower, cavalo broccolo and kohlrabi.

## APPLICATION PROCEDURES

### Application Timing

Brawl alone or in tank mixtures with other labeled herbicides may be applied for weed control in certain crops at various times. Refer to the crop-specific use directions section of the label to determine which of the following application timings listed below are allowed.

- Preplant Surface-Applied:** For minimum-tillage or no-tillage systems only, Brawl alone and some Brawl tank mixtures may be applied up to 45 days before planting certain crops. Use only split applications for treatments made 30-45 days before planting, with <sup>2</sup>/<sub>3</sub> the listed broadcast rate for the crop and soil texture applied initially and the remaining <sup>1</sup>/<sub>3</sub> at planting. Treatments less than 30 days before planting may be made either as a split or a single application. Refer to individual crop-specific use directions section on this label to determine if early preplant surface application may be made for that crop. If weeds are present at the time of treatment, apply in a tank mixture combination with a contact herbicide (for example, Gramoxone® brands, Touchdown® brands, or Roundup® brands). Observe directions for use, precautions, and restrictions on the label of the contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.

- **Preplant Incorporated:** Apply Brawl to the soil and incorporate into the top 2 inches of soil within 14 days before planting, using a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. If crop will be planted on beds, apply and incorporate Brawl after bed formation, unless specified otherwise.
- **Preemergence:** Apply Brawl during planting (behind the planter) or after planting, but before weeds or crops emerge.
- **Postemergence:** Brawl will not control emerged weeds. Control weeds that are present by another means, e.g., mechanical means or by another herbicide.

### Special Application Procedures

- **CA Only (Corn; Safflowers; Beans, Peas, and Lentils): Preplant Incorporated:** Broadcast Brawl alone or with tank mix partners listed on this label to the soil and thoroughly incorporate with a disk or similar implement set to till 4-6 inches deep. For more thorough incorporation, till the soil in 2 different directions (cross-till). Crops may be planted on flat surface or on beds. Use caution when forming the beds to ensure that only soil from the Brawl treated zone is used (i.e., do not bring untreated soil to soil surface). If the application is made to preformed beds, incorporate Brawl with a tillage implement set to till 2-4 inches deep. Use care during tilling to keep the tilled (Brawl treated) soil on the beds. **Preemergence:** Apply Brawl after planting. Water with sprinkler or flood irrigation within 7-10 days.
- **Fall Application for Spring Weed Control (Only in IA, MN, ND, SD, WI, and portions of NE and IL - See specific instructions in the Corn; Soybeans; and Beans, Peas, and Lentils sections of this label for timing of application and other information):** Do not apply to frozen ground. Use on medium and fine soils with greater than 2.5% organic matter that will be planted to corn or soybeans the next spring. Ground may be tilled before or after application. Do not exceed a 2 to 3-inch incorporation depth if tilled after treatment. If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for the specific crop, or illegal residues may result.
- **Fall Application for Italian Ryegrass Control (Corn, Cotton, Grain and Forage Sorghum, and Soybean Only – See specific instructions in the Corn, Cotton, Grain and Forage Sorghum, and Soybean sections of this label for timing of application and other information):** Brawl may be applied in the fall (September 1-December 1) for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). A tillage operation may precede the application. Do not incorporate to a depth greater than 2-3 inches if tillage follows the application of Brawl. **Restrictions:** 1) Do not apply Brawl to frozen ground. All crops on the Brawl label may be planted the following spring after application. 2) If a spring application is made, the combined total amount of Brawl applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for the specific crop planted, or illegal residues may result. Refer to the crop sections on this label for specific directions.

**Ground Application:** Apply Brawl alone or in tank mixtures by ground equipment in a minimum of 10 gal of spray mixture per acre, unless otherwise specified.

Use sprayers that provide accurate and uniform application. For Brawl tank mixtures with wettable powder or dry flowable formulations, use screens and strainers no finer than 50-mesh. Rinse sprayer thoroughly with clean water immediately after use.

Calculate the amount of herbicide needed for band treatment by the formula:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$$

For information on applying in lower volumes of carrier, see **Low Carrier Application** section.

For application by air or through center pivot systems, see **Aerial Drift Management** and **Aerial Drift Reduction Advisory Information** sections.

For information on impregnating dry fertilizer, see **Dry Bulk Granular Fertilizers** section.

For information on application using variable-rate technologies, see **Variable-Rate Application** section.

## SPRAY EQUIPMENT

### LOW CARRIER APPLICATION

#### For Broadcast Ground Application Only

Use sprayers, such as Ag-Chem RoGator®, Hagie, John Deere Hi-Cycle™, Melroe Spra-Coupe, Tyler Patriot™, or Willmar Air Ride®, that provide accurate and uniform application. **Only water may be used as a carrier.** Use screens in suction and in-line strainers that are 50-mesh. Manufacturers may require that tip screens as fine as 100-mesh be used with some nozzles. Use a pump with capacity to: (1) maintain up to 35-40 psi at the nozzles, and (2) provide sufficient agitation in tank to keep mixture in suspension. Use a minimum of 5.0 gal of spray mixture per acre. To achieve best results, apply at a maximum sprayer speed of 15 mph. Rinse sprayer thoroughly with clean water immediately after each use.

**Note:** Low pressure nozzles will reduce drift and increase application accuracy. Use care when using automatic rate controlling devices to spray the material within the rated working pressure and flow ranges of the nozzles selected. Use nozzle screens when instructed by the manufacturer. Place all nozzles on 20-inch centers, except flooding types. Place flooding type nozzles on 40-inch centers. When Flat Fan-type nozzles are used, use angles of 80° or 110°. Always read and follow the manufacturer's directions for optimum setup and performance of their nozzles or tips.

### AERIAL APPLICATION

Apply Brawl in water alone or in tank mixtures with AAtrex, Lorox®, or TriCor® in a minimum total volume of 2.0 gal/A by aircraft. Brawl may also be applied by air in combination with Balan®, Prowl®, or Treflan®. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 ft, using low-drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive nontarget plants, apply Brawl alone or Brawl + AAtrex by aircraft at a minimum upwind distance of 400 ft from sensitive plants, or apply Brawl, Lorox, or TriCor at a minimum upwind distance of 300 ft from sensitive plants.

#### Aerial Drift Management

The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses, or to applications using dry formulations.

- The distance of the outermost nozzles on the boom must not exceed  $\frac{3}{4}$  the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees.

Where states have more stringent regulations, they must be observed.

Ensure that the applicator is familiar with and takes into account the information covered in the **Aerial Drift Reduction Advisory Information** section below.

#### Aerial Drift Reduction Advisory Information

##### Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **Wind, Temperature and Humidity, and Temperature Inversions**).

## Controlling Droplet Size

- **Volume** – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** – Do not exceed the nozzle manufacturer's maximum pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of nozzles** – Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the best practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

## Application Height

Do not apply at a height greater than 10 ft above the top of the largest plants, unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

## Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the upwind and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Increase swath adjustment distance with increasing drift potential (higher wind, smaller drops, etc.).

## Wind

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. If possible, avoid application below 2 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns.

## Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is greatest when conditions are both hot and dry.

## Temperature Inversions

If possible, avoid application during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

## Sensitive Areas

Apply pesticides when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Avoid application to humans or animals. Flagmen and loaders must avoid inhalation of spray mist and prolonged contact with skin.

## CENTER PIVOT IRRIGATION APPLICATION

Brawl alone or in tank mixture with other herbicides on this label, which are registered for center pivot application, may be applied in irrigation water preemergence (after planting, but before weeds or crop emerge) at rates listed on this label. Brawl also may be applied postemergence to the crop and preemergence to weeds in crops where postemergence applications are allowed on this label. Follow all restrictions (height, timing, rate, etc.) to avoid illegal residues. Apply this product only through a center pivot irrigation system. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, contact State Extension specialists, equipment manufacturers, or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments when needed.

### Operating Instructions

- The system must contain a functional check-valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump or piston pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Prepare a mixture with a minimum of 1 part water to 1 part herbicide(s) and inject this mixture into the center pivot system. Injecting a larger volume of a more dilute mixture per hour will usually provide more accurate calibration of metering equipment. Maintain sufficient agitation to keep the herbicide in suspension.
- Meter into irrigation water during entire period of water application.
- Apply in 1/2-1 inch of water. Use the lower water volume (1/2 inch) on *coarse-textured soils* and the higher volume (1 inch) on *fine-textured soils*. More than 1 inch of water at application may reduce weed control by moving the herbicide below the effective zone in the soil.

*Precaution for center pivot applications: Where sprinkler distribution patterns do not overlap sufficiently, unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively, crop injury may result.*

### DRY BULK GRANULAR FERTILIZERS

Many dry bulk granular fertilizers may be impregnated or coated with Brawl alone or selected Brawl tank mixtures which are registered for preplant incorporated or preplant surface applications which are used to control weeds in crops on the Brawl label and are not prohibited from use on dry bulk granular fertilizers.

When applying Brawl or Brawl mixtures with dry bulk granular fertilizers, follow all directions for use and precautions on the respective product labels, regarding target crops, rates per acre, soil texture, application methods (including timing of application), and rotational crops.

All individual state regulations relating to dry bulk granular fertilizer blending, registration, labeling, and application are the responsibility of the individual and/or company selling the herbicide/fertilizer mixture.

Prepare the herbicide/fertilizer mixtures by using any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender. Nozzles used to spray Brawl and Brawl mixtures onto the fertilizer must be placed to provide uniform spray coverage. Use care to aim the spray directly onto the fertilizer only and to avoid spraying the walls of the blender.

If the herbicide/fertilizer mixture is too wet, add a highly absorptive material, such as Agsorb® or Celatom MP-79®, or similar granular clay or diatomaceous earth materials, to obtain a dry, free-flowing mixture. Add absorptive materials only after the herbicide has been thoroughly blended into the fertilizer mixture. Best application results will be obtained by using a granule of 6/30 particle size or of a size similar to that of the fertilizer material being used. Generally, less than 2% by weight of absorptive material will be needed. Avoid using more than 5% absorptive material by weight.

Calculate amounts of Brawl, AAtrex, AAtrex + Princep®, Balance® Pro, Princep, TriCor, or Sonalan® by the following formula:

$$\frac{2000}{\text{lb of fertilizer per acre}} \times \text{pt/A of liquid or flowable product} = \text{pt of liquid or flowable product per ton of fertilizer}$$

$$\frac{2000}{\text{lb of fertilizer per acre}} \times \text{lb/A of dry product} = \text{lb of dry product per ton of fertilizer}$$

**Pneumatic (Compressed Air) Application (Brawl Alone):** High humidity, high urea concentrations, low fertilizer use rates, and dusty fertilizer may cause fertilizer mixture to build up or plug the distributor head, air tubes, or nozzle deflector plates. To minimize buildup, premix Brawl with Exxon Aromatic 200 at a rate of 1.0-4.0 pt/gal of Brawl. Aromatic 200 is a noncombustible/nonflammable petroleum product. Aromatic 200 may be used in either a fertilizer blender or through direct injection systems. Avoid drying agents when using Aromatic 200.

**Precautions:** (1) Mixtures of Brawl and Aromatic 200 must be used on dry fertilizer only. Poor results or crop injury may result if these mixtures are used in water or liquid fertilizer solutions for spraying applications. (2) When impregnating Brawl in a blender before application, a drier mixture can be attained by substituting a drying agent for Aromatic 200. Agsorb FG or drying agents of 6/30 particle size will provide best results. (3) When possible, avoid drying agents when using On-The-Go impregnation equipment.

**Precautions:** To avoid potential for explosion, (1) Do not impregnate Brawl or Brawl mixtures on ammonium nitrate, potassium nitrate, or sodium nitrate, either alone or in blends with other fertilizers. (2) Do not use Brawl or Brawl mixtures on straight limestone, since absorption will not be achieved. Fertilizer blends containing limestone can be impregnated.

## Application

Apply 200-700 lb of the herbicide/fertilizer mixture per acre. For best results, apply the mixture uniformly to the soil with properly calibrated equipment immediately after blending. Uniform application of the herbicide/fertilizer mixture is essential to prevent possible crop injury. Nonuniform application may also result in unsatisfactory weed control. In areas where conventional tillage is practiced, a shallow incorporation of the mixture into the soil may improve weed control. On fine- or medium-textured soils in areas where soil incorporation is not planned, i.e., reduced tillage situations or in some conventional till situations, make applications approximately 30 days before planting to allow moisture to move the herbicide/fertilizer mixture into the soil. On coarse-textured soils, make applications approximately 14 days prior to planting.

**Precaution:** To avoid crop injury, do not use the herbicide/fertilizer mixture on crops where bedding occurs.

## MIXING INSTRUCTIONS

**Brawl Alone:** Mix Brawl with water or fluid fertilizer and apply as a spray. Fill the spray tank  $\frac{1}{2}$ - $\frac{3}{4}$  full with water or fluid fertilizer, add the proper amount of Brawl, then add the rest of the water or fluid fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

**Tank Mixtures:** Fill the spray tank  $\frac{1}{4}$  full with water, and start agitation; add 2,4-D, AAtrex, Balance Pro, Balan, Banvel®, Basagran®, Butoxone®, Butyrac®, Canopy®, Caparol® 4L, Cotoran®, Eptam®, Liberty® Herbicide, Liberty ATZ Herbicide, Lorox, Marksman®, MSMA, Princep, Prowl, Pursuit®, AAtrex + Princep, Sonalan, Treflan, or TriCor and allow it to become dispersed; then add Brawl; then add a Gramoxone brand, Landmaster® BW, Touchdown, or Roundup (glyphosate products) if these products are being used; and finally the rest of the water. For tank mixtures with AAtrex, Balance, Banvel, Canopy, Caparol 4L, Cotoran\*, Eptam, Lorox, Marksman, Princep, Prowl\*, Pursuit, AAtrex + Princep, Sonalan, Treflan, or TriCor fluid fertilizers may replace all or part of the water as carrier, except in the AAtrex postemergence and the Banvel postemergence tank mixes. For tank mixtures with AAtrex, see additional mixing instructions on the AAtrex label. For each mixture, check compatibility with fluid fertilizer, as described below, before mixing in spray tank. For all tank mixtures, agitate during mixing and application to maintain a uniform suspension.

\*See **Special Mixing Instructions** for tank mixtures with Cotoran and with AAtrex or Princep + Prowl under the appropriate tank mixture section.

For directions on how to conduct a compatibility test, see the **Compatibility Test** section.

## COMPATIBILITY TEST

To achieve best results, conduct a jar test before tank mixing to ensure compatibility of Brawl with other pesticides. The following test assumes a spray volume of 25 gal/A. For other spray volumes, make appropriate changes in the ingredients.

**Note:** Nitrogen solutions or complete fluid fertilizers may replace all or part of the water in the spray. Because liquid fertilizers vary, even within the same analysis, **always check compatibility with pesticide(s) before use.** Incompatibility of tank mixtures is more common with suspensions of fertilizer and pesticides.

### Test Procedure

1. Add 1.0 pt of carrier (fertilizer or water) to each of 2 one qt jars with tight lids. **Note:** Use the same source of water that will be used for the tank mix and conduct the test at the temperature the tank mix will be applied.
2. To one of the jars, add  $\frac{1}{4}$  tsp or 1.2 milliliters of a compatibility agent approved for this use, such as Compex or Unite ( $\frac{1}{4}$  tsp is equivalent to 2.0 pt/100 gal spray). Shake or stir gently to mix.
3. To both jars, add the appropriate amount of pesticide(s) in their relative proportions based on listed label rates. If more than one pesticide is used, add them separately with dry pesticides first, flowables next, and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix.
4. After adding all ingredients, put lids on and tighten, and invert each jar ten times to mix. Let the mixtures stand 15-30 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the two jars. If either mixture separates, but can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility: (a) Slurry the dry pesticide(s) in water before addition, or (b) add  $\frac{1}{2}$  the compatibility agent to the fertilizer or water and the other  $\frac{1}{2}$  to the emulsifiable concentrate or flowable pesticide before addition to the mixture. If incompatibility is still observed, do not use the mixture.
5. After compatibility testing is complete, dispose of any pesticide wastes in accordance with the **Storage and Disposal** section in this label.



