GROUP 15 HERBICIDE



HELMET

Herbicide for Weed Control in Corn, Cotton, Grain or Forage Sorghum, Peanuts, Pod Crops, Potatoes, Safflower and Soybeans

ACTIVE INGREDIENT:				(% by weight)
Metolachlor: 2-chloro-N-(2-ethyl-6-methyl	phe	nyl)-N-(2-metho	oxy-1-r	methylethyl)acetamide 84.4%
INERT INGREDIENTS:				15.6%
TOTAL:				
HELMET contains 78 lbs, of active ingred	lient	t per gallon		

EPA Reg. No. 74530-74

KEEP OUT OF REACH OF CHILDREN CAUTION

For additional precautionary, handling, and use statements, see inside of this booklet.

Manufactured For

HELM Agro US, Inc. 401 E. Jackson St., Suite 1400 Tampa, FL 33602 Phone: 813.621.8846 Fax: 813.621.0763 info@helmagro.com

FIRST AID			
IF INHALED:	INHALED: • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice.		
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.		
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. Call a poison control center or doctor for treatment advice.		
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Have affected person sip a glass of water if able to swallow. DO NOT induce vomiting unless told by a poison control center or doctor. DO NOT give anything by mouth to an unconscious person.		

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For chemical emergency: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. This product may cause skin sensitization reactions in some people. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below.

Applicators and other handlers must wear:

- · Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves made of barrier laminate or Viton ≥14 mils
- . Chemical-resistant footwear plus socks
- · Chemical-resistant headgear for overhead exposure, and
- Chemical-resistant apron when cleaning equipment, mixing or loading.

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

ENGINEERING CONTROLS STATEMENT

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)]. 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.

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

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

Groundwater Advisory:

This chemical is known 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:

Metolachlor can contaminate surface water through ground spray drift. Under some conditions, metolachlor 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 over-laying extremely shallow groundwater, 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 over-laying 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 anti-siphoning 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 capacities 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.

DIRECTIONS FOR USE

This product is intended for use in weed control in cotton, peanuts, pod crops, potatoes, safflower, sorghum (grain or forage) and soybeans,

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABEL.

FOR ALL TANK MIXTURES: It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

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.

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 made of 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. Note: Not for sale, use, or distribution in Nassau or Suffolk Counties, NY.

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

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. When tank mixtures are recommended, branded products acceptable for tank mixes are listed. Additionally, generic equivalents of these branded products may be used as long as the conditions listed below as well as those on the tank mix partner are followed.

FOR ALL TANK MIXTURES: It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

When an adjuvant is to be used with this product, Helm Agro suggests the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant.

HELMET is a selective herbicide recommended as a preplant surface-applied, preplant incorporated, or preemergence treatment in water or fluid fertilizer for control of most annual grasses and certain broadleaf weeds in corn - all types, cotton, grain or forage sorghum, peanuts, pod crops, potatoes, safflower and soybeans. HELMET is also recommended as a postemergence treatment in selected crops.

Note: 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 non-target areas. To prevent off-site movement due to runoff or erosion:

- 1. Avoid treating powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.
- 2. DO NOT apply to impervious substrates such as paved or highly compacted surfaces.
- 3. DO NOT use tail-water from the first flood or furrow irrigation of treated fields to treat non-target crops unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.

Where directions specify a HELMET tank mixture with AAtrex formulations, other brands of atrazine may be used. Follow the rates, recommendations, and limitations 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.

When HELMET is incorporated. DO NOT exceed the depth of incorporation with supplemental tillage or efficacy will be reduced.

Dry weather following preemergence application of HELMET or a tank mixture may reduce effectiveness. Cultivate if weeds develop.

Where reference is made to weeds partially controlled, partial control can either mean erratic control from poor to good, or consistent control at a level below that generally considered acceptable for commercial weed control.

Precaution: Injury may occur to crops (other than corn) following the use of HELMET under abnormally high soil moisture conditions during early development of the crop.

RESISTANCE MANAGEMENT

HELMET is a Group 15 Herbicide containing the active ingredient metolachlor.

To prevent the risk of weeds developing resistance to HELMET, always apply this product at the labeled rates and in accordance with the use directions. DO NOT use less than labeled rates alone or in tank mixtures. DO NOT use reduced rates of the tank mix partner.

The development of herbicide resistance is well understood, however it is not easily predicted. When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

Use herbicides in conjunction with the resistance management strategies in the area to better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes. It may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes. It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

If herbicide resistance should develop in the area to Group 15 herbicides, this product used alone may not continue to provide sufficient levels of weed control. If the reduced levels of control cannot be attributed to improper application techniques, improper use rates, improper application timing, unfavorable weather conditions or abnormally high weed pressure, a resistant strain of weeds may have developed. To reduce the potential for weed resistance use this product in a rotation program with other classes of chemistry and modes of action.

For optimum performance, scout fields carefully and begin applications when weeds are smaller rather than larger. If resistance is suspected, contact local or State agricultural advisors.

MIXING INSTRUCTIONS

HELMET Alone:

- . Mix HELMET with water or fluid fertilizer and apply as a spray.
- Fill the spray tank 1/2 3/4 full with water or fluid fertilizer.
- Add the proper amount of HELMET.
- · Add 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 1/4 full with water.
- · Start agitation.
- Add 2,4-D, AAtrex. Banvel, Canopy, Caparol 4L, Command, Cotoran, Eptam, Lorox, Marksman, Princep, Prowl, Pursuit, AAtrex + Princep, Scepter, Sencor, Sonalan or Treflan, and allow it to become dispersed.
- Add HELMET.
- Then add Helmquat 3SL (paraguat), Landmaster BW, or Helosate Plus Advanced (glyphosate) if these products are being used.
- . Finally add the rest of the water.
- For all tank mixtures, agitate during mixing and application to maintain a uniform suspension.

For tank mixtures with AAtrex, Banvel, Canopy, Caparol 4L, Command, Cotoran*, Eptam, Lorox, Marksman, Princep, Prowl *, Pursuit, AAtrex + Princep, Scepter, Sencor, Sonalan, or Treflan, 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 directions on how to conduct a compatibility fest, see **Appendix A**.

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.

1) 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	Sandy clay
Sandy Ioam	Silt	Silty clay loam Silty clay
		Clay loam
		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.

Note: HELMET may be applied preemergence alone or in tankmixes with partners specified on this label, following preplant incorporated herbicides when used according to their label directions, 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 cloqqing of the application device may result.

2) APPLICATION PROCEDURES

APPLICATION TIMING

HELMET alone or in some tank mixtures with other labeled herbicides may be applied for weed control in certain crops at various times – preplant, preplant incorporated, preemergence and postemergence. Refer to the given crop section of the label to determine if application timings listed below are recommended.

- a) Preplant Surface-Applied: For minimum-tillage or no-tillage systems only, HELMET alone and some HELMET tank mixtures may be applied up to 45 days before planting certain crops. For applications made 30 45 days before planting, use split applications with 2/3 the labeled broadcast rate for the crop and soil texture applied initially and the remaining 1/3 at planting. For applications made less than 30 days before planting, application may be made either as a split or a single application. Refer to individual crop to determine if early preplant surface application is recommended. When weeds are present at the time of treatment, apply in a tank mixture combination with a contact herbicide such as paraquat or glyphosate. 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.
- b) Preplant Incorporated: Apply HELMET to soil surface 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 incorporated in. When furrow irrigation will be used or when a period of dry weather is expected after application use a preplant incorporated application. If crop will be planted on beds, apply and incorporate HELMET after bed formation, unless specified otherwise.
- c) Preemergence: Apply HELMET during planting (behind the planter) or after planting but before weeds or crops emerge.

3) SPECIAL APPLICATION PROCEDURES

a) Preplant Incorporated: CA Only (Safflower, Pod Crops):

Broadcast HELMET to the soil surface and thoroughly incorporate with a disk or similar implement set to till 4-6 inches deep. Till the soil in 2 different directions (cross-till) for more thorough incorporation. Crops may be planted on flat surface or on beds. Use caution when forming the beds that only soil from the HELMET treated zone is used - untreated soil should not be brought to soil surface or weed control will be decreased. If the application is made to preformed beds, incorporate HELMET with tillage implement set to till 2-4 inches deep. Care should be taken during tilling to keep the treated/tilled soil on the beds.

*Premergence: Apply HELMET after planting. Water with sprinkler or flood irrigation within 7-10 days if at least ½ - 1 inch of rainfall does not occur (1/2 inch on course textured soil and 1 inch on fine textured soil).

b) Fall Application (Only in IA, MN, ND, SD, WI, North of Route 20 in the state of NE, and North of Route 136 in the state of IL): Use on medium and fine soils with greater than 2.5% organic matter that will be planted to soybeans the next spring. Ground may be tilled before on after application.

Restrictions:

- . DO NOT apply to frozen ground.
- 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.
- c) Ground Application: Apply HELMET alone or in tank mixtures by ground equipment in a minimum of 10 gals, of spray mixture per acre unless otherwise specified.

Use sprayers that provide accurate and uniform application. For HELMET tank mixtures with wettable powder or dry flowable formulations, screens and strainers should be 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:

Bandwidth in inches X broadcast rate per acre = amount needed per acre

Row width in inches

Note: For information on applying in lower volumes of carrier, see Low Carrier Application in Appendix B. For application by air or through center pivot systems, see Appendices C and D. Appendix C includes Aerial Drift Management and Aerial Drift Reduction Advisory sections.

For information on impregnating dry fertilizer, see Appendix E.

HELMET APPLIED ALONE

foxtail millet galinsoga giant foxtail	signalgrass (<i>Brachiaria</i>) southwestern cupgrass
	southwestern cupgrass
niant foxtail	
giant ioxtaii	tall waterhemp
goosegrass	wild proso millet*
green foxtail	witchgrass
pigweed	woolly cupgrass*
prairie cupgrass	yellow foxtail
red rice	yellow nutsedge
bust foxtails (purple, white)	
	pigweed prairie cupgrass

^{*}For control of these weeds in corn only, refer to the Corn - Woolly Cupgrass and Wild Proso Millet Control Program section of this label.

Weeds Partially Controlled*				
common purslane	sandbur	volunteer sorghum		
eclipta	seedling johnsongrass	wild proso millet		
Florida beggarweed**	shattercane	woolly cupgrass		
hairy nightshade	Texas panicum***			

^{*}See Product Information section. Control of these weeds can be erratic due partially to variable weather conditions.

Control may be improved by following these suggested procedures:

- o In corn, use 2 2.67 pts./A or the soil surface-applied rates for Helmet alone or in tank mixture, if allowed, when making preplant incorporated or preemergence applications.
- Till moist soil thoroughly to destroy germinating and emerged weeds. If HELMET is to be applied preplant incorporated, this tillage may be used to incorporate HELMET as long
 as uniform 2-inch incorporation is achieved as outlined under Application Procedures.
- o Plant crop into moist soil immediately after tillage. If HELMET is to be used preemergence, apply at planting or immediately after planting.
- o If possible, 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 HELMET.
- o 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, a uniform, shallow cultivation (2 inches) is recommended as soon as weeds emerge.

4) Rotational Crops:

HELMET Alone:

- If crop treated with HELMET alone is lost, any labeled crop may be replanted immediately. However, DO NOT make a second broadcast application of HELMET. If original application was banded and the second crop is planted in the untreated row middles, a second banded treatment may be applied over untreated row middles. DO NOT make a second broadcast application over original banded area.
- Alfalfa may be planted 4 months following application.
- o Barley, oats, rye, or wheat may be planted 41/2 months following treatment.
- Tomatoes may be planted 6 months following application.
- Clover may be seeded 9 months following application.
- Any crop on this label, in addition to root crops, tobacco, barley, buckwheat, milo, oats, rice, rye, wheat, cabbage, or peppers, may be planted in the spring following treatment.
- All other rotational crops may be planted 12 months after a layby application.
- Following a lay-by treatment or multiple treatments applied the previous season, any crop on this label, in addition to tobacco, cabbage, or peppers, may be planted in the spring.
 DO NOT graze or feed forage or fodder from cotton to livestock.

HELMET Tank Mixtures:

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

For **Rotational Crops** restrictions for HELMET used in tank mixtures, refer to the statements/restrictions above for HELMET and to the respective product labels of any mixing partner(s) for additional statements/restrictions.

Restrictions: To avoid injury to rotational alfalfa or clover:

- DO NOT apply more than 2 lbs. a.i. of metolachlor per acre (2 pts. of HELMET) preemergence (including preplant surface, preplant incorporated, postplant incorporated, etc.).
- DO NOT make lay-by or other postemergent applications of HELMET.
- DO NOT make a second broadcast application of this product.
- DO NOT graze or feed forage or fodder from cotton to livestock.

CROPS

CORN – Limited to Field Corn, Production Seed Corn, Silage Corn, Sweet Corn and Popcorn

HELMET ALONE

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

PREPLANT SURFACE-APPLIED:

Refer to instructions for use of HELMET alone under APPLICATION PROCEDURES.

1) Fall Application – Apply based on the following dates for different geographic areas

MN, ND, SD, WI and North of Route 30 in IA - after September 30

NE - North of Route 91 and South of Route 30 in IA - after October 15

IL - North of Route 136 - after October 31

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

In minimum-tillage or no-tillage systems - Soils >2.5% organic matter:

Medium Texture - 1.67-2.0 pts./A

Fine Texture - 2.0 pts./A

DO NOT apply to frozen ground. A tillage operation may be made before the application. Application may be followed by a fall and/or a spring tillage. However, DO NOT exceed an incorporation depth greater than 2-3 inches. Minimize furrow and ridge formation in the tillage operations.

^{**}For partial control of this weed, use a minimum of 2 pts./A and apply preemergence.

^{***}For partial control of this weed, use a minimum of 2 pts./A applied through a center pivot irrigation system.

