



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

January 5, 2023

Jessica Vigna
Federal Regulatory Manager
Makhteshim Agan of North America, Inc. (d/b/a ADAMA)
3120 Highwoods Blvd., Suite 100
Raleigh, NC 27604

Subject: Registration Review Label Amendments Incorporating Mitigation Measures from the Interim Decision for Metolachlor and the National Marine Fisheries Services' (NMFS) Biological Opinion on the Effects of Metolachlor on Pacific Salmonids
Product Name: PARALLEL
EPA Registration Number: 66222-87
Application Date: 05/14/2021
Decision Numbers: 575836 and 578303

Dear Jessica Vigna:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Metolachlor Interim Decision. The Agency has concluded that your submission is acceptable.

This letter also addresses the label mitigation resulting from the NMFS' Biological Opinion on the effects of Metolachlor on Pacific salmonids. The Agency has concluded that your submission is also acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling

Page 2 of 2
EPA Reg. No. 66222-87
Decision No. 575836 and 578303

before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Srijana Shrestha at shrestha.srijana@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington", with a stylized flourish at the end.

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

ACCEPTED

Jan 05, 2023

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 66222-87

METOLACHLOR | **GROUP 15** | **HERBICIDE**

PARALLEL®

(Alternate Brand Name: Phenomenon®)

Herbicide

For weed control in corn, cotton, peanuts, pod crops, potatoes, safflower, sorghum (grain or forage) and soybeans

ACTIVE INGREDIENT:	% BY WT.
Metolachlor: 2-chloro- N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide	84.4%
OTHER INGREDIENTS:	15.6%
TOTAL	100.0%

PARALLEL contains 7.8 lbs of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

*Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted detalle.
(If you do not understand this label, find someone to explain it to you in detail.)*

Manufactured for:
Makhteshim Agan of North America, Inc. (d/b/a ADAMA)
3120 Highwoods Blvd, Suite 100
Raleigh, NC 27604

How can we help? 1-866-406-6262

EPA Reg. No. 66222-87

EPA Est. No. XXXXXXXXXX

NET CONTENTS:

FIRST AID	
IF INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so 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. You may also contact 1-877-250-9291 for emergency medical treatment information.	

In case of spills, fire, leaks or accidents call 1-800-5355053.

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

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed, inhaled, or absorbed through skin. Causes 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.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Mixers, loaders, applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, 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:

Metolachlor is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

SURFACE WATER ADVISORY:

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several weeks or months after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of metolachlor/S-metolachlor from runoff water and sediment. Runoff of

this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

NON-TARGET ORGANISM ADVISORY:

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

Reporting Ecological Incidents:

To report ecological incidents, including mortality, injury, or harm to plants and animals, call 1-866-406-6262.

DIRECTIONS FOR USE

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

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

ENDANGERED SPECIES PROTECTION REQUIREMENTS:

It is a Federal offense to use any pesticide in a manner that results in an unauthorized "take" (e.g., kill or otherwise harm) of an endangered species and certain threatened species, under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. 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
- Waterproof gloves
- Shoes plus socks

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

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 restrictions, 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 an adjuvant is to be used with this product, ADAMA suggests the use of a Chemical Producers and Distributors Association certified adjuvant.

PARALLEL[®] is a selective herbicide for use 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, peanuts, pod crops, potatoes, safflower, grain or forage sorghum, and soybeans. PARALLEL can also be used as a postemergence treatment in corn and soybeans.

Mixing/Loading Instructions:

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

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

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

WEED RESISTANCE MANAGEMENT

PARALLEL is a Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to metolachlor and other Group 15 herbicides. Weed species with acquired resistance to Group 15 may eventually dominate the weed population if Group 15 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by metolachlor or other Group 15 herbicides.

Weed Management

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of this product or other Group 15 herbicides within a growing season sequence of among growing seasons with different herbicide groups that control the same weeds in the field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that consider tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application

method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties), and other management practices.

- Scout before and after herbicide application to monitor weed populations for early signs or resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact ADAMA at 1-866-406-6262.

APPLICATION PROCEDURES

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	Sand, Loamy sand, Sandy loam
Medium	Loam, Silt loam, Silt
Fine	Sandy clay loam, Sandy clay, Silty clay loam, Silty clay, silty loam, 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: PARALLEL may be applied alone or in combination with tank mix partners specified on this label, following preplant incorporated herbicides when used according to their label recommendations, provided that such use is not prohibited on the respective labels.

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

MIXING INSTRUCTIONS

PARALLEL Alone: Mix PARALLEL 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 PARALLEL, then add the rest of the water or fluid fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

Tank Mixtures: Fill the spray tank 1/4 full with water, and start agitation; add 2,4-D, AAtrex®, Balan®, Banvel, Canopy®, Caparol® 4L, Command®, Cotoran®, Eptam®, Gemini®, Lexone®, Lorox®, Lorox Plus, Marksman®, Preview®, Princep®, Prowl®, Pursuit®, AAtrex + Princep, Scepter®, Sencor®, Sonalan®, or Treflan®, and allow it to become dispersed; then add PARALLEL; then add Gramoxone® Extra, Landmaster® BW, or Roundup® if these products are being used; and finally the rest of the water. For tank mixtures with AAtrex, Banvel, Canopy, Caparol 4L, Command, Cotoran*, Eptam, Gemini, Lexone, Lorox, Lorox Plus, Marksman, Preview, 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 all tank mixtures, agitate during mixing and application to maintain a uniform suspension.

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-qt. 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 PARALLEL tank mixtures with AAtrex + 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.

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

APPLICATION TIMING

- a. PARALLEL alone or in some tank mixtures with other labeled herbicides may be applied for weed control in certain crops at various times. Refer to the given crop section of the label to determine if application timings listed below are appropriate. **Preplant Surface-Applied:** For minimum-tillage or no-tillage systems only, PARALLEL alone and some PARALLEL tank mixtures may be applied up to 45 days before planting certain crops. Use only split applications for treatments made 30-45 days before planting, with 2/3 the labeled broadcast rate for the crop and soil texture applied initially and the remaining 1/3 at planting. Treatments less than 30 days before planting may be made either as a split or a single application. Refer to individual crop to determine if early preplant surface application is applicable. If weeds are present at the time of treatment, apply in a tank mixture combination with a contact herbicide (for example, Gramoxone Extra or Roundup). Observe directions for use, precautions, and restrictions on the label of the contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.
- b. **Preplant Incorporated:** Apply PARALLEL to the soil and incorporate into the top 2 inches of soil within 14 days before planting, using a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. If crop will be planted on beds, apply and incorporate PARALLEL after bed formation, unless specified otherwise.
- c. **Preemergence:** Apply PARALLEL during planting (behind the planter) or after planting, but before weeds or crops emerge.
- d. **Postemergence:** For corn, cotton and soybean application: One application of PARALLEL will provide preemergence control or partial control of the annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label. PARALLEL alone will not control emerged weeds, so it must be applied to a weed-free surface or in a tank mixture with products that provide postemergence weed control. If weeds are present at the time of application, tank-mix with a labeled postemergence herbicide

and observe all directions for use, precautions and restrictions on the label of the tank-mix partner. For additional postemergence information follow the crop specific label requirements identified on this label.

SPECIAL APPLICATION PROCEDURES

Fall Application (Only in IA, MN, ND, SD, WI, and portions of NE and IL– see specific instructions in the Corn, Soybeans, and Pod Crops sections of this label for timing of application and other information):

Use on medium and fine soils with greater than 2.5% organic matter that will be planted to corn or soybeans the next spring. Ground may be tilled before or after application.

Restriction:

- 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.
- Do not exceed a 2- to 3-inch incorporation depth if tilled after treatment.
- Do not apply to frozen ground.

Ground Application: Apply PARALLEL 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 PARALLEL tank mixtures with wettable powder or dry flowable formulations, use screens and strainers no finer than 50-mesh. Rinse sprayer thoroughly with clean water immediately after use.

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

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

AERIAL APPLICATION

Apply PARALLEL in water alone or in tank mixtures with AAtrex, Lexone, Lorox, or Sencor in a minimum total volume of 2 gals/A by aircraft. PARALLEL may also be applied by air in combination with Balan, Prowl, or Treflan. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 ft, using low-drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive nontarget plants, apply PARALLEL alone or PARALLEL + AAtrex by aircraft at a minimum upwind distance of 400 ft from sensitive plants, or apply PARALLEL + Lexone, Lorox, or Sencor at a minimum upwind distance of 300 ft from sensitive plants. Avoid application to humans or animals. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Applications:

- Do not release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to select the nozzle and pressure that deliver medium or coarser droplets (ASABE S641).
- If the wind speed is 10 miles per hour or less, applicators must use ½ swath displacement upwind at the downwind edge of the field. When the wind speed is between 11-15 miles per hour, applicators must use ¾ swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 15 mph at the application site. If the wind speed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet

above the ground or crop canopy.

- Applicators are required to select the nozzles and pressure that deliver medium or coarser droplets (ASABE S572).
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

Boomless Ground Applications:

- Applicators are required to select the nozzle and pressure that deliver medium or coarser droplet size (ASABE S572.3) for all applications.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size - Ground Boom

- **Volume** - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- **Pressure** - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- **Spray Nozzle** - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size - Aircraft

- **Adjust Nozzles** - Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or 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. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.**

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

Boomless Ground Applications:

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications

Take precautions to minimize spray drift.

Sensitive Areas

Apply this pesticide 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).

Application by Impregnated Dry Bulk Granular Fertilizers: Many dry bulk granular fertilizers may be impregnated or coated with PARALLEL alone or selected PARALLEL tank mixtures which are registered for preplant incorporated or preplant surface application which are used to control weeds in crops on the PARALLEL label and are not prohibited from use on dry bulk granular fertilizers.