# CROP USE DIRECTIONS

## CORN (ALL TYPES) – BRAWL ALONE

Apply Brawl, either preplant surface, preplant incorporated, preemergence, or lay-by, using the appropriate rate specified below.

### PREPLANT SURFACE-APPLIED

Refer to instructions for use of Brawl alone under **Application Procedures**.

#### Fall Application for Spring Weed Control:

- Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
- Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
- Apply after October 31 north of Route 136 in IL.

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.67-2.0 pt/A on *medium-textured* and 2.0 pt/A on *fine-textured soils*. Do not apply to frozen ground. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not exceed an incorporation depth greater than 2-3 inches. Minimize furrow and ridge formation in the tillage operations. If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for corn, or illegal residues may result.

**Fall Application for Italian Ryegrass Control:** Brawl may be applied for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). Apply Brawl at 1.33-1.67 pt/A in the fall (September 1–December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower Brawl rate for coarse-textured soils and the higher rate for fine-textured soils. A tillage operation may precede the application. Do not incorporate to a depth greater than 2-3 inches if tillage follows the application of Brawl. For fall applications after emergence of glyphosate-resistant Italian ryegrass, a Gramoxone brand can be tank mixed with Brawl to control emerged ryegrass. Refer to the Gramoxone brand label for specific rates, application instructions and restrictions. Other registered herbicides may be tank mixed with Brawl for control or improved control of other weeds present at the time of application. **Restrictions:** (1) Do not apply Brawl to frozen ground. (2) If a spring application is made, the combined total amount of Brawl applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for corn (3.9 pt/A depending on soil texture).

**Fall Application for Control or Suppression of Yellow Nutsedge (ID, OR and WA only):** For preemergent control or suppression of yellow nutsedge the following spring, apply 1.33 pt/A of Brawl in the fall after the harvest of the previous crop but before freeze-up. Fall applications of Brawl can be surface-applied or incorporated. **Restrictions:** (1) Make no more than one fall application per crop. (2) Apply not more than 1.33 pt/A in a single fall preplant application. (3) Do not apply to frozen ground. (4) If a spring application is made, the combined total amount of Brawl applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for corn (3.9 pt/A depending on soil texture).

### Early Preplant Applications

A. Use on medium- and fine-textured soils with minimum-tillage or no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY. Apply <sup>2</sup>/<sub>3</sub> the listed rate of Brawl (1.67 pt/A on *medium soils* and 2.0 pt/A on *fine soils*) as a split treatment 30-45 days before planting and the remainder at planting. Applications made less than 30 days prior to planting may be as either a split or single treatment. Apply 1.33 pt/A on *coarse soils* not more than 2 weeks prior to planting. If a spring application is made, the total rate of the fall plus spring application must not exceed the maximum total rate for corn, or illegal residues may result.

- B. On medium- and fine-textured soils with minimum- or no-tillage systems in CT, DE, MA, MD, ME, MI, NH, NY, OH, PA, RI, VA, VT, and WV, preplant surface applications may be applied following the directions for use above. If the amount of rainfall results in unsatisfactory length of weed control following the earlier treatment, a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide may be used, i.e., AAtrex, Beacon®, Bicep Magnum, Bicep II Magnum®, Exceed®, Accent®, Banvel, Basagran, bromoxynil (Brominal® or Butciril®), or 2,4-D. If the postemergence treatment includes the herbicide used preplant surface-applied, do not exceed the total labeled rate for corn on a given soil texture. Observe all directions for use, precautions, and limitations on the label of the postemergence herbicide.

### PREPLANT INCORPORATED OR PREEMERGENCE

Follow instructions for use of Brawl alone under **Application Procedures**. On *coarse soils*, apply 1.0-1.33 pt/A of Brawl if organic matter content is less than 3%, or 1.33 pt/A if organic matter content is 3% or greater. On *medium soils*, apply 1.33-1.67 pt/A of Brawl. On *fine soils*, apply 1.33-1.67 pt/A of Brawl if organic matter content is less than 3%, or 1.67-2.0 pt/A if organic matter content is 3% or greater.

### POSTEMERGENCE OR LAY-BY

To extend the duration of weed control in corn, a maximum rate of 2.0 pt/A of Brawl may be applied after corn emergence until the corn plants reach 40 inches in height, following any preplant surface-applied, preplant incorporated, or preemergence herbicide application, including Brawl. For best results, make applications to soil free of emerged weeds and directed toward the base of corn plants in excess of 5 inches tall. The total Brawl rate applied on corn during any one crop year must not exceed 3.9 pt/A, depending on soil texture.

**Restrictions for all applications to corn:** (1) do not graze or feed forage from treated areas for 30 days following application and (2) Preharvest Interval (PHI): do not harvest sweet corn ears from treated areas for 30 days following application.

### PROBLEM WEED CONTROL DIRECTIONS

**Shattercane, Wild Proso Millet, Woolly Cupgrass, and Eclipta – Partial Control:** For more consistent partial control of shattercane, wild proso millet, woolly cupgrass, or eclipta, apply 1.0-1.33 pt/A of Brawl preplant incorporated followed by 1.0-1.33 pt/A of Brawl preemergence. Make the preemergence application during or after planting, but before weeds and corn emerge. Apply the 1.33 pt/A rate of Brawl when a heavy infestation of shattercane, wild proso millet, woolly cupgrass, or eclipta is expected. A shallow cultivation may be needed to control any late emerging weeds.

**Woolly Cupgrass and Wild Proso Millet Control Program:** For control of these species, use the following 3-step program: (1) Apply Brawl early preplant, preplant incorporated, or preemergence at 1.67 pt/A on *medium soils* and 2.0 pt/A on *fine-textured soils*, up to the maximum label rate. Lightly incorporate with a rotary hoe if rainfall does not occur within 5-7 days; (2) Apply a postemergence tank mix of Beacon at 0.38 oz/A or Exceed at 1 packet per 4 acres plus Accent SP at 0.33 oz/A plus 1.0 qt of crop oil concentrate plus 1.0 gal/A of 28% nitrogen, or the equivalent amount of ammonium sulfate, when grasses are 2-3 inches tall and the corn is at least 4 inches tall; and (3) Cultivate 14-21 days after the postemergence application.

**Restrictions:** (1) Do not apply more than the labeled application rate for a given soil texture per year, either as a single or split treatment, or illegal residues may result. (2) In corn, Brawl may be used up to 2.6 pt/A as either a preplant surface, preplant incorporated, or preemergence treatment on soils having an organic matter content between 6% and 20%. (3) In the event of escape of annual weeds following a preplant surface, preplant incorporated, or preemergence treatment of Brawl, follow with a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., AAtrex, Beacon, Bicep II Magnum, Exceed, Accent, Banvel, Basagran, Brominal, Butciril, or 2,4-D. If the postemergence treatment includes the herbicide used in the earlier treatment, do not exceed the total labeled rate for corn on a given soil texture. (4) Brominal or Butciril may be applied postemergence alone or in tank mix combination with AAtrex. Do not exceed 1.2 lb ai/A of AAtrex in tank mix combination with Brominal or Butciril postemergence. Refer to the AAtrex, Brominal, and Butciril labels for specific rates and precautions. (5) Do not use Brawl on peat or muck soils.

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### CORN – BRAWL COMBINATIONS

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Brawl in any tank mixture for corn may be applied in water or fluid fertilizer before corn emerges. Use only water as a carrier when Brawl is applied after corn emergence.

**Restrictions:** For all applications to corn, (1) do not graze or feed forage from treated areas for 30 days following application and (2) Preharvest Interval (PHI): do not harvest sweet corn ears from treated areas for 30 days following application.

**IMPORTANT: FOR TANK MIXTURES WITH AATREX (OR OTHER BRANDS OF ATRAZINE) – If applying Brawl in tank mixture with AAtrex, all the restrictions and rate limitations on the AAtrex label must be followed if more restrictive/protective than those on this label. In addition, if AAtrex is/must be applied at rates lower than those listed on this label, broadleaf weed control may be affected. Refer to the AAtrex label for weeds controlled at the reduced rates.**

**Table 2: Brawl Tank Mixtures for Corn – Additional Weeds Controlled and Special Instructions**

	Brawl + AAtrex and/or Princep (Preplant Surface, PPI, PRE)	Brawl + AAtrex (Post)	Brawl + Banvel (Field Corn)	Brawl + AAtrex + Lorox	Brawl + AAtrex or Princep + Prowl	Brawl + Marksman	Brawl + Balance Pro*
<b>Special Mixing Instructions</b>					1		
<b>Comments</b>	2,3,4,5,7,8	2,3,4,5		2,3,4,5,6	2,3,4,5	7	2,3,7
Browntop panicum	X			X	X		
Cocklebur	X	0	0	X	X	X	
Common purslane	X			X	X	X	X
Hairy nightshade	X			X	X	X	
Jimsonweed		X	0			X	X
Kochia		X				X	X
Lambsquarters	X	X	X	X	X	X	X
Morningglory	X	0	0	X	X	X	
Mustard		X				X	X
Pigweed				X	X	X	X
Prickly sida		X				X	
Ragweed	X	X	X	X	X	X	X
Smartweed	X	X	X	X	X	X	X
Velvetleaf	X	X	0	X	X	X	0-X

X = control; 0 = partial control; 0-X = partial to full control depending on ratio of products used or on weed population

\*Field corn only

### Comments

- Special Mixing Instructions for Brawl + AAtrex or Princep and Prowl:** (A) Fill the spray tank <sup>1</sup>/<sub>4</sub> full with water or fluid fertilizer and start agitation. (B) To aid compatibility, add a compatibility agent, such as Unite or X-77®, at 4.0 pt/100 gal of spray mixture. (C) Then add the AAtrex or Princep and allow it to become dispersed. (D) Then add Brawl and Prowl 4E. (E) Add the rest of the water.
- Although a single formulation for AAtrex or Princep is listed in the rate tables, other formulations may be substituted, using the following formula:
  - 1.0 lb of AAtrex Nine-O® or Princep Caliber 90® = 1.8 pt of AAtrex 4L or Princep 4L.

3. Although directions specify AAtrex formulations in tank mixture with Brawl, other brands of atrazine may be used. Follow the rates and other use directions and restrictions on the atrazine label.
4. See additional mixing instructions on the AAtrex label.
5. *Do not exceed a total of 2.5 lb ai of atrazine per acre per year. However, certain states may have established rate limitations for atrazine within specific geographical areas. Consult your state lead pesticide control agency for additional information. It is a violation of this label to deviate from state use regulations.*
6. Other formulations of Lorox can be used: 1.0 lb of Lorox DF = 1.0 pt of Lorox L.
7. In Minimum-Tillage and No-Tillage systems, mix with a Gramoxone brand herbicide for control of most emerged annual weeds and suppression of perennial weeds; or with Landmaster BW for suppression of emerged field bindweed and control or suppression of annual weeds; or with Touchdown brands or Roundup brands for control of most emerged annual and perennial weeds.
8. Refer to the **Corn – Brawl Combinations - Tank Mixture with AAtrex or AAtrex + 2,4-D; or AAtrex + 2,4-D + Banvel for Minimum Tillage or No-Tillage Systems** section for specific directions for 2,4-D or Banvel burndown combinations with Minimum-Tillage and No-Tillage systems.

Brawl in any tank mixture for corn may be applied in water or fluid fertilizer, except as noted.

**Restrictions:** (1) Preharvest Interval (PHI): For all applications to corn, do not graze or feed forage from treated areas for 30 days following application and do not harvest sweet corn ears from treated areas for 30 days following application. (2) When applying Brawl in tank mixture with AAtrex, do not exceed a total of 2.5 lb ai of atrazine per acre per year. (3) Refer to **Corn (All Types) – Brawl Alone**, for directions for sequential postemergence treatments if escape weeds develop.

### **TANK MIXTURE WITH AATREX OR PRINCEP, OR AATREX + PRINCEP – PREPLANT SURFACE, PREPLANT INCORPORATED, OR PREEMERGENCE**

In addition to the weeds controlled by Brawl alone, Brawl + AAtrex or Princep, or Brawl + AAtrex + Princep, applied preplant surface, preplant incorporated, or preemergence, also controls the following weeds: browntop panicum, cocklebur, common purslane, hairy nightshade, lambsquarters, morningglory, ragweed, smartweed, and velvetleaf.

Apply Brawl + AAtrex or Princep, or Brawl + AAtrex + Princep either preplant surface, preplant incorporated, or preemergence.

**Preplant Surface-Applied:** Follow instructions for use of Brawl alone under **Application Procedures** and under application instructions for Brawl alone on corn. Apply Brawl + AAtrex or Princep, or Brawl + AAtrex + Princep on *medium soils* (1.67 pt/A of Brawl + 3.2-4.0 pt/A of AAtrex 4L or Princep 4L, or AAtrex 4L + Princep 4L combined) and on *fine soils* (1.67-2.0 pt/A of Brawl + 4.0 pt/A of AAtrex 4L or 4.0-5.0 pt/A of Princep 4L, or AAtrex 4L + Princep 4L combined) in minimum-tillage and no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY. Apply the tank mixtures as a split or single treatment in those states and as indicated in the **Brawl Alone – Preplant Surface-Applied** section of the label for corn. On *coarse soils*, apply 1.33 pt/A of Brawl and 3.2 pt/A of AAtrex 4L or Princep 4L, or AAtrex 4L + Princep 4L combined.

**Preplant Incorporated or Preemergence:** Follow instructions for use of Brawl alone under **Application Procedures**. Apply Brawl + AAtrex or Princep, or Brawl + AAtrex + Princep, using the appropriate rates from Table 3.

**Restriction:** Do not apply more than the labeled rate for a given soil texture per year, either as a split or single treatment.

### **Shattercane and Wild Proso Millet – Partial Control**

For more consistent partial control of shattercane or wild proso millet, where Brawl is applied in tank mixture or sequentially with other registered corn herbicides, the following applications may be made:

- Apply 1.0-1.33 pt/A of Brawl + 2.0 lb ai/A of AAtrex or Princep preplant incorporated, followed by 1.0-1.33 pt/A of Brawl preemergence. Make the preemergence application during or after planting, but before weeds and corn emerge.

- Apply Brawl at 1.33 pt/A alone or in tank mix combination with up to 2.0 lb ai/A of AAtrex or Princep preplant incorporated. Do not exceed the total rate of triazine herbicide listed in combination with Brawl for corn grown on a given soil texture. Follow with a post-directed application of Evik® 80W at the labeled rate. Refer to the Evik 80W label for specific directions for the post-directed application.
- Apply Eradicane® (or equivalent EPTC or butylate formulations) at labeled rates preplant incorporated, followed by a preemergence application of Brawl at 1.0-1.33 pt/A. Do not use Eradicane on soils where rapid degradation has been shown to occur. Make the preemergence application during or after planting, but before weeds and corn emerge.

**Precaution:** When following the application regimes in numbers 1-3 above, a shallow cultivation may be needed after the preemergence or postemergence application to help control any late emerging shattercane or wild proso millet plants.

**Restriction:** Do not exceed a total of 1.9 lb ai/A (2.0 pt of Brawl) in the preplant incorporated plus preemergence application on soils with less than 6% organic matter, or crop injury may occur.