Restrictions:

- DO NOT apply to frozen ground.
- o 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.

2) Early Preplant applications in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI and WY In minimum-tillage or no-tillage systems:

Medium and Fine Textured Soils - Apply 2/3 of the labeled rate of HELMET (1.67 pts./A on medium soils and 2.0 pts./A on fine soils) as a split treatment 30-45 days prior to planting. The remainder should be applied at planting. If application is to be made less than 30 days before planting it may be applied either a split or single treatment.

Coarse Textured Soils - Apply 1.33 pts./A not more than 2 weeks prior to planting.

3) Preplant surface applications may be applied following the directions for use above on medium- and fine-textured soils with minimum-tillage or no-tillage systems in CT, DE, MA, MD, ME, MI, NH, NY, OH, PA, RI, VA, VT and WV.

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., Adrex, Accent, Barwel, Basagran, Beacon, Bicep, bromoxynil (Brominal or Buctrill, Exceed or 2,4-0. 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 postemergent herbicide.

HELMET Preplant Incorporated or Preemergence in Corn:

Follow instructions for use of HELMET alone under Application Procedures.

Coarse soils

- < 3% OM 1.0-1.33 pts./A
- > 3% OM 1.33 pts./A

Medium soils

- 1.33-1.67 pt./A

Eino coile

- < 3% OM 1.33-1.67 pts./A
- > 3% OM 1.67-2.0 pts./A

HELMET POSTEMERENCE or LAY-BY in Corn:

For extended residual weed control in corn, a maximum rate of 2.0 pts./A of HELMET 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 HELMET. Applications to soil free of emerged weeds and directed towards the base of corn plants in excess of 5 inches tall. The total HELMET rate applied on corn during any one year must not exceed 4 pts./A, depending on soil texture.

Restriction - All applications to corn: To avoid possible illegal residues, DO NOT graze or feed forage from treated areas for 30 days following application.

PROBLEM WEED CONTROL DIRECTIONS:

Wild Proso Millet and Woolly Cupgrass Control Program:

For control of these species, use the following 3-step program:

- 1) Apply HELMET early preplant, preplant incorporated, or preemergence at 1.67 pts./A on medium soils and 2.0 pts./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) Follow first application with a postemergence tank mix of Beacon at 0.38 oz./A plus 1 qt. of crop oil concentrate plus 1 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.

Eclipta, Shattercane, Wild Proso Millet and Woolly Cupgrass – Partial Control:

For more consistent partial control of eclipta, shattercane, wild proso millet or woolly cupgrass, apply 2.0 - 2.5 pts./A as a single application or apply 1.0 - 1.33 pts./A of HELMET preplant incorporated, followed by 1.0 - 1.33 pts./A of HELMET preemergence. DO NOT apply more than a total of 2.55 pts./A. Make the preemergence application during or after planting, but before weeds and corn emerge. Apply the 1.33 pts./A rate of HELMET when a heavy infestation of eclipta, shattercane, wild proso millet or woolly cupgrass is expected. Follow with a shallow cultivation if needed to control any late emerging weeds.

Notes:

- In corn, HELMET may be used up to 2.75 pts./A as either a preplant surface, preplant incorporated, or preemergence treatment on soils having an organic matter content between 6% and 20% or up to 2.0 pts./A on any soil for extended residual control and where severe stands of problem weeds are expected.
- If annual weeds escape following a preplant surface, preplant incorporated, or preemergence treatment of HELMET, follow with a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., AAtrex, Beacon, Bicep, Exceed, Accent, Banvel, Basagran, Brominal, Buctril, or 2,4-D. If the postemergence treatment includes the herbicide used in the earlier treatment, i.e., AAtrex, DO NOT exceed the total labeled rate for corn on a given soil texture.
- Brominal or Buctril may be applied postemergence alone or in tank mix combination with AAtrex. DO NOT exceed 1.2 lbs. a.i./A of AAtrex in tank mix combination with Brominal or Buctril postemergence. Refer to the AAtrex, Brominal, and Buctril labels for specific rates and precautions.

Restrictions:

- o 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.
- o DO NOT use HELMET on peat or muck soils.

HEI MET COMBINATIONS FOR CORN

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

HELMET in any tank-mixture for Field corn, Popcorn and Sweet corn (except HELMET + Atrazine post-emergence and HELMET + Banvel post-emergence) may be applied in water or fluid fertilizer. Use only water in HELMET + Atrazine or HELMET + Banvel post-emergence tank-mixes.

	Chart 1: HELMET Tank Mixtures for Corn - Additional Weeds Controlled and Special Instructions							
	HELMET + AAtrex and/or Princep (Preplant Surface, PPI, PRE)	HELMET + AAtrex (Post)	HELMET + Banvel (Field Corn)	HELMET + AAtrex + Lorox	HELMET + AAtrex or Princep + Prowl	HELMET + Marksman	HELMET + Broadstrike + HELMET SPC	HELMET + Balance Pro
Special Mixing Instructions					1			
Comments	2, 3, 4, 5, 7, 8	2, 3, 4, 5		2, 3, 4, 5, 6	2, 3, 4, 5	7	7	2, 3, 7
Browntop panicum	С			С	С			С
Cocklebur	С	PC	PC	С	С	С	PC - C	PC - C
Common purslane	С			С	С	C	С	С
Hairy nightshade	С			С	С	С	С	С
Jimsonweed		PC	PC			С	PC - C	С
Kochia		С				С	С	С
Lambsquarters	С	С	С	С	С	С	С	С
Morningglory	С	PC	PC	С	С	С	PC - C	С
Mustard		С				С	С	С
Pigweed				С	С	С	С	С
Prickly sida		С				С	С	
Ragweed	С	С	С	C	С	PC - C	PC - C	С
Smartweed	С	С	С	С	С	С	С	С
Velvetleaf	С	С	PC	С	С	PC - C	С	PC - C
C = Control; PC = Part	ial Control; PC - C = Parti	al to Full control	depending on: 1) ra	tio of products used	, or 2) weed populat	ion		

Comments/Instructions:

- 1. Special Mixing Instructions for HELMET + AAtrex or Princep and Prowl:
 - a) Fill the spray tank 1/4 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 pts./100 gals. of spray mixture.
 - c) Then add the AAtrex or Princep and allow it to become dispersed.
 - d) Then add HELMET and Prowl 4E.
 - e) Add the rest of the water.
- 2. Although a single formulation for AAtrex or Princep is listed in the rate tables, other formulations may be substituted, using the following formula: 1 lb. of AAtrex Nine-O or Princep Caliber 90 = 1.8 ots. of AAtrex 4L or Princep 4L.
- 3. Although directions specify AAtrex formulations in tank mixture with HELMET, other brands of atrazine may be used. Follow the rates, recommendations, and limitations on the atrazine label.
- 4. See additional mixing instructions on the AAtrex label.
- 5. Restriction: D0 NOT exceed a total of 2.5 lbs. a.i. 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 lb. of Lorox DF = 1 pt. of Lorox L.
- 7. In minimum-tillage and no-tillage systems, mix with Paraquat dichloride for control of most emerged annual weeds and suppression of perennial weeds; or with glyphosate + 2,4-D (Landmaster) for suppression of emerged field bindweed and control or suppression of annual weeds; or with Helosate Plus Advanced (glyphosate) for control of most emerged annual and perennial weeds.
- 8. Refer to HELMET Combinations for Corn Tank Mixture with AAtrex; or AAtrex + 2,4-D; or AAtrex + 2,4-D + Banvel for Minimum-Tillage or No-Tillage Systems sections for specific directions for 2,4-D or Banvel burndown combinations in minimum-tillage and no-tillage systems.

HELMET in any tankmix for corn may be applied in water or fluid fertilizer, except as noted.

Notes:

- 1) Refer to the section entitled Corn (All Types) HELMET Alone, Problem Weed Control Directions, Note (3) for sequential postemergence treatments if escape weeds develop.
- 2) In corn, HELMET may be used up to 2.0 pts./A in combinations on any soil for extended residual control and where severe stands of problem weeds are expected.
- 3) This Product may be tank-mixed with the herbicides listed on this label provided the specific product(s) tank-mixed is registered for use on Field corn, Popcorn and Sweet corn.

Restrictions:

- 1) For all applications to corn, DO NOT graze or feed forage from treated areas for 30 days following application, or possible illegal residues may result.
- 2) FOR TANK-MIXTURES WITH ATRAZINE If applying HELMET in tank-mixture with Atrazine, all restrictions and rate limitations on the Atrazine label must be followed, if more restrictive/protective than what is on this label.
- 3) DO NOT exceed a total of 2.5 pounds of Atrazine per acre per year when applying HELMET in tank-mixture with Atrazine.

Tank Mixture with AAtrex or Princep, or AAtrex + Princep - Preplant Surface, Preplant Incorporated, or Preemergence

In addition to the weeds controlled by HELMET alone, tank mixtures of HELMET + AAtrex or Princep, or HELMET + AAtrex + Princep, applied preplant surface, preplant incorporated, or preemergence, will control the following weeds: browntop panicum, cocklebur, common purslane, hairy nightshade, lambsquarters, morningglory, ragweed, smartweed, and velvetleaf.

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

Preplant Surface-Applied:

Follow instructions for use of HELMET alone under Application Procedures and under application instructions for HELMET alone on corn.

Madium Cail

Apply HELMET + AAtrex or Princep, or HELMET + AAtrex + Princep on medium soils (1.67 pts./A of HELMET + 3.2 - 4 pts./A of AAtrex 4L or Princep 4L, or AAtrex 4L + Princep 4L combined)

Fine Soils:

Apply HELMET + AAtrex or Princep, or HELMET + AAtrex + on fine soils (1.67 - 2.0 pts./A of HELMET + 4 - 5 pts./A of AAtrex 4L or Princep 4L, or AAtrex 4L + Princep 4L combined)

Apply above tank mixtures 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 these tank mixtures as a split or single treatment in those states and as indicated in the HELMET Alone — Preplant Surface-Applied section of the label for corn.

Charse soils

Apply 1.33 pts./A of HELMET and 3.2 pts./A of AAtrex 4L or Princep 4L, or AAtrex 4L + Princep 4L combined.

Preplant Incorporated or Preemergence:

Follow instructions for use of HELMET alone under Application Procedures. Apply HELMET + AAtrex or Princep, or HELMET + AAtrex + Princep, using the appropriate rates from Table 1.

Restriction: DO NOT apply more than the labeled rate for a given soil texture per year, either as a split or single treatment, or illegal residues may result.

Eclipta, Shattercane, Wild Proso Millet and Woolly Cupgrass – Partial Control

For more consistent partial control of eclipta, shattercane, wild proso millet or woolly cupgrass where HELMET is applied in tank mixture or sequentially with other registered corn herbicides, apply 2.0 - 2.33 pts./A as a single application, or the following applications may be made:

- 1. Apply 1.0 1.33 pts./A of HELMET + 2 lbs. a.i./A of AAtrex or Princep preplant incorporated, followed by 1.0 1.33 pts./A of HELMET preemergence. Make the preemergence application during or after planting, but before emergence of weeds and corn.
- 2. Apply HELMET at 1.33 pts./A alone or in tank mix combination with up to 2 lbs. a.i./A of AAtrex or Princep, preplant incorporated. DO NOT exceed the total rate of triazine herbicide listed for corn grown on a given soil texture. Follow with a post-directed application of Evik 80W at 2.5 lbs./A. Refer to the Evik 80W label for specific directions for the post-directed application.
- Apply Eradicane or Sutan (or equivalent EPTC or butylate formulations) at labeled rates preplant incorporated, followed by a preemergence application of HELMET at 1.0 1.33 pts./A.
 DO NOT use Eradicane or Sutan 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 regimens in numbers 1 to 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.

Table 1: HELMET + AAtrex or Princep, or HELMET + AAtrex + Princep - Preplant, Preplant Incorporated or Preemergence - Corn (All Types)

	BROADCAST RATES PER ACRE					
	LESS	THAN 3% ORGANIC MA	ATTER	3% OF	RGANIC MATTER OR GR	EATER
Soil Texture	HELMET + AAtrex Nine-0* or Princep Caliber 90*		HELMET + AAtrex Nine-O** or Princep Caliber 90**	HELMET + AAtrex Nine-0* or Princep Caliber 90*		HELMET + AAtrex Nine-O** or Princep Caliber 90**
Coarse	0.85 - 1.0 pt. + 1.1 - 2.2 lbs.		0.85 - 1.0 pt. + 0.6 - 1.1 lbs. + 0.6 - 1.1 lbs.	1.0 pt. + 1.3 - 2.2 lbs.		1.0 pt. + 0.7 - 1.1 lbs. + 0.7 - 1.1 lbs.
Medium	1.0 - 1.33 pts. + 1.3 - 2.2 lbs.	OR	1.0 - 1.33 pts. + 0.7 - 1.1 lbs. + 0.7 - 1.1 lbs.	1.33 pts. + 1.8 - 2.2 lbs.	OR	1.33 pts. + 0.9 - 1.1 lbs. + 0.9 - 1.1 lbs.
Fine	1.33 pts. + 1.8 - 2.2 lbs.		1.33 pts. + 0.9 - 1.1 lbs. + 0.9 - 1.1 lbs.	1.33 - 1.67 pts. + 1.8 - 2.2 lbs.***		1.33 - 1.67 pts. + 0.9 - 1.1 lbs.*** + 0.9 - 1.1 lbs.
Muck or Peat oils with more than 0% organic matter)		DO NOT USE				

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

Tank Mixture with AAtrex – Postemergence

Tallik illixtare trial rustaex T eetelliergenee				
Weeds Controlled				
barnyardgrass (watergrass)	jimsonweed	purslane		
crabgrass	kochia	ragweed		
crowfootgrass	lambsquarters	smartweed		
fall panicum	mustard	velvetleaf		
giant foxtail	pigweed	yellow foxtail		
green foxtail	prickly sida			
Weeds Partially Controlled				
cocklebur	morningglory	yellow nutsedge		

Annly.

