

**Active Ingredient/Guarantee:** 

For Control of Certain Weeds in Cotton, Dry Beans, Potatoes, Snap Beans, and Soybeans

Contains 1,2-benzisothiazolin-3-one at 0.02% as a preservative.

Equivalent to 21.7% or 2.0 pounds per U.S. gallon or 240 grams per liter of fomesafen active ingredient.

# DANGER/PELIGRO

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

	( FIRST AID
If in eyes:	<ul> <li>Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed:	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything to an unconscious person.</li> </ul>
If on skin or clothing:	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
lf inhaled:	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.

EPA REG. NO. 34704-1058 EPA EST. NO. 34704-MS-001 NET CONTENTS 2.64 GAL (10 L)

082416 V1D 08B16

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. DUE TO CORROSIVE NATURE, MAY BE HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. Do not get in eyes, on skin or on clothing. Avoid breathing vapors or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

## Personal Protective Equipment (PPE) Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate or viton
- Shoes plus socks
- Protective eyewear

## In addition for aerial applications mixers and loaders handling more than 140 gallons of Top Gun<sup>®</sup> Herbicide in any single workday must wear:

• Dust/mist filtering NIOSH-approved respirator with any N, R, P, or HE filter.

#### **User Safety Requirements**

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **Engineering Controls**

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 thoroughly with soap and water after handling and 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**

(For Terrestrial Uses) Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from target area. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

#### **GROUNDWATER ADVISORY**

Fomesafen 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 spray drift and 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 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 fomesafen from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. See the manual for "Conservation Buffers to Reduce Pesticide Losses" at the following internet address: http://www.nrcs.usda.gov/Internet/FSE DOCUMENTS/nrcs143 023819.pdf.

#### **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.

#### AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves such as barrier laminate or viton
- Shoes plus socks
- Protective evewear

#### PRODUCT INFORMATION

#### Read all label directions before using.

Top Gun Herbicide is a selective herbicide which may be applied preplant surface, preemergence and/or postemergence for control or partial control of broadleaf weeds, grasses and sedges in cotton, dry beans, potatoes, snap beans and soybeans.

#### Adjuvants

When an adjuvant is to be used with this product, the use of an adjuvant that meets the standards of the Council of Producers & Distributors of Agrotechnology (CPDA) adjuvant certification program is recommended.

#### **Preplant Surface and Preemergence Applications**

Certain germinating broadleaf weeds, grasses and sedges can be controlled or partially controlled by soil residual activity from either preplant surface or preemergence applications of Top Gun Herbicide. Moisture is necessary to activate Top Gun Herbicide in soil for residual weed control. Dry weather following applications of Top Gun Herbicide may reduce effectiveness. When adequate moisture is not received after a Top Gun Herbicide application, weed control may be improved by overhead irrigation with at least a 1/4 inch of water.

#### Postemergence Applications

Top Gun Herbicide is generally most effective when used postemergence, working through contact action. Therefore, emerged weeds must have thorough spray coverage for effective control. Best broad spectrum postemergence control of susceptible broadleaf weeds is obtained when Top Gun Herbicide is applied early to actively growing weeds. This usually occurs within 14 to 28 days after planting. Refer to the weed control tables for specific directions on weed growth stages and rates.

Some bronzing, crinkling or spotting of labeled crop leaves may occur following postemergence applications, but labeled crops soon outgrow these effects and develop normally.

#### **Soil Characteristics**

Application of Top Gun Herbicide to soils with high organic matter and/or high clay content may require higher rates than soils with low organic matter and/or low clay content. Refer to the "Regional Boundaries/Definition" section of this label, weed control tables, and specific crop use sections for directions on use rates based on soil texture.

#### **Environmental and Agronomic Conditions**

Always apply Top Gun Herbicide under favorable environmental conditions that promote active weed growth. Avoid applying Top Gun Herbicide to weeds or labeled crops which are under stress from drought, extreme temperatures, excessive water, low humidity, low soil fertility, mechanical or chemical injury as reduced weed control and/or increased crop injury may result.