**Table 3: Brawl + AAtrex or Princep, or Brawl + AAtrex + Princep, Preplant Incorporated or Preemergence – Corn (All Types)**

Soil Texture	Broadcast Rates Per Acre					
	<3% Organic Matter			3% Organic Matter or Greater		
	Brawl + AAtrex Nine-O* or Princep Caliber 90*	or	Brawl + AAtrex Nine-O** + Princep Caliber 90**	Brawl + AAtrex Nine-O* or Princep Caliber 90*	or	Brawl + AAtrex Nine-O** + Princep Caliber 90**
<b>Coarse</b>	0.8-1.0 pt + 1.1-2.2 lb		0.8-1.0 pt + 0.6-1.1 lb + 0.6-1.1 lb	1.0 pt + 1.3-2.2 lb		1.0 pt + 0.7-1.1 lb + 0.7-1.1 lb
<b>Medium</b>	1.0-1.33 pt + 1.3-2.2 lb		1.0-1.33 pt + 0.7-1.1 lb + 0.7-1.1 lb	1.33 pt + 1.8-2.2 lb		1.33 pt + 0.9-1.1 lb + 0.9-1.1 lb
<b>Fine</b>	1.33 pt + 1.8-2.2 lb		1.33 pt + 0.9-1.1 lb + 0.9-1.1 lb	1.33-1.67 pt + 1.8-2.2 lb***		1.33-1.67 pt + 0.9-1.1 lb*** + 0.9-1.1 lb***
Muck or Peat (soils with >20% organic matter)	<b>DO NOT USE</b>					

\*Use Princep in preference to AAtrex when heavy infestations of crabgrass or fall panicum are expected. On soils having between 6% and 20% organic matter, Brawl may be used up to 2.33 pt/A in tank mix combination with 2.2 lb/A of AAtrex Nine-O, or equivalent rates of AAtrex 4L. Refer to the AAtrex label for weeds controlled at this reduced rate.

\*\*When using the tank mixture of Brawl + AAtrex Nine-O + Princep Caliber 90, use equal rates of each as shown when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of AAtrex + Princep instead of the 1:1 ratio given in Table 3. (Example: Total AAtrex Nine-O + Princep Caliber 90 = 1.2 lb/A, use 0.4 lb of AAtrex + 0.8 lb of Princep, respectively.) Refer to Comment No. 2 following Table 2 for AAtrex 4L and Princep 4L conversions.

\*\*\*For cocklebur, yellow nutsedge, and velvetleaf control on *fine-textured soils* above 3% organic matter, apply 2.25 lb/A of AAtrex Nine-O, or equivalent rates of AAtrex 4L, or the same total amount of AAtrex + Princep with 1.33-1.67 pt/A of Brawl.

## TANK MIXTURE WITH AATREX – POSTEMERGENCE

### Weeds Controlled

barnyardgrass (watergrass)	prickly sida
crabgrass	purslane
crowfootgrass	ragweed
fall panicum	smartweed
giant foxtail	velvetleaf
green foxtail	
yellow foxtail	
jimsonweed	
kochia	
lambsquarters	
mustard	
pigweed	

### Weeds Partially Controlled

cocklebur
morningglory
yellow nutsedge

Apply 1.0 pt/A of Brawl + 1.3 lb/A of AAtrex Nine-O\* on *coarse soils*, 1.33 pt/A of Brawl + 1.8 lb/A of AAtrex Nine-O on *medium soils*, or 1.33-1.67 pt/A of Brawl + 1.8-2.2 lb/A\*\* of AAtrex Nine-O on *fine soils*. Apply this tank mixture before grass and broadleaf weeds pass the 2-leaf stage and before corn exceeds 5 inches in height. Application to weeds larger than the 2-leaf stage will generally result in unsatisfactory control.

**Lay-by:** Apply to corn plants not more than 12 inches tall. Make applications to corn in excess of 5 inches directed to the base of the corn plants; whereas, applications to corn plants less than 5 inches tall may be made over the top. Occasionally, some corn leaf burn may result, but this will likely not affect later growth or yield. Do not apply this postemergence tank mixture in fluid fertilizer, or severe crop injury may occur.

\*When using AAtrex 4L, use equivalent rates. One lb of AAtrex Nine-O = 1.8 pt of AAtrex 4L.

\*\*For better control of cocklebur, morningglory, velvetleaf, and yellow nutsedge on *fine-textured soils* above 3% organic matter, apply 2.2 lb/A of AAtrex Nine-O, or equivalent rate of AAtrex 4L, with 1.33-1.67 pt/A of Brawl.

Tank mixtures of Brawl + AAtrex may be applied following use of any registered preplant surface-applied, preplant incorporated, or preemergence corn herbicide, including Brawl + AAtrex.

**Restriction:** The total Brawl rate must not exceed 3.9 pt, nor the AAtrex rate more than 2.5 lb ai/A during any one crop year. Refer to the AAtrex label for geographic, soil-texture, and rotational restrictions.

## TANK MIXTURE WITH BANVEL

**Preemergence:** Use this tank mixture only on field corn which is flat-planted (no furrows) in CO, IA, IL, IN, KS, MN, NE, OH, SD, and WI.

In addition to the weeds controlled by Brawl alone, Brawl + Banvel, applied preemergence, also controls lambsquarters, ragweed, smartweed, cocklebur\*, jimsonweed\*, morningglory\*, and velvetleaf\*.

\*Partially controlled.

Apply Brawl + Banvel preemergence. Broadcast the labeled rate of Banvel with 1.33 pt/A of Brawl on *medium soils*, or with 1.33-1.67 pt/A of Brawl on *fine soils*. Do not apply on *coarse soils* or on soils with less than 2.5% organic matter. Apply this tank mixture to the soil surface at planting or after planting, but before corn emerges. Plant corn at least 1.5 inches deep and apply behind planting equipment, avoiding incorporation by the planter wheel or other seed covering device. Do not incorporate before corn emergence. If it is necessary to rotary hoe to break the soil crust, do not disturb the soil more than 1/2 inch deep.

**Postemergence for Control of Pigweed (Mid-Atlantic states, including DE, MD, PA, VA, and WV):** Apply 1.0-1.5 pt of Brawl + 0.5-1.0 pt/A of Banvel or Clarity® by ground equipment when pigweed plants are less than 3 inches tall and before corn exceeds 5 inches in height in a minimum of 20 gal of spray per acre. Use the lower rate on coarse-textured and low organic matter soils. Use the higher rate on fine-textured and high organic matter soils.

**Precaution:** Avoid drift to sensitive nontarget plants, such as soybeans, during application, or injury may occur.

**Restriction:** Do not apply with aircraft.

### **TANK MIXTURE WITH AATREX OR PRINCEP + PROWL FOR PROLONGED CONTROL OF LAMBSQUARTERS AND PIGWEED IN FIELD CORN ONLY (NORTHEAST U.S., INCLUDING MI, IN, KY, AND STATES EAST OF THESE)**

For prolonged control of lambsquarters and pigweed, in addition to a broad spectrum of annual broadleaf and grass weeds, Brawl in tank mix combination with AAtrex\* or Princep + Prowl 4E may be applied after planting, but before corn or weeds emerge. Apply by ground equipment in a minimum of 10 gal of water or 20 gal of liquid fertilizer. Apply by air in a minimum of 5.0 gal of water. Refer to Table 3 of this label for rates of Brawl, AAtrex, or Princep to be applied. Apply Prowl 4E according to the following rates in Table 4.

\*Do not apply Brawl in tank mix combination with AAtrex 80W + Prowl, as this combination is not compatible. Other AAtrex formulations may be used.

**Mixing Instructions:** See Comment No. 1 following Table 2.

**Table 4: Prowl 4E – Broadcast Rates Per Acre**

Soil Texture	Percent Organic Matter in Soil		
	Less Than 1.5%	1.5-3%	Over 3%
COARSE	1.5-2.0 pt	2.0 pt	3.0 pt
MEDIUM	2.0 pt	3.0 pt	3.0 pt
FINE	2.0 pt	3.0 pt	3.0 pt

Observe all directions for use, precautions, and restrictions on the respective product labels when applying these products in tank mix combination. Refer to the Prowl 4E label for replanting instructions in the event of crop loss.

### **TANK MIXTURE OF BRAWL WITH AATREX OR PRINCEP, OR AATREX + PRINCEP WITH GRAMOXONE BRANDS, LANDMASTER BW, TOUCHDOWN OR ROUNDUP FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS**

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, tank mix the contact herbicides Gramoxone brands, Landmaster BW, Touchdown brands or Roundup brands with Brawl + AAtrex, Brawl + Princep, or Brawl + AAtrex + Princep. See Comment No. 7 following Table 2. The Brawl, Brawl + AAtrex or Princep, or Brawl + AAtrex + Princep portion of the tank mixture provides preemergence control of the weeds listed on this label in the tank mixture section for **Brawl, Brawl + AAtrex or Princep, or Brawl + AAtrex + Princep – Preplant Surface, Preplant Incorporated, or Preemergence.**

**Application:** Apply before, during, or after planting, but before the corn emerges. Add Gramoxone brands, Landmaster BW, Touchdown brands or Roundup brands and apply as directed on the product label.

**Gramoxone Brands:** Apply as directed on the product label. This treatment will not control weeds taller than 6 inches.

**Precaution:** Do not apply combinations containing Gramoxone brands in suspension-type liquid fertilizers, because the activity of paraquat will be reduced.

**Landmaster BW:** See the Landmaster BW label for weeds controlled, listed rates for specific weeds, and other information concerning use.

**Touchdown Brands or Roundup Brands:** See the Touchdown brand or Roundup brand labels for weeds controlled, listed rates, and other use directions.

Apply in 20-60 gal of water or fluid fertilizer per acre with ground equipment.

On *coarse soils*, apply 1.0 pt/A of Brawl with 1.3 lb of AAtrex Nine-O\* or Princep Caliber 90\*, or with 0.7 lb of AAtrex Nine-O\*\* + 0.7 lb of Princep Caliber 90\*\*. On *medium soils*, apply 1.33 pt/A of Brawl with 1.8 lb of AAtrex Nine-O or Princep Caliber 90, or with 0.9 lb of AAtrex Nine-O + 0.9 lb of Princep Caliber 90. On *fine soils\*\*\**, apply 1.33-1.67 pt/A of Brawl with 1.8-2.2 lb of AAtrex Nine-O or Princep Caliber 90, or with 0.9-1.1 lb of AAtrex Nine-O + 0.9-1.1 lb of Princep Caliber 90.

\*Use Princep in preference to AAtrex when heavy infestations of crabgrass or fall panicum are expected.

\*\*When using the tank mixture of Brawl + AAtrex Nine-O + Princep Caliber 90, use equal rates of AAtrex and Princep as shown when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of AAtrex + Princep instead of the 1:1 ratio given. (Example: Total AAtrex Nine-O + Princep Caliber 90 = 1.8 lb/A, use 0.6 lb of AAtrex + 1.2 lb of Princep, respectively.) Refer to Comment No. 2 following Table 2 for AAtrex 4L and Princep 4L conversions.

\*\*\*For cocklebur, yellow nutsedge, and velvetleaf control on fine-textured soils above 3% organic matter, apply 2.25 lb/A of AAtrex Nine-O, or equivalent rate of AAtrex 4L, or the same total amount of AAtrex + Princep, with 1.33-1.67 pt/A of Brawl.

## **TANK MIXTURE WITH AATREX; OR AATREX + 2,4-D; OR AATREX + 2,4-D + BANVEL FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS**

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, Brawl applied in combination with AAtrex will kill most emerged small annual weeds. Apply Brawl + AAtrex before, during, or after planting, but before corn emerges, according to the rates in Table 3.

Where heavy crop residues exist, add 0.8-1.6 pt/A of an appropriately labeled 3.8 lb ai/gal of 2,4-D amine (such as Weedar 64, Weedar 64A, DMA-4 Herbicide, Weedone® 638, or Formula 40) to the spray tank last and apply in a minimum of 25 gal of carrier per acre.

As carriers, nitrogen solutions and complete liquid fertilizers applied before corn emergence enhance burndown of existing weeds. Therefore, for best results use nitrogen solutions or complete liquid fertilizers as carriers instead of water. Add X-77 surfactant at 1.0-2.0 qt/100 gal of diluted spray, or another appropriate surfactant at its labeled rate, or add crop oil concentrate plus 28% liquid nitrogen (or equivalent). Apply before weeds exceed 3 inches in height. If alfalfa is present, add Banvel to the spray mixture at 0.33-0.5 pt/A and apply before alfalfa exceeds 6 inches in height.

For fields with existing sod grasses (e.g., brome grass, orchardgrass, rye, or timothy), when existing weeds exceed 3 inches in height or when very dry conditions exist, add Gramoxone brands at the rate indicated on the product label in place of or in addition to 2,4-D as indicated above. Do not apply Gramoxone brands in suspension-type liquid fertilizer. Observe all directions for use, precautions, and restrictions on the respective product labels when applying these products in tank mix combination. Use Balance combinations only on field corn.

## **TANK MIXTURE WITH MARKSMAN IN CONSERVATION TILLAGE – FIELD AND SILAGE CORN**

In conservation tillage systems where corn is planted directly into a cover crop or previous crop residue, Brawl + Marksman will kill most emerged small annual weeds. Apply Brawl + Marksman before, during, or after planting, but before corn emergence on *medium* and *fine soils* with greater than 2.5% organic matter. For fields with existing vegetation exceeding 3 inches in height or when very dry conditions exist, add Gramoxone brands at its standard rate. Brawl + Marksman may be applied postemergence to corn less than 3 inches tall and before weedy grasses exceed the 2-leaf stage.

As carriers, nitrogen solutions and complete liquid fertilizers applied before corn emergence enhance burndown of existing weeds. Do not apply Gramoxone brands in suspension-type liquid fertilizer or use on emerged corn.

Refer to the Marksman label and follow all directions, limitations, precautions, and restrictions regarding application and use in corn.

## **TANK MIXTURE WITH BALANCE PRO – FIELD CORN ONLY**

Brawl and Balance PRO have a complementary crop response and weed control profile which allows various tank mix rate combinations to be considered. The addition of Balance PRO will improve the control of certain problem weeds including Texas panicum, woolly cupgrass, and wild proso millet. Brawl improves both the duration and spectrum of annual grass and small seeded broadleaf weed control, in particular foxtails (yellow foxtail), witchgrass, and yellow nutsedge.



To reduce the risk of an adverse crop response, the Balance PRO label does not allow applications to *coarse-textured* soils with less than 1.5% organic matter and warns about applications to all soils with less than 1.5% organic matter or with pH greater than 7.5, as well as applications made to areas in fields with clay knolls, eroded hillsides, and exposed subsoil.

Listed below are compensating rate options for combinations of Brawl and Balance PRO, i.e. higher rates of Brawl are combined with lower rates of Balance PRO, and vice versa. Select a rate option for Brawl plus Balance PRO by weighing the intensity of problem weed pressure (population presence and density) and your acceptance for risk of an adverse crop response. For example, where Texas panicum, woolly cupgrass, or wild proso millet are a primary target weed, use a tank mix combination with a higher Balance PRO rate for the given soil type.

Where your acceptance of an adverse crop response risk is low and/or a more general weed spectrum is targeted (especially yellow foxtail, witchgrass or yellow nutsedge), use a tank mix combination with a higher Brawl rate for the given soil type. Where a target weed is listed as controlled on both product labels, a tank mix combination option including intermediate rates of both products may be used. Where a target weed is listed as controlled on only one product label, do not apply a rate of that product below what is listed for that weed on the individual product label, or unacceptable control may result. Follow all other directions for use, rate limitations, precautions and restrictions on both the Brawl and Balance PRO product labels.

Brawl plus Balance PRO tank mix rate options when applied preplant (incorporated or surface applied) up to 7 days before planting or preemergence in field corn:

**For *coarse-textured* soils**, where 1.5 or 1.88 oz/A of Balance PRO is used, 1.0-1.33 pt/A of Brawl may be applied. Do not use Balance PRO on *coarse-textured soils* with less than 1.5% organic matter.