- 1.0 pt./A of HELMET + 1.3 lbs./A of AAtrex Nine-0* on coarse soils
- 1.33 pts./A of HELMET + 1.8 lbs./A of AAtrex Nine-O on medium soils
- 1.33 1.67 pts./A of HELMET + 1.8 2.2 lbs./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. Direct applications to the base of corn plants in excess of 5 inches. Applications to corn plants less than 5 inches tall may be made over the top. Occasionally, some corn leaf burn may result, but this should not affect later growth or yield. DO NOT apply this postemergence tank mixture in fluid fertilizer, or severe crop injury may occur.

^{**} When using the tank mixture of HELMET + AAtrex Nine-0 + Princep Caliber 90, use equal rates of each as shown when expecting heavy broadleaf weed infestations. 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 1. (Example: Total AAtrex Nine-0 + Princep Caliber 90 = 1.2 lbs./A, use 0.4 lb. of AAtrex + 0.8 lb. of Princep, respectively.) Refer to Comment No. 2 following Chart 1 for AAtrex 4L and Princep 4L conversions.

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

^{*} When using AAtrex 4L, use equivalent rates. One lb. of AAtrex Nine-O equals 1.8 pts. of AAtrex 4L.

^{**} For improved control of cocklebur, morningglory, velvetleaf, and yellow nutsedge on fine-textured soils above 3% organic matter, apply 2.2 lbs./A of AAtrex Nine-0, or equivalent rate of AAtrex 4L, with 1.33 - 1.67 pts./A of HELMET. Tank mixtures of HELMET + AAtrex may be applied following use of any registered preplant surface-applied, preplant incorporated, or preemergence corn herbicide, including HELMET + AAtrex.

Restriction: The total HELMET rate must not exceed 4 pts. or more than 2.5 lbs. a.i./A of AAtrex during any one-crop year, or illegal residues may result. 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 HELMET alone, HELMET + Banvel, applied preemergence also controls or partially controls cocklebur*, jimsonweed*, lambsquarters, morningglory*, ragweed, smartweed and velvetleaf*.

*Partially controlled.

Apply HELMET + Banvel preemergence. Broadcast 1 pt./A of Banvel with 1.33 pts./A of HELMET on medium soils, or with 1.33 - 1.67 pts/A of HELMET on fine soils. 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.

Restrictions: (1) DO NOT apply on coarse soils or on soils with less than 2.5% organic matter. (2) DO NOT incorporate before corn emergence. (3) If it is necessary to rotary hoe to break the soil crust, DO NOT disturb the soil more than 1/2 inch deep. (4) DO NOT apply with aircraft.

Precautions: (1) Avoid drift to sensitive non-target plants, such as soybeans, during application, or injury may occur.

Postemergence for Control of Pigweed (Mid-Atlantic states, including DE, MD, PA, VA, and WV):

Apply 1.0 - 1.5 pts. of HELMET + 0.5 - 1 pt./A of Banvel by ground equipment when pigweed plants are less than 3 inches tall but before field corn exceeds 5 inches in height in a minimum of 20 gals. 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. Banvel SGF and Clarity may be used at equivalent lbs. of active ingredient per acre.

Precaution: Avoid drift to sensitive non-target plants, such as soybeans, during application, or injury may occur.

Restriction: DO NOT apply with aircraft.

Tank Mixture with AAtrex and Lorox for Control of Lambsquarters and Pigweed

For prolonged control of lambsquarters and pigweed in DE, MD, NJ, NY, PA, VA, and WV, HELMET may be applied preemergence in tank mix combination with AAtrex + Lorox. Apply HELMET and AAtrex according to the rates in Table 1 and Lorox according to the following rates.

SOIL TEXTURE	BROADCAST RATE PER ACRE		
Sandy Loam (1 - 3% organic matter)	0.67 lb. Lorox		
Sandy Loam (3 - 6% organic matter)	1.0 lb. Lorox		
Medium- and fine-textured soils (1-6% organic matter)	1.0 lb. Lorox		

Observe all directions for use, precautions, and limitations on the HELMET, AAtrex, and Lorox labels when applying these products in tank mix combinations.

Tank Mixture with AAtrex or Princep + Prowl for Prolonged Control of Lambsquarters and Pigweed in Field Corn Only (Northeast U.S., including IN, KY and MI and States East of These)

To prolonged control of lambsquarters and pigweed, in addition to broadening the spectrum of annual broadleaf and grass weeds control, tank mix and apply HELMET with AAttex* or Princep + Prowl 4E after planting but before corn or weeds emerge. Refer to Table 1 of this label for rates of HELMET, AAtrex, or Princep to be applied. Apply Prowl 4E according to the following rates in Table 2.

Restriction: DO NOT apply HELMET 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 Chart 1.

Table 2: Prowl 4E - Broadcast Rates Per Acre

	PERCENT ORGANIC MATTER IN SOIL		
SOIL TEXTURE	LESS THAN 1.5%	1.5 - 3%	Over 3%
Coarse	1.5 - 2.0 pts.	2.0 pts.	3.0 pts.
Medium	2.0 pts.	3.0 pts.	3.0 pts.
Fine	2.0 pts.	3.0 pts.	3.0 pts.

Apply by ground equipment in a minimum of 10 gals. of water or 20 gals. of liquid fertilizer. Apply by air in a minimum of 5 gals. of water.

Observe all directions for use, precautions, and limitations 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 with AAtrex, or Princep, AAtrex + Princep, with Helmquat 3SL (paraquat), Landmaster BW, or Helosate Plus Advanced (glyphosate) 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, the contact herbicides Helmquat 3SL (paraquat), Landmaster BW, or Helbosate Plus Advanced (glyphosate) may be added to a tank mix of HELMET + AAtrex or Princep, or HELMET + AAtrex + Princep. See Comment No. 7 following Chart 1. The HELMET + AAtrex or Princep, or HELMET + AAtrex + Princep portion of the tank mixture provides preemergence control of the weeds listed on this label in the tank mixture section for HELMET + AAtrex or Princep, or HELMET + AAtrex + Princep – Preplant Surface, Preplant Incorporated, or Preemergence.

See Comment No. 1 following Chart 1 for special mixing instructions.

Application:

Apply before, during, or after planting, but before the corn emerges, at the rates specified below. Add Helmquat 3SL (paraquat), Landmaster BW, or Helosate Plus Advanced (glyphosate) at the following broadcast rates:

Helmquat 3SL (paraquat): Apply as directed on the product label. This treatment will not control weeds taller than 6 inches.

Restriction: DO NOT apply combinations containing Helmquat 3SL (paraguat) in suspension-type liquid fertilizers, because the activity of paraguat will be reduced.

Landmaster BW:

27 - 54 oz./A depending on weed species and size. See the Landmaster BW label for weeds controlled, specified rates for specific weeds, and other information concerning use. Helosate Plus Advanced (glyphosate):

See the Helosate Plus Advanced (glyphosate) label for weeds controlled, labeled rates, and other use directions.

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

On coarse soils, apply 1.0 pt./A of HELMET with 1.3 lbs. of AAtrex Nine-0* or Princep Caliber 90*, or with 0.7 lb. of AAtrex Nine 0** + 0.7 lb. of Princep Caliber 90**. On medium soils, apply 1.33 pts./A of HELMET with 1.8 lbs. of AAtrex Nine-0 or Princep Caliber 90, or with 0.9 lb. of Princep Caliber 90. On fine soils***, apply 1.33 - 1.67 pts./A of HELMET with 1.8 - 2.2 lbs. of AAtrex Nine-0 or Princep Caliber 90, or with 0.9 - 1.1 lbs. of AAtrex Nine-0 or Princep Caliber 90.

- * Use Princep in preference to AAtrex when heavy infestations of craborass or fall panicum are expected.
- **When using the tank mixture of HELMET + AAtrex Nine-O + Princep Caliber 90, use equal rates of AAtrex and Princep as shown when heavy broadleaf weed infestations are expected. We hen beavy infestations of crabigass or fall pancium 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 lbs./A, use 0.6 lb. of AAtrex + 1.2 lbs. of Princep, respectively, Befer to Comment No. 2 following Chart 1 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 lbs./A of AAtrex Nine-O, or equivalent rate of AAtrex 4L, or the same total amount of AAtrex + Princep, with 1.33 1.67 pts./A of HELMET.

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, HELMET applied in combination with AAtrex will kill most emerged small annual weeds. Apply HELMET + AAtrex before, during, or after planting, but before corn emerges, according to the rates in Table 1.

Where heavy crop residues exist, add 0.8 - 1.6 pts./A of an appropriately labeled 3.8 lbs. a.i./gal. 2,4-D amine (such as Weedar 64, Weedar 64A or DMA-4 Herbicide) to the spray tank last and apply in a minimum of 25 gals. of carrier per acre.

As carriers, nitrogen solutions and complete liquid fertilizers applied before corn emergence enhance burndown of existing weeds, and therefore, are recommended instead of water. Add X-77 surfactant at 1.0 - 2.0 qts./100 gals. of diluted spray, or another appropriate surfactant at its specified 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., bromegrass, orchardgrass, rye, or timothy), when existing weeds exceed 3 inches in height or when very dry conditions exist, add Helmquat 3SL (paraquat) at the rate of 2.5 pts./A in place of or in addition to 2,4-D, as indicated above.

Restriction: DO NOT apply Helmquat 3SL (paraguat) in suspension-type liquid fertilizer.

Observe all directions for use, precautions, and limitations on the respective product labels when applying these products in tank mix combination.

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, HELMET + Marksman will kill most emerged small annual weeds. Apply HELMET + 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 Helmquat 3SL (paraquat) at its standard rate. HELMET + 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 Helmquat 3SL (paraquat) in suspension-type liquid fertilizer or use on emerged corn.

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

Tank Mixture with Broadstrike + HELMET PCS

For preplant surface, preplant incorporated, or preemergence application where severe grass populations are expected on medium- or fine-textured soils with relatively high organic matter content, Broadstrike + HELMET PCS may be spiked with HELMET for optimum performance. Refer to the Broadstrike + HELMET PCS label for its use rate and the amount of meto-lachlor active ingredient it contains. HELMET may be added up to, but not to exceed, the maximum alone HELMET label rate for the soil classification. Refer to the respective labels and follow all directions, limitations, and restrictions for each product.

TANK-MIXTURE WITH BALANCE PRO — FIELD CORN ONLY

HELMET and Balance PRO have a complementary 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. HELMET improves both the duration and spectrum of annual grass and small-seeded broadleat 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. HELMET has no adverse crop response warnings or use restrictions.

Listed below are compensating rate options for combinations of HELMET and Balance PRO, e.g., higher rates of HELMET are combined with lower rates of Balance PRO and vice versa. Select a rate option for HELMET 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 is 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 Witchgrass, Yellow foxtail or Yellow nutsedge), use a tank-mix combination with a higher rate of HELMET 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, D0 NOT apply a rate of that product below what is specified 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 the label of HELMET and Balance PRO.

Coarse-textured soils: Where 1.5 or 1.88 fl. oz./A of Balance PRO is used, 1.0 -1.33 pts./A of HELMET may be applied. DO NOT use Balance PRO on coarse-textured soils with less than 1.5% organic matter.

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

Fine-textured soils: Where 1.5 fl. oz./A of Balance PRO is used, rates as low as 1.33 pts/A of HELMET may be applied if the soil organic matter is less than 3%. If the soil organic matter is 3% or greater, 1.67 pts/A of HELMET should be applied. Where 1.88 or 2.25 fl. oz./A of Balance PRO is used, rates as low as 1.33 pts/A of HELMET may be applied. Where 3.0 fl. oz./A or more of Balance PRO is used, rates as low as 1.0 pts/A of HELMET may be applied. HELMET can be used in combinations with Balance PRO at rates up to 2.0 pts./A on Fine-textured soils if the organic matter is 3% or greater

TANK-MIXTURES FOR POST-EMERGENCE SALVAGE WEED CONTROL IN FIELD CORN ONLY

For post-emergence control of weeds in specific types of field corn, the combinations listed below may be used. Full season weed control from early pre-plant, pre-plant incorporated or pre-emergence treatments can lead to maximum yield potential under competition-free conditions. However, if control of emerged weeds is needed, a post-emergence 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 limitations for each product used.
- 2) DO NOT use fluid fertilizer with these mixtures or corn injury may occur.
- 3) For each tank-mixture with HELMET, 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.

TANK-MIXTURE WITH LIBERTY HERBICIDE OR IGNITE' 280 SL

Post-emergence use in LibertyLink® Corn or Corn Warranted by Bayer CropScience as being

tolerant to Glufosinate (e.g., Liberty Herbicide or Ignite * 280 SL)

These tank-mixtures can be applied post-emergence to weeds and corn from seed designated as LibertyLink or corn warranted by Bayer CropScience as being tolerant to Glufosinate (e.g., Liberty Herbicide or Ignite 280 SL). Liberty Herbicide provides post-emergence control of a broad spectrum of grass and Broadleaf weeds and HELMET provides residual control of Grasses and certain Broadleaf weeds listed in the section HELMET Alone. Refer to HELMET Preplant Icorporated or Preemergence in Corn under the CORN HELMET ALONE section above. Use the minimum rate per soil texture and organic matter classification for season-long residual control from this tank-mix combination with Liberty Herbicide or Ignite 280 SL. Refer to the Liberty Herbicide or Ignite 280 SL label for the post-emergence application rates according to weed species and their maximum height at the time of post-emergence application. Where multiple weed species are present, use the highest specified rate to control the species and growth stages present.