When applying PARALLEL or PARALLEL 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 PARALLEL and PARALLEL 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 PARALLEL, AAtrex, AAtrex + Princep, Princep, Sencor, Lexone, or Sonalan by the following formula:

$$\begin{array}{rcccl} 2,000 \text{ lbs of fertilizer per} & \times & \text{pts/A of liquid or flowable product} & = & \text{pts of liquid or flowable product} \\ \text{acre} & & & & \text{per ton of fertilizer} \end{array}$$

$$\begin{array}{rcccl} 2,000 \text{ lbs of fertilizer per} & \times & \text{lbs/A of dry product} & = & \text{lbs of dry product per ton of fertilizer} \\ \text{acre} & & & & \end{array}$$

Pneumatic (Compressed Air) Application (PARALLEL Alone): High humidity, high urea concentrations, low fertilizer use rates, and dusty fertilizer may cause fertilizer mixture to build up or plug the distributor head, air tubes, or nozzle deflector plates. To minimize buildup, premix PARALLEL with Exxon Aromatic 200 at a rate of 1-4 pts/gal of PARALLEL. 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.

Precautions: Mixtures of PARALLEL 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.

Restrictions:

- To avoid potential for explosion, do not impregnate PARALLEL or PARALLEL mixtures on ammonium nitrate, potassium nitrate, or sodium nitrate, either alone or in blends with other fertilizers.
- Do not use PARALLEL or PARALLEL mixtures on straight limestone, since absorption will not be achieved. Fertilizer blends containing limestone can be impregnated.

Note: (1) When impregnating PARALLEL 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. (2) Drying agents are not recommended for use with On-The-Go impregnation equipment.

Application

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.

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

CHEMIGATION - CENTER PIVOT IRRIGATION

PARALLEL 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, you should 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 ½-1 inch of water. Use the lower water volume (½ inch) on coarse-textured soils and the higher volume (1 inch) on fine-textured soils. More than 1 inch of water at application may reduce weed control by moving the herbicide below the effective zone in the soil.

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

Note: For information on applying in lower volumes of carrier, see Low Carrier Application in Appendix A.

CLEANING

Wash sprayer and spray equipment thoroughly with clean water immediately after use. Drain any remaining spray solution of PARALLEL from the spray tank and dispose of according to label disposal instructions. Rinse the spray tank and refill with water, adding a heavy-duty detergent at the rate of one cup per 20 gallons of water. Recycle this mixture through the equipment for 5 minutes, and spray out. Clean pump and nozzle screens thoroughly. Wash away any spray mixture from the outside of spray tank, nozzles or spray rig. All rinse water must be disposed of in compliance with local, state, and Federal guidelines.

Precaution: Do not use the same sprayer without thoroughly cleaning on sensitive crops, as even small residues of PARALLEL in the tank may cause injury to these crops.

USE PRECAUTIONS

Where directions specify a PARALLEL tank mixture with AAtrex formulations, other brands of atrazine may be used. Follow the rates, directions, restrictions, precautions 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.

If PARALLEL is incorporated, any supplemental tillage before planting must not exceed the depth of incorporation.

Dry weather following preemergence application of PARALLEL 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 good to poor, or consistent control at a level below that generally considered acceptable for commercial weed control.

Injury may occur to crops other than corn following the use of PARALLEL under abnormally high soil moisture conditions during early development of the crop.

USE RESTRICTIONS

- Do not use in nurseries, turf, or landscape plantings.
- Do not apply under conditions which favor runoff or wind erosion of soil containing this product to non-target areas.
- 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.
- Do not apply to impervious substrates such as paved or highly compacted surfaces.
- Do not use tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.

PARALLEL APPLIED ALONE

Weeds Controlled:

Barnyardgrass (watergrass)	Foxtail millet	Signalgrass (<i>Brachiaria</i>)
Bristly foxtail	Galinsoga	Southwestern cupgrass
Carpetweed	Giant foxtail	Tall waterhemp
Common waterhemp	Goosegrass	Wild proso millet*
Crabgrass	Green foxtail	Witchgrass
Crowfootgrass	Pigweed	Woolly cupgrass*
Eastern black nightshade	Prairie cupgrass	Yellow foxtail
Fall panicum	Red rice	Yellow nutsedge
Florida pusley	Robust foxtails (purple, white)	

*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.

**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 and apply through a center pivot irrigation system.

Control may be improved by following these suggested procedures:

1. In corn, use 2-2.67 pts/A or the preplant surface-applied rates for PARALLEL alone or in tank mixture, if allowed, when making preplant incorporated or preemergence applications.
2. Thoroughly till moist soil to destroy germinating and emerged weeds. If PARALLEL is to be applied preplant incorporated, this tillage may be used to incorporate PARALLEL if uniform 2-inch incorporation is achieved as outlined in **Application Procedures**.
3. Plant crop into moist soil immediately after tillage. If PARALLEL is to be used preemergence, apply at planting or immediately after planting.
4. If available, sprinkler irrigate within 2 days after application. Apply ½-1 inch of water. Use lower water volume (½ 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 PARALLEL.
5. 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, perform a shallow cultivation as soon as weeds emerge.

ROTATIONAL CROPS

PARALLEL Alone: (1) If crop treated with PARALLEL alone is lost, any crop on this label may be replanted immediately. Do not make a second broadcast application of PARALLEL. If the original application was banded and the second crop is planted in the untreated row middles, a second banded treatment may be applied. (2) Barley, oats, rye, or wheat may be planted 4 1/2 months following treatment; alfalfa may be planted 4 months following application; tomatoes may be planted 6 months following application. (3) Any crop on this label, in addition to root crops, tobacco, barley, buckwheat, milo, oats, rice, rye, wheat, cabbage, peppers, stone fruits, or tree nuts, may be planted in the spring following treatment. Clover may be seeded 9 months following application. Do not graze or feed forage or fodder from cotton to livestock. (4) Following a lay-by treatment or multiple treatments applied the previous season, any crop on this label, in addition to tobacco, cabbage, peppers, stone fruits, or tree nuts may be planted in the spring. All other rotational crops may be planted 12 months after a lay-by application.

PARALLEL Tank Mixtures: For Rotational Crops restrictions for PARALLEL used in tank mixtures, refer to the statements/restrictions above for PARALLEL and to the respective product labels of any mixing partner(s) for

additional statements/restrictions.

Precautions: (1) To avoid injury to rotational alfalfa or clover, (1) Do not apply more than 2 lbs a.i. of metolachlor per acre (2 pts of PARALLEL) preemergence (including preplant surface, preplant incorporated, postplant incorporated, etc.). (2) Do not make lay-by or other postemergent applications of PARALLEL to avoid crop injury.

CROPS CORN (All Types)

PARALLEL ALONE

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

PREPLANT SURFACE-APPLIED:

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

Fall Application (Apply after September 30 in MN, ND, SD, WI, and north of Route 30 in IA; Apply after October 15 north of Route 91 in NE and south of Route 30 in IA; Apply after October 31 north of Route 136 in IL): In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55° F and falling. In minimum-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. Do not apply to frozen ground. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not exceed an incorporation depth greater than 2-3 inches. Minimize furrow and ridge formation in the tillage operations.

Restriction: If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for corn, or illegal residues may result.

Early Preplant Applications:

Use on medium- and fine-textured soils with minimum-tillage or no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY. Apply 2/3 the labeled rate of PARALLEL (1.67 pts/A on medium soils and 2.0 pts/A on fine soils) as a split treatment 30-45 days before planting and the remainder at planting. Applications made less than 30 days prior to planting may be as either a split or single treatment. Apply 1.33 pts/A on coarse soils not more than 2 weeks prior to planting.

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

PREPLANT INCORPORATED OR PREEMERGENCE:

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

LAYBY

To extend the duration of weed control in corn, a maximum rate of 2.0 pts/A of PARALLEL 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 PARALLEL. For best results, make applications to soil free of emerged weeds and directed towards the base of corn plants in excess of 5 inches tall. The total PARALLEL rate applied on corn during any one year must not exceed 4 pts/A (4 lb ai/a of metolachlor), depending on soil texture.

Restriction for 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:

Shattercane, Wild Proso Millet, Woolly Cupgrass, and Eclipta-Partial Control: For more consistent partial control of shattercane, wild proso millet, woolly cupgrass, or eclipta, apply 2.0 - 2.5 pts/A as a single application or apply 1.0-1.33 pts/A of PARALLEL preplant incorporated followed by 1.0 - 1.33 pts/A of PARALLEL preemergence; however, 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 PARALLEL when a heavy infestation of shattercane, wild proso millet, woolly cupgrass, or eclipta is expected. A shallow cultivation may be needed to control any late emerging weeds.

Woolly Cupgrass and Wild Proso Millet Control Program: For control of these species, use the following 3-step program: (1) Apply PARALLEL 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) Apply a postemergence tank mix of Beacon at 0.38 oz/A or Exceed at 1 packet per 4 acres plus Accent SP at 0.33 oz/A plus 1 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.

Precautions: In the event of escape of annual weeds following a preplant surface, preplant incorporated, or preemergence treatment of PARALLEL, 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.

Restrictions:

- 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.
- Do not use PARALLEL on peat or muck soils.
- Do not exceed 1.2 lbs a.i./A of AAtrex in tank-mix combination with Brominal or Buctril postemergence.

Notes: (1) In corn, PARALLEL 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. (2) Brominal or Buctril may be applied postemergence alone or in tank-mix combination with AAtrex. Refer to the AAtrex, Brominal, and Buctril labels for specific rates and precautions.