**For *medium-textured* soils**, where 1.5 oz/A of Balance PRO is used, rates as low as 1.33 pt/A of Brawl may be applied. Where 1.88 or 2.25 oz/A of Balance PRO is used, rates as low as 1.0 pt/A of Brawl may be applied. Brawl can be used in combinations with Balance PRO at rates up to 1.67 pt/A on *medium-textured* soils.

**For *fine-textured* soils**, where 1.5 oz/A of Balance PRO is used, rates as low as 1.33 pt/A of Brawl may be applied if the soil organic matter is less than 3% - if the soil organic matter content is 3% or greater, 1.67 pt/A of Brawl may be applied. Where 1.88 or 2.25 oz/A of Balance PRO is used, rates as low as 1.33 pt/A of Brawl may be applied. Where 3.0 oz/A or more of Balance PRO are used, rates as low as 1.0 pt/A of Brawl may be applied. Brawl can be used in combinations with Balance PRO at rates up to 2.0 pt/A on *fine-textured soils* if the soil organic matter content is 3% or greater.

## **TANK MIXTURES FOR POSTEMERGENCE SALVAGE WEED CONTROL IN FIELD CORN ONLY**

For postemergence control of weeds in specific types of field corn, the Brawl combinations listed below may be used. Full season weed control from early preplant, preplant incorporated, or preemergence treatments can lead to maximum yield potential under competition-free conditions. However, if control of emerged weeds is needed, a postemergence program listed below can be applied to provide residual control for the remainder of the season.

**Restrictions:** (1) Follow all label directions, instructions, precautions, and restrictions for each product used. (2) Do not use fluid fertilizer with these mixtures or corn injury may occur. (3) For each tank mixture with Brawl, apply only to the specific field corn type specified on the tank mix product label. (4) In-row weed control may be reduced because of lack of coverage when applied to corn over 4 inches tall.

## **Brawl + Liberty Herbicide or Ignite® 280 SL Herbicide: Postemergence Use in LibertyLink® Corn or Corn Warranted by Bayer CropScience as Being Tolerant to Liberty Herbicide or Ignite 280 SL Herbicide**

These tank mixtures can be applied postemergence to weeds and corn from seed designated as LibertyLink or corn warranted by Bayer CropScience as being tolerant to Liberty Herbicide or Ignite 280 SL Herbicide. Liberty provides post-emergence control of a broad spectrum of grass and broadleaf weeds and Brawl provides residual control of grasses and certain broadleaf weeds listed in the label section **Brawl Applied Alone – Weeds Controlled**. Refer to the **Brawl Alone – Preplant Incorporated or Preemergence** section and use the minimum rate per soil texture and organic matter classification for season-long residual control from this tank mix combination with Liberty. Refer to the Liberty Herbicide or Ignite 280 SL Herbicide labels for the postemergence application rates according to weed species and their maximum height at the time of postemergence application. Where multiple weed species are present, use the highest Liberty rate listed to control the species and growth stages present.

Follow all applicable use directions, limitations, precautions, and restrictions regarding application to corn on the Brawl, Liberty Herbicide, and Ignite 280 SL Herbicide labels. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

### **Brawl + Touchdown Brands or Roundup Brands for Postemergence Application to Glyphosate-Tolerant Corn (e.g., Roundup Ready® or Agrisure™ GT)**

The tank mixture of Brawl + Touchdown or Roundup brands can be applied postemergence to weeds and to corn designated as glyphosate-tolerant. Application may be applied postemergence to glyphosate-tolerant corn from emergence until corn reaches 30 inches tall or the V8 stage (8 leaves with collars), whichever comes first. This mixture will provide postemergence control of weed species on the Touchdown brand or Roundup brand label and residual control of weed species on the Brawl label. Use the minimum Brawl rate postemergence with Touchdown or Roundup in glyphosate-tolerant corn as specified in the **Corn - Brawl Alone – Preplant Incorporated or Preemergence** section of this label according to soil texture and organic matter. Refer to the Touchdown brand or Roundup brand label and follow appropriate use directions, application procedures, precautions, and restrictions. Refer to the Touchdown brand or Roundup brand label for directions for control of problem species.

Follow all applicable use directions, limitations, precautions, and restrictions regarding application to corn on the Brawl and Touchdown brand or Roundup Ultra brand labels, and on the **Supplemental Labeling of Roundup Ultra for Postemergence Application to Corn with the Roundup Ready Gene**. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

### **Brawl + Touchdown Brands or Roundup Brands + AAtrex for Postemergence Application to Glyphosate-Tolerant Corn (e.g., Roundup Ready or Agrisure GT)**

The tank mixture of Brawl + AAtrex + Touchdown brands or Roundup brands can be applied postemergence to weeds and to corn designated as glyphosate-tolerant. Application may be applied postemergence to glyphosate-tolerant corn from emergence up to 12 inches in height. This mixture will provide postemergence control of weed species on the Touchdown brand or Roundup brand label and residual control of weed species on the Brawl + AAtrex label. Use the minimum Brawl + AAtrex rate postemergence with Touchdown or Roundup in glyphosate-tolerant corn as specified in the **Corn – Brawl Combinations – Tank Mixture With AAtrex or Princep, or AAtrex + Princep – Preplant Incorporated or Preemergence** section and **Table 3** of this label according to soil texture and organic matter.

Follow all applicable use directions, limitations, precautions, and restrictions regarding application to corn on the Brawl, AAtrex, and Touchdown brand or Roundup brand labels for application to glyphosate-tolerant corn. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

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## **COTTON – BRAWL ALONE**

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**Application:** Apply Brawl preemergence only in Area 1\* at the rate of 0.5-1.0 pt/A on sandy loams, 0.66-1.33 pt/A on *medium soils*, or 1.0-1.33 pt/A on *fine soils*. Apply Brawl preplant incorporated or preemergence in Area 2\*\* at 1.0 pt/A on sandy loams, 1.0-1.33 pt/A on *medium soils*, or 1.33 pt/A on *fine soils*. Apply Brawl postemergence to cotton and preemergence to weeds at 0.5-1.33 pt/A, according to the state rate limitations in the following **Postemergence** section. **Do not use on sands and loamy sand.**

\*Area 1 = AR, KS, LA, MS, TN, and Bootheel of MO

\*\*Area 2 = NM, OK, and TX

**Fall Application for Italian Ryegrass Control:** Brawl may be applied for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). Apply Brawl at 1.33-1.67 pt/A in the fall (September 1 – December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower Brawl rate for coarse-textured soils and the higher rate for fine-textured soils. A tillage operation may precede the application. Do not incorporate to a depth greater than 2-3 inches if tillage follows the application of Brawl. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone brands can be tank mixed with Brawl to control emerged ryegrass. Refer to the Gramoxone brands label for specific rates, application instructions and restrictions. Other registered herbicides may be tank mixed with Brawl for control or improved control of other weeds present at the time of application. **Restrictions:** (1) *Do not apply Brawl to frozen ground.* (2) *If a spring application is made, the combined total amount of Brawl applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for cotton (2.6 pt/A, depending on soil texture).*

**Preplant Incorporated (NM, OK, and TX Only):** Apply to the soil and incorporate into the top inch of soil immediately before planting, at planting, or after planting, but before crop or weeds emerge. Use a rolling cultivator or similar implement to uniformly incorporate not more than 1 inch deep. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. Where furrow irrigation is used, wet the top of the bed for best results. If the crop is to be planted on beds, apply and incorporate after bed formation. Plant cotton below the zone of incorporation; i.e., at least 1 inch on *fine soils* and 1.5 inches on *coarse* and *medium soils*. If incorporated prior to planting, use a planter that will result in a minimum of soil disturbance.

**Note:** For best control of yellow nutsedge and suppression of seedling johnsongrass, apply Brawl preplant incorporated at the maximum rate for the soil texture, whether applied alone or mixed with Caparol 4L.

**Preemergence:** Apply to the soil surface at planting or after planting, but before weeds or crop emerge.

**Postemergence:** Apply Brawl broadcast over-the-top or directed to the soil surface according to the rate restrictions listed below by state. Over-the-top postemergence application may be made not later than 100 days before harvest, and directed-postemergence application may be made not later than 80 days before harvest. Application before weeds emerge or after clean cultivation to remove existing weeds is necessary since Brawl will not control emerged weeds. Brawl postemergence may be applied over any previous registered herbicide treatment. In sprinkler-irrigated areas, sprinkler irrigate after application with 1/2-1 inch of water (1/2 inch on *coarse-textured soils* to 1 inch on *fine-textured soils*) to incorporate Brawl. In furrow-irrigated areas, apply Brawl, incorporate with a rolling cultivator or similar implement that provides uniform shallow incorporation (2 inches or less), and then irrigate. In nonirrigated areas, if at least 1/2 inch of rainfall does not occur within 10 days after application, cultivate with a rolling cultivator or similar implement that provides uniform shallow incorporation of Brawl.

**VA, NC, SC, GA, FL, and AL:** Apply Brawl postemergence at 1.0-1.33 pt/A.

**TN, AR, KS, MS, MO, and LA:** Apply Brawl postemergence at 0.5-1.33 pt/A.

**TX, OK, NM, AZ, CA, and Clay Soils in AR:** Apply Brawl postemergence at 1.0-1.33 pt/A before August 1.

**Multiple Applications:** Where weed pressure is heavy, difficult to control species are expected, or reinfestation may occur, and a weed control program is used, multiple applications of Brawl are effective when used as part of the weed control program. Apply as a preplant incorporated or preemergence treatment and follow with an application postemergence to cotton before weeds emerge or after clean cultivation to remove existing weeds, since Brawl will not control emerged weeds. Apply Brawl postemergence over a previous preplant or preemergence Brawl application as shown in the following table.

State	Multiple Brawl Applications to Cotton		
	Preplant Incorporated or Preemergence Pt/A	+	Postemergence Pt/A
MS, LA, TN, AR, KS, MO	0.5-1.33 (Preemergence Only)	+	0.5-1.33
TX, OK, NM	1.0-1.33	+	1.0-1.33 before August 1
NC, VA	1.0-1.33 (Preemergence Only)	+	1.0-1.33

In sprinkler-irrigated areas, sprinkler irrigate after application with 1/2-1 inch of water (1/2 inch on *coarse-textured soils* to 1 inch on *fine-textured soils*) to incorporate Brawl. In furrow-irrigated areas, apply Brawl, incorporate with a rolling cultivator or similar implement that provides uniform shallow incorporation (2 inches or less), and then irrigate. In non-irrigated areas, if at least 1/2 inch of rainfall does not occur within 10 days after application, cultivate with a rolling cultivator or similar implement that provides uniform shallow incorporation of Brawl.

**Precautions:** (1) For best control of yellow nutsedge and suppression of seedling johnsongrass, apply Brawl preplant incorporated, preemergence, or postemergence to cotton and preemergence to weeds at the maximum rate for the soil texture, whether applied alone or in combinations. (2) To avoid concentration in the seed furrow, do not make broadcast applications of Brawl to cotton planted in furrows more than 2 inches deep. When making band applications to cotton planted in furrows deeper than 2 inches, ensure that band width does not exceed the width of the bottom of the furrow.

**Restrictions:** (1) Do not apply more than a total of 2.0 pt/A on coarse soils or 2.6 pt/A of Brawl on medium and fine soils during a growing season. These treatments may be applied over previous registered herbicide treatments. (2) Do not apply Brawl on sand or loamy sand soils, or in areas where water is likely to “pond” over the bed. (3) In furrow-planted cotton, to avoid concentration in the furrow and potential injury, do not apply Brawl postemergence until after first “knifing” or cultivation to level soil surface. (4) Do not apply over-the-top in fluid fertilizer or any other adjuvant, surfactant, oil, or other pesticide not listed in the cotton section of this label, or injury may occur. (5) Do not apply on Taloka silt loam. (6) Do not use in Gaines County, TX. (7) Do not graze or feed forage or fodder from cotton to livestock.

## COTTON – BRAWL COMBINATIONS

### TANK MIXTURE WITH CAPAROL 4L

Brawl tank mixtures with Caparol 4L may be applied preplant incorporated or preemergence in water or fluid fertilizer. When fluid fertilizer is used as a carrier for Brawl, either alone or in combination with Caparol 4L, mix only the amount that will be sprayed in one operation. Do not allow these mixtures to stand without agitation. Only water may be used as a carrier for postemergence-directed application.

In addition to those weeds controlled by Brawl alone, Brawl + Caparol 4L, applied preplant incorporated or preemergence, also controls the following weeds: junglerice, wild oats, annual morningglory, groundcherry, hairy nightshade, lambsquarters, malva, mustard, prickly sida (teaweed), purslane, ragweed, and shallow-germinating seedlings of cocklebur and coffeeweed. As a postemergence-directed application, Caparol provides postemergence control and residual control of weeds on its label, while Brawl provides residual control of weed species on its label. Brawl will not control emerged weeds.

**Preplant Incorporated or Preemergence:** Apply Brawl + Caparol 4L, either preplant incorporated or preemergence, using the appropriate rate from Table 5. Plant cotton below the zone of incorporation; i.e., at least 1.0 inch on *fine soils* and 1.5 inches on *coarse and medium soils*. If incorporated before planting, use a planter that will result in a minimum of soil disturbance.

**Table 5: Brawl + Caparol 4L – Cotton (NM, OK, TX)**

Use Areas	Soil Texture	Broadcast Rates Per Acre	
		Brawl	Caparol 4L
ALL	Sand, loamy sand	DO NOT USE	
OK, Blacklands and Gulf Coast of TX	Loams	0.8-1.33 pt	2.4 pt
	Clays	1.33 pt	4.8 pt
Rio Grande Valley of TX	Loams	0.8-1.33 pt	3.2 pt
	Clays	1.33 pt	4.8 pt
NM; High Plains, Rolling Plains, Edwards Plateau of TX; and Southwest TX	Sandy loam	0.8-1.0 pt	1.6 pt
	Loams	0.8-1.33 pt	2.4 pt
	Sandy clay loams	1.33 pt	2.4 pt
	Other clay soils	1.33 pt	3.2 pt

**Postemergence-Directed (AR, AZ, CA, LA, MS, NM, OK, TN, TX, and MO):** Brawl may be tank mixed with Caparol 4L in water and applied postemergence-directed in cotton for control of emerged weeds listed on the Caparol 4L label and residual preemergence control of weeds controlled by Brawl and Caparol 4L. Alternatively, application may be made after cultivation for residual preemergence control. These treatments may be applied over previous registered treatments, including Brawl, provided the maximum label rate of any product is not exceeded. Do not apply over-the-top of cotton, or injury may occur.

Apply Brawl + Caparol 4L in a minimum of 20 gal of spray volume per acre. Follow the directions, restrictions, and precautions on the Caparol 4L label when Caparol is applied as a postemergence-directed application. Refer to the directions, restrictions, and precautions for use of Brawl under the **Cotton – Brawl Alone – Postemergence** section.

To avoid concentration in the seed furrow, do not make broadcast applications of Brawl + Caparol 4L to cotton planted in furrows more than 2 inches deep. When making band applications to cotton planted in furrows deeper than 2 inches, ensure that the band width does not exceed the width of the bottom of the furrow.

**Restrictions:** (1) Do not apply on sand or loamy sand soils, or in areas where water is likely to “pond” over the bed. (2) Do not apply in cut areas of newly leveled fields, or in areas of excess salt. (3) Do not apply to glandless cotton varieties. (4) Do not apply on Taloka silt loam. (5) Do not use in Gaines County, TX. (6) Do not graze or feed forage or fodder from cotton to livestock.

Refer to the Caparol 4L label for further instructions and restrictions.