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

TANK-MIXTURE WITH GLYPHOSATE

For Post-emergence Application to Glyphosate-Tolerant Corn (Roundup Ready" or Agrisure GT)

The tank-mixture of HELMET + Glyphosate can be applied post-emergence to weeds and to corn designated as Glyphosate-tolerant. Application may be applied post-emergence 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 post-emergence control of weed species on the Glyphosate label and residual control of weed species on this label. Use the minimum rate of HELMET post-emergence with Glyphosate in Glyphosate tolerant corn as specified in **HELMET Preplant Incorporated or Preemergence in Corn** under the **CORN HELMET ALONE** section above according to soil texture and organic matter. Refer to the Glyphosate label and follow appropriate use directions, application procedures, precautions and limitations. Refer to the Glyphosate label for directions to control problem species. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

TANK-MIXTURE WITH GLYPHOSATE + ATRAZINE

For Postemergence Application to Glyphosate-Tolerant Corn (Roundup Ready" or Agrisure GT)

The tank-mixture of HELMET + Atrazine + Glyphosate can be applied post-emergence to weeds and to corn designated as Glyphosate-tolerant. Application may be applied post-emergence to Glyphosate-tolerant corn from emergence up to 12-inches in height. This instruce will provide post-emergence control of weed species on the Glyphosate label and residual control of weed species on this label + Atrazine label. Use the minimum rate post-emergence of HELMET + Atrazine with Glyphosate in Glyphosate-tolerant corn as specified in **HELMET Preplant Incorporated or Preemergence** in **Corn** under the **Tank-Mixture with Atrazine or Princep**, or **Atrazine + Pricep** section and Table 1 of this label according to soil texture and organic matter. Follow all applicable use directions, limitations, precautions and information regarding application to corn on this label, Atrazine and Glyphosate labels for application to Glyphosate-lolerant corn. Where difficult is species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

COTTON

HELMET ALONE

1. Application:

Apply HELMET preemergence only in Area 1 IAR, LA, MS, TN, and Bootheel of MO) at the rate of 0.50-1.0 pt./A on sandy loams, 0.67-1.33 pts./A on medium soils, or 1.0-1.33 pts./A on fine soils.

Apply HELMET preplant incorporated or preemergence in Area 2 (NM, OK, and TX) at 1.0 pt./A on sandy loams, 1.0-1.33 pts./A on medium soils, or 1.33 pts./A on fine soils.

Apply HELMET postemergence to cotton and preemergence to weeds at 0.75-1.33 pts./A, according to the state rate limitations in the following Postemergence section.

Restriction: DO NOT use on sands and loamy sand.

2. Preplant Incorporated - NM, OK, and TX Only: Apply to the soil and incorporate into the top inch of soil immediately before planting, or after planting but before crop or weeds emerge. Uniformly incorporate use a rolling cultivator or similar implement to a depth of 1 inch or less (DO NOT incorporate 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 yellow nutsedge control and seedling johnsongrass suppression, apply HELMET preplant incorporated at the maximum rate for the soil texture, whether applied alone or mixed with Caparol 4L.

- 3. Preemergence: Apply to the soil surface at planting or after planting but before weeds or crop emerge.
- 4. Postemergence: Apply HELMET broadcast over-the-top or directed to the soil surface, according to the rate and cotton height limitations listed below by state. HELMET will not control emerged weeds so apply before weed emergence or after clean cultivation to remove existing weeds. HELMET 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 HELMET. In furrow-irrigated areas, apply HELMET, 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 ½ 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 HELMET.

AL, FL, GA, NC, SC and VA: Apply HELMET at 1.0-1.33 pts./A when cotton is 3-6 inches tall.

AR, LA, MO, MS and TN: Apply HELMET at 0.75-1.33 pts./A when cotton is 3-12 inches tall.

AR (clay soils), AZ, CA, OK, NM and TX: Apply HELMET at 1.0-1.33 pts./A when cotton is 3-12 inches tall but before August 1.

5. Multiple Applications: Use a weed control program with multiple applications of HELMET when weed pressure is heavy, difficult to control species are expected, or if reinfestation may occur. 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 HELMET will not control emerged weeds. Cotton must be at least 3 inches tall at the postemergence timing. Apply HELMET postemergence over a previous preplant or preemergence HELMET application as shown in Table 3.

Table 3: Multiple HELMET Applications to Cotton

		Multiple HELMET Applications to Cotton	
State	Preplant Incorporated or Preemergence pts./A	+	Postemergence and Cotton Height pts./A
AR, LA, MO, MS, TN	0.50 – 1.33 Preemergence Only	*	0.50 – 1.33 To 3 - 12" Cotton
NM, OK, TX	0.67 – 1.33		0.67 – 1.33 To 3 - 12" Cotton Before August 1
NC, VA	1.0 – 1.33 Preemergence Only	+	1.0 – 1.33 To 3 - 12" Cotton

In sprinkler-irrigated areas, apply HELMET and sprinkler irrigate after application with ½ -1 inch of water (½ inch on coarse-textured soils to 1 inch on fine-textured soils) to incorporate HELMET. In furrow-irrigated areas, apply HELMET, incorporate with a rolling cultivator or similar implement that provides uniform shallow incorporation (2 inches or less) - then irrigate. In non-irrigated areas, if at least ½ 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 HELMET.

Note: For best vellow nutsedge control and seedling johnsongrass suppression, apply HELMET 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. HELMET treatments may be applied over previous registered herbicide treatments.

Restrictions:

- . DO NOT apply HELMET on sand or loamy sand soils.
- DO NOT apply more than a total of 2.0 pts./A on coarse soils or 4 pts./A of HELMET on medium and fine soils during a growing season.
- DO NOT apply HELMET in areas where water is likely to "pond" over the bed.
- To avoid concentration of HELMET in the seed furrow, DO NOT make broadcast applications 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.
- In furrow-planted cotton, to avoid concentration in the furrow and potential injury, DO NOT apply HELMET postemergence until after first "knifing" or cultivation to level soil surface.
- DO NOT apply over-the-top in fluid fertilizer or any other adjuvant, surfactant, oil, or other pesticide not recommended in the cotton section of this label or injury may occur.
- DO NOT apply on Taloka silt loam.
- DO NOT use in Gaines County, TX.
- DO NOT graze or feed forage or fodder from cotton to livestock or illegal residues may result.

HELMET Tank Mixtures

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

1) Tank Mixture with Caparol 4L

Tank mixtures of HELMET + Caparol 4L may be applied preplant incorporated or preemergence in water or fluid fertilizer. When fluid fertilizer is used as a carrier for HELMET, either alone or in combination with Caparol 4L, mix only the amount that will be sprayed in one operation.

Restriction: 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 HELMET alone, HELMET + Caparol 4L, applied preplant incorporated or preemergence, also controls the following weeds:

annual morningglory	junglerice	purslane		
cocklebur*	lambsquarters	ragweed		
coffeeweed*	malva	wild oats		
groundcherry	mustard			
hairy night shade	prickly sida (teaweed)			
*shallow-germinating seedlings				

As a postemergence directed application, HELMET provides residual control of weed species on its label and Caparol 4L provides postemergence control and residual control of weeds on its label. HELMET will not control emerged weeds.

Preplant Incorporated or Preemergence: Apply HELMET + Caparol 4L, either preplant incorporated or preemergence, using the appropriate rate from Table 4. 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 4: HELMET + Caparol 4L - Cotton (NM. OK. TX)

Table 4. HELMET / Suparor 4E South (Hill, OK, TX)				
USE AREAS	SOIL TEXTURE	BROADCAST RATES PER ACRE		
USE AREAS	SOIL TEXTORE	HELMET	CAPAROL 4L	
ALL	Sand, loamy sand	DO NO	T USE	
OK and Blacklands and Gulf Coast of TX	Loams	0.85 - 1.33 pts.	2.4 pts.	
OK and Blacklands and Guil Coast of TX	Clays	1.33 pts.	4.8 pts.	
Rio Grande Valley of TX	Loams	0.85 - 1.33 pts.	3.2 pts.	
nio dialide valley of 1A	Clays	1.33 pts.	4.8 pts.	
	Sandy Loam	0.85 - 1.0 pt.	1.6 pts.	
NM, High Plains, Rolling Plains, Edwards Plateau of TX and Southwest TX	Loams	0.85 - 1.33 pts.	2.4 pts.	
	Sandy clay loams	1.33 pts.	2.4 pts.	
	Other clay loams	1.33 pts.	3.2 pts.	

Postemergence-Directed (AR, AZ, CA, LA, MO, MS, NM, OK, TN and TX):

Tank mix HELMET with Caparol 4L in water and apply postemergence directed in cotton for control of emerged weeds listed on the Caparol 4L label and residual preemergence control of weeds controlled by HELMET and Caparol 4L. Also, application may be made after cultivation for residual preemergence control. These treatments may be applied over previous registered treatments, including HELMET, provided the maximum label rate of any product is not exceeded. DO NOT apply over-the-top of cotton or injury may occur.

Apply HELMET + Caparol 4L tank mixture in a minimum of 20 gals. of spray volume per acre. Follow all directions, limitations, and precautions on the Caparol 4L label when Caparol is applied as a postemergence-directed application. Refer to the directions, limitations, and precautions for use of HELMET under the Cotton-HELMET Alone-Postemergence section.

Restrictions

- DO NOT make broadcast applications of HELMET + Caparol 4L to cotton planted in furrows more than 2 inches deep in order to avoid concentration in the seed furrow. Band applications may be made to cotton planted in furrows deeper than 2 inches, but to avoid crop injury band width must not exceed the width of the bottom of the furrow.
- DO NOT apply on sand or loamy sand soils.
- DO NOT apply HELMET in areas where water is likely to "pond" over the bed.
- DO NOT apply in cut areas of newly leveled fields, or in areas of excess salt.
- DO NOT apply to glandless cotton varieties.
- DO NOT apply on Taloka silt loam.
- . DO NOT use in Gaines County, TX.
- DO NOT graze or feed forage or fodder from cotton to livestock or illegal residues may result.
- Refer to the Caparol 4L label for further instructions and limitations.

2) Tank Mixture with Cotoran DF

Tank mixture of HELMET + Cotoran DF may be applied preemergence for control of weeds controlled by HELMET alone and those listed on the Cotoran DF label. Additionally, this combination will control spotted spurge, hyssop spurge, nodding spurge, and prostrate spurge. Apply to soil surface at planting or soon after planting but before weeds or crop emerge, using the appropriate rates from Table 5. 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. HELMET will not control emerged weeds but will provide preemergence control of species on its label.

Mixing Instructions: Incompatibility can occur when tank mixing HELMET and Cotoran DF. To help overcome this condition mix as follows:

- . Fill the spray tank 1/4 full with water or fluid fertilizer.
- · Start agitation.
- · Add Cotoran DF and allow it to become dispersed.
- Add X-77 at 0.5% volume/volume final spray (4 pts./100 gals.).
- · Add the HELMET.
- Finish filling tank with 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 5: HEI MET + Cotoran DF-Cotton

	BROADCAST RATES PER ACRE			
SOIL TEXTURE	HEL	COTORAN DF***		
	AREA 1*	AREA 2**		
Sand, loamy sand		DO NOT USE		
Sandy loam	0.50 - 1.0 pt.	0.85 - 1.0 pt.	1.2 lbs.	
Loam, silt, silt loam	0.67 - 1.33 pts.	1.0 - 1.33 pts.	1.2 - 1.9 lbs.	
Fine soil	1.0 - 1.33 pts.	1.33 pts	1.9 - 2.4 lbs.	
*Area 1 - AR LA MO Rootheel MS and TN				

Area 1 = AR, LA, MO Bootheel, MS and TN

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 (over-the-top applications may cause cotton injury). HELMET will not control emerged weeds but will provide preemergence control of species on its label. Apply when cotton is in the 3- to 12-inch stage. 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 HELMET, provided the maximum label rate of any product is not exceeded.

Restrictions:

- . DO NOT apply HELMET + Cotoran on sand or loamy sand soils.
- DO NOT apply HELMET in areas where water is likely to "pond" over the bed.
- DO NOT make broadcast applications of HELMET + Cotoran to cotton planted in furrows more than 2 inches deep in order to avoid concentration in the seed furrow. Band applications may be made to cotton planted in furrows deeper than 2 inches, but to avoid crop injury band width must not exceed the width of the bottom of the furrow.
- The use of Cotoran following the use of a systemic insecticide at planting may result in crop injury.
- . DO NOT use on Taloka silt loam, or crop injury may occur.
- . DO NOT use in Gaines County, TX.
- DO NOT use fluid fertilizer as a carrier for postemergence applications.
- DO NOT graze or feed forage or fodder from cotton to livestock or illegal residues may result.
- Refer to the Cotoran labels for further instructions, precautions, and limitations.

3) Tank Mixture of HELMET or HELMET + Cotoran with Helmquat 3SL (paraquat) or Helosate Plus Advanced (glyphosate) for Minimum-Tillage or No-Tillage Systems

When cotton is planted into a cover crop, stale seedbed, or previous crop residues in minimum-tillage or no-tillage systems the contact herbicides - Helmquat 3SL (paraguat) or Helosate Plus Advanced (glyphosate) - may be added to a tank mix of either HELMET or HELMET + Cotoran. The Helmquat 3SL (paraguat) portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds when used as directed. The Helosate Plus Advanced (glyphosate) portion of the tank mixture will control emerged annual and perennial weeds when applied as directed on the label. The HELMET and HELMET + Cotoran portion of the tank mixture will provide preemergence control of weeds listed on this label in the HELMET and HELMET + Cotoran sections, respectively.

Observe planting details, application information, geographical restrictions, and all other precautions and limitations on the label of each product used in tank mix. Refer to Mixing Instructions under the Tank Mixture with Cotoran DF section to reduce the potential of tank mix compatibility issues.