PARALLEL COMBINATIONS FOR CORN

PARALLEL in any tank mixture for corn (except PARALLEL + AAtrex postemergence and PARALLEL + Banvel postemergence) may be applied in water or fluid fertilizer. Use only water in the PARALLEL + AAtrex or the PARALLEL + Banvel postemergence tank mixes.

Restriction: 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.

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

PARALLEL Tank Mixtures for Corn – Additional Weeds Controlled and Special Instructions

	PARALLEL + AAtrex and/or Princep (Preplant Surface, PPI, PRE)	PARALLEL + AAtrex (Post)	PARALLEL + Banvel (Field Corn)	PARALLEL + AAtrex + Lorox	PARALLEL + AAtrex or Princep + Prowl	PARALLEL + Marksman	PARALLEL + Broadstrike® + PARALLEL PCS
Special Mixing Instructions (below)					2		

Comments (below)	3,4,5,6,7,8	3,4,5,6		3,4,5,6,8	3,4,5,6	7	7
Browntop panicum	•			•	•		
Cocklebur	•	o	o	•	•	•	o•
Common purslane	•			•	•	•	•
Hairy nightshade	•			•	•	•	•
Jimsonweed		o	o			•	o•
Kochia		•				•	•
Lambsquarters	•	•	•	•	•	•	•
Morningglory	•	o	o	•	•	•	o•
Mustard		•				•	•
Pigweed				•	•	•	•
Prickly sida		•				•	•
Ragweed	•	•	•	•	•	•	o•
Smartweed	•	•	•	•	•	•	•
Velvetleaf	•	•	o	•	•	•	•

• = control; o = partial control; o• = partial to full control depending on ratio of products used or on weed population

Comments/Instructions:

1. Special Mixing Instructions for PARALLEL + 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 PARALLEL 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 pts of AAtrex 4L or Princep 4L.
3. Although directions specify AAtrex formulations in tank mixture with PARALLEL, 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:** Do 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 Gramoxone Extra 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 Roundup for control of most emerged annual and perennial weeds.
8. **Refer to PARALLEL 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.

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

Restrictions:

- 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.
- When applying PARALLEL in tank mixture with AAtrex, do not exceed a total of 2.5 lbs a.i. of atrazine per acre per year.

Notes: (1) Refer to the section entitled **Corn (All Types) - PARALLEL Alone, Problem Weed Control Directions, Note (3)** for sequential postemergence treatments if escape weeds develop. (2) In corn, PARALLEL 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.

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

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

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

Preplant Surface-Applied: Follow instructions for use of PARALLEL alone under **Application Procedures** and under application instructions for PARALLEL alone for corn. Apply PARALLEL + AAtrex or Princep, or PARALLEL + AAtrex + Princep on medium soils (1.67 pts/A of PARALLEL + 3.2-4 pts/A of AAtrex 4L or Princep 4L, or AAtrex 4L + Princep 4L combined) and on fine soils (1.67-2.0 pts/A of PARALLEL + 4-5 pts/A of AAtrex 4L or Princep 4L, or AAtrex 4L + Princep 4L combined) in minimum-tillage and no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY. Apply the tank mixtures as a split or single treatment in those states and as indicated in the PARALLEL Alone-Preplant Surface-Applied section of the label for corn. On coarse soils, apply 1.33 pts/A of PARALLEL 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 PARALLEL alone under **Application Procedures**. Apply according to the appropriate rates listed in **PARALLEL + AAtrex or Princep, or PARALLEL + AAtrex + Princep**, using the appropriate rates from the table.

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.

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

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

1. Apply 1.0-1.33 pts/A of PARALLEL + 2 lbs a.i./A of AAtrex or Princep preplant incorporated, followed by 1.0-1.33 pts/A of PARALLEL preemergence. Make the preemergence application during or after planting, but before weeds and corn emerge.
2. Apply PARALLEL 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.
3. Apply Eradicane or Sutan (or equivalent EPTC or butylate formulations) at labeled rates preplant incorporated, followed by a preemergence application of PARALLEL at 1.0-1.33 pts/A. Make the preemergence application during or after planting, but before weeds and corn emerge.

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

Restriction: Do not use Eradicane or Sutan on soils where rapid degradation has been shown to occur.

PARALLEL + AAtrex or Princep, or PARALLEL + AAtrex + Princep, Preplant Incorporated or Preemergence-Corn (All Types)

SOIL TEXTURE	BROADCAST RATES PER ACRE					
	LESS THAN 3% ORGANIC MATTER			3% ORGANIC MATTER OR GREATER		
	PARALLEL + AAtrex Nine-O* or Princep Caliber 90*	OR	PARALLEL + AAtrex Nine-O** + Princep Caliber 90**	PARALLEL + AAtrex Nine-O* or Princep Caliber 90*	OR	PARALLEL + AAtrex Nine-O** + 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		1.0-1.33 pts + 0.7-1.1 lbs + 0.7-1.1 lbs	1.33 pts + 1.8-2.2 lbs		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 (soils with more than 20% organic matter)	DO NOT USE					
<p>* Use Princep in preference to AAtrex when heavy infestations of crabgrass or fall panicum are expected. On soils having between 6% and 20% organic matter, PARALLEL 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.</p> <p>** When using the tank mixture of PARALLEL + AAtrex Nine-O + Princep Caliber 90, use equal rates of each as shown when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of AAtrex + Princep instead of the 1:1 ratio given in this table. (Example: Total AAtrex Nine-O + 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 PARALLEL Tank Mixtures for Corn – Additional Weeds Controlled and Special Instructions chart for AAtrex 4L and Princep 4L conversions.</p> <p>***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 rates of AAtrex 4L, or the same total amount of AAtrex + Princep with 1.33-1.67 pts/A of PARALLEL.</p>						

Tank Mixture with AAtrex – Postemergence

Weeds controlled:

Barnyardgrass (watergrass)	Yellow foxtail	Prickly sida
Crabgrass	Jimsonweed	Purslane
Crowfootgrass	Kochia	Ragweed
Fall panicum	Lambsquarters	Smartweed
Giant foxtail	Mustard	Velvetleaf
Green foxtail	Pigweed	

Weeds partially controlled:

Cocklebur	Morningglory	Yellow nutsedge
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Apply 1.0 pt/A of PARALLEL + 1.3 lbs/A of AAtrex Nine-O* on coarse soils, 1.33 pts/A of PARALLEL + 1.8 lbs/A of AAtrex Nine-O on medium soils, or 1.33-1.67 pts/A of PARALLEL + 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. Applications to corn in excess of 5 inches should be directed to the base of the corn plants; whereas, applications to corn plants less than 5 inches tall may be made over the top. Occasionally, some corn leaf burn may result, but this should not affect later growth or yield.

Precaution: Do not apply this postemergence tank mixture in fluid fertilizer, or severe crop injury may occur.

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

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

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

Restriction: The total PARALLEL rate must not exceed 4 pts, nor the AAtrex rate more than 2.5 lbs a.i./A 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 PARALLEL alone, PARALLEL + Banvel, applied preemergence also controls lambsquarters, ragweed, smartweed, cocklebur*, jimsonweed*, morningglory*, and velvetleaf*.

*Partially controlled.

Apply PARALLEL + Banvel preemergence. Broadcast 1 pt/A of Banvel with 1.33 pts/A of PARALLEL on medium soils, or with 1.33 -1.67 pts/A of PARALLEL on fine soils. Do not apply on coarse soils or on soils with less than 2.5% organic matter. Apply this tank mixture to the soil surface at planting or after planting, but before corn emerges. Plant corn at least 1.5 inches deep and apply behind planting equipment, avoiding incorporation by the planter wheel or other seed covering device.

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

Restriction:

- Do not apply with aircraft.
- Do not incorporate before corn emergence.
- If it is necessary to rotary hoe to break the soil crust, do not disturb the soil more than 1/2-inch deep.

Postemergence for Control of Pigweed (Mid-Atlantic states, including DE, MD, PA, VA, and WV): Apply 1.0-1.5 pts of PARALLEL + 0.5 -1 pt/A of Banvel by ground equipment when pigweed plants are less than 3 inches tall and before corn exceeds 5 inches in height in a minimum of 20 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, PARALLEL may be applied preemergence in tank mix combination with AAtrex + Lorox. Apply PARALLEL and AAtrex according to the rates in the **PARALLEL + AAtrex or Princep, or PARALLEL + AAtrex + Princep, Preplant Incorporated or Preemergence-Corn (All Types)** 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, restrictions, precautions, and limitations on the PARALLEL, 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 MI, IN, KY, and States East of These)

For prolonged control of lambsquarters and pigweed, in addition to a broad spectrum of annual broadleaf and grass weeds, PARALLEL in tank mix combination with AAtrex* or Princep + Prowl 4E may be applied after planting, but before corn or weeds emerge. Apply by ground equipment in a minimum of 10 gals of water or 20 gals of liquid fertilizer. Apply by air in a minimum of 5 gals of water. Refer to the **PARALLEL + AAtrex or Princep, or PARALLEL + AAtrex + Princep, Preplant Incorporated or Preemergence-Corn (All Types)** table of this label for rates of PARALLEL, AAtrex, or Princep to be applied. Apply Prowl 4E according to the rates listed in the **Prowl 4E-Broadcast Rates Per Acre** table.

***Restriction:** Do not apply PARALLEL 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 **PARALLEL Tank Mixtures for Corn – Additional Weeds Controlled and Special Instructions** chart.