### TANK MIXTURE WITH COTORAN DF

Brawl may be applied in tank mixture with Cotoran DF preemergence for control of those weeds controlled by Brawl alone and those as listed on the Cotoran DF label. This combination will also control spotted spurge, hyssop spurge, nodding spurge, and prostrate spurge. Apply to the soil surface at planting or after planting, but before weeds or crop emerge, using the appropriate rates from Table 6. The tank mixture may be applied postemergence to cotton, but preemergence to weeds, or it may be applied postemergence to both cotton and broadleaf weeds for control of weeds on the Cotoran label. Apply as a directed, semi-directed, or over-the-top spray. Brawl will not control emerged weeds, but will provide preemergence control of species on its label.

**Mixing Instructions:** Incompatibility may occur when tank mixing Brawl and Cotoran DF. To help overcome this condition, fill the spray tank <sup>1</sup>/<sub>4</sub> full with water or fluid fertilizer and start agitation, add the Cotoran DF and allow it to become dispersed. Add X-77 at 0.5% volume/volume final spray (4.0 pt/100 gal), then add the Brawl and finally the rest of the water or fluid fertilizer. Agitate during mixing and application to maintain a uniform suspension. Do not use fluid fertilizer as a carrier for postemergence applications.

**Table 6: Brawl + Cotoran DF – Cotton**

Soil Texture	Broadcast Rates Per Acre		
	Brawl (pt)		Cotoran DF*** (lb)
	Area 1*	Area 2**	
Sand, loamy sand	DO NOT USE		
Sandy loam	0.5-1.0	0.8-1.0	1.2
Loam, silt loam, silt	0.66-1.33	1.0-1.33	1.2-1.9
Fine soil	1.0-1.33	1.33	1.9-2.4

\*Area 1 = AR, LA, MS, Bootheel of MO and TN

\*\*Area 2 = Eastern OK, Gulf Coast, Rio Grande Valley, and Eastern TX

\*\*\*When using Cotoran 4L, use equivalent rates. Multiply lb of Cotoran DF by 1.7 to get pt of Cotoran 4L.

**Postemergence:** This tank mixture may be applied postemergence to cotton, but preemergence to weeds or postemergence to both cotton and weeds for control of weeds on the Cotoran label. Apply as a directed, semi-directed, or over-the-top spray. Brawl will not control emerged weeds, but will provide preemergence control of species on its label. Where rate ranges are given for Cotoran DF, use the higher rate when applying postemergence to weeds that are 2 inches or less. These treatments may be applied over previous registered treatments, including Brawl, provided the maximum label rate of any product is not exceeded.

To avoid concentration in the seed furrow, do not make broadcast applications of Brawl + Cotoran to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width must not exceed the width of the bottom of the furrow.

**Restrictions:** (1) Do not apply Brawl + Cotoran on sand or loamy sand soils, or in areas where water is likely to “pond” over the bed, or crop injury may occur. (2) The use of Cotoran following the use of a systemic insecticide at planting may result in crop injury. (3) Do not use on Taloka silt loam. (4) Do not use in Gaines County, TX. (5) Do not feed treated forage or gin trash to livestock, or graze treated areas.

Refer to the Cotoran labels for further instructions, precautions, and restrictions.

## **TANK MIXTURE OF BRAWL OR BRAWL + COTORAN WITH GRAMOXONE BRANDS, TOUCHDOWN BRANDS OR ROUNDUP BRANDS FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS**

In minimum-tillage or no-tillage systems where cotton is planted directly into a cover crop, stale seedbed, or previous crop residues, the contact herbicides Gramoxone brands, Touchdown brands or Roundup brands may be added to a tank mix of either Brawl or Brawl + Cotoran. When used as directed, the Gramoxone brands portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds. Touchdown or Roundup brand combinations will control emerged annual and perennial weeds when applied as directed on the Touchdown or Roundup label. The Brawl and Brawl + Cotoran portion of the tank mixture provides preemergence control of the weeds listed on this label in the Brawl and Brawl + Cotoran sections, respectively.

Refer to the label of each product used in combination and observe the planting details, information regarding application, geographical restrictions, and all other precautions and restrictions. Refer to **Mixing Instructions** under **Tank Mixture with Cotoran DF** section.

**Application:** Apply before, during, or after planting, but before the cotton emerges. Apply Brawl at 0.8-1.0 pt/A on sandy loams, *medium-*, and *fine-textured soils*. Refer to Table 6 for the Cotoran DF rates.

**Gramoxone Brands:** Apply as directed on the product label. This treatment will not control weeds taller than 6 inches.

**Note:** Do not apply combinations containing Gramoxone brands in suspension-type liquid fertilizers, as the activity of paraquat will be reduced.

**Touchdown Brands or Roundup Brands:** See the Touchdown or Roundup label for weeds controlled, listed rates, and other use directions.

**Precaution:** Do not apply Brawl + Cotoran 4L + Roundup in tank mixture because of compatibility problems.

Apply in 20-60 gal of water or fluid fertilizer per acre with ground equipment.

**Precautions:** (1) *If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days, or where the seeding slit has not been properly closed.* (2) *Refer to the Cotoran labels and the **Tank Mixture with Cotoran DF** section of this label for further instructions, precautions, and restrictions.*

**Restriction:** *Do not use in Gaines County, TX.*

## **TANK MIXTURE WITH MSMA, MSMA + CAPAROL, OR MSMA + COTORAN**

Brawl may be tank mixed with MSMA in water and applied postemergence-directed for control of emerged weeds listed on the MSMA product label and residual preemergence control of weeds controlled by Brawl. The addition of Caparol or Cotoran will add control of weed species on their respective labels.

**Postemergence-Directed (AL, AR, AZ, CA, FL, GA, LA, MS, NC, NM, OK, SC, TN, TX, VA, and Bootheel of MO):** Apply Brawl + MSMA postemergence-directed to cotton at least 3 inches tall according to the directions, restrictions, and precautions on the MSMA product label, as well as the directions, restrictions, and precautions for use of Brawl in the section for **Cotton – Brawl Alone – Postemergence**. Do not apply after first cotton bloom. These treatments may be applied over previous registered treatments, including Brawl, provided the maximum label rate of any product is not exceeded. Cotoran or Caparol may be added to the Brawl + MSMA tank mixture according to the respective label directions for application to cotton at least 3 inches tall. When these mixtures are used, follow the mixing instructions for Brawl + Caparol or Cotoran and then add the MSMA product.

Do not use Brawl in tank mix with premixes of MSMA plus herbicides other than those registered for use in tank mixture with Brawl on cotton.

## **TANK MIXTURE WITH TREFLAN FOR POST-DIRECTED FOLLOWED BY SOIL INCORPORATION APPLICATIONS**

Brawl may be applied as a tank mixture with Treflan in cotton for improved late-season weed control when used as an incorporated lay-by type application. This combination may be applied after the cotton is at least 3 inches tall and has reached the 4 true-leaf stage. Make the application directed to the soil surface and away from the crop foliage. Incorporate using a sweep or rolling type cultivator to provide uniform and shallow mixing into the top 2 inches of soil. Refer to each product label for the appropriate application rates by soil type and for this application timing and follow all product use limitations and restrictions.

## TANK MIXTURE WITH TOUCHDOWN BRANDS OR ROUNDUP BRANDS FOR USE ON ROUNDUP READY COTTON ONLY

Apply Brawl as a tank mixture with Touchdown or Roundup in water postemergence over-the-top or postemergence-directed for control of emerged weeds listed on the Touchdown or Roundup labels and for residual preemergence control of weeds listed on the Brawl label. See the **Cotton – Brawl Alone – Postemergence** section of this label for rates and timings of Brawl and follow the Touchdown or Roundup label for their respective rates, application method, and application timing restrictions. Do not add additional spray adjuvants, surfactants, fertilizer additives, or pesticides to this tank mixture if applied postemergence over-the-top, or unacceptable injury may occur. Refer to the Touchdown brand or Roundup brand label and follow appropriate use directions, application procedures, precautions, and restrictions.

**Precaution:** *Postemergence over-the-top applications of this tank mixture may cause temporary injury in the form of necrotic spotting to exposed cotton leaves, which will not affect normal plant development.*

**Restrictions:** (1) Do not apply this tank mixture postemergence to any cotton variety unless it is designated Roundup Ready and unless the Touchdown or Roundup formulation being used is registered for postemergence use in Roundup Ready Cotton. (2) Do not apply Touchdown or Roundup postemergence over-the-top to cotton past the growth stage limit specified on their respective labels. (3) Do not use on sand or loamy sand soils in Gaines county, TX.

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## SOYBEAN, IMMATURE SEED

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Brawl may be applied preplant or preemergence for the control or suppression of grass and small seeded broadleaf weeds in immature-seed soybean or other food-grade soybeans. For specific rates, see the rate table listed below.

**Preplant Surface-Applied:** For minimum-tillage or no-tillage systems only, Brawl alone may be applied up to 45 days before planting. Use only split applications for treatments made 30-45 days before planting, with  $\frac{2}{3}$  the listed broadcast rate for the crop and soil texture applied initially and the remaining  $\frac{1}{3}$  applied at planting. Treatments less than 30 days before planting may be made either as a split or a single application. If weeds are present at the time of treatment, apply in a tank mixture combination with a contact herbicide (for example, Gramoxone brands, Touchdown, or Roundup). Observe directions for use, precautions, and restrictions on the label of the contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.

**Preplant Incorporated:** Apply Brawl to the soil and incorporate into the top 2 inches of soil within 14 days before planting, using a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. If crop will be planted on beds, apply and incorporate Brawl after bed formation, unless specified otherwise.

**Preemergence:** Apply Brawl during planting (behind the planter) or after planting, but before weeds emerge.

### Brawl Broadcast Rates Per Acre

Soil Texture	Percent Organic Matter in Soil	
	< 3%	> 3%
Coarse	1 – 1.33 pt	1.33 pt
Medium	1.33 – 1.67 pt	1.33 – 1.67 pt
Fine	1.33 – 1.67 pt	1.67 – 2.0 pt

**Precaution:** *Brawl will not control emerged weeds. Control weeds that are present by another means, e.g., mechanical means or by another herbicide.*

**Restrictions:** (1) Do not cut for hay within 120 days following a Brawl application. (2) Do not use for forage within 60 days following a Brawl application. (3) Do not apply more than 2.0 pt/A of Brawl during any one crop year.



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## GRASSES GROWN FOR SEED (ID, OR, WA) – BRAWL APPLIED ALONE

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To control weeds and volunteer grasses in established grasses grown for seed, apply Brawl to established stands of tall fescue, orchardgrass, perennial ryegrass, fine fescue, bentgrass, and Kentucky bluegrass just before, during, or immediately following the first fall rains or just before or during a late summer or early fall irrigation, but before target grasses emerge. The seed crop must have had one seed harvest or been established at least one year. Evenly spread, remove, or burn the post-harvest residue (straw) before applying Brawl. Rainfall or irrigation is required after application and before weed emergence for best control. Brawl will provide preemergence control/suppression of volunteer seedlings of perennial ryegrass, fine fescue spp., tall fescue, orchardgrass, bentgrass and Kentucky bluegrass. Brawl will control those weed species listed in the **Brawl Alone** section of the Brawl label and will suppress or control rattail fescue, annual bluegrass, Italian ryegrass, California brome, downy brome, and roughstalk bluegrass.

Apply Brawl by ground equipment in a minimum of 10 gallons of water per acre using the rate listed below according to grass species.

Established Grass Crop Grown for Seed	Pt/A
Fine fescue spp.	1.0
Perennial ryegrass	1.0
Bentgrass	1.0-1.33
Kentucky bluegrass	1.0-1.33
Orchardgrass	1.0-1.33
Tall fescue	1.0-1.33

**Precautions:** (1) Avoid application after the 15th of November or poor control may result. (2) Tank mixtures with other pesticides, or the addition of an adjuvant, can increase the risk of crop injury. (3) Application to perennial ryegrass and fine fescue stands under stress may cause crop injury. (4) If weed escapes occur following a Brawl application, an application of a postemergence herbicide may be necessary to control escapes. When making such an application, follow all directions, precautions and restrictions on the label of the postemergence herbicide. (5) Control may be decreased if excessive straw from the previous harvest is present at application and/or insufficient rainfall/irrigation occurs.

**Restrictions:** (1) Do not graze forage regrowth for 60 days following application west of the Cascades. (2) In areas east of the Cascades, do not graze forage regrowth for 150 days following application. (3) Hay may be harvested anytime between seed harvest and the next application of S-metolachlor. (4) Apply Brawl only once per crop year.

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## HORSERADISH

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Apply a single application of Brawl at a broadcast rate of 1.0-1.33 pt/A to the soil surface after planting, but before weeds or crop emergence (i.e., preemergence). Use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils. A band application may also be used, applying proportionally less spray mixture on the area actually treated. Brawl will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.

**Restrictions:** (1) Make only one application of Brawl per crop. (2) Do not apply more than 1.33 pt/A of Brawl per crop. (3) Harvest horseradish at normal timing.

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## PEANUTS – BRAWL ALONE

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Apply Brawl, either preplant incorporated, postplant incorporated, preemergence, or lay-by, using the appropriate rate specified below. **Preplant Incorporated or Preemergence:** Follow instructions for use of Brawl alone under **Application Procedures**. **Postplant Incorporated:** Apply and shallowly incorporate Brawl into the soil after planting, but before peanut



germination. Incorporation depth and incorporating implements must be kept above the seed, or seed will be damaged.  
**Lay-by:** Apply Brawl to the soil immediately after the last normal cultivation.

Apply Brawl alone, preplant incorporated, postplant incorporated, preemergence, or lay-by, at a broadcast rate of 1.0-1.33 pt/A in the Southeast\* and 0.8-1.33 pt/A in NM, OK, and TX.

\*In the Southeast, use 1.33-2.0 pt/A and apply preemergence for partial control of Florida beggarweed.

**Restrictions:** (1) Brawl alone may be applied as directed after any of the following preplant incorporated herbicides when used according to their label use rates, directions, and restrictions: Balan; Treflan E.C.; Sonalan; Pursuit; or Prowl. (2) Do not graze or feed peanut forage or fodder to livestock for 30 days following application. (3) Preharvest Interval (PHI): Do not apply within 90 days of harvest.

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## PEANUTS – BRAWL COMBINATIONS

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### TANK MIXTURE WITH BALAN L.C.

Brawl + Balan tank mixture applied preplant incorporated controls those weeds listed under **Brawl Applied Alone** and those weeds as listed on the Balan label.

Apply 1.0-1.33 pt/A of Brawl + the labeled use rate of Balan in a minimum of 10 gal of spray volume per acre for ground application or in a minimum of 5.0 gal of spray volume per acre for aerial application. Follow all directions, restrictions and precautions on the Balan label for soil preparation, application and incorporation of this tank mix. Apply and incorporate Brawl + Balan up to 14 days prior to planting.

**Multiple Applications:** Where weed pressure is heavy or where species difficult to control are expected, Brawl is most effective when used as follows:

### Southeast Only (AL, FL, GA, NC, SC, VA)

**Preplant Incorporated:** Apply Brawl preplant incorporated as directed under **Peanuts – Brawl Alone** or apply Brawl + Balan preplant incorporated as directed previously in this section. Refer to the respective section for weeds controlled.

**OR**

**Preemergence before “ground cracking”:** Apply Brawl any time from preemergence up to “ground cracking” at 1.0-2.0 pt/A for extended control of weeds not yet emerged. Refer to the **Brawl Applied Alone** section for a list of weeds controlled.

Follow the PPI or PRE application by:

**Lay-by:** Apply Brawl at lay-by as directed under **Peanuts – Brawl Alone**. Use only when late germinating weeds are expected to be a problem. Refer to the **Brawl Applied Alone** section for a list of weeds controlled.