Application: Apply before, during, or after planting, but before the cotton emerges, at the rates specified below. Apply HELMET at 0.85-1.0 pts./A on sandy loams, medium-, and fine-textured soils. Refer to Table 5 for the Cotoran DF rates.

Helmquat 3SL (paraguat): Apply as directed on the product label. This treatment will not control weeds taller than 6 inches.

Restriction: DO NOT apply combinations containing Helmquat 3SL (paraguat) in suspension-type liquid fertilizers, as the activity of paraguat will be reduced. Helosate Plus Advanced (glyphosate): See the Helosate Plus Advanced (glyphosate) label for weeds controlled, labeled rates, and other use directions.

Restriction: DO NOT apply HELMET + Cotoran 4L + Helosate Plus Advanced (glyphosate) in tank mixture because of compatibility problems.

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

Precautions:

- Crop injury may result if heavy rain occurs soon after application especially in poorly drained areas where water stands for several days, or where the seeding slit has not been
- Refer to the Cotoran labels and the Tank Mixture with Cotoran DF section of this label for further instructions, precautions, and limitations.

. DO NOT use in Gaines County, TX.

4) Tank Mixture with MSMA, MSMA + Caparol, or MSMA + Cotoran

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

Postemergence-Directed (AR. AZ. CA. LA. MO Bootheel, MS. NM. OK. TN and TX):

Apply HELMET + MSMA postemergence-directed to 3- to 12-inch cotton according to the directions, limitations, and precautions on the MSMA product label as well as all directions. limitations, and precautions for use of HELMET in the section for Cotton-HELMET Alone-Postemergence. DO NOT apply after first cotton bloom. These treatments may be applied over previous registered treatments, including HELMET, provided the maximum label rate of any product is not exceeded. Cotoran or Caparol may be added to the HELMET + MSMA tank mixture according to the respective label directions for application to 3- to 12-inch cotton. When these mixtures are used, follow the mixing instructions for HELMET + Caparol or Cotoran and then add the MSMA product.

DO NOT use HELMET in tank mix with premixes of MSMA plus herbicides other than those registered for use in tank mixture with HELMET on cotton.

^{**}Area 2 = Fastern OK, Gulf Coast, Rio Grande Valley, and Fastern TX

^{***}When using Cotoran 4L, use equivalent rates, Multiply lbs, of Cotoran DF by 1.7 to get pts, of Cotoran 4L,

PEANUTS

HEI MET ALONE

Apply HELMET alone either preplant incorporated, postplant incorporated, or preemergence using the appropriate rate specified below.

Southeast - 1.0 - 1.33 pts./A (For partial control of Florida beggarweed - 1.33 - 2.0 pts./A)

NM, OK and TX - 0.85 - 1.33 pts./A

Note

(1) HELMET alone may be applied as directed after any of the following preplant incorporated herbicides when used according to their label directions: Balan at 3 - 4 qts./A; Treflan E.C. at 1 pt./A; Vernam at 2.33 - 3 pts./A; Sonalan at 1.25- 3 pts./A; Pursuit at 0.25 pt./A; or Prowl at 1 - 2 pts./A.

Restrictions:

- o DO NOT graze or feed peanut forage or fodder to livestock for 30 days following application.
- o Pre-harvest Interval (PHI): DO NOT apply within 90 days of harvest or illegal residues may result.

HELMET TANK MIXTURES

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

1) Tank Mixture with Balan L.C.

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

Apply HELMET at 1.0-1.33 pts/A + Balan at 3-4 qts/A by ground application in a minimum of 10 gals. of spray volume per acre or by aerial application in a minimum of 5.0 gals. of spray volume per acre. Follow the directions for Balan on the Balan label for soil preparation and incorporation of this tank mix. Apply and incorporate HELMET + Balan up to 14 days prior to planting.

Note: Follow all restrictions and precautions on the Balan label.

2) Tank Mixture or Sequentially with Pursuit

A tank mixture or sequential treatment of HELMET and Pursuit controls all weeds controlled by HELMET alone and by Pursuit alone.

Refer to the **HELMET Applied Alone** section for weeds controlled by HELMET and to the Pursuit label for weeds controlled by Pursuit. Refer to the respective labels and follow all directions-application methods, timings, limitations, precautions, rates and restrictions for the use of these products on peanuts and follow the most restrictive. DO NOT exceed the label rate of either product. HELMET will not control emerged weeds.

3) Tank Mixture with Sonalan

A tank mixture of **HELMET** + **Sonalan** controls all weeds controlled by HELMET alone and by Sonalan alone. Refer to the **HELMET Applied Alone** section for weeds controlled by HELMET and to the Sonalan label for weeds controlled by Sonalan. Apply tank mixture preplant incorporated, using the appropriate rate from Table 6. Follow recommended soil preparation procedures for Sonalan. Refer to the Peanut Sonalan/HELMET Tank Mixture label for incorporation specifications.

Table 6: HFI MFT + Sonalan-Peanuts

	BROADCAST RATES PER ACRE			
SOIL TEXTURE	Southeast		NM, C	DK, TX
	HELMET	Sonalan Sonalan	HELMET	Sonalan
Coarse	1.0 + 1.33 pts.	1.25 - 2.0 pts.	0.85 - 1.33 pts.	1.25 - 2.0 pts.
Medium	1.0 + 1.33 pts.	1.75 - 2.5 pts.	0.85 - 1.33 pts.	1.75 - 2.5 pts.
Fine	1.0 + 1.33 pts.	2.25 - 3.0 pts.	0.85 - 1.33 pts.	2.25 - 3.0 pts.

Note: Follow all use directions, limitations, precautions, and information regarding application to peanuts on the HELMET and Sonalan labels.

4) Tank Mixture with Prowl

A tank mixture of HELMET + Prowl applied preplant incorporated controls all weeds controlled by HELMET alone plus Texas panicum, field sandbur, johnsongrass from seed, lamb-squarters, kochia, annual spurge, and other species on the Prowl label. Apply HELMET + Prowl by ground or by air within 14 days before planting. Incorporate into the top 1-2 inches of soil before planting and within 7 days of application. Use a finishing disk or similar implement set to provide 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 HELMET + Prowl preplant incorporated using the appropriate rates from Table 7.

Table 7: HELMET + Prowl-Peanuts

	BROADCAST RATES PER ACRE		
SOIL TEXTURE	NM, OK, TX OTHER STATES		
	HELMET + PROWL	HELMET + PROWL	
Sand, loamy sand	0.85 + 1.0 - 1.5 pts.	1. 0 - 1.33 + 1.5 - 2.0 pts.	
Sandy loam	0.85 - 1.0 + 1.0 - 1.5 pts. 1. 0 - 1.3		
Fine soil	1.33 + 1.0 - 1.5 pts.	1.33 + 1.5 - 2.0 pts.	

Note: Follow all use directions, limitations, precautions, and information regarding application to peanuts on the HELMET and Prowl labels.

5) Tank Mixture with Helmquat 3SL (paraquat)

Tank mixtures of HELMET + Helmquat 3SL (paraquat) 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 **HELMET Applied Alone** section of this label. Apply Helmquat 3SL (paraquat) plus the appropriate HELMET rate from the Peanuts - HELMET Alone section in a minimum spray volume of 20 gal/A with ground equipment. Refer to the respective labels and follow all directions, timings, limitations, precautions and restrictions for the use of these products on peanuts and follow the most restrictive.

6) Tank Mixture with Helmquat 3SL (paraguat) + Basagran

Adding Basagran to the HELMET + Helmquat 3SL (paraquat) mixture will result in improved control of several problem broadleaf weeds such as prickly sida, cocklebur, smartweed, and bristly starbur. HELMET + Helmquat 3SL (paraquat) + 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 **HELMET Applied Alone** section of this label. Apply Basagran + Helmquat 3SL (paraquat) with the appropriate **HELMET** after from the Peanuts – **HELMET** Alone section in a minimum spray volume of 20 gal/A with ground equipment. Refer to the respective labels and follow all directions. Ilmitations, orecautions and restrictions for the use of these products on peanuts and follow the most restrictive.

7) Tank Mixture with Helmquat 3SL (paraguat) + Butyrac 200 or Butoxone 200

Adding Butyrac 200 or Butoxone 200 to the HELMET + **HeImquat 3SL (paraquat)** mixture will result in improved control of such problem broadleaf weeds as sicklepod, morningglory, and cocklebur. HELMET + **HeImquat 3SL (paraquat)** + 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 **HELMET Applied Alone** section of this label. Apply Helmquat 3SL (paraquat) + Butyrac 200 or Butoxone 200 with the appropriate **HELMET** Tate from the Peanuts — **HELMET** Alone section in a minimum spray volume of 20 gal/A with ground equipment. Refer to the respective labels and follow all directions, timings, limitations, precautions and restrictions for the use of these products on peanuts and follow the most restrictive.

8) TANK MIXTURE WITH BASAGRAN

HELMET + Basagran applied at ground cracking or sequentially will control species on the Basagran label and provide residual control of species listed in the **HELMET Applied Alone** section of this label. Apply 1-2 pts/A of Basagran in 20 gals/A, depending on weed species and stage of growth as specified on the Basagran label, with the appropriate HELMET rate from the **Peanuts-HELMET Alone** section. A follow-up (2^m) Basagran application may be made in all peanut growing areas if needed. Refer to the respective labels and follow all directions, timings, limitations, precautions and restrictions for the use of these products on peanuts follow the most restrictive.

9) Tank Mixture or Sequentially with Basagran + Butyrac 200 or Butoxone 200

HELMET + 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 15-2 pts./A of Basagran + B fl. oz./A of Butyrac 200 or Butoxone 200 in 20 gals./A, depending on weed species and stage of growth as specified on the Basagran label, with the appropriate HELMET rate from the **Peanuts-HELMET Alone** section. A follow-up (2*) 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, timings, limitations, precautions and restrictions for the use of these products on peanuts follow the most restrictive.

10) Tank Mixture or Sequentially with Storm

Apply HELMET according to the directions for HELMET Alone and follow with a postemergence treatment of Storm, as specified on its label for the control of weeds listed on the HELMET label and on the Storm label. HELMET will not control emerged weeds. Refer to the respective labels and follow all directions, timings, limitations, precautions and restrictions for the use of these products on peanuts and follow the most restrictive.

MULTIPLE APPLICATIONS

Where weed pressure is heavy or where species difficult to control are expected. HELMET is most effective when used as follows:

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

Preplant Incorporated:

Apply HELMET preplant incorporated as directed under Peanuts — HELMET Alone or apply HELMET + Balan preplant incorporated as directed previously in this section. Refer to the respective section for weeds controlled.

OR

UH

Preemergence to before "ground cracking":

Apply HELMET any time from preemergence to before "ground cracking" at 1.0-2.0 pts./A for extended control of weeds not yet emerged. DO NOT use HELMET after peanut emergence. If peanuts have emerged, use HELMET SPC according to its label: **Peanuts – Combinations – Multiple Applications**.

Follow the PPI or PRE application by:

Lay-by: DO NOT use HELMET. Apply HELMET SPC at lay-by as directed under the

Peanuts - Alone section of the HELMET SPC label.

Restrictions:

- D0 N0T apply more than the equivalent of 2.67 lbs. of active ingredient of HELMET per acre during any one year, or illegal residues may result. If HELMET SPC is used as a
 sequential treatment, the lbs. of active ingredient (1.0 pt. = 0.95 lb.) plus the lbs. of active ingredient of HELMET must not exceed 2.67 lbs. D0 N0T use HELMET after peanuts have
 emerged.
- DO NOT graze or feed peanut forage or fodder to livestock for 30 days following application.
- Pre-harvest Interval (PHI): DO NOT apply within 90 days of harvest, or illegal residues may result.

Southwest Only (NM, OK, TX)

1st Application:

Apply HELMET preplant incorporated or preemergence to before "ground cracking" as directed under Peanuts — HELMET Alone or apply HELMET + Balan preplant incorporated as directed previously in this section. DO NOT use HELMET after peanut emergence. If peanuts have emerged, use HELMET SPC according to its label.

2nd Applicatio

DO NOT use HELMET. Apply HELMET SPC at lay-by as directed under the Peanuts — Alone Section of the HELMET SPC label. Use only when late germinating weeds are expected to be a problem. Refer to the product Applied Alone section for a list of weeds controlled.

Restrictions

- DO NOT apply more than the equivalent of 2.67 lbs. of active ingredient of HELMET per acre during any one year, or illegal residues may result. If HELMET SPC is used as a
 sequential treatment, the lbs. of active ingredient (1.0 pt. = 0.95 lb.) plus the lbs. of active ingredient of HELMET must not exceed 2.67 lbs. DO NOT use HELMET after peanuts have
 emerged.
- DO NOT graze or feed peanut forage or fodder to livestock for 30 days following application.
- Pre-harvest Interval (PHI): DO NOT apply within 90 days of harvest, or illegal residues may result.

POD CROPS

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

* Use only preemergence applications on English peas. DO NOT use on English peas in northeastern U.S. or injury may occur. If soils are cold and wet during pea germination and emergence, the use of HELMET may delay maturity and/or reduce yields.

HELMET ALONE

Apply HELMET, either preplant incorporated or preemergence, using the appropriate rate specified below.

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 legations, apply after harvest to gree stubble

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

HELMET Fall Use Rates in Pod Crops:

Minimum-tillage or no-tillage systems - 0M > 2.5%

- 1.67-2.0 pts./A on medium-textured
- 2.0 pts./A on fine-textured soils.

Tillage prior to application is acceptable. 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.

Restrictions: DO NOT apply to frozen ground. 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 HELMET, either preplant incorporated or preemergence, using the appropriate rate specified below.

Preplant Incorporated or Preemergence:

Follow instructions for use of HELMET alone under Application Procedures.