Prowl 4E-Broadcast Rates Per Acre

SOIL TEXTURE	PERCENT ORGANIC MATTER IN SOIL		
	LESS THAN 1.5%	1.5-3%	OVER 3%
Coarse	1.5-2.0 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

Observe all directions for use, restrictions, 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 Gramoxone Extra, Landmaster BW, or Roundup for Minimum-Tillage or No-Tillage Systems

See Comment No. 1 following **PARALLEL Tank Mixtures for Corn – Additional Weeds Controlled and Special Instructions** Chart for special mixing instructions.

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 Gramoxone Extra, Landmaster BW, or Roundup may be added to a tank mix of PARALLEL + AAtrex or Princep, or PARALLEL + AAtrex + Princep. See Comment No. 7 following **PARALLEL Tank Mixtures for Corn – Additional Weeds Controlled and Special Instructions** chart. The PARALLEL + AAtrex or Princep, or PARALLEL + AAtrex + Princep portion of the tank mixture provides preemergence control of the weeds listed on this label in the tank mixture section for PARALLEL + AAtrex or Princep, or PARALLEL + AAtrex + Princep – Preplant Surface, Preplant Incorporated, or Preemergence.

Application: Apply before, during, or after planting, but before the corn emerges, at the rates specified below. Add Gramoxone Extra, Landmaster BW, or Roundup at the following broadcast rates:

Gramoxone Extra: 1.5-2.0, 2.0-2.5, or 2.5-3.0 pts/A to 1-3 inches, 3-6 inches, or 6-inch tall weeds, respectively. Apply surfactant at 1 or 2 pts/100 gals of spray mixture with 75% or greater or 50-74% nonionic active ingredient, respectively. This treatment will not control weeds taller than 6 inches.

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

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

Roundup: See the Roundup or Roundup RT label for weeds controlled, 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 PARALLEL with 1.3 lbs of AAtrex Nine-O* or Princep Caliber 90*, or with 0.7 lb. of AAtrex Nine-O** + 0.7 lb. of Princep Caliber 90**. On medium soils, apply 1.33 pts/A of PARALLEL with 1.8 lbs of AAtrex Nine-O or Princep Caliber 90, or with 0.9 lb. of AAtrex Nine-O + 0.9 lb. of Princep Caliber 90. On fine soils***, apply 1.33-1.67 pts/A of PARALLEL with 1.8-2.2 lbs of AAtrex Nine-O or Princep Caliber 90, or with 0.9-1.1 lbs of AAtrex Nine-O + 0.9-1.1 lbs of Princep Caliber 90.

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

** When using the tank mixture of PARALLEL + AAtrex Nine-O + Princep Caliber 90, use equal rates of AAtrex and Princep as shown when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of AAtrex + Princep instead of the 1:1 ratio given. (Example: Total AAtrex Nine-O + Princep Caliber 90 = 1.8 lbs/A, use 0.6 lb. of AAtrex + 1.2 lbs of Princep, respectively.) Refer to Comment No. 2 following **PARALLEL Tank Mixtures for Corn – Additional Weeds Controlled and Special Instructions** chart 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 PARALLEL.

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, PARALLEL applied in combination with AAtrex will kill most emerged small annual weeds. Apply PARALLEL + AAtrex before, during, or after planting, but before corn emerges, according to the rates in the **PARALLEL + AAtrex or Princep, or PARALLEL + AAtrex + Princep, Preplant Incorporated or Preemergence-Corn (All Types)** table.

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, DMA-4 Herbicide, or Formula 40) 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 labeled rate, or add crop oil concentrate plus 28% liquid nitrogen (or equivalent). Apply before weeds exceed 3 inches in height. If alfalfa is present, add Banvel to the spray mixture at 0.33-0.5 pt/A and apply before alfalfa exceeds 6 inches in height.

For fields with existing sod grasses (e.g., bromegrass, orchardgrass, rye, or timothy), when existing weeds exceed 3 inches in height or when very dry conditions exist, add Gramoxone Extra at the rate of 2.5 pts/A in place of or in addition to 2,4-D, as indicated above. Observe all directions for use, precautions, restrictions and limitations on the respective product labels when applying these products in tank mix combination.

Restriction: Do not apply Gramoxone Extra in suspension-type liquid fertilizer.

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, PARALLEL + Marksman will kill most emerged small annual weeds. Apply PARALLEL + Marksman before,

during, or after planting, but before corn emergence on medium and fine soils with greater than 2.5% organic matter. For fields with existing vegetation exceeding 3 inches in height or when very dry conditions exist, add Gramoxone Extra at its standard rate. PARALLEL + 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. Refer to the Marksman label and follow all directions, limitations, restrictions, precautions, and information regarding application and use in corn.

Restriction: Do not apply Gramoxone Extra in suspension-type liquid fertilizer or use on emerged corn.

Tank Mixture with Broadstrike + PARALLEL 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 + PARALLEL PCS may be spiked with PARALLEL for optimum performance. Refer to the Broadstrike + PARALLEL PCS label for its use rate and the amount of metolachlor active ingredient it contains. PARALLEL may be added up to, but not to exceed, the maximum alone PARALLEL label rate for the soil classification. Refer to the respective labels and follow all directions, limitations, and restrictions for each product.

COTTON

PARALLEL ALONE

Application:

Apply PARALLEL preemergence only in Area 1* 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 PARALLEL preplant incorporated or preemergence in Area 2** 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.

Restriction: Do not use on sands and loamy sand.

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

**Area 2 = NM, OK, and TX

Preplant Incorporated (NM, OK, and TX Only):

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

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

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

Precautions: (1) To avoid concentration in the seed furrow, do not make broadcast applications of PARALLEL 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 should not exceed the width of the bottom of the furrow. (2) To avoid crop injury, do not apply PARALLEL on sand or loamy sand soils, or in areas where water is likely to "pond" over the bed.

Restrictions:

- Do not apply on Taloka silt loam.
- Do not use in Gaines County, TX.
- To avoid possible illegal residues, do not graze or feed forage or fodder from cotton to livestock.

PARALLEL COMBINATIONS

Tank Mixture with Caparol 4L

PARALLEL tank mixtures with Caparol 4L may be applied in water or fluid fertilizer. When fluid fertilizer is used as a carrier for PARALLEL, either alone or in combination with Caparol 4L, mix only the amount that will be sprayed

in one operation.

Restriction: Do not allow the mixtures to stand without agitation.

In addition to those weeds controlled by PARALLEL alone, PARALLEL + Caparol 4L, applied preplant incorporated or pre-emergence, also controls the following weeds: junglerice, wild oats, annual morningglory, groundcherry, hairy nightshade, lambsquarters, malva, mustard, prickly sida (teaweed), purslane, ragweed, and shallow-germinating seedlings of cocklebur and coffeeweed.

Preplant Incorporated or Preemergence: Apply PARALLEL + Caparol 4L, either preplant incorporated, or preemergence, using the appropriate rate from the **PARALLEL + Caparol 4L-Cotton (NM, OK, TX)** table. Cotton should be planted 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.

PARALLEL + Caparol 4L-Cotton (NM, OK, TX)

USE AREAS	SOIL TEXTURE	BROADCAST RATES PER ACRE	
		PARALLEL	CAPAROL 4L
ALL	Sand, loamy sand	DO NOT USE	
OK, and Blacklands and Gulf Coast of TX	Loams	0.85-1.33 pts	2.4 pts
	Clays	1.33 pts	4.8 pts
Rio Grande Valley of TX	Loams	0.85-1.33 pts	3.2 pts
	Clays	1.33 pts	4.8 pts
NM; High Plains, Rolling Plains, Edwards Plateau of TX; and Southwest TX	Sandy loam	0.85-1.0 pt	1.6 pts
	Loams	0.85-1.33 pts	2.4 pts
	Sandy clay loams	1.33 pts	2.4 pts
	Other clay soils	1.33 pts	3.2 pts

Precautions: (1) To avoid concentration in the seed furrow, do not make broadcast applications of PARALLEL + Caparol 4L 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 should not exceed the width of the bottom of the furrow. (2) To avoid crop injury, do not apply on sand or loamy sand soils, or in areas where water is likely to “pond” over the bed.

Restrictions:

- 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.
- To avoid possible illegal residues, do not graze or feed forage or fodder from cotton to livestock.

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

Tank Mixture with Cotoran DF

PARALLEL may be applied in tank mixture with Cotoran DF preemergence for control of those weeds controlled by PARALLEL alone and those as listed on the Cotoran DF label. This combination will also control spotted spurge, hyssop spurge, nodding spurge, and prostrate spurge. Apply to the soil surface at planting or after planting, but before weeds or crops emerge, using the appropriate rates from the **PARALLEL + Cotoran DF – Cotton** table.

Mixing Instructions: Incompatibility may occur when tank mixing PARALLEL and Cotoran DF. To help overcome this condition, fill the spray tank ¼ full with water or fluid fertilizer and start agitation, add the Cotoran DF and allow it to become dispersed. Add X-77 at 0.5% volume/volume final spray (4 pts/100 gals), then add the PARALLEL and finally the rest of the water or fluid fertilizer. Agitate during mixing and application to maintain a uniform suspension.

PARALLEL + Cotoran DF – Cotton

SOIL TEXTURE	BROADCAST RATES PER ACRE		
	PARALLEL (PTS)		COTORAN DF*** (LBS)
	Area 1*	Area 2**	
Sand, loamy sand	DO NOT USE		
Sandy loam	0.50-1.0	0.85-1.0	1.2
Loam, silt, silt loam	0.67-1.33	1.0-1.33	1.2-1.9
Fine soil	1.0-1.33	1.33	1.9-2.4

* Area 1 = AR, LA, MS, Bootheel of MO, and TN.
 ** Area 2 = Eastern OK, Gulf Coast, Rio Grande Valley, and Eastern TX.
 ***When using Cotoran 4L, use equivalent rates. Multiply lbs of Cotoran DF by 1.7 to get pts of Cotoran 4L.