**Restrictions:** (1) Do not apply more than the equivalent of 2.67 lb of active ingredient of Brawl per acre during any one year. If Brawl II is used as a sequential treatment, the lb of active ingredient (1.0 pt = 0.95 lb) plus the lb of active ingredient of Brawl must not exceed 2.67 lb. **Do not use Dual II Magnum, or Dual IIG Magnum after peanuts have emerged.** (2) Do not graze or feed peanut forage or fodder to livestock for 30 days following application, and (3) Preharvest Interval (PHI): Do not apply within 90 days of harvest.

### Southwest Only (NM, OK, TX)

**1st Application:** Apply Brawl preplant incorporated or preemergence or at-cracking as directed previously in this section. Refer to the respective section for weeds controlled.

**2nd Application:** Apply Brawl at lay-by as directed under **Peanuts – Brawl Alone** on that label. Use only when late germinating weeds are expected to be a problem. Refer to the **Brawl Applied Alone** section for a list of weeds controlled.

**Restrictions:** (1) Do not apply more than the equivalent of 2.67 lb of active ingredient of Brawl per acre during any one year. If Brawl II is used as a sequential treatment, the lb of active ingredient (1.0 pt = 0.95 lb) plus the lb of active ingredient of Brawl must not exceed 2.67 lb. **Do not use Brawl II, or Dual IIG Magnum after peanuts have emerged.** (2) Do not graze or feed peanut forage or fodder to livestock for 30 days following application, and (3) Preharvest Interval (PHI): Do not apply within 90 days of harvest.

## TANK MIXTURE OR SEQUENTIALLY WITH PURSUIT

The tank mixture or sequential treatment of Brawl and Pursuit controls all weeds controlled by Brawl alone and by Pursuit alone. Refer to the **Brawl Applied Alone** section for weeds controlled by Brawl and to the Pursuit label for weeds controlled by Pursuit.

Refer to the respective labels for application methods, timing, rates, restrictions, and precautions; and use in accordance with the more restrictive label. Do not exceed the label rate of either product. Brawl will not control emerged weeds.

## TANK MIXTURE WITH SONALAN

The tank mixture controls all weeds controlled by Brawl alone and by Sonalan alone. Refer to the **Brawl Applied Alone** section for weeds controlled by Brawl and to the Sonalan label for weeds controlled by Sonalan.

Apply Brawl + Sonalan preplant incorporated using the appropriate rate from Table 7. Follow the directions for soil preparation procedures for Sonalan.

**Table 7: Brawl + Sonalan – Peanuts**

Soil Texture	Broadcast Rates Per Acre			
	Southeast		NM, OK, TX	
	Brawl	Sonalan	Brawl	Sonalan
<b>COARSE</b>	1.0-1.33 pt	1.25-2.0 pt	0.8-1.33 pt	1.25-2.0 pt
<b>MEDIUM</b>	1.0-1.33 pt	1.75-2.5 pt	0.8-1.33 pt	1.75-2.5 pt
<b>FINE</b>	1.0-1.33 pt	2.25-3.0 pt	0.8-1.33 pt	2.25-3.0 pt

Follow all use directions, limitations, precautions, and restrictions regarding application to peanuts on the Brawl and Sonalan labels.

## TANK MIXTURE WITH PROWL

Brawl + Prowl applied preplant incorporated controls all weeds controlled by Brawl alone plus Texas panicum, field sandbur, johnsongrass from seed, lambsquarters, kochia, annual spurge, and other species on the Prowl label. Apply Brawl + Prowl by ground or by aerial equipment within 14 days before planting. Incorporate into the top 1-2 inches of soil before planting and within 7 days of application, using a finishing disk or similar implement capable of providing uniform incorporation. If peanuts will be planted on beds, apply and incorporate after bed formation. Refer to the **Incorporation** instructions of the respective labels for additional directions.

Apply Brawl + Prowl preplant incorporated, using the appropriate rates from Table 8.

**Table 8: Brawl + Prowl – Peanuts**

Soil Texture	Broadcast Rates Per Acre	
	NM, OK, TX	Other Peanut Growing States
	Brawl + Prowl	Brawl + Prowl
Sand, loamy sand	0.8 + 1.0-1.5 pt	1.0-1.33 + 1.5-2.0 pt
Sandy loam	0.8-1.0 + 1.0-1.5 pt	1.0-1.33 + 1.5-2.0 pt
Fine soil	1.33 + 1.0-1.5 pt	1.33 + 1.5-2.0 pt

Follow all use directions, limitations, precautions, and restrictions regarding application to peanuts on the Brawl and Prowl labels.

## TANK MIXTURE OR SEQUENTIALLY WITH GRAMOXONE BRANDS

Brawl + Gramoxone brands applied at ground cracking or sequentially will control or suppress small (1-6 inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the **Brawl Applied Alone** section of this label. Apply Gramoxone brands plus the appropriate Brawl rate from the **Peanuts – Brawl Alone** section in a

minimum spray volume of 20 gal/A with ground equipment. A second application of Brawl + Gramoxone brands may be made 28 days after ground cracking. (Refer to the **Peanuts – Brawl Combinations – Multiple Applications** section of this label for geographical areas where multiple applications are allowed.) Refer to the Gramoxone brands label and follow all directions, limitations, and restrictions.

#### **TANK MIXTURE OR SEQUENTIALLY WITH GRAMOXONE BRANDS + BASAGRAN**

The addition of Basagran to the Brawl + Gramoxone brands mixture will result in improved control of such problem broadleaf weeds as prickly sida, cocklebur, smartweed, and bristly starbur. Brawl + Gramoxone brands + Basagran applied at ground cracking or sequentially will control or suppress small (1-6 inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the **Brawl Applied Alone** section of this label. Apply Basagran + Gramoxone brands with the appropriate Brawl rate from the **Peanuts – Brawl Alone** section in a minimum spray volume of 20 gal/A with ground equipment. A second application of Brawl + Gramoxone brands + Basagran may be made 28 days after ground cracking. (Refer to the **Peanuts – Brawl Combinations – Multiple Applications** section of this label for geographical areas where multiple applications are allowed.) Refer to the Gramoxone brands and Basagran labels and follow all directions, limitations, and restrictions.

#### **TANK MIXTURE OR SEQUENTIALLY WITH GRAMOXONE BRANDS + BUTYRAC 200 OR BUTOXONE 200**

The addition of Butyrac 200 or Butoxone 200 to the Brawl + Gramoxone brands mixture will result in improved control of such problem broadleaf weeds as sicklepod, morningglory, and cocklebur. Brawl + Gramoxone brands + Butyrac 200 or Butoxone 200 applied at ground cracking or sequentially will control or suppress small (1-6 inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the **Brawl Applied Alone** section of this label. Apply Gramoxone brands + Butyrac 200 or Butoxone 200 with the appropriate Brawl rate from the **Peanuts – Brawl Alone** section in a minimum spray volume of 20 gal/A with ground equipment. A second application of Brawl + Gramoxone brands + Butyrac 200 or Butoxone 200 may be made 28 days after ground cracking. (Refer to the **Peanuts – Brawl Combinations – Multiple Applications** section of this label for geographical areas where multiple applications are allowed.) Refer to the Gramoxone brands, Butyrac 200 or Butoxone 200 labels and follow all directions, limitations, and restrictions.

#### **TANK MIXTURE OR SEQUENTIALLY WITH BASAGRAN**

Brawl + Basagran applied at ground cracking or sequentially will control species on the Basagran label and provide residual control of species listed in the **Brawl Applied Alone** section of this label. Apply the labeled rate of Basagran in 20 gal/A, depending on weed species and stage of growth as specified on the Basagran label, with the appropriate Brawl rate from the **Peanuts – Brawl Alone** section. A second application of the combination may be made before peanut pegging. (Refer to the **Peanuts – Brawl Combinations – Multiple Applications** section of this label for geographical areas where multiple applications are allowed.) A second Basagran application may be made in all peanut growing areas, if needed. Refer to the respective labels and follow all directions, limitations, and restrictions for each product.

#### **TANK MIXTURE OR SEQUENTIALLY WITH BASAGRAN + BUTYRAC 200 OR BUTOXONE 200**

Brawl + Basagran + Butyrac 200 or Butoxone 200 applied at ground cracking or sequentially will control species on the Basagran label and on the Butyrac or Butoxone labels, especially morningglories. Apply the labeled rate of Basagran + the labeled rate of Butyrac 200 or Butoxone 200 in 20 gal/A, depending on weed species and stage of growth as specified on the Basagran label, with the appropriate Brawl rate from the **Peanuts – Brawl Alone** section. A second application of the combination may be made before peanut pegging. (Refer to the **Peanuts – Brawl Combinations – Multiple Applications** section of this label for geographical areas where multiple applications are allowed.) A second Basagran + Butyrac 200 or Butoxone 200 application may be made in all peanut growing areas, if needed. Refer to the respective labels and follow all directions, limitations, and restrictions for each product.

#### **TANK MIXTURE OR SEQUENTIALLY WITH STORM®**

Brawl + Storm applied at ground cracking through 2 expanded tetrafoliate leaves or Brawl applied according to the directions for **Brawl Alone** and followed with an at-cracking through postemergence treatment of Storm as specified on its label will control species on the Storm label and provide residual control of species listed in the **Brawl Applied Alone** section of this label. Brawl will not control emerged weeds. Control weeds that are present by another means, e.g., mechanical means or by another herbicide. Refer to the **Peanuts – Brawl Alone** section and to the Storm label and follow all directions, limitations, and restrictions for each product.

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## BEANS, PEAS, AND LENTILS – BRAWL ALONE

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Beans, peas, and lentils, including garbanzo, great northern beans, kidney beans, lima beans, mung beans, navy beans, peas (English\*; southern peas, such as blackeye, pinkeye, crowder, etc.), pinto beans, snap beans (green, wax, string), lentils, and lupines (sweet, white, white sweet, and grain).

### Fall Application:

- Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
- Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
- Apply after October 31 north of Route 136 in IL.

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.67-2.0 pt/A on *medium-textured* and 2.0 pt/A on *fine-textured soils*. Do not apply to frozen ground. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not exceed an incorporation depth greater than 2-3 inches. Minimize furrow and ridge formation in the tillage operations. **Restriction:** If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for beans, peas, and lentils.

### Spring Application:

Apply Brawl, either preplant incorporated or preemergence, using the appropriate rate specified below. **Preplant Incorporated or Preemergence:** Follow instructions for use of Brawl alone under **Application Procedures**. On *coarse soils* with less than 3% organic matter, apply 1.0-1.33 pt/A of Brawl or 1.33 pt/A if organic matter is 3% or greater. On *medium soils*, apply 1.33-1.67 pt/A of Brawl. On *fine soils*, apply 1.33-1.67 pt/A of Brawl if organic matter content is less than 3%, or 1.67-2.0 pt/A if organic matter content is 3% or greater.

\*On English peas, use only preemergence applications. If soils are cold and wet during pea germination and emergence, the use of Brawl may delay maturity and/or reduce yields.

**Restrictions:** (1) Do not cut for hay within 120 days following a Brawl application, (2) Do not use for forage within 60 days following a Brawl application, and (3) Do not apply more than 2.0 pt/A of Brawl during any one crop year.

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## BEANS, PEAS, AND LENTILS – BRAWL COMBINATIONS

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**Restriction:** When applying Brawl in combination on beans, peas, and lentils, do not cut for hay within 120 days following application.

### TANK MIXTURE AND SEQUENTIAL APPLICATIONS WITH EPTAM – BEANS (GREEN OR DRY)

This mixture controls all weeds controlled by Brawl alone and by Eptam alone. Refer to the **Brawl Applied Alone** section of this label for weeds controlled by Brawl alone and to the Eptam label for weeds controlled by Eptam.

**Preplant Incorporated:** Follow instructions for use of Brawl alone under **Application Procedures**. **Sequential:** Apply Eptam alone preplant incorporated, as specified on that label. Follow with a preemergence application of Brawl, at rates specified for Brawl alone, during planting (behind the planter) or after planting, but before the weeds or crop emerge.

Refer to the **Product Information** section of this label and to the Eptam label for weather, cultural practices, and all other precautions and limitations that affect performance of these products.

Apply the labeled rate of Eptam 7E\* with Brawl as specified. On *coarse soils*, apply 0.8 pt/A of Brawl if organic matter content is less than 3%, or 1.0 pt/A if organic matter content is 3% or greater. On *medium soils*, apply 1.0 pt/A of Brawl if organic matter content is less than 3%, or 1.33 pt/A if organic matter content is 3% or greater. On *fine soils*, apply 1.33 pt/A of Brawl if organic matter is less than 3%, or 1.33-1.67 pt/A if organic matter is 3% or greater.

\*Refer to the Eptam label for rate limitations depending on geographical area, and for species and varietal restrictions.

Follow all restrictions and precautions on the respective Eptam 7E label and in the **Beans, Peas, and Lentils – Brawl Alone** section of this label.

## TANK MIXTURE WITH TREFLAN – BEANS (DRY – KIDNEY, NAVY, PINTO, ETC.; LIMA; AND SNAP)

Brawl + Treflan tank mix applied preplant incorporated controls those weeds listed under **Brawl Applied Alone** and those weeds listed for Treflan alone on the Treflan label. Brawl + Treflan may be applied by ground or by aerial equipment and incorporated up to 14 days prior to planting. Follow the most restrictive procedures on this label and on the respective Treflan label, using equipment that provides uniform 2-inch incorporation.

Apply Brawl + Treflan tank mix using the appropriate Brawl rate specified for Brawl alone, and the Treflan rate from the Dry Beans, and the Lima and Snap Beans sections of the respective Treflan label. Choose the product rate for the specific soil texture/organic matter classification and weed species expected.

Follow all restrictions and precautions on the respective Treflan label and in the **Beans, Peas, and Lentils – Brawl Alone** section of this label.

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## POTATOES – BRAWL ALONE

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Apply Brawl, either incorporated, preemergence, or postemergence to potatoes after hilling/lay-by, according to directions specified below for control of weeds listed under the **Product Information** section. Within a rate range, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter. Effectiveness will be reduced if later cultural practices expose untreated soil. For applications by center pivot irrigation, see the **Center Pivot Irrigation Application** section of this label.

**Incorporated:** Apply Brawl at 1.0-2.0 pt/A to the soil and incorporate into the top 3 inches before planting, using a finishing disk, harrow, rolling cultivator, or similar implement. During planting and later cultural practices, avoid bringing untreated soil to the surface. Postplant incorporated application may be made any time after planting to drag-off, but before potato emergence. Use an implement that evenly distributes Brawl in the top 2 inches of soil. Do not damage potato seed pieces or sprouts with incorporation equipment.

**Preemergence:** Apply Brawl at 1.0-2.0 pt/A, either after planting as a preemergence, delayed preemergence, after drag-off or hilling treatment, but before weeds emerge. Up to 2.6 pt/A of Brawl alone may be used where soil organic matter is between 6% and 20%.

**Postemergence After Hilling/Lay-by:** Apply 1.67 pt/A of Brawl postemergence to potatoes through after hilling/at lay-by to control Brawl-sensitive species for remainder of the growing season. This application will not control emerged weeds. It may be applied over a previous Brawl application, but do not apply more than 3.6 pt/A of Brawl in a single crop season.

**Precautions:** (1) *If cool, wet soil conditions occur after application, Brawl may delay maturity and/or reduce yield of Superior and other early maturing potato varieties.* (2) *These directions for use do not apply to sweet potatoes or yams.*

**Restrictions:** (1) Preharvest interval: Do not harvest potatoes treated with Brawl within 60 days after the at-planting to drag-off application, or within 40 days after a lay-by application. (2) Do not use on muck or peat soils. (3) Do not apply both as a preemergence and an incorporated treatment.