HELMET Spring Use Rates in Pod Crops:

Coarse soils

- < 3% OM 1.0-1.33 pts./A
- > 3% OM 1.33 pts./A

Medium soils

- 1.33-1.67 pt./A Fine soils
 - < 3% OM 1.33-1.67 pts./A

- > 3% OM - 1.67-2.0 pts./A

- Restrictions:

 DO NOT cut for hay within 120 days following a HELMET application or illegal residues may result.
- DO NOT use for forage within 60 days following a HELMET application.
- DO NOT apply more than 2.0 pts./A of HELMET during any one crop year.
- HELMET COMBINATIONS

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Note: When applying HELMET in combination on pod crops, DO NOT cut for hay within 120 days following application or illegal residues may result.

1) Tank Mixture and Sequential Applications with Eptam-Beans (Green or Dry)

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

Preplant Incorporated: Follow instructions for use of HELMET alone under Application Procedures.

Sequential: Apply Eptam alone preplant incorporated as specified on that label. Follow with a preemergence application of HELMET at rates specified for HELMET alone, during planting (behind the planted, 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 2.5-4.5 pts./A of Eptam 7E* with HELMET as specified below.

HELMET Use Rates when Tank Mixed with Eptam:

Coarse soils

- < 3% OM 0.85 pt./A
- > 3% OM 1.0 pt./A

Medium soils

- < 3% OM -1.0 pt./A
- > 3% OM 1.33 pts./A

Fine soils

- < 3% OM 1.33 pts./A
- > 3% OM 1.33 1.67 pts./A

Restrictions: D0 N0T exceed 3.5 pts./A of Eptam 7E on small white beans or green beans grown on coarse-textured soils. Follow all restrictions and precautions on the respective Eptam 7E label and in the Beans, Peas, and Lentils — HELMET Alone section of this label.

2) Tank Mixture with Treflan-Beans (Dry-Kidney, Navy, Pinto, etc.; Lima; and Snap)

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

Apply HELMET + Treflan tank mix using the appropriate HELMET rate specified for HELMET 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.

Note: Refer to the respective labels and follow all directions, timings, limitations, precautions and restrictions for the use of these products on pod crops and follow the most restrictive.

POTATOES

HEI MET ALONE

Apply HELMET alone, either soil incorporated, preemergence, or 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 coarse textured soil or low in organic matter; use the higher rate on fine-textured soils or high in organic matter. Effectiveness will be reduced if later cultural practices expose untreated soil.

Soil Incorporated: Apply HELMET at 1.0-2.0 pts./A to the soil and uniformly incorporate into the top 3 inches before planting using a finishing disk, harrow, rolling cultivator, or similar implement. DO NOT bring untreated soil to the surface at planting and during later cultural practice (or weed control will be decreased). Postplant incorporated application may be made any time after planting to drag-off but before potato emergence. Use an implement that evenly distributes HELMET in the top 2 inches of soil. Avoid damaging potato seed pieces or sprouts with incorporation equipment.

Preemergence: Apply HELMET at 1.0-2.0 pts./A, either after planting as a preemergence, delayed preemergence, after drag-off or hilling treatment, but before weeds emerge. Up to 2.75 pts./A of HELMET alone may be used where soil organic matter is between 6% and 20%.

After Hilling/Lay-by: Apply 1.67 pts./A of HELMET after hilling/at lay-by to control HELMET sensitive species for remainder of the growing season. This hilling/at lay-by application of HELMET will not control emerged weeds. It may be applied over a previous HELMET application but DO NOT apply more than 3.7 pts./A of HELMET in a single crop season.

Precautions:

• If cool, wet soil conditions occur after application, HELMET may delay maturity and/or reduce yield of Superior and other early maturing potato varieties.

Restrictions:

- Pre-harvest Interval (PHI): DO NOT harvest potatoes treated with HELMET within 60 days after the at-planting to drag-off application, or within 40 days after a lay-by application or illegal residues may result.
- . DO NOT use on muck or peat soils.
- DO NOT apply to sweet potatoes or yams.
- DO NOT apply both as a preemergence and an incorporated treatment.
- . DO NOT use in Kern County, CA.

HELMET COMBINATIONS

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

1. Tank Mixture with Sencor

In addition to those weeds controlled by HELMET alone, HELMET applied in tank mix combination with, or sequentially with, any of the registered Sencor 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.

Apply HELMET at 1.0-2.0 pts./A plus the labeled Sencor use rate preemergence through after last hilling.

HELMET Use Rates when Tank Mixed With Sencor:

Coarse soils

- 1.0 - 1.33 pts./A

Other soil types

- 1.33 – 2.0 pts./A

Within these rate ranges, 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. HELMET will not control emerged weeds. Refer to the respective labels and follow all directions, timings, limitations, precautions and restrictions for the use of these products on potatoes and follow the most restrictive.

Precautions

 To avoid crop injury with the exception of center pivot application, postemergence applications to potatoes should be made only as a directed or semi-directed spray to avoid chlorosis, minor necrosis, or leaf distortion.

^{*}Refer to the Eptam label for rate limitations depending on geographical area and for species and varietal restrictions.

Restrictions:

- Pre-harvest Interval (PHI): DO NOT harvest potatoes treated with HELMET + Sencor within 60 days after application or illegal residues may result.
- . DO NOT use on muck or peat soils.
- DO NOT apply both as a preemergence and an incorporated treatment.
- . DO NOT use in Kern County, CA.
- . DO NOT apply to sweet potatoes or vams.

2. HELMET + Lorox Tank Mixture (East of Rocky Mountains)

HELMET may be tank-mixed with any registered Lorox formulations as a preemergence broadcast application to potato east of the Rocky Mountains. 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 8.

Table 8: HELMET + Lorox-Potatoes (East of Rocky Mountains)

	BROADCAST RATES PER ACRE			
SOIL TEXTURE	1% to Less Than 3% Organic Matter		3 to 5% Organic Matter	
	HELMET	Lorox*	HELMET	Lorox*
Coarse Sandy Ioam	1.0 pt.	1.0 - 1.5 lbs.	1.33 pts.	1.5 - 2.0 lbs.
Medium Loam, silt loam, silt	1.33 pts.	1.5 - 2.0 lbs.	1.67 - 2.0 pts.	2.0 - 2.5 lbs.
When using Lorox L or Lorox DF, use equivaler	nt rates. One pt. of Lorox L equals 1	lb. of Lorox DF.		<u> </u>

Restrictions:

- . DO NOT use on sands or loamy sands.
- DO NOT incorporate or spray over the top of emerged potatoes.
- Pre-harvest Interval (PHI): DO NOT harvest potatoes treated with HELMET + Lorox within 60 days after application or illegal residues may result.

Refer to the respective labels and follow all directions, timings, limitations, precautions and restrictions for the use of these products on potatoes and follow the most restrictive.

3. Tank Mixture with Prowl 4E

In addition to the weeds controlled by HELMET alone, a 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 HELMET + Prowl 4E preemergence, preemergence incorporated, or early postemergence, according to the specific directions on the Prowl 4E label, using the rates in Table 9.

Table 9: HFI MFT+ Prowl 4F-Potatoes

	BROADCAST RATES PER ACRE			
SOIL TEXTURE	Less than 3% Orga <mark>nic</mark> Matter	More than 3% Organic Matter		
	HELMET + PROWL 4E	HELMET + PROWL 4E		
Coarse	1.0 - 1.33 pts. + 1.0 - 1.5 pts.	1.0 - 1.33 pts. + 1.0 - 1.5 pts.		
Medium	1.33 pts. + 1.5 - 2.0 pts.	1.33 - 1.67 pts. + 2.0 - 3.0 pts.		
Fine	1.33 - 1.67 pts. + 2.0 - 3.0 pts.	1.67 - 2.0 pts. + 3.0 pts.		

^{*}When using other formulations of Prowl, use equivalent rates of active ingredient. Refer to the respective labels and follow all directions, timings, limitations, precautions and restrictions for 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 HELMET alone, this tank mixture will control those species on the Prowl 4E and Eptam labels. Refer to the HELMET + Prowl 4E labels for rates of those products and add Eptam 7E at 3.5-7.0 pts./A, depending on geographical area. Refer to the respective HELMET, 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.

SAFFLOWER

HEI MET ALONE

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

HELMET Use Rates in Safflower: Coarse soils

- < 3% OM 1.0 1.33 pts./A
- > 3% OM 1.33 pts./A

Medium soils

- 1.33 - 1.67 pts./A

Fine soils

- < 3% OM 1.33 1.67 pts./A
- > 3% OM 1.67 2.0 pts./A

GRAIN OR FORAGE SORGHUM (SEED TREATED WITH CONCEP*)

HELMET ALONE

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

Preplant Surface-Applied: Refer to instructions for use of HELMET under Application Procedures. In minimum-tillage or no-tillage systems only, apply HELMET 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 2/3 of the broadcast rate applied initially and the remaining 1/3 at planting. Apply 1.50 pts./A of HELMET on medium soils or 1.67 pts./A on fine soils. Treatments made less than 30 days prior to planting may be made either as a split or single application. Apply 1.33 pts./A of HELMET on coarse soils not more than 2 weeks prior to planting. Under dry conditions, irrigation after application is recommended to move HELMET into the soil.

Preplant Incorporated or Preemergence: Refer to instructions for use of HELMET under Application Procedures. Broadcast 1.0-1.33 pts./A of HELMET on coarse soils, 1.33-1.50 pts./A on medium soils, or 1.33-1.67 pts./A on fine soils.

Precautions:

- If sorghum seed is not properly treated with Concep seed treatment, preplant and preemergence applications of HELMET will severely injure or cause crop death.
- Under high soil moisture conditions prior to sorghum emergence, injury may occur following preplant and preemergence application of HELMET. The crop will normally outgrow
 this effect.

Restrictions:

- . DO NOT use HELMET on sorghum grown under dry mulch tillage, or injury may occur.
- Except for the split preplant surface treatment, DO NOT make more than one HELMET application per year.

HELMET COMBINATIONS

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

HELMET tank mixtures with AAtrex may be applied in water or fluid fertilizer. Apply HELMET in tank mixtures only when the sorghum seed has been properly treated by the seed company with Concep.

IMPORTANT: FOR TANK MIXTURES WITH AATREX (OR OTHER BRANDS OF ATRAZINE) If applying HELMET 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.

Note: Certain states 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.

Precautions:

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

Restrictions:

- DO NOT use HELMET + AAtrex on sorghum grown under dry mulch tillage or injury may occur.
- Except for the split preplant surface treatment, DO NOT make more than one application per year or illegal residues may result.

1. Tank Mixture with AAtrex

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

Preplant Surface-Applied: Refer to instructions for use of HELMET under Application Procedures. For minimum-tillage or no-tillage systems only, HELMET + Attrex 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 2/3 of the broadcast rate applied initially and the remaining 1/3 at planting. Apply 1.50 gts./A of HELMET + 1.7-2 lbs./A of Aftrex Nine-0* on medium soils with 1.5% organic matter or greater. Apply 1.50 gts./A of HELMET + 1.7-2 lbs./A of Aftrex Nine-0 on fine soils with 1.5% organic matter or greater. Treatments Jess than 30 days prior to planting may be made either as a split or single application. Under dry conditions, irrigation after application is recommended to move HELMET + Adtrex into the soil.

Restrictions:

- . DO NOT use on coarse soils.
- DO NOT use on medium soils with less than 1.5% organic matter.

Preplant Incorporated or Preemergence: Refer to instructions for use of HELMET under Application Procedures. On medium soils with 1.5% organic matter or greater, apply 1.0 pt./A of HELMET + 1.3 lbs./A of AAtrex Nine-0*. On fine soils with less than 1.5% organic matter, apply 1.0 pt./A of HELMET + 1.3 lbs./A of AAtrex Nine-0; on fine soils with 1.5% organic matter or greater, apply 1.2-1.33 pts/A of HELMET + 1.6-1.8 lbs./A of AAtrex Nine-0.

*When using AAtrex 4L, use equivalent rates. One lb. of AAtrex Nine-O equals 1.8 pts. of AAtrex 4L.

Restrictions

- . DO NOT use on coarse soils.
- . DO NOT use on medium soils with less than 1.5% organic matter.
- . DO NOT use in NM, OK, or TX, except in northeast OK and the TX Gulf Coast and Blacklands areas.
- DO NOT apply preplant incorporated in AZ or the Imperial Valley of CA.

2. Tank Mixture of HELMET + AAtrex, with Helmquat 3SL (paraguat), Landmaster BW, or Helosate Plus Advanced (glyphosate) for Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where sorghum (seed treated with Concep or Screen) is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Helmquat 3SL (paraquat), Landmaster BW, or Helosate Plus Advanced (glyphosate) may be tank mixed with HELMET or HELMET + AAtrex. See Comment below.* The HELMET or HELMET + AAtrex portion of the tank mixture provides preemergence control of the weeds listed on this label under the respective sections.

*In Minimum-Tillage and No-Tillage systems, mix with Helmquat 3SL (paraguat) 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 Helosate Plus Advanced (glyphosate) for control of most emerged annual and perennial weeds.

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 Helmguat 3SL (paraguat), Landmaster BW, or Helpsate Plus Advanced (glyphosate) and apply as directed on the product labels.

Helmquat 3SL (paraguat): 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.

Helosate Plus Advanced: Apply as directed on the Helosate Plus Advanced (glyphosate) brand label. See label for weeds controlled, use rates, and other use directions.

Note: Refer to the respective labels and follow all directions, timings, limitations, precautions and restrictions for the use of these products on grain or forage sorghum and follow the most restrictive.

Apply in a minimum of 20 gals. of water per acre with conventional spray equipment.