Precautions: (1) To avoid concentration in the seed furrow, do not make broadcast applications of PARALLEL + Cotoran to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width should not exceed the width of the bottom of the furrow. (2) The use of Cotoran following the use of a systemic insecticide at planting may result in crop injury. (3) To avoid crop injury, do not apply PARALLEL + Cotoran on sand or loamy sand soils, or in areas where water is to “pond” over the bed.

Restrictions:

- Do not use in Gaines County, TX.
- To avoid possible illegal residues, do not feed treated forage or gin trash to livestock, or graze treated areas.
- Do not use on Taloka silt loam

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

Tank Mixture of PARALLEL or PARALLEL + Cotoran with Gramoxone Extra or Roundup for Minimum-Tillage or No-Tillage Systems

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

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

Application: Apply before, during, or after planting, but before the cotton emerges, at the rates specified below. Apply PARALLEL at 0.85-1.0 pt/A on sandy loams, medium-, and fine-textured soils. Refer to the **PARALLEL + Cotoran DF – Cotton** table for the Cotoran DF rates.

Add Gramoxone Extra or Roundup at the following broadcast rates:

Gramoxone Extra: 1.5-2.0, 2.0-2.5, or 2.5-3.0 pts/A to 1-3 inches, 3-6 inches, or 6-inch tall weeds, respectively. Apply surfactant at 1 or 2 pts/100 gals of spray mixture with 75% or greater or 50-74% nonionic active ingredient, respectively. This treatment will not control weeds taller than 6 inches.

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

Roundup: See the Roundup label for weeds controlled, rates, and other use directions.

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

Precautions: 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.

Restriction: Do not use in Gaines County, TX.

Note: Refer to the Cotoran labels and the **Tank Mixture with Cotoran DF** section of this label for further instructions, precautions, and limitations.

PEANUTS

PARALLEL ALONE

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

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

Postplant Incorporated: Apply and shallowly incorporate PARALLEL into the soil after planting, but before peanut germination. Incorporation depth and incorporating implements must be kept above the seed, or seed will be damaged.

Apply PARALLEL alone, preplant incorporated, postplant incorporated or preemergence at a broadcast rate of 1.0-1.33 pts/A in the Southeast* and 0.85-1.33 pts/A in NM, OK, and TX.

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

Restrictions:

- Do not graze or feed peanut forage or fodder to livestock for 30 days following application.
- Do not apply within 90 days of harvest or illegal residues may result.

Notes: (1) PARALLEL 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.

PARALLEL COMBINATIONS

Tank Mixture with Balan L.C.

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

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

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

Tank Mixture or Sequentially with Pursuit

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

Refer to the respective labels for application methods, timing, rates, restrictions, and precautions, and use in accordance with the more restrictive label.

Tank Mixture with Sonalan

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

Apply PARALLEL + Sonalan preplant incorporated, using the appropriate rate from the **PARALLEL + Sonalan-Peanuts** table.

Follow labeled soil preparation procedures for Sonalan. Refer to the Peanut Sonalan/PARALLEL PCS Tank

Mixture label for incorporation specifications.

PARALLEL + Sonalan-Peanuts

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	SOUTHEAST		NM, OK, TX	
	PARALLEL	Sonalan	PARALLEL	Sonalan
Coarse	1.0-1.33 pts	1.25-2 pts	0.85-1.33 pts	1.25-2 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 pts	0.85-1.33 pts	2.25-3 pts

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

Tank Mixture with Prowl

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

Apply PARALLEL + Prowl preplant incorporated, using the appropriate rates from the **PARALLEL + Prowl-Peanuts** table.

PARALLEL + Prowl-Peanuts

SOIL TEXTURE	BROADCAST RATES PER ACRE	
	NM, OK, TX	OTHER PEANUT GROWING STATES
	PARALLEL + Prowl	PARALLEL + Prowl
Sand, loamy sand	0.85 pt + 1-1.5 pts	1.0-1.33 pts + 1.5-2 pts
Sandy loam	0.85-1.0 pt + 1-1.5 pts	1.0-1.33 pts + 1.5-2 pts
Fine soil	1.33 pts + 1-1.5 pts	1.33 pts + 1.5-2 pts

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

Sequentially with Storm

Apply PARALLEL according to the directions for **PARALLEL Alone** and follow with a postemergence treatment of Storm as specified on its label for the control of weeds listed on the PARALLEL label and on the Storm label. Refer to the **Peanuts - PARALLEL Alone** section and to the Storm label and follow all directions, limitations, and restrictions for each product.

Multiple Applications

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

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

1st Application: Apply PARALLEL preplant incorporated as directed under Peanuts-PARALLEL Alone or apply PARALLEL + Balan preplant incorporated as directed previously in this section. Refer to the respective section for weeds controlled.

2nd Application: Apply PARALLEL any time from preemergence to before 'ground cracking' at 1.0-2.0 pts/A for

extended control of weeds not yet emerged. If peanuts have emerged, use PARALLEL PCS according to its label section entitled **Peanuts – PARALLEL PCS Combinations – Multiple Applications**.

3rd Application: Apply PARALLEL PCS at lay-by as directed under **Peanuts – PARALLEL PCS Alone** section of the PARALLEL PCS label.

Restrictions:

- Do not apply more than the equivalent of 4 lbs of metolachlor active ingredient per acre during any one year or illegal residues may result; this includes PARALLEL PCS and PARALLEL.
- Do not use PARALLEL after peanuts have emerged.
- Do not graze or feed peanut forage or fodder to livestock for 30 days following application.
- Do not apply within 90 days of harvest or illegal residues may result.
- Do not use PARALLEL in the third application.

Southwest Only (NM, OK, TX)

1st Application: Apply PARALLEL preplant incorporated or preemergence to before ‘ground cracking’ as directed under Peanuts - PARALLEL Alone or apply PARALLEL + Balan preplant incorporated as directed previously in this section. If peanuts have emerged, use PARALLEL PCS according to its label.

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

Restrictions:

- Do not apply more than the equivalent of 2.6 lbs of metolochlor active ingredient per acre during any one year or illegal residues may result; this includes PARALLEL PCS and PARALLEL.
- Do not use PARALLEL after peanuts have emerged.
- Do not graze or feed peanut forage or fodder to livestock for 30 days following application.
- Do not apply within 90 days of harvest or illegal residues may result.
- Do not use PARALLEL in the second application.

POD CROPS

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

PARALLEL ALONE

Fall Application

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

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.65-2.0 pts/A on medium-textured and 2.0 pts/A on fine-textured soils. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not exceed an incorporation depth greater than 2-3 inches.

Restrictions:

- If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for pod crops or illegal residues may result.

- Do not apply to frozen ground.

Spring Application

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

Preplant Incorporated or Preemergence: Follow instructions for use of PARALLEL alone under **Application Procedures**. On coarse soils with less than 3% organic matter, apply 1.0 -1.33 pts/A of PARALLEL or 1.33 pts/A if organic matter is 3% or greater. On medium soils, apply 1.33-1.67 pts/A of PARALLEL. On fine soils, apply 1.33-1.67 pts/A of PARALLEL if organic matter content is less than 3%, or 1.67-2 pts/A if organic matter content is 3% or greater.

*On English peas, use only preemergence applications.

Precaution: To avoid crop injury, do not use on English peas in northeastern U.S.

Restrictions:

- To avoid possible illegal residues, do not cut for hay within 120 days following a PARALLEL application.
- Do not apply more than 2.0 pts/A of PARALLEL during any one crop year, depending on soil texture.

PARALLEL COMBINATIONS

Restrictions: When applying PARALLEL in combination on pod crops, do not cut for hay within 120 days following application or illegal residues may result.

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

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

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

Sequential: Apply Eptam alone preplant incorporated, as specified on that label. Follow with a preemergence application of PARALLEL, at rates specified for PARALLEL alone, during planting (behind the planter) or after planting, but before the weeds or crop emerge.

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

Apply 2.5-4.5 pts/A of Eptam 7E* with PARALLEL as specified. On coarse soils, apply 0.85 pt/A of PARALLEL if organic matter content is less than 3%, or 1.0 pt/A if organic matter content is 3% or greater. On medium soils, apply 1.0 pt/A of PARALLEL if organic matter content is less than 3%, or 1.33 pts/A if organic matter content is 3% or greater. On fine soils, apply 1.33 pts/A of PARALLEL if organic matter is less than 3%, or 1.33-1.67 pts/A if organic matter is 3% or greater.

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

Restriction: Do not exceed 3.5 pts/A of Eptam 7E on small white beans or green beans grown on coarse-textured soils.

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

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

Apply PARALLEL + Treflan tank mix using the appropriate PARALLEL rate specified for PARALLEL 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: Follow all restrictions and precautions on the respective Treflan label and in the Pod Crops-PARALLEL Alone section of this label.

POTATOES

PARALLEL ALONE

Apply PARALLEL, either incorporated or preemergence, according to directions specified below for control of weeds listed under the **Product Information** section. Within a rate range, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter. Effectiveness will be reduced if later cultural practices expose untreated soil.

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

Preemergence: Apply PARALLEL 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 PARALLEL alone may be used where soil organic matter is between 6% and 20%.

Precautions: To avoid crop injury, do not use on sweet potatoes or yams.

Restrictions:

- Do not use on muck or peat soils. If cool, wet soil conditions occur after application, PARALLEL may delay maturity and/or reduce yield of Superior and other early maturing potato varieties.
- Do not apply both as a preemergence and an incorporated treatment.
- Potatoes treated with PARALLEL must not be harvested within 60 days after the at-planting to drag-off application or illegal residues may result.