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## POTATOES – BRAWL COMBINATIONS

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### TANK MIXTURE WITH TRICOR

In addition to those weeds controlled by Brawl alone, Brawl applied in tank mix combination with, or sequentially with, any of the registered TriCor formulations, also controls the following broadleaf weeds: cocklebur\*, hairy nightshade\*, hemp sesbania, jimsonweed\*, lambsquarters, prickly sida, ragweed, smartweed, velvetleaf, Venice mallow, and wild mustard.

\*Partially controlled.

Brawl at 1.0-2.0 pt/A plus the labeled TriCor use rate may be used preemergence or postemergence to potatoes through after last hilling. Apply 1.0-1.33 pt/A of Brawl on *coarse soils* and 1.33-2.0 pt/A on other soil textures. Within this rate range, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter. Effectiveness will be reduced if later cultural practices expose untreated soil. Brawl will not control emerged weeds.

Refer to the TriCor label for precautionary statements, restrictions, application information, center pivot irrigation application, weeds controlled, and varietal limitations.

**Precaution:** Postemergence applications to potatoes, with the exception of center pivot application, can be made only as a directed or semi-directed spray to avoid chlorosis, minor necrosis, or leaf distortion. These directions for use do not apply to sweet potatoes or yams.

**Restriction:** Do not use this tank mixture on muck or peat soils.

Refer to the **Product Information** section of this label and to the TriCor label for precautionary statements, restrictions, application information, and weeds controlled.

### **BRAWL + LOROX TANK MIXTURE (EAST OF ROCKY MOUNTAINS)**

Brawl may be applied in a tank mix combination with any of the registered Lorox formulations as a preemergence broadcast application to potatoes. Apply to the soil surface after planting and before emergence of the crop or after final drag-off according to the rates specified in Table 9.

**Table 9: Brawl + Lorox - Potatoes (East of Rocky Mountains)**

Soil Texture	Broadcast Rates Per Acre			
	1% to Less Than 3% Organic Matter		3-5% Organic Matter	
	Brawl	Lorox*	Brawl	Lorox*
<b>COARSE</b> Sandy loam	1.0 pt	1.0-1.5 lb	1.33 pt	1.5-2.0 lb
<b>MEDIUM</b> Loam, silt loam, silt	1.33 pt	1.5-2.0 lb	1.67-2.0 pt	2.0-2.5 lb

\*When using Lorox L or Lorox DF, use equivalent rates. One pt of Lorox L equals 1.0 lb of Lorox DF.

**Restrictions:** (1) Do not use on sands or loamy sands. (2) Do not incorporate or spray over the top of emerged potatoes.

Refer to the **Product Information** section of this label and to the Lorox label for precautionary statements, restrictions, application information, and weeds controlled.

### **TANK MIXTURE WITH PROWL 4E**

In addition to the weeds controlled by Brawl alone, this tank mixture with Prowl 4E controls such problem species as kochia, lambsquarters, purslane, annual spurge, stinging nettle, and others specified on the Prowl 4E Alone label. Apply Brawl + Prowl 4E preemergence, preemergence incorporated, or early postemergence according to the specific directions on the Prowl 4E label, using the rates in Table 10.

**Table 10: Brawl + Prowl 4E – Potatoes**

Soil Texture	Broadcast Rates Per Acre	
	Less Than 3% Organic Matter	More Than 3% Organic Matter
	Brawl + Prowl 4E*	Brawl + Prowl 4E*
<b>COARSE</b>	1.0-1.33 pt + 1.0-1.5 pt	1.0-1.33 pt + 1.0-1.5 pt
<b>MEDIUM</b>	1.33 pt + 1.5-2.0 pt	1.33-1.67 pt + 2.0-3.0 pt
<b>FINE</b>	1.33-1.67 pt + 2.0-3.0 pt	1.67-2.0 pt + 3.0 pt

\*When using other formulations of Prowl, use equivalent rates of active ingredient.

Refer to the Brawl and Prowl 4E labels and observe all directions, timings, limitations, precautions, and restrictions concerning the use of these products on potatoes and follow the most restrictive.

## TANK MIXTURE WITH PROWL 4E + EPTAM

In addition to the weeds controlled by Brawl alone, this tank mixture will control those species on the Prowl 4E and Eptam labels. Refer to the Brawl + Prowl 4E labels for rates of those products and add Eptam 7E at the labeled rate, depending on geographical area. Refer to the respective Brawl, Prowl 4E, and Eptam labels and observe all directions, limitations, precautions, and restrictions concerning the use of these products on potatoes and follow the most restrictive.

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## PUMPKIN – BRAWL ALONE

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### Preemergence

Apply Brawl preemergence (before the weeds have emerged) at 1.0 to 1.33 pt/A as an inter-row or inter-hill application in pumpkin. Leave 1 foot of untreated area over the row, or 6 inches to each side of the planted hill and/or any emerged pumpkin foliage (inter-row or inter-hill means not directly over the planted seed or young pumpkin plants). Use the lower Brawl rate on soils light in texture (loamy sand or lighter) and low in soil organic matter (less than 3%). Brawl applied as a broadcast spray over the planted row or hill, or applications made directly to crop foliage will increase the risk of injury to the pumpkin crop such as stand loss, delayed maturity, and loss of yield. Do not apply Brawl closer than 30 days before pumpkin harvest.

Brawl will not control emerged weeds. Control weeds that are present by another means, e.g., by mechanical means or by another herbicide.

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## RHUBARB

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Apply Brawl at a broadcast rate of 0.67-1.33 pt/A to the soil surface in early spring, prior to crop emergence. Use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils. A band application may also be used, applying proportionally less spray mixture on the area actually treated. Brawl will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means.

**Restrictions:** (1) Make only one application of Brawl per crop. (2) Do not apply more than 1.33 pt/A of Brawl per crop. (3) Preharvest Interval (PHI): Do not harvest rhubarb within 62 days of the Brawl application.

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## SAFFLOWERS – BRAWL ALONE

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**Preplant Incorporated or Preemergence:** Follow instructions for use of Brawl alone under **Application Procedures**.

On *coarse soils*, apply 1.0-1.33 pt/A of Brawl if organic matter content is less than 3%, or 1.33 pt/A if organic matter is 3% or greater. On *medium soils*, apply 1.33-1.67 pt/A of Brawl. On *fine soils*, apply 1.33-1.67 pt/A of Brawl if organic matter content is less than 3%, or 1.67-2.0 pt/A if organic matter content is 3% or greater.

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## GRAIN OR FORAGE SORGHUM (SEED TREATED WITH CONCEP®) – BRAWL ALONE

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Apply Brawl preplant surface, preplant incorporated, preemergence or postemergence using the appropriate rate specified below. Apply Brawl alone only when the sorghum seed has been properly treated with Concep seed treatment. Preplant or preemergence applications of Brawl to sorghum not treated with Concep seed treatment will result in crop death.

**Fall Application for Italian Ryegrass Control:** Brawl may be applied for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). Apply Brawl at 1.33-1.67 pt/A in the fall (September 1-December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower Brawl rate for coarse-textured soils and the higher rate for fine-textured soils. A tillage operation may precede the application. Do not incorporate to a depth greater than 2-3 inches if tillage follows the application of Brawl. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone brands can be tank mixed with Brawl to control emerged ryegrass. Refer to the Gramoxone brands label for specific rates, application instructions and restrictions. Other registered herbicides may be tank mixed with Brawl for control or improved control of other weeds present at the time of application. **Restrictions:** (1) Do not apply Brawl to frozen ground. (2) If a spring application is made, do not apply Brawl or any other product containing S-metolachlor the following spring to grain or forage sorghum.



**Preplant Surface-Applied:** Refer to instructions for use of Brawl under the **Application Procedures** section on this label. For minimum-tillage or no-tillage systems only, Brawl may be applied up to 45 days before planting in CO, IA, IL, KS, MO, NE, and SD. Use only split applications for treatments made 30-45 days prior to planting, with  $\frac{2}{3}$  of the broadcast rate applied initially and the remaining  $\frac{1}{3}$  at planting. Apply 1.5 pt/A of Brawl on *medium soils* or 1.67 pt/A on *fine soils*. Treatments less than 30 days prior to planting may be made either as a split or single application. Apply 1.33 pt/A of Brawl on *coarse soils* not more than 2 weeks prior to planting. Under dry conditions, irrigate after application to move Brawl into the soil.

**Preplant Incorporated or Preemergence:** Refer to instructions for use of Brawl under the **Application Procedures** section on this label. Broadcast 1.0-1.33 pt/A of Brawl on *coarse soils*, 1.33-1.5 pt/A on *medium soils*, or 1.33-1.67 pt/A on *fine soils*.

**Postemergence:** Refer to instructions for use of Brawl under the **Application Procedures** section on this label. Brawl may be applied broadcast postemergence at 1.0-1.33 pt/A on *coarse soils*, 1.33-1.5 pt/A on *medium soils*, or 1.33-1.67 pt/A on *fine soils*. Brawl will not control emerged weeds. Therefore, emerged weeds must be controlled by cultural or chemical means. When applied alone, Brawl will be safe to emerged sorghum. The risk of sorghum injury increases when adjuvants (e.g., non-ionic, crop oil), Nitrogen sources (e.g., AMS, UAN) or fertilizers are applied with Brawl.

**Precautions:** (1) If sorghum seed is not properly treated with Concep seed treatment, preplant and preemergence applications of Brawl will severely injure the crop. (2) Under high soil moisture conditions prior to sorghum emergence, injury may occur following preplant and preemergence application of Brawl. The crop will normally outgrow this effect. (3) Do not use Brawl on sorghum grown under dry mulch tillage, or injury may occur.

**Restrictions:** (1) Except for the split preplant surface treatment, do not make more than one application per year. (2) Post-Harvest Interval (PHI): Do not apply Brawl postemergence within 75 days of harvest.

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## GRAIN OR FORAGE SORGHUM (SEED TREATED WITH CONCEP) – BRAWL TANK MIXTURES

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Brawl preplant or preemergence (prior to sorghum emergence) tank mixtures with AAtrex may be applied in water or fluid fertilizer. Apply Brawl preplant or preemergence in tank mixtures only when the sorghum seed has been properly treated with Concep seed treatment. Preplant or preemergence applications of Brawl to sorghum not treated with Concep seed treatment will result in crop death.

**IMPORTANT: FOR TANK MIXTURES WITH AATREX (OR OTHER BRANDS OF ATRAZINE) – If applying Brawl in tank mixture with AAtrex, all the restrictions and rate limitations on the AAtrex label must be followed if more restrictive/protective than those on this label. In addition, if AAtrex is/must be applied at rates lower than those listed on this label, broadleaf weed control may be affected. Refer to the AAtrex label for weeds controlled at the reduced rates.**

**Precautions:** (1) Applications of Brawl + AAtrex on highly alkaline soils or on eroded areas where calcareous subsoils are exposed may cause sorghum injury. (2) If sorghum seed is not properly treated with Concep, preplant and preemergence applications of Brawl + AAtrex may severely injure the crop. (3) Under high soil moisture conditions prior to sorghum emergence, injury may occur following the use of preplant and preemergence applications of Brawl + AAtrex. The crop will normally outgrow this effect.

**Restrictions:** (1) Do not use Brawl + AAtrex on sorghum grown under dry mulch tillage, or injury may occur. (2) Except for the split preplant surface treatment, do not make more than one application per year.

### TANK MIXTURE WITH AATREX

In addition to the weeds controlled by Brawl alone, Brawl + AAtrex also controls the following broadleaf weeds when applied either preplant surface, preplant incorporated, or preemergence: cocklebur, common purslane, hairy nightshade, lambsquarters, morningglory, ragweed, smartweed, and velvetleaf.

**Preplant Surface-Applied:** Refer to instructions for use of Brawl under **Application Procedures** on this label. For minimum-tillage or no-tillage systems only, Brawl + AAtrex may be applied up to 45 days prior to planting in IA, IL, eastern KS, MO, NE, and SD. Use only split applications for treatments made 30-45 days prior to planting, with  $\frac{2}{3}$  of the broadcast rate applied initially and the remaining  $\frac{1}{3}$  at planting. Apply 1.5 pt/A of Brawl + 1.7-2.0 lb/A of AAtrex Nine-O\* on *medium soils* with 1.5% organic matter or greater. Apply 1.5 pt/A of Brawl + 1.7-2.0 lb/A of AAtrex Nine-O on *fine soils* with less than 1.5% organic matter, or apply 1.67 pt/A of Brawl + 2.0-2.2 lb/A of AAtrex Nine-O on *fine soils* with 1.5% organic matter or greater. Treatments less than 30 days prior to planting may be made either as a split or single application. Under dry conditions, irrigation after application may be made to move Brawl + AAtrex into the soil.



**Restrictions:** (1) Do not use on coarse soils. (2) Do not use on medium soils with less than 1.5% organic matter.

**Preplant Incorporated or Preemergence:** Refer to instructions for use of Brawl under **Application Procedures** on this label. On *medium soils* with 1.5% organic matter or greater, apply 1.0 pt/A of Brawl + 1.3 lb/A of AAtrex Nine-O\*. On *fine soils* with less than 1.5% organic matter, apply 1.0 pt/A of Brawl + 1.3 lb/A of AAtrex Nine-O; on *fine soils* with 1.5% organic matter or greater, apply 1.2-1.33 pt/A of Brawl + 1.6-1.8 lb/A of AAtrex Nine-O.

\*When using AAtrex 4L, use equivalent rates. One lb of AAtrex Nine-O = 1.8 pt of AAtrex 4L.

**Restrictions:** (1) Do not use on coarse soils; (2) Do not use on medium soils with less than 1.5% organic matter; (3) Do not use in NM, OK, or TX, except in northeast OK and the TX Gulf Coast and Blacklands areas; and (4) Do not apply preplant incorporated in AZ or the Imperial Valley of CA.

### **TANK MIXTURE OF BRAWL OR BRAWL + AATREX WITH GRAMOXONE BRANDS, LANDMASTER BW, TOUCHDOWN BRANDS OR ROUNDUP BRANDS FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS**

In minimum-tillage or no-tillage systems where sorghum (seed treated with Concep) is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone brands, Landmaster BW, Touchdown or Roundup may be tank mixed with Brawl or Brawl + AAtrex. See Comment No. 7 following Table 2. The Brawl or Brawl + AAtrex portion of the tank mixture provides preemergence control of the weeds listed on this label under the respective sections.

Refer to the label of each product used in combination and observe the planting details, restrictions, and all other precautions and limitations.

**Application:** Apply before, during, or after planting, but before sorghum emerges. Add Gramoxone brands, Landmaster BW, Touchdown brands or Roundup brands and apply as directed on the product labels.

**Gramoxone Brands:** Apply as directed on the product label. This treatment will not control weeds taller than 6 inches.

**Landmaster BW:** Apply as directed on the product label. See the Landmaster BW label for weeds controlled, listed rates for specific weeds, and other information concerning use.

**Touchdown Brands or Roundup Brands:** See the Touchdown brand or Roundup brand label for weeds controlled, listed rates, and other use directions.

### **SWEET SORGHUM (SEED TREATED WITH CONCEP)**

Apply Brawl preplant surface, preplant incorporated, preemergence or postemergence using the appropriate rate specified below. Apply Brawl only when the sweet sorghum seed has been properly treated with Concep seed treatment. Preplant or preemergence applications of Brawl to sweet sorghum not treated with Concep seed treatment will result in crop death.

**Soil-Applied:** Brawl may be applied up to 45 days before planting. Use only split applications for treatments made 30-45 days prior to planting, with  $\frac{2}{3}$  of the broadcast rate applied initially and the remaining  $\frac{1}{3}$  at planting. Treatments less than 30 days prior to planting may be made either as a split or single application. Under dry conditions, irrigation after application may be made to move Brawl into the soil.