SOYBEANS

HEI MET ALONE

Apply HELMET, either preplant surface-applied, preplant incorporated, preemergence or postemergence using the appropriate rate specified below. Preplant Surface-Applied, Preplant Incorporated, or Preemergence: Follow instructions for use of HELMET alone under Application Procedures.

Preplant Surface-Applied

1) Fall Application – Apply based on the following dates for different geographic areas

MN, ND, SD, WI and North of Route 30 in IA - after September 30

NE - North of Route 91 and South of Route 30 in IA - after October 15

IL - North of Route 136 - after October 31

In all areas, 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-tillage or no-tillage systems on soils having greater than 2.5% organic matter, use 1.67-2.0 pts./A on medium-textured and 2.0 pts./A on fine-textured soils. A tillage operation may be made before the application. Application may be followed by a fall and/or a spring tillage. However, DO NOT exceed an incorporation depth greater than 2-3 inches. Minimize furrow and ridge formation in the tillage operations.

Restrictions: DO NOT apply to frozen ground. If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for soybeans or illegal residues may result.

Use on medium and fine soils with minimum-tillage or notillage 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 2/3 of the listed rate of HELMET (1.67 pts./A on medium soils and 2.0 pts./A on fine soils) as a split treatment 30-45 days prior to planting. Apply the remainder at planting. If application is to be made less than 30 days before planting it may be applied either a split or single treatment. Apply 1.33 pts./A on coarse soils not more than 2 weeks prior to planting.

Preplant Incorporated or Preemergence

Apply in soybeans as Preplant Incorporated or Preemergence application using the following rates.

HELMET Preplant Incorporated or Preemergence in Soybean:

Coarse soils

- < 3% OM - 1.0-1.33 pts./A

- > 3% OM - 1.33 pts./A

Medium soils

- 1.33-1.67 pt./A

Fine soils

- < 3% OM - 1.33-1.67 pts./A

- > 3% OM - 1.67-2.0 pts./A

Restriction: HELMET may be used in soybeans up to 2.55 pts./A as a preplant surface-applied, preplant incorporated, or preemergence treatment on soils having an organic matter content between 6% and 20%. The total HELMET rate applied to soybeans during any one crop must not exceed 2.55 pts./A.

Postemergence Application

From emergence up through the 5th trifoliate leaf stage*

*Not for Use in California.

Apply Helmet at 1.0 - 1.33 pts./A to soybeans as a postemergence application from emergence up through the 5th trifoliate leaf stage. Apply Helmet to a weed-free surface as Helmet will not control emerged weeds. If weeds are present at the time of application, Helmet may be tankmixed with products that provide postemergence control of the emerged weeds.

Restrictions:

- Pre-harvest Interval (PHI): DO NOT apply within 90 days of harvest or illegal residues may result.
- DO NOT apply more than 1.33 pts./A of Helmet postemergence or illegal residues may result.
- DO NOT graze or feed treated forage or hav from sovbeans to livestock following a postemergence application of Helmet.
- DO NOT apply a postemergence application of Helmet if a preplant surface, preplant incorporated or preemergence application of metolachlor products has already been applied.

HELMET COMBINATIONS

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Water or fluid fertilizer may be used as carrier for HELMET in combination with Sencor, Lorox, Canopy, Pursuit, Scepter, Sonalan, or Command.

Restriction: For all of the following combinations, HELMET may be used up to 2.5 pts./A on soils having an organic matter content between 6% and 20%. The total HELMET rate applied to soybeans during any one crop year must not exceed 2.55 pts./A.

1) Tank Mixture with Sencor

HELMET + Sencor when applied as directed controls the following broadleaf weeds: cocklebur*, hairy nightshade, hemp sesbania, jimsonweed*, lambsquarters, prickly sida, ragweed, smartweed, velvetleaf. Venice mallow, and wild mustard in addition to those weeds controlled by HELMET alone.

Apply HELMET and Sencor preplant incorporated or preemergence using the rates in Table 10. Preplant Incorporated or Preemergence: Follow instructions for use of HELMET alone under Application Procedures.

Sequential: Apply HELMET alone Preplant Incorporated, as specified in Table 10 for this tank mixture. Follow with a preemergence application of Sencor during planting (behind the planter) or after planting but before weeds or soybeans emerge. Refer to the Sencor label for planting details and soybean variety restrictions.

Table 10: HELMET + Sencor - Sovbeans

	BROADCAST RATES PER ACRE			
SOIL TEXTURE**	0.5% to less than 3% Organic Matter	3% Organic Matter or Greater		
	HELMET + SENCOR*	HELMET + SENCOR*		
Coarse Loamy sand (over 2% organic matter), sandy loam	0.85 - 1.0 pt. + 0.33 lb.	1.0 pt. + 0.5 lb.		
Medium	1.0 - 1.33 pts. + 0.5 lb.	1.33 pts. + 0.67 lb.***		
Fine	1.33 pts. + 0.67 lb.	1.33 - 1.67 pts. + 0.67 lb.		
Mississippi Delta only Silty clay, clay	1.33 pts. + 1.0 lb.	1.33 - 1.67 pts. + 1.0 lb.		
Muck or Peat (soils with more than 20% OM	DO N	DO NOT USE		
*When using Sencor 4, multiply lbs, of DF by 1.5 to get pts.	/A			

When using Sencor 4, multiply lbs. of DF by 1.5 to get pts./A.

Restrictions:

- DO NOT use tank mix or sequential application on soil with less than 0.5% organic matter.
- DO NOT use tank mix or sequential application on alkaline soil with a pH over 7.4 or crop injury may occur.
- If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days.

2) Tank Mixture with Lorox

HELMET + Lorox when applied preemergence controls the following broadleaf weeds: cocklebur*, jimsonweed*, lambsquarters, morningglory*, prickly sida, ragweed, smartweed, velvetleaf*, Venice mallow, and wild mustard in addition to those weeds controlled by HELMET alone. *Partially controlled.

Preemergence: Apply during planting (behind planter) or after planting, but before weeds or soybeans emerge. Refer to the Lorox label for planting details. Apply the appropriate rates from Table 11.

Precautions: DO NOT use on soil with less than 0.5% organic matter or crop injury may occur.

^{**}On all sand and on loamy sand with less than 2% organic matter, DO NOT use this tank mixture preemergence or the sequential treatment. DO NOT use the tank mixture preplant incorporated on any sand, loamy sand, or sandy loam or crop injury may occur.

^{***}Use 0.5 lb./A if applied preplant incorporated.

Table 11: HELMET + Lorox-Sovbeans

	BROADCAST RATES PER ACRE			
SOIL TEXTURE*	0.5% to less than 3% Organic Matter	3% Organic Matter or Greater		
	HELMET + Lorox DF**	HELMET + Lorox DF**		
Coarse	0.85 + 1.0 lb.	1.0 pt. + 1 - 1.5 lb.		
Medium	1.0 pt. + 1 - 1.5 lb. 1.33 pts. + 1.5 - 2.0 lbs.			
Fine	1.33 pts. + 2.0 lb.	1.33 - 1.67 pts. + 2.5 - 3.0 lbs.		
Muck or Peat (soils with more than 20% OM	DO NOT USE			
*DO NOT use on sand, gravelly soils, or exposed subsoils.				

3) Tank Mixture with Treflan

HELMET + Treflan tank mix applied preplant incorporated controls weeds listed under the **HELMET Applied Alone** section and those weeds listed for Treflan Alone on the Treflan label. HELMET + Treflan tank mixture may be applied by ground or by aerial equipment and incorporated up to 14 days before planting. Follow the procedures on the Treflan and HELMET labels using equipment that provides uniform 2-inch incorporation.

Apply HELMET + Treflan tank mix, using the appropriate rate from the Soybeans-HELMET Alone section of this label and the Treflan Alone section of the Treflan label for the specific soil texture/organic matter classification and weed species expected.

*To control DNA-resistant goosegrass and other species on the respective labels where the soil organic matter is 3% or less, apply the rate listed in Table 12.

Table 12: HELMET L Treffon Organic Matter Content Less Than 2%

	BROADCAST RATES PER ACRE			
SOIL TEXTURE	HELMET	TREFLAM	V EC**	
		Organic Matter		
	Organic Matter Less Than 3%	Less Than 2%	2 - 3%	
Coarse	0.85 - 1.0 pt.	1.0 pt.	1.5 pts	
Medium	1.0 pt.	1.5 pts.	1.5 pts	
Fine soil	1.33 pts	2.0 pts	2.0 pts	
* When a range of rates is given for HELMET use the minimum HELMET rate where DNA-resistant goosegrass is the predominant species.				

^{**}When Treflan MTF or Treflan 5 is used, use comparable rates. Multiply pts. of Treflan E.C. by 1 for Treflan MTF and by 0.8 for Treflan 5.

Note: Follow all restrictions and precautions on the respective Treflan label and in the Soybeans-HELMET Alone section of this label.

4) Tank Mixture with Scenter

A tank mixture of HELMET + Scepter controls all weeds controlled by HELMET alone and by Scepter alone. Refer to the HELMET Applied Alone section for weeds controlled by HELMET and to the Scepter label for weeds controlled by Scepter. Refer to the Scepter label for geographical locations where this tank mixture may be applied.

Apply HELMET + Scepter preplant incorporated or preemergence using rates in Table 13. Follow use directions under Application Instructions on the Scepter label. For preplant incorporated applications, apply and incorporate within 30 days before planting. Observe all other precautions and limitations on the Scepter labels.

Table 13: HELMET + Scepter-Soybeans

	BROADCAST RATES PER ACRE			
SOIL TEXTURE	Less Than 3% Organic Matter		3% or More Organic Matter	
	HELMET	Scepter	HELMET	Scepter
Coarse	0.85 pt.	0.67 pt.	1.0	0.67 pt.
Medium	1.0 pts.	0.67 pt.	1.33	0.67 pt.
Fine	1.33 pts	0.67 pt.	1.33 - 1.67 pts*	0.67 pt.
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE			
*Use the higher rate of HELMET if heavy weed in	efectations are expected			

Restrictions:

- . Pre-harvest Interval (PHI): DO NOT apply within 90 days of harvest
- DO NOT graze or feed treated soybean forage, hay, or straw to livestock or illegal residues may result.

^{**}DO NOT use on loamy sand except in the northeastern U.S. on loamy sand with over 1% organic matter.

When using Lorox L or Lorox DF, use equivalent rates. One pt. of Lorox L equals 1 lb. of Lorox DF.

5) Tank Mixture with Canopy

This tank mixture controls all weeds controlled by both HELMET and Canopy when applied alone. Refer to the **HELMET Applied Alone** section for weeds controlled by HELMET and to the Canopy label for weeds controlled by Canopy. Apply preplant incorporated or preemergence using the appropriate rates from Table 14.

Preplant Incorporated: Apply within 2 weeks of planting. Uniformly incorporate into the top 1-2 inches of soil before planting soybeans.

Preemergence: Apply after planting, but before soybeans emerge.

Note: Follow all use directions, varietal restrictions, limitations, precautions, information regarding application to soybeans, and rotational restrictions on the HELMET and Canopy lakels

Table 14: HELMET + Canopy-Sovbeans

SOIL TEXTURE	BROADCAST RATES PER ACRE			
SOIL TEXTORE	HELI	Canopy		
	Less Than 3% Organic Matter	3% or More Organic Matter		
Coarse	0.85 pt.	1.0 pt.	*	
Medium	1.0 pt.	1.33 pts.	*	
Fine soil	1.33 pts	1.33 - 1.67 pts.	*	
Refer to the Canopy label for appropriate rate according to geographical location, soil and organic matter classification, and pH limitations.				

Restrictions: DO NOT apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 7.0, except as noted on the Canopy label.

6) Tank Mixture with Command*

HELMET tank mixed with Command controls all weeds controlled by HELMET alone and Command alone. Refer to the **HELMET Applied Alone** section for weeds controlled by HELMET and to the Command label for weeds controlled by Command.

Apply HELMET + Command preplant incorporated, using rates in Table 15 . Follow all Command application instructions as to incorporation interval, geographical location, equipment operation, soil moisture conditions, etc.

*Note: Before making applications, read and strictly follow all use directions, limitations, precautions, information regarding application to soybeans, and rotational restrictions on the HELMET and Command labels.

Table 15: HELMET + Command-Sovbeans

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	HEL	MET	Comm	and 4E
	0.5 - 3% Organic Matter	Greater than 3% Organic Matter	Northern Area	Southern Area
Coarse	0.85 pt.	1.0 pts.	1.5 - 2.0 pt.	2 - 2.5 pts.
Medium	1.0 pts.	1.33 pts.	1.5 - 2.0 pt.	2 - 2.5 pts.
Fine	1.33 pts	1.33 - 1.67 pts.	1.5 - 2.0 pt.	2 - 2.5 pts.

7) Tank Mixture with Sonalan

HELMET tank mixed with Sonalan controls all weeds controlled by HELMET alone and by Sonalan alone. Refer to the HELMET Applied Alone section for weeds controlled by HELMET and to the Sonalan label for weeds controlled by Sonalan.

Apply HELMET and Sonalan preplant incorporated using the appropriate rates from Table 16.

Preplant Incorporated: Follow soil preparation procedures for Sonalan. Refer to the Sonalan/ HELMET Tank Mixture label for incorporation specifications.

Sequential: Apply Sonalan alone preplant incorporated as specified on the Sonalan label. Follow with a preemergence application of HELMET during planting (behind the planter) or after planting but before weeds or soybeans emerge.

Table 16: HELMET + Sonalan-Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE				
	Less Than 3% Organic Matter		3% or More Organic Matter		
	HELMET	Sonalan	HELMET	Sonalan	
Coarse	1.0 - 1.33 pts.	1.25 - 2.0 pts.	1.33 pts.	1.25 - 2.0 pts.	
Medium*	1.33 - 1.67 pts.	1.75 - 2.5 pts.	1.33 - 1.67 pts.	1.75 - 2.5 pts.	
Fine*	1.33 - 1.67 pts.	2.25 - 3.0 pts	1.67 - 2.0 pts.	2.25 - 3.0 pts.	
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE				
*For eastern black nightshade on these soils, apply Sonalan at 3 pts./A on medium- and 3.5 pts./A on fine-textured soils, and follow with 2 incorporation passes.					