PARALLEL COMBINATIONS

Tank Mixture with Sencor or Lexone

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

PARALLEL at 1.0-2.0 pts/A plus the labeled Sencor/Lexone use rate may be used preemergence. Apply 1.0-1.33 pts/A of PARALLEL on coarse soils and 1.33-2.0 pts/A on other soil textures. Within this rate range, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter. Effectiveness will be reduced if later cultural practices expose untreated soil. PARALLEL will not control emerged weeds.

Refer to the Sencor or Lexone labels for precautionary statements, restrictions, application information, and weeds controlled.

Precautions: To avoid crop injury, do not apply to sweet potatoes or yams.

Restrictions:

- Do not use this tank mixture on muck or peat soils.
- Potatoes treated with PARALLEL in tank mixture with Sencor or Lexone cannot be harvested within 60 days after application or illegal residues may result.

PARALLEL + Lorox Tank Mixture (East of Rocky Mountains)

PARALLEL may be applied in a tank-mix combination with any of the registered Lorox formulations as a preemergence broadcast application to potatoes. Apply to the soil surface after planting and before emergence of the crop or after final drag-off according to the rates specified in **PARALLEL + Lorox-Potatoes (East of Rocky Mountains)**

PARALLEL + Lorox-Potatoes (East of Rocky Mountains)

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	1% to Less Than 3% Organic Matter		3-5% Organic Matter	
	PARALLEL	Lorox*	PARALLEL	Lorox*
Coarse Sandy loam	1.0 pt	1-1.5 lbs	1.33 pts	1.5-2 lbs
Medium Loam, silt loam, silt	1.33 pts	1.5-2 lbs	1.67-2.0 pts	2-2.5 lbs
*When using Lorox L or Lorox DF, use equivalent rates. 1 pt of Lorox L equals 1 lb. of Lorox DF.				

Precautions: To avoid crop injury, do not use on sands or loamy sands and do not incorporate or spray over the top of emerged potatoes.

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

Tank Mixture with Prowl 4E

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

PARALLEL + Prowl 4E – Potatoes

SOIL TEXTURE	BROADCAST RATES PER ACRE	
	Less Than 3% Organic Matter	More Than 3% Organic Matter
	PARALLEL + Prowl 4E*	PARALLEL + Prowl 4E*
Coarse	1.0-1.33 pts + 1-1.5 pts	1.0-1.33 pts + 1-1.5 pts
Medium	1.33 pts + 1.5-2 pts	1.33-1.67 pts + 2-3 pts
Fine	1.33-1.67 pts + 2-3 pts	1.67-2.0 pts + 3 pts
*When using other formulations of Prowl, use equivalent rates of active ingredient.		

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

Tank Mixture with Prowl 4E + Eptam

In addition to the weeds controlled by PARALLEL alone, this tank mixture will control those species on the Prowl 4E and Eptam labels. Refer to the PARALLEL + 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 PARALLEL, 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

PARALLEL ALONE

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

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

GRAIN OR FORAGE SORGHUM
(Seed Treated with Concep® or Screen)

PARALLEL ALONE

Apply PARALLEL, either preplant surface, preplant incorporated, or preemergence, using the appropriate rate specified below. Apply PARALLEL alone only when the sorghum seed has been properly treated by the seed company with Concep or Screen.

Preplant Surface-Applied: Refer to instructions for use of PARALLEL under **Application Procedures**. For minimum-tillage or no-tillage systems only, PARALLEL may be applied up to 45 days before planting in CO, IA, IL, KS, MO, NE, and SD. Use only split applications for treatments made 30-45 days prior to planting, with 2/3 of the broadcast rate applied initially and the remaining 1/3 at planting. Apply 1.50 pts/A of PARALLEL on medium soils or 1.67 pts/A on fine soils. Treatments less than 30 days prior to planting may be made either as a split or single application. Apply 1.33 pts/A of PARALLEL on coarse soils not more than 2 weeks prior to planting. Under dry conditions, irrigate after application to move PARALLEL into the soil.

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

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

Restriction: Except for the split preplant surface treatment, do not make more than one application per year, or illegal residues may result.

PARALLEL COMBINATIONS

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

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

Precautions: (1) Applications of PARALLEL + AAtrex on highly alkaline soils or on eroded areas where calcareous subsoils are exposed may cause sorghum injury. (2) If sorghum seed is not properly treated with Concep or Screen, PARALLEL + AAtrex may severely injure the crop. (3) Under high soil moisture conditions prior to sorghum emergence, injury may occur following the use of PARALLEL + AAtrex. The crop will normally outgrow this effect. (4) Do not use PARALLEL + AAtrex on sorghum grown under dry mulch tillage, or injury may occur.

Restriction: Except for the split preplant surface treatment, do not make more than one application per year, or illegal residues may result.

Tank Mixture with AAtrex

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

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

to move PARALLEL + AAtrex into the soil.

Precautions: To avoid crop injury, do not use on coarse soils and do not use on medium soils with less than 1.5% organic matter.

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

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

Precaution: To avoid crop injury, do not use on coarse soils

Restrictions:

- 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.

Tank Mixture of PARALLEL or PARALLEL + AAtrex, with Gramoxone Extra, Landmaster BW, or Roundup 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 Gramoxone Extra, Landmaster BW, or Roundup may be tank mixed with PARALLEL or PARALLEL + AAtrex. See Comment No. 7 following **PARALLEL Tank Mixtures for Corn – Additional Weeds Controlled and Special Instructions** chart. The **PARALLEL OR PARALLEL + AAtrex** portion of the tank mixture provides preemergence control of the weeds listed on this label under the respective sections.

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

Application: Apply before, during, or after planting, but before sorghum emerges, at the appropriate rates listed under Grain or Forage Sorghum - PARALLEL Alone or - PARALLEL Combinations - PARALLEL + AAtrex, respectively. Add Gramoxone Extra, Landmaster BW, or Roundup at the following broadcast rates:

Gramoxone Extra: 1.5-2, 2-2.5, or 2.5-3 pts/A to 1-3 inches, 3-6 inches, or 6-inch tall weeds, respectively. Apply surfactant at 1 or 2 pts/100 gals of spray mixture with 75% or greater or 50-74% nonionic active ingredient, respectively. This treatment will not control weeds taller than 6 inches.

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

Roundup: See the Roundup or Roundup RT label for weeds controlled, rates, and other use directions.

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

SOYBEANS

PARALLEL ALONE

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

Preplant Surface-Applied Fall Application: (Apply after September 30 in MN, ND, SD, WI and north of Route 30 in IA; Apply after October 15 north of Route 91 in NE and south of Route 30 in IA; Apply after October 31 north of Route 136 in IL):

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.67-2.0 pts/A on medium-textured and 2.0 pts/A on fine-textured soils. A tillage operation may precede the

application. A fall and/or a spring tillage may follow application, but do not exceed an incorporation depth greater than 2-3 inches. Minimize furrow and ridge formation in the tillage operations.

Restrictions:

- 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.
- Do not apply to frozen ground.

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

Preplant Incorporated or Preemergence: On coarse soils, apply 1.0-1.33 pts/A of PARALLEL if organic matter content is less than 3%, or 1.33 pts/A if organic matter content is 3% or greater. On medium soils, apply 1.33-1.67 pts/A of PARALLEL. On fine soils, apply 1.33-1.67 pts/A of PARALLEL if organic matter content is less than 3%, or 1.67- 2.0 pts/A if organic matter content is 3% or greater.

On soybeans, PARALLEL may be used 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%.

Restrictions:

- The total PARALLEL rate applied to soybeans during any one crop must not exceed 2.55 pts/A (2.55 lb ai/a of metolachlor).
- Do not graze or feed treated soybean forage, hay, or straw to livestock 30 days following treatment, or illegal residues may result.

Postemergence

From emergence up through the third trifoliolate leaf stage:

Apply 1.0-1.33 pts/A as a postemergence treatment to soybeans from emergence up through the **third trifoliolate leaf stage**. PARALLEL will not control emerged weeds so it must be applied to a weed-free surface or in a tank mixture with products that provide postemergence control of weeds present at the time of application.

From emergence up through the fifth trifoliolate leaf stage*:

Apply 1.0-1.33 pts/A as a postemergence treatment to soybeans from emergence up through the **fifth trifoliolate leaf stage**. PARALLEL will not control emerged weeds so it must be applied to a weed-free surface or in a tank mixture with products that provide postemergence control of weeds present at the time of application.

***Not for use in California.**

Restrictions:

- Do not apply a postemergence application of PARALLEL if a preplant surface, preplant incorporated, or preemergence application of metolachlor products such as PARALLEL or PARALLEL PCS has already been applied.
- When PARALLEL is applied postemergence to soybeans do not apply more than 1.33 pts/A postemergence.
- To avoid possible illegal residues, make postemergence applications at least 90 days before harvest.
- Do not graze or feed treated forage or hay from soybeans to livestock following a postemergence application of PARALLEL.

PARALLEL COMBINATIONS

Water or fluid fertilizer may be used as carrier for PARALLEL in combination with Sencor, Lexone, Lorox, Lorox Plus, Gemini, Canopy, Preview, Pursuit, Scepter, Sonalan, or Command.

For all of the following combinations, PARALLEL may be used up to 2.3 pts/A on soils having an organic matter

content between 6% and 20%.

Restriction: The total PARALLEL rate applied to soybeans during any one crop year must not exceed 2.55 pts/A (2.55 lb ai/a of metolachlor).