#### **Brawl rates for soil applications to sweet sorghum**

Soil Type	30-45 days prior to planting <sup>1</sup>	< 30 days prior to planting	At Planting <sup>2</sup>
Coarse	Not Recommended	1.33 pt	1.0 - 1.33 pt
Medium	1.5 pt	1.5 pt	1.33 - 1.5 pt
Fine	1.67 pt	1.67 pt	1.33 - 1.67 pt

<sup>1</sup>Use only as a split application with  $\frac{2}{3}$  of the broadcast rate applied initially and the remaining  $\frac{1}{3}$  applied at planting.

<sup>2</sup>Preplant Incorporated or preemergence

**Post-Applied:** Brawl may be applied postemergence to sweet sorghum for residual control of grasses and small seeded broadleaf weeds. Postemergence application to sweet sorghum may be made to crop up to 5 inches in height. Brawl will not control emerged weeds. Therefore, emerged weeds must be controlled by cultural or chemical methods. When applied alone, Brawl will be safe to emerged sweet sorghum. Use of adjuvants is prohibited on sweet sorghum.

## Brawl rates for postemergence applications to sweet sorghum

Soil Type	Postemergence Rate
Coarse	1.0 – 1.33 pt
Medium	1.33 pt
Fine	1.33 pt

**Precautions:** (1) If sweet sorghum seed is not properly treated with Concep seed treatment, soil applications of Brawl prior to sorghum emergence will severely injure the crop. (2) Under high soil moisture conditions prior to sweet sorghum emergence, injury may occur following soil applications of Brawl. The crop will normally outgrow this effect.

**Restrictions:** (1) Only one application per season is allowed. Brawl may be applied either as a soil applied treatment or a postemergence treatment but not both. (2) Preharvest Interval (PHI): Do not apply Brawl postemergence within 90 days of harvest. (3) Do not use Brawl on sorghum grown under dry mulch tillage, or injury may occur.

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## SOYBEANS – BRAWL ALONE

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Apply Brawl in the fall for spring weed control, in the fall for Italian ryegrass control or in the spring as a preplant surface-applied, preplant incorporated, preemergence, or postemergence application for control or partial control of weeds in Table 1. The combined total amount of Brawl from all applications in the fall plus the spring must not exceed 2.6 pt/A. The combined total amount of S-metolachlor from all applications to soybeans must not exceed 2.5 lb ai/A.

Follow instructions for use of Brawl alone under the **Application Procedures** section of this label.

Read and follow all restrictions in the **Restrictions For All Brawl Soybean Applications** section below.

### Fall Application for Spring Weed Control

- Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
- Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
- Apply after October 31 north of Route 136 in IL.

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling.

In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.67-2.0 pt/A of Brawl on *medium-textured* and 2.0 pt/A of Brawl on *fine-textured* soils. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not exceed an incorporation depth greater than 2-3 inches. Minimize furrow and ridge formation in the tillage operations.

### Fall Application for Italian Ryegrass Control

Brawl may be applied for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). Apply Brawl at 1.33-1.67 pt/A in the fall (September 1-December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower Brawl rate for coarse-textured soils and the higher rate for fine-textured soils. A tillage operation may precede the application. Do not incorporate to a depth greater than 2-3 inches if tillage follows the application of Brawl.

For fall applications after emergence of glyphosate-resistant Italian ryegrass, a Gramoxone brand herbicide can be tank mixed with Brawl to control emerged ryegrass. Refer to the Gramoxone brand herbicide label for specific rates, application instructions and restrictions. Other registered herbicides may be tank mixed with Brawl for control or improved control of other weeds present at the time of application.

## Spring Preplant Surface Application

Use on *medium* and *fine soils* with minimum-tillage or no-tillage systems in CO, CT, DE, IA, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MT, ND, NE, NH, NY, OH, PA, RI, SD, TN, VA, VT, WI, WV, and WY. Apply  $\frac{2}{3}$  the listed rate of Brawl (1.67 pt/A on *medium soils* and 2.0 pt/A on *fine soils*) as a split treatment 30-45 days prior to planting and the remainder at planting. Applications made less than 30 days before planting may be as either a split or single treatment. Apply 1.33 pt/A of Brawl on *coarse soils* not more than 2 weeks prior to planting.

Brawl may be used up to 2.6 pt/A as a preplant surface treatment on soils having organic matter content between 6% and 20%.

## Preplant Incorporated or Preemergence

On *coarse soils*, apply 1.0-1.33 pt/A of Brawl if organic matter content is less than 3%, or 1.33 pt/A if organic matter content is 3% or greater. On *medium soils*, apply 1.33-1.67 pt/A of Brawl. On *fine soils*, apply 1.33-1.67 pt/A of Brawl if organic matter content is less than 3%, or 1.67-2.0 pt/A if organic matter content is 3% or greater.

Brawl may be used up to 2.6 pt/A as a preplant incorporated or preemergence treatment on soils having an organic matter content between 6% and 20%.

## Postemergence

Apply 1.0-1.33 pt/A of Brawl as a postemergence treatment to soybeans. Brawl will not control emerged weeds so it must be applied to a weed-free soil surface or in a tank mixture with products that provide postemergence control of weeds present at the time of application.

Brawl can also be applied as part of a sequential soybean weed control program. If Brawl was applied as a preplant surface, preplant incorporated, or a preemergence treatment, a second treatment of Brawl can be applied postemergence provided that the total Brawl rate during any one crop does not exceed 2.6 pt/A.

## Restrictions For All Brawl Soybean Applications

1. The combined total amount of Brawl from all applications in the fall plus the spring must not exceed 2.6 pt/A per year.
2. The combined total amount of S-metolachlor from all applications to soybeans must not exceed 2.5 lb ai/A per year.
3. Do not apply more than 1.33 pt/A per year of Brawl postemergence to soybeans.
4. Make postemergence applications at least 90 days before harvest.
5. Do not graze or feed treated soybean forage, hay, or straw to livestock for 30 days following a preplant surface, preplant incorporated or preemergence application.
6. Do not graze or feed treated forage or hay from soybeans to livestock following a postemergence application of Brawl.
7. Do not apply Brawl to frozen ground.

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## SOYBEANS – BRAWL COMBINATIONS

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Brawl may be tank mixed with other herbicides for improved residual control of the weeds listed in Table 1. For Brawl application rates, refer to the **Soybeans – Brawl Alone** section above.

The combined total amount of Brawl from all applications in the fall plus the spring must not exceed 2.6 pt/A. The combined total amount of S-metolachlor from all applications to soybeans must not exceed 2.5 lb ai/A.

The tank mixtures with Brawl identified in Table 11 may be applied to soybeans for improved residual control. Refer to individual product labels for precautionary statements, restrictions, rates, approved uses, rotational restrictions and a list of weeds controlled. Follow the most restrictive label.

**Table 11. Brawl Tank Mixtures for Application in Soybeans**

Tank-Mix	Application Timing	Comments
Gramoxone Brands Roundup Brands Touchdown Brands	Preplant Surface Preemergence	<ul style="list-style-type: none"> <li>Use this tank mixture for burndown plus residual control in reduced or no-till systems.</li> </ul>
Authority® MTZ TriCor	Preplant Surface Preemergence	<ul style="list-style-type: none"> <li>Use this tank mixture for additional residual control.</li> <li>Do not use this tank mix on soil with less than 0.5% organic matter.</li> <li>Do not use this tank mix on alkaline soil with a pH over 7.4.</li> <li>If heavy rain occurs soon after application, crop injury may result.</li> <li>Use of this tank mix is not recommended for soybean varieties known to be metribuzin sensitive.</li> </ul>
Canopy Authority® First Authority® Maxx Classic® FirstRate® Sharpen® Sonic® Verdict®	Preplant Surface Preemergence	<ul style="list-style-type: none"> <li>Use this tank mixture for additional residual control.</li> </ul>
Classic FirstRate Flexstar® Fusilade® DX Fusion® Prefix® Python® Reflex®	Postemergence	<ul style="list-style-type: none"> <li>Brawl alone will not control emerged weeds.</li> <li>Use this tank mixture for control of emerged weeds plus residual control of grasses and small seeded broadleaf weeds.</li> <li>Follow the tank mix product label for adjuvant use instructions.</li> <li>The use of COC or UAN with Brawl may result in temporary crop injury.</li> </ul>
Flexstar® GT Roundup Brands Touchdown Brands	Postemergence	<ul style="list-style-type: none"> <li>Brawl alone will not control emerged weeds.</li> <li>Use this mixture for residual control.</li> <li>Use this mixture only on glyphosate tolerant soybeans.</li> <li>Follow the tank mix product label for adjuvant use instructions.</li> </ul>
Liberty	Postemergence	<ul style="list-style-type: none"> <li>Brawl alone will not control emerged weeds.</li> <li>Use this mixture for residual control.</li> <li>Use this mixture only on soybeans that are tolerant to glufosinate (e.g. LibertyLink).</li> <li>Follow the Liberty product label for adjuvant use instructions.</li> <li>The use of COC or UAN with Brawl may result in temporary crop injury.</li> </ul>

**Restrictions For All Brawl Soybean Tank Mixture Applications**

- For all tank mixtures, refer to individual product labels for precautionary statements, restrictions, rates, approved uses, rotational restrictions and a list of weeds controlled. Follow the most restrictive label.
- The combined total amount of Brawl from all applications in the fall plus the spring must not exceed 2.6 pt/A per year.

3. The combined total amount of S-metolachlor from all applications to soybeans must not exceed 2.5 lb ai/A per year.
4. Do not apply more than 1.33 pt/A per year of Brawl postemergence to soybeans.
5. Make postemergence applications at least 90 days before harvest.
6. Do not graze or feed treated soybean forage, hay, or straw to livestock for 30 days following a preplant surface, preplant incorporated or preemergence application.
7. Do not graze or feed treated forage or hay from soybeans to livestock following a postemergence application of Brawl.
8. Do not apply Brawl to frozen ground.

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## SUGAR BEETS – BRAWL ALONE

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### Postemergence Applications

Brawl may be applied postemergence to sugar beets after the sugar beets have reached the first true leaf stage. However, because Brawl is primarily a soil-active herbicide, it must be applied prior to weed emergence in order to provide consistent control of listed weeds. As such, weeds that are emerged with or before the crop, or that are present at the time Brawl is applied, must be controlled with another appropriately labeled herbicide. Apply Brawl at 1 pt/A on *coarse soils*, 1.33 pt/A on *medium soils*, and 1.67 pt/A on *fine soils*. More than one postemergence application may be applied, but the total must not exceed 2.6 pt/A. Weeds present at the time of application will not be controlled.

**Restrictions:** (1) Do not apply more than 2.67 pt/A postemergence. (2) Do not harvest within 60 days after the last application.

**Precaution:** *In coarse soils, Brawl applied before emergence of sugar beets (i.e., other than postemergence) may cause injury.*

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## SUGAR BEETS – BRAWL TANK MIX COMBINATIONS

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Brawl may be tank mixed with Assure® II, Betamix®, Betanex®, Poast®, Progress®, Select®, Stinger™, or Upbeet® and applied to sugar beets. Tank mixtures of these products with Brawl will increase the risk of crop injury over that of either product applied alone, as the Brawl formulation has some adjuvant properties. The addition of a spray adjuvant such as crop oil concentrates (COC's) or methylated seed oils (MSO's) can further increase the risk of crop injury. Injury risk can be reduced by using the lowest effective rate of the tank mix partner(s) and/or adjuvant and by avoiding applications under adverse growing conditions or high soil or air humidity. Refer to the individual product labels and follow all use restrictions and limitations.

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## SUNFLOWERS – BRAWL ALONE

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### Preplant Incorporated or Preemergence

Within the rate ranges given below, use the higher rate of Brawl if heavy weed infestations are expected. On *coarse soils* with organic matter of less than 3%, apply 1.0-1.33 pt/A of Brawl; 1.33 pt/A if organic matter is 3% or greater. On *medium soils*, apply 1.33-1.67 pt/A of Brawl. On *fine soils* with organic matter of less than 3%, apply 1.33-1.67 pt/A of Brawl; 1.67-2.0 pt/A if organic matter content is 3% or greater.

**Restrictions:** (1) Do not allow livestock to graze or feed in treated area. (2) Do not exceed the maximum label rates given above for sunflowers for the soil type.

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## TOMATOES – BRAWL ALONE

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### Transplanted

Brawl may be applied preplant incorporated or preplant before transplanting. If the latter method is used, keep soil disturbance to a minimum during the transplanting operation. Application may also be made post-directed to transplants after the first settling rain or irrigation. When an application is made post-directed, apply in a minimum of 20 gallons of water per acre and minimize contact with tomato plants. Brawl will not control emerged weeds. In bedded transplanted tomatoes, apply Brawl preplant non-incorporated to the top of the pressed bed, as the last step, prior to laying plastic. Brawl may also be used to treat row-middles in bedded tomatoes, as long as the total amount of Brawl does not exceed the maximum allowed per crop.

### Seeded

Brawl may be applied post-directed to direct seeded tomatoes. Tomato plants must be at least 4 inches tall at the time of application and the product must be applied in a minimum of 20 gallons of water per acre. Minimize spray contact with tomato plants. Brawl will not control emerged weeds.

**Tomato Use Rates:** On *coarse soils*, apply 1.0-1.33 pt/A of Brawl if organic matter content is less than 3% or 1.33 pt/A if organic matter is 3% or greater. On *medium soils*, apply 1.33-1.67 pt/A of Brawl. On *fine soils*, apply 1.33-1.67 pt/A of Brawl if organic matter content is less than 3% or 1.67-2.0 pt/A if organic matter content is 3% or greater.

**Precautions:** (1) Apply to varieties or cultivars with unknown tolerance to Brawl may result in crop injury. (2) Brawl may damage transplants that have been weakened by any cause. To prevent damage, plant only healthy transplants and avoid planting when wet, cool, or unfavorable growing conditions exist. (3) In transplanted tomatoes, if Brawl is applied preplant incorporated, incorporate to a depth less than the depth of transplanting, and use the lower end of the rate range for the given soil type, or damage may occur. (4) For row middle applications where tomatoes are grown on sandy soils and where high soil moisture conditions can exist (e.g., low binding and high evaporation conditions), as may be found in the States of Florida, Georgia, Maryland, and Virginia, there is potential for crop injury in the form of leaf epinasty. The risk of this type of injury can be reduced by: a) incorporating the Brawl immediately following application, b) applying the Brawl seven or more days before transplanting (but only after the beds have been formed), c) minimizing the application of Brawl onto the plastic of the bed, or d) any combination of the above.

### Restrictions:

Do not exceed the maximum label rate for the soil texture per year.

Apply only by ground application.

**90 Day PHI** - If the single application rate of Brawl is greater than 1.33 pt/A per year (up to 2.0 pt/A per year) do not harvest tomatoes within 90 days of application.

**30 Day PHI** - If the application rate of Brawl does not exceed 1.33 pt/A per year do not harvest tomatoes within 30 days of application.

When applying at 1.33 pt/A per year with a 30 day PHI, the following restrictions apply:

- Do not exceed two applications per growing season.
- The use of adjuvants is prohibited.
- Applications may be made using ground equipment, in concentrated spray volumes.
- Applications may be made as a foliar broadcast spray to the soil within a week of transplanting and again at blooming/fruiting to the row middles as a banded/directed application 38-77 days after the first treatment.

# STORAGE AND DISPOSAL

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

## **Pesticide Storage**

This product may be stored at temperatures down to 30 degrees below 0°F.

## **Pesticide Disposal**

Open dumping is prohibited. Wastes resulting from the use of this product are toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

### **Container Handling [less than or equal to 5 gallons]**

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### **Container Handling [greater than 5 gallons]**

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### **Container Handling [greater than 5 gallons]**

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call CHEMTREC at 1-800-424-9300, day or night.

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1725 Windward Concourse, Suite 410

Alpharetta, GA 30005

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