Note: Follow all use directions, limitations, precautions, and information regarding application to soybeans on the HELMET and Sonalan labels.

8) Tank Mixture with Pursuit

HELMET tank mixed with Pursuit controls all weeds controlled by HELMET alone and by Pursuit alone. Refer to the **HELMET Applied Alone** section for weeds controlled by HELMET and to the Pursuit label for weeds controlled by Pursuit. Refer to the Pursuit label for geographical locations where this tank mixture may be applied. Apply HELMET + Pursuit early preplant, preplant incorporated, or preemergence after planting using rates in Table 17. Application may be made in water or liquid fertilizer. Follow all use directions under Soil Applications on the Pursuit label. For early preplant and preplant incorporated applications, apply within 30 days before planting.

Note: Follow all use directions, limitations, precautions, information regarding application to soybeans, and rotational restrictions on the HELMET and Pursuit labels.

Table 17: HELMET + Pursuit-Sovbeans

······································						
	BROADCAST RATES PER ACRE					
SOIL TEXTURE	HEI	Pursuit				
	Less Than 3% Organic Matter	3% or More Organic Matter				
Coarse	0.85 pt.	1.0 pt.	0.25 pt.			
Medium	1.0 pt.	1.33 pts.	0.25 pt.			
Fine soil	1.33 pts	1.33 - 1.67 pts.	0.25 pt.			

Sequential: Apply HELMET early preplant, preplant incorporated, or preemergence after planting at 0.85 pt./A on coarse soils and 1.0 pt./A on medium- and fine-textured soils. Follow with a sequential postemergence application of Pursuit to control emerged weeds according to the Pursuit label. HELMET will improve the consistency and level of control from Pursuit on most grass species. Refer to the Pursuit postemergence label for a listing of weeds controlled, application rafe, and growth stage limitations.

9) Tank Mixture with Sencor, Scepter, Lorox, Canopy, or Pursuit, plus Helmquat 3SL (paraquat) or Helosate Plus Advanced (glyphosate) for Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where soybeans are planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Helmquat SSL (paraquat) or Helosate Plus Advanced (glyphosate) may be added to a tank mix of either HELMET + Sencor, HELMET + Septer, HELMET + Lorox, HELMET + Canopy, or HELMET + Pursuit. When used as directed, the Helmquat SSL (paraquat) portion of the tank mixture controls meeting eweds and suppresses many perennial weeds. Helosate Plus Advanced (glyphosate) combinations will control emerged annual and perennial weeds when applied as directed on the Helosate Plus Advanced (glyphosate) label. The HELMET + Sencor, Scepter, Lorox, Canopy or Pursuit portion of the tank mixture provides preemergence control of the weeds listed on this label in the tank mixture section for HELMET + Sencor, HELMET + Sencor, HELMET + Sencor, HELMET + Lorox, HELMET + Canopy, and HELMET + Pursuit, respectively. Refer to the label of each product used in combination and observe the planting details, soybean variety restrictions, information regarding application to soybeans, geographical restrictions, and all other precautions and limitations.

Refer below for rates of Helmquat 3SL (paraquat) or Helosate Plus Advanced (glyphosate), HELMET + Sencor, HELMET + Scepter, HELMET + Lorox, HELMET + Canopy, and HELMET + Pursuit, respectively.

Application: Apply before, during, or after planting, but before the soybeans emerge, at the rates specified below. Add Helmquat 3SL (paraquat) or Helosate Plus Advanced (glyphosate) at the following broadcast rates:

Helmquat 3SL (paraguat): Apply as directed on the product label. This treatment will not control weeds taller than 6 inches.

Restriction: DO NOT apply combinations containing Helmquat 3SL (paraquat) in suspension type liquid fertilizers as the activity of paraquat will be reduced.

Helosate Plus Advanced (glyphosate): See the Helosate Plus Advanced (glyphosate) label for weeds controlled, labeled rates, and other use directions. Apply in 20-60 gals. of water or fluid fertilizer per acre with ground equipment.

HELMET + Sencor + Helmquat 3SL (paraquat) or Helosate Plus Advanced (glyphosate)

Loamy sand with over 2% organic matter - apply 1.0 pt./A of HELMET + 0.33-0.5 lb./A of Sencor.

Medium soils - apply 1.33 pts./A of HELMET + 0.5-0.67 lb./A of Sencor.

Fine soils - apply 1.33-1.67 pts./A of HELMET + 0.67 lb./A of Sencor.

* When using Sencor 4, multiply lbs. of DF by 1.5 to get pts./A.

Restrictions:

- To avoid crop injury, DO NOT use this tank mixture on soil with less than 0.5% organic matter, on alkaline soil with a pH over 7.4, or on all sand and loamy sand with less than 2% organic matter.
- 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.

HELMET + Scenter + Helmquat 3SL (paraguat) or Helpsate Plus Advanced (glyphosate)

Coarse soils - apply 1.0 pt./A of HELMET + 0.67 pt./A of Scepter.

Medium soils - apply 1.33 pts./A of HELMET + 0.67 pt./A of Scepter.

Fine soils, apply 1.67 pts. /A of HELMET + 0.67 pt./A of Scepter.

Restrictions

- Pre-harvest Interval (PHI): DO NOT apply within 90 days of harvest.
- DO NOT graze or feed treated soybean forage, hay, or straw to livestock or illegal residues may result.

HELMET + Lorox + Helmquat 3SL (paraguat) or Helosate Plus Advanced (glyphosate)

Coarse soils* - apply 1.0 pt./A of HELMET + 1-1.5 lbs./A of Lorox DF**.

Medium soils - apply 1.33 pts./A of HELMET + 1-2 lbs./A of Lorox DF.

Fine soils, apply 1.33-1.67 pts./A of HELMET + 2-3 lbs./A of Lorox DF.

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

Restrictions:

- *DO NOT use on loamy sand except in the northeastern U.S. on loamy sand with over 1% organic matter or injury may occur.
- *DO NOT use on sand, gravelly soils, or exposed subsoils or injury may occur.
- DO NOT use on soil with less than 0.5% organic matter or crop injury may occur.

HELMET + Canopy + Helmquat 3SL (paraquat) or Helosate Plus Advanced (glyphosate)

Use only where soils have 0.5-5% organic matter.

Coarse soils (except sand) - apply 1.0 pt./A of HELMET.

Medium soils - apply 1.33 pts./A of HELMET.

Fine soils - apply 1.33-1.67 pts./A of HELMET.

Refer to the Canopy label for appropriate rate according to geographical location, soil and organic matter classification, pH limitations, and all other use directions.

Restrictions:

- . DO NOT apply to sand, or to any soil with less than 0.5% organic matter.
- DO NOT apply to any soil with pH greater than 7.0, except as noted on the Canopy label.

HELMET + Pursuit + Helmquat 3SL (paraquat) or Helosate Plus Advanced (glyphosate)

Coarse soils - apply 1.0 pt./A of HELMET + 0.25 pt./A of Pursuit.

Medium soils - apply 1.33 pts./A of HELMET + 0.25 pt./A of Pursuit.

Fine soils, apply 1.67 pts./A of HELMET + 0.25 pt./A of Pursuit.

APPENDICES

APPENDIX A:

Compatibility Test

Since liquid fertilizers can vary, even within the same analysis, always **check compatibility with herbicide(s) each time before use**. Be especially careful when using **complete** suspension or fluid fertilizers, as serious compatibility problems are more likely to occur. Commercial application equipment may improve compatibility in some instances. The following test assumes a spray volume of 25 gals./A. For other spray volumes, make appropriate changes in the ingredients. Check compatibility using this procedure:

- 1. Add 1 pt. of fertilizer to each of 2 one-gt. jars with tight lids.
- 2. To one of the jars, add 1/4 tsp. or 1.2 milliliters of a compatibility agent approved for this use, such as Compex or Unite (1/4 tsp. is equivalent to 2 pts./100 gals. spray). Shake or stir gently to mix.
- 3. To **both** jars, add the appropriate amount of herbicide(s). If more than one herbicide is used, add them separately with dry herbicides first, flowables next, and emulsifiable concentrates last. After each addition, shake, or stir gently to thoroughly mix. The appropriate amount of herbicides for this test follows:
- Dry herbicides: For each pound to be applied per acre, add 1.5 level teaspoons to each jar.
- Liquid herbicides: For each pint to be applied per acre, add 0.5 teaspoon or 2.5 milliliters to each jar.

Note: For HELMET tank mixtures with AAtrex plus Princep, use 1/3 - 1/2 the amount of AAtrex specified above and the remainder as Princep, depending on whether the 1:2 or 1:1 ratio of AAtrex to Princep is to be applied.

4. After adding all ingredients, put lids on and tighten, and invert each jar 10 times to mix. Let the mixtures stand 15 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 2 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 herbicide(s) in water before addition, or (B) add 1/2 of the compatibility agent to the fertilizer and the other 1/2 to the emulsifiable concentrate or flowable herbicide before addition to the mixture. If incompatibility is still observed, DO NOT use the mixture.

APPENDIX B:

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. Screens in suction and in-line strainers should be 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 psj at the nozzles, and (2) use sufficient agitation in tank to keep mixture in suspension. Use a minimum of 5 gals. of spray mixture per acre. Maximum sprayer speed is 15 mph. Rinse sprayer thoroughly with clean water immediately after each use.

Note: Use low-pressure nozzles to reduce drift and increase application accuracy. Care should be taken 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 directed by the manufacturer. Place all nozzles on 20-inch centers, except flooding types which should be placed 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.

APPENDIX C:

Aerial Application

Apply HELMET in water alone or in tank mixtures with AAtrex, Lorox, or Sencor in a minimum total volume of 2 gals./A by aircraft. HELMET 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 non-target plants, apply HELMET alone or HELMET plus AAtrex by aircraft at a minimum upwind distance of 400 ft. from sensitive plants, and prolonged contact with skin.

Aerial Drift Management:

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering these factors when making decisions.

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

- 1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- 2. Nozzles must always point backwards HELMET with the airstream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they must be observed. The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information section below.

Aerial Drift Reduction Advisory Management:

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 specified 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 recommended 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.

Boom Length

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

Applications must not be made at a height greater than 10 feet 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 Adjustmen

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, 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. Application should be avoided when wind speed is below 2 mph due to variable wind directions and high inversion potential.

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity

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

Temperature Inversions

Applications should not occur 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. The cloud can move in unpredictable directions 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 this pesticide only when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive area).

APPENDIX D:

Center Pivot Irrigation Application

HELMET 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. 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 non-uniform 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 should the need arise.

Operating Instructions

- 1. 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
- 2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3. 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.
- 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5. 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.
- 6. 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.
- 7. DO NOT apply when wind speed favors drift beyond the area intended for treatment.
- 8. Prepare a mixture with a minimum of 1 part of 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.
- 9. Meter into irrigation water during entire period of water application.
- 10. 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.

Precautions for center pivot applications: Where sprinkler distribution patterns D0 N0T overlap sufficiently, unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively, crop injury may result.

APPENDIX E:

Dry Bulk Granular Fertilizers

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

When applying HELMET or HELMET 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 HELMET and HELMET mixtures onto the fertilizer must be placed to provide uniform spray coverage. Care should be taken 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. Absorptive materials should be added 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 HELMET, AAtrex, AAtrex plus Princep, Princep, Sencor, or Sonalan by the following formula:

2000 lbs. of fertilizer per acre x pts./A of liquid or flowable product = pts. of liquid or flowable product per ton of fertilizer

2000 lbs. of fertilizer per acre x lbs./A of dry product = lbs. of dry product per ton of fertilizer

Pneumatic (Compressed Air) Application (HELMET Alone): High humidity, high urea concentrations, low fertilizer use rates, and dusty fertilizer may cause fertilizer to build up or plug the distributor head, air tubes, or nozzle deflector plates. To minimize buildup, premix HELMET with Exxon Aromatic 200 at a rate of 1 - 4 pts./gal. of HELMET. Aromatic 200 is a noncombustible/nonflammable petroleum product. Aromatic 200 may be used in either a fertilizer blender or through direct injection systems. Drying agents should not be used when using Aromatic 200.

Note: (1) Mixtures of HELMET 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 HELMET in a blender before application, a drier mixture can be attained by substituting a drying agent for Aromatic 200. The use of Agsorb FG or drying agents of 6/30 particle size are recommended. (3) Drying agents are not recommended for use with On-The-Go impregnation equipment.

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

Apply 200-700 lbs. 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. Non-uniform 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.

Restriction: To avoid crop injury, DO NOT use the herbicide/fertilizer mixture on crops where bedding occurs.

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°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:

Non-refillable Container (five gallons or less): Non-refillable container. DO NOT reuse or refill this container. Offer for recycling, if available. Clean container 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. Puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

Non-refillable Container (greater than five gallons): Non-refillable container. D0 NOT reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Tright prinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container or 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. Puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke

Refillable Container (greater than 55 gallons): Refillable container. Refill this container with metolachlor only. 00 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 refill flucturing is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill flucturing the remaining contents from this container into application equipment or mix tank. Fill flucturing the remaining contents from this container into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. For final disposal, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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.

Follow Directions for Use of this product 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 Helm Agro US, Inc. or Seller. To the extent of applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Helm and Seller harmless for any claims relating to such factors.

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HELM Agro US, Inc.

401 E. Jackson St., Suite 1400 Tampa, FL 33602 Phone: 813.621.8846

Fax: 813.621.0763 info@helmagro.com

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