1. Preplant/Preemergence Applications

Tank Mixture with Sencor or Lexone

In addition to those weeds controlled by PARALLEL alone, PARALLEL + Sencor or Lexone, when applied as directed, 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 PARALLEL and Sencor or Lexone preplant incorporated or preemergence, using the appropriate rates from the **PARALLEL + Sencor or Lexone-Soybeans** table. **Preplant Incorporated or Preemergence:** Follow instructions for use of PARALLEL alone under Application Procedures.

Sequential: Apply PARALLEL alone Preplant Incorporated, as specified in **PARALLEL + Sencor or Lexone-Soybeans** for this tank mixture. Follow with a preemergence application of Sencor or Lexone during planting (behind the planter) or after planting, but before weeds or soybeans emerge.

Refer to the Sencor or Lexone labels for planting details and soybean variety restrictions.

PARALLEL + Sencor or Lexone-Soybeans

SOIL TEXTURE**	BROADCAST RATES PER ACRE					
	0.5% to Less Than 3% Organic Matter			3% Organic Matter or Greater		
	PARALLEL		Sencor/ Lexone DF*	PARALLEL		Sencor/ Lexone DF*
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% organic matter)	DO NOT USE					

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

** **Restriction:** 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.

Precaution: (1) If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days. (2) To avoid crop injury, do not use the tank mix or sequential application on soil with less than 0.5% organic matter or on alkaline soil with a pH over 7.4.

2. Tank Mixture with Lorox

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

*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 the **PARALLEL + Lorox-Soybeans** table.

Precaution: Do not use on soil with less than 0.5% organic matter or crop injury may occur.

PARALLEL + Lorox-Soybeans

SOIL TEXTURE*	BROADCAST RATES PER ACRE					
	0.5% to Less Than 3% Organic Matter			3% Organic Matter or Greater		
	PARALLEL	+	Lorox DF***	PARALLEL	+	Lorox DF***
Coarse	0.85 pt			1 lb.		1.0 pt
Medium	1.0 pt		1-1.5 lbs	1.33 pts		1.5-2 lbs
Fine	1.33 pts		2 lbs	1.33-1.67 pts		2.5-3 lbs
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE					
<p>* Restriction: Do not use on sand, gravelly soils, or exposed subsoils. **Restriction: 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.</p>						

3. Tank Mixture with Treflan

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

Apply PARALLEL + Treflan tank mix, using the appropriate rate from the **Soybeans - PARALLEL 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 the **PARALLEL + Treflan-Organic Matter Content Less Than 3%**

PARALLEL + Treflan-Organic Matter Content Less Than 3%

SOIL TEXTURE	BROADCAST RATE PER ACRE		
	PARALLEL	Treflan E.C.**	
	Organic Matter		
	Less Than 3%	Less Than 2%	2 - 3 %
Coarse*	0.85-1.0 pt	1 pt	1.5 pts
Medium	1.0 pt	1.5 pts	1.5 pts
Fine	1.33 pts	2 pts	2 pts
<p>* Where a range of rates is given for PARALLEL, use the minimum 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.</p>			

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

4. Tank Mixture with Scepter

This tank mixture controls all weeds controlled by PARALLEL alone and by Scepter alone. Refer to the

PARALLEL Applied Alone section for weeds controlled by PARALLEL 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 PARALLEL + Scepter preplant incorporated or preemergence, using rates in the **PARALLEL + Scepter-Soybeans** table.

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 restrictions, precautions and limitations on the Scepter labels.

PARALLEL + Scepter-Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	Less Than 3% Organic Matter		3% or More Organic Matter	
	PARALLEL	Scepter	PARALLEL	Scepter
Coarse	0.85 pt	0.67 pt	1.0 pt	0.67 pt
Medium	1.0 pt	0.67 pt	1.33 pts	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 PARALLEL if heavy weed infestations are expected.				

Restrictions:

- 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.

5. Tank Mixture with Lorox Plus

This tank mixture controls all weeds controlled by PARALLEL alone and by Lorox Plus alone. Refer to the **PARALLEL Applied Alone** section for weeds controlled by PARALLEL and to the Lorox Plus label for weeds controlled by Lorox Plus.

Apply PARALLEL + Lorox Plus preemergence after planting, but before soybeans emerge, using rates in the **PARALLEL + Lorox Plus-Soybeans** table.

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

PARALLEL + Lorox Plus-Soybeans table.

SOIL TEXTURE	BROADCAST RATES PER ACRE	
	0.5-3% Organic Matter	
	PARALLEL	Lorox Plus (60DF)
Coarse	0.85 pt	12-14 oz
Medium	1.0 pt	14-16 oz
Fine	1.33 pts	16-18 oz

Restriction: Do not apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 6.8.

6. Tank Mixture with Gemini

This tank mixture controls all weeds controlled by PARALLEL alone and by Gemini alone. Refer to the **PARALLEL Applied Alone** section for weeds controlled by PARALLEL and to the Gemini label for weeds controlled by Gemini.

Apply PARALLEL + Gemini preemergence after planting, but before soybeans emerge, using rates in the **PARALLEL + Gemini-Soybeans** table.

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

PARALLEL + Gemini-Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE	
	0.5-3% Organic Matter	
	PARALLEL	Gemini (60DF)
Coarse Sandy loam only	0.85 pt	12-16 oz
Medium	1.0 pt	16-20 oz
Fine	1.33 pts	20-24 oz

Restriction: Do not apply to sand or loamy sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 7.0, except as in the directions of use for the Gemini label.

7. Tank Mixture with Canopy

This tank mixture controls all weeds controlled by PARALLEL alone and by Canopy alone. Refer to the **PARALLEL Applied Alone** section for weeds controlled by PARALLEL and to the Canopy label for weeds controlled by Canopy.

Apply preplant incorporated or **Preemergence**, using the appropriate rates from the **PARALLEL + Canopy-Soybeans** table.

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 PARALLEL and Canopy labels.

PARALLEL + Canopy-Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	0.5 to Less Than 3% Organic Matter		3-5% Organic Matter	
	PARALLEL	Canopy	PARALLEL	Canopy
Coarse	0.85 pt	6.0-10 oz	1.0 pt	6.0-10 oz
Medium	1.0 pt	8.0-12 oz	1.33 pts	8.0-12 oz
Fine	1.33 pts	10-14 oz	1.33-1.67 pts	10-14 oz

Restriction: 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 in the directions for use of the Canopy label.

8. Tank Mixture with Preview

This tank mixture controls all weeds controlled by PARALLEL alone and by Preview alone. Refer to the **PARALLEL Applied Alone** section for weeds controlled by PARALLEL and to the Preview label for weeds controlled by Preview.

Apply preplant incorporated or preemergence, using the appropriate rates from the **PARALLEL + Preview-Soybeans** table.

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 PARALLEL and Preview labels.

PARALLEL + Preview-Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	0.5% to Less Than 3% Organic Matter		3-5% Organic Matter	
	PARALLEL	Preview 75DF	PARALLEL	Preview 75DF
Coarse	0.85 pt	6 oz	1.0 pt	7 oz
Medium	1.0 pt	7 oz	1.33 pts	8 oz
Fine	1.33 pts	8 oz	1.33-1.67 pts	9-10 oz

Restriction: Do not apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 6.8.

9. Tank Mixture with Command*

This tank mixture controls all weeds controlled by PARALLEL alone and by Command alone. Refer to the **PARALLEL Applied Alone** section for weeds controlled by PARALLEL and to the Command label for weeds controlled by Command.

Apply PARALLEL + Command preplant incorporated, using rates in the **PARALLEL + Command-Soybeans** table. 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 PARALLEL and Command labels.

PARALLEL + Command-Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	PARALLEL		Command 4E	
	0.5-3% Organic Matter	Greater Than 3% Organic Matter	Northern Area	Southern Area
Coarse	0.85 pt	1.0 pt	1.5-2 pts	2-2.5 pts
Medium	1.0 pt	1.33 pts	1.5-2 pts	2-2.5 pts
Fine	1.33 pts	1.33-1.67 pts	1.5-2 pts	2-2.5 pts

10. Tank Mixture with Sonalan

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

Apply PARALLEL and Sonalan preplant incorporated, using the appropriate rates from the **PARALLEL + Sonalan-Soybeans** table.

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

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

PARALLEL + Sonalan-Soybeans

SOIL TEXTURE	BROADCAST RATES PER ACRE			
	Less Than 3% Organic Matter		3% or More Organic Matter	
	PARALLEL	Sonalan	PARALLEL	Sonalan
Coarse	1.0-1.33 pts	1.25-2 pts	1.33 pts	1.25-2 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 pts	1.67-2 pts	2.25-3 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, restrictions, precautions, and information regarding application to soybeans on the PARALLEL and Sonalan labels.

11. Tank Mixture with Pursuit

This tank mixture controls all weeds controlled by PARALLEL alone and by Pursuit alone. Refer to the **PARALLEL Applied Alone** section for weeds controlled by PARALLEL 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 PARALLEL + Pursuit early preplant, preplant incorporated, or preemergence after planting, using rates in the **PARALLEL + Pursuit-Soybeans** table. Application can 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 of planting.

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

PARALLEL + Pursuit-Soybeans

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

Sequential: Apply PARALLEL 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. PARALLEL 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 rate, and growth stage limitations.

12. Tank Mixture with Lexone, Sencor, Scepter, Lorox, Lorox Plus, Gemini, Canopy, Preview, or Pursuit, plus Gramoxone Extra or Roundup 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 Gramoxone Extra or Roundup may be added to a tank mix of either PARALLEL + Sencor or Lexone, PARALLEL + Scepter, PARALLEL + Lorox, PARALLEL + Lorox Plus, PARALLEL + Gemini, PARALLEL + Canopy, PARALLEL + Preview, or PARALLEL + Pursuit. When used as directed, the Gramoxone Extra portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds. Roundup combinations will control emerged annual and perennial weeds when applied as directed on the Roundup label. The PARALLEL + Sencor/ Lexone, Scepter, Lorox, Lorox Plus, Gemini, Canopy, Preview, or Pursuit portion of the tank mixture provides preemergence control of the weeds listed on this label in the tank mixture section for PARALLEL + Sencor/Lexone, PARALLEL + Scepter, PARALLEL + Lorox, PARALLEL + Lorox Plus, PARALLEL + Gemini, PARALLEL + Canopy, PARALLEL + Preview, and PARALLEL + 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 Gramoxone Extra or Roundup, PARALLEL + Sencor/Lexone, PARALLEL + Scepter, PARALLEL + Lorox, PARALLEL + Lorox Plus, PARALLEL + Gemini, PARALLEL + Canopy, PARALLEL + Preview, and PARALLEL + Pursuit, respectively.

Application: Apply before, during, or after planting, but before the soybeans emerge, at the rates specified below. Add Gramoxone Extra or Roundup at the following broadcast rates:

Gramoxone Extra: 1.5-2, 2-2.5, or 2.5-3 pts/A to 1-3 inches, 3-6 inches, or 6-inch tall weeds, respectively. Apply surfactant at 1.0 or 2 pts/100 gals of spray mixture with 75% or greater or 50-74% nonionic active ingredient, respectively. This treatment will not control weeds taller than 6 inches.

Restriction: Do not apply combinations containing Gramoxone Extra in suspension-type liquid fertilizers as the activity of paraquat will be reduced.

Roundup: See the Roundup or Roundup RT label for weeds controlled, rates, and other use directions. Apply in 20-60 gals of water or fluid fertilizer per acre with ground equipment.

PARALLEL + Lexone/Sencor + Gramoxone Extra or Roundup

On loamy sand with over 2% organic matter, apply 1.0 pt/A of PARALLEL + 0.33-0.5 lb/A of Sencor or Lexone DF. On medium soils, apply 1.33 pts/A of PARALLEL + 0.5-0.67 lb/A of Sencor or Lexone DF. On fine soils, apply 1.33-1.67 pts/A of PARALLEL + 0.67 lb/A of Sencor or Lexone DF.

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

Precautions: (1) If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days or where the seeding slit has not been properly closed. (2) 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 on loamy sand with less than 2% organic matter.

PARALLEL + Scepter + Gramoxone Extra or Roundup

On coarse soils, apply 1.0 pt/A of PARALLEL + 0.67 pt/A of Scepter. On medium soils, apply 1.33 pts/A of PARALLEL + 0.67 pt/A of Scepter. On fine soils, apply 1.67 pts/A of PARALLEL + 0.67 pt/A of Scepter.

Restrictions:

- 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.

PARALLEL + Lorox + Gramoxone Extra or Roundup

On coarse soils*, apply 1.0 pt/A of PARALLEL + 1-1.5 lbs/A of Lorox DF**. On medium soils, apply 1.33 pts/A of PARALLEL + 1-2 lbs/A of Lorox DF. On fine soils, apply 1.33-1.67 pts/A of PARALLEL + 2-3 lbs/A of Lorox DF.

* **Precautions:** 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.

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

Precaution: Do not use on soil with less than 0.5% organic matter or crop injury may occur.

PARALLEL + Lorox Plus + Gramoxone Extra or Roundup

Use only where soils have 0.5-3% organic matter. On coarse soils, apply 1.0 pt/A of PARALLEL + 12-14 oz/A of Lorox Plus 60DF. On medium soils, apply 1.33 pts/A of PARALLEL + 14-16 oz/A of Lorox Plus. On fine soils, apply 1.33-1.67 pts/A of PARALLEL + 16-18 oz/A of Lorox Plus.

Restriction: Do not apply to sand or to any soil with pH greater than 6.8.

PARALLEL + Gemini + Gramoxone Extra or Roundup

Use only where soils have 0.5-3% organic matter. On coarse soils (sandy loam only), apply 1.0 pt/A of PARALLEL + 12-16 oz/A of Gemini 60DF. On medium soils, apply 1.33 pts/A of PARALLEL + 16-20 oz/A of Gemini. On fine soils, apply 1.33-1.67 pts/A of PARALLEL + 20-24 oz/A of Gemini.

Restriction: Do not apply to sand or loamy sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 7.0, except as in the directions for use of the Gemini label.

PARALLEL + Canopy + Gramoxone Extra or Roundup

Use only where soils have 0.5-5% organic matter. On coarse soils (except sand), apply 1.0 pt/A of PARALLEL, on medium soils, apply 1.33 pts/A of PARALLEL, and on fine soils, apply 1.33-1.67 pts/A of PARALLEL. Refer to the Canopy label for appropriate rate according to geographical location, soil and organic matter classification, pH limitations, and all other use directions.

Restriction: 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 in the directions for use of the Canopy label.

PARALLEL + Preview + Gramoxone Extra or Roundup

Use only where soils have 0.5-5% organic matter. On coarse soils (except sand), apply 1.0 pt/A of PARALLEL + 6*-7 oz/A of Preview 75DF. On medium soils, apply 1.33 pts/A of PARALLEL + 7*-8 oz/A of Preview. On fine soils, apply 1.33-1.67 pts/A of PARALLEL + 8* to 9-10 oz/A of Preview.

*Use this rate where the soil organic matter is in the 0.5 to less than 3.0% range.

Restriction: Do not apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 6.8.

PARALLEL + Pursuit + Gramoxone Extra or Roundup

On coarse soils, apply 1.0 pt/A of PARALLEL + 0.25 pt/A of Pursuit. On medium soils, apply 1.33 pts/A of PARALLEL + 0.25 pt/A of Pursuit. On fine soils, apply 1.67 pts/A of PARALLEL + 0.25 pt/A of Pursuit.

Tank Mixture with Broadstrike + PARALLEL 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 + PARALLEL PCS may be spiked with PARALLEL for optimum performance. Refer to the Broadstrike + PARALLEL PCS label for its use rate and the amount of metolachlor active ingredient it contains. PARALLEL may be added up to, but not to exceed, the maximum alone PARALLEL label rate for the soil classification. Refer to the respective labels and follow all directions, limitations, and restrictions for each product.

Postemergence Applications

Tank Mixture with Glyphosate Products

PARALLEL at 1.0-1.33 pts/A may be tank mixed with glyphosate products at labeled rates and applied from emergence up through the third trifoliate leaf stage of Roundup Ready or glyphosate-tolerant soybeans. PARALLEL alone will not control emerged weeds. Use this treatment only on soybeans designated for use with glyphosate (e.g. Roundup Ready or glyphosate-tolerant soybeans). The glyphosate product must be registered for postemergence use in Roundup Ready or glyphosate-tolerant soybeans.

Tank Mixture with Glufosinate Ammonium (Liberty) Products

PARALLEL at 1.0-1.33 pts/A may be tank mixed with glufosinate products at labeled rates and applied from emergence up through the third trifoliate leaf stage of soybeans. PARALLEL alone will not control emerged weeds. Use this treatment only on soybeans designated for use with glufosinate (e.g. Liberty Link).

Note: Follow the tank mix product label for adjuvant recommendations.

Precautions: The use of adjuvants such as COC or UAN with PARALLEL may result in temporary crop injury.

Restrictions:

- To avoid possible illegal residues when PARALLEL is applied postemergence to soybeans, do not apply more than 1.33 pts/A postemergence.
- Do not graze or feed treated forage or hay from soybeans to livestock following a postemergence application of PARALLEL.

- To avoid possible illegal residues when PARALLEL is applied postemergence to soybeans, make postemergence application at least 90 days before harvest.

APPENDIX

APPENDIX A: 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 psi at the nozzles, and (2) provide 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. Nozzle screens should be used when recommended by the manufacturer. All nozzles should be placed on 20-inch centers, except flooding types which should be placed on 40-inch centers. When flat fan-type nozzles are used, angles of 80° or 110° are recommended. Always read and follow the manufacturer's directions for optimum setup and performance of their nozzles or tips.

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 below 0° F.

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

CONTAINER HANDLING:

NONREFILLABLE CONTAINERS:

Rigid, Nonrefillable containers small enough to shake (i.e. with capacities equal to less than five gallons).

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Once container is rinsed, offer for recycling if available, or puncture and dispose of in a sanitary landfill.

Rigid, Nonrefillable containers that are too large to shake (i.e. with capacities greater than 5 gallons or 50 lbs).

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling or reconditioning if available, or puncture and dispose of in a sanitary landfill, or by other

procedures approved by state and local authorities.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Once container is rinsed, offer for recycling if available, or puncture and dispose of in a sanitary landfill.

REFILLABLE CONTAINERS:

Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

REFILLING OR RETURNING CONTAINERS:

If refilling or returning container is planned, end users are not authorized to remove tamper evident cables, one way valves or clean container.

RECYCLE OR DISPOSAL OF CONTAINERS:

End users are authorized to remove tamper evident cable as required to remove the product from the container unless the container is equipped with one way valves and refilling or returning is planned. Instructions for container rinsing and either recycling or disposal are as follows:

Bottom Discharge IBC (e.g. Schuetz Caged IBC or Snyder Square Stackable).

Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To pressure rinse the container before final disposal, empty the remaining contents from the IBC into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inches on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve.

Top Discharge IBC, Drums, Kegs (e.g. Snyder 120 Next Gen, Bonar B120, Drums and Kegs).

Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To triple rinse the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Rinse all interior surfaces. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY.**

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of ADAMA. All such risks shall be assumed by the user or buyer.

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ADAMA's election, the replacement of product.

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EPA Reg. No. 66222-87: 12-12-2022