#### Rainfastness

Top Gun Herbicide requires a 1 hour rain-free period for best results when applied postemergence.

#### Cultivation

Cultivation prior to postemergence application is not recommended. Cultivation may put weeds under stress, reducing weed control. Timely cultivation 1 to 3 weeks after applying Top Gun Herbicide may assist weed control.

#### **Resistant Weed Management**

Top Gun Herbicide contains the active ingredient fomesafen which inhibits the enzyme, protoporphyrinogen oxidase (PPO or PROTOX, Site of Action Group 14). Some naturally occurring weed populations have been identified as resistant to Group 14 herbicides. Selection of resistant biotypes, through repeated use of these herbicides or lower than directed use rates in the same field, may result in weed control failures. A resistant biotype may be present where poor performance cannot be attributed to adverse environmental conditions or improper application methods. If resistance is suspected, contact your local Loveland Products Inc. representative and/or agricultural advisor for assistance.

General principles of herbicide resistant weed management:

- Employ integrated weed management practices. Use multiple herbicide sites-of-action with overlapping weed spectrums in rotation, sequences, or mixtures.
- Use the full directed herbicide rate and proper application timing for the hardest to control weed species present in the field.
- Scout fields after herbicide application to ensure control has been achieved. Avoid allowing weeds to reproduce by seed or to proliferate vegetatively.
- Monitor site and clean equipment between sites.
- Start with a clean field and control weeds early by using a burndown treatment or tillage in combination with a preemergence residual herbicide as appropriate.
- Use cultural practices such as cultivation and crop rotation, where appropriate.
- Use good agronomic principles that enhance crop competitiveness.

#### **APPLICATION DIRECTIONS**

**Drift Management:** Avoiding spray drift at the application site is the responsibility of the applicator and the grower. The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator and grower must consider the interaction of equipment and weather-related factors to ensure that the potential for drift to sensitive non-target plants is minimal. This pesticide must only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, non-target plants) is minimal (i.e., when the wind is blowing away from the sensitive area).

**Spray Additives:** Only spray additives cleared for use on growing crops under 40 CFR 180.1001 may be used in spray mixture.

For Postemergence Applications, Always Add One of the Following Except in Tank Mix With Products Prohibiting Spray Additives:

**Nonionic Surfactant (NIS)** - Use NIS containing at least 75% surface active agent at 0.25 to 0.5% v/v (1.0 to 2.0 quarts per 100 gallons) of the finished spray volume.

**Crop Oil Concentrate (COC)** - Use a non-phytotoxic COC containing 15 to 20% approved emulsifier, at 0.5 to 1% v/v (0.5 to 1.0 gallon per 100 gallons) of the finished spray volume. COC can improve weed control but may slightly reduce crop tolerance.

**Other Adjuvants** - Adjuvants other than COC or NIS may be used providing the product meets the following criteria:

- 1. Contains only EPA exempt ingredients.
- 2. Is non-phytotoxic to the target crop.
- 3. Is compatible in mixture. (May be established through a jar test.)
- 4. Is supported locally for use with Top Gun Herbicide on the target crop through proven field trials and through university and extension recommendations.

**Note:** No adjuvants are needed for preplant surface or preemergence applications unless Top Gun Herbicide is being used in a burndown on emerged weeds.

#### **Recommended Mixing Order:**

- 1. Fill the spray tank with 1/2 the required amount of water and begin agitation.\*
- 2. Add dry pesticide formulations.
- 3. Add Top Gun Herbicide.
- 4. Add liquid pesticide formulations.
- 5. Add spray adjuvant and fertilizer (if used).
- 6. Add the remaining water and maintain agitation throughout the spray operation.
- \*Compatibility agent, 1.0 gallon per 500 gallons of water or 0.2% v/v, may be added as needed.

#### Tank-Mix Compatibility Test

A jar test is recommended prior to tank mixing to ensure compatibility of Top Gun Herbicide with mixture partners. Add proportion amounts of tank mixture components in a clear quart jar one at a time in the recommended mixing order. Gently shake or invert capped jar and let stand for 15 to 30 minutes. If the mixture clumps, forms flakes, oily films or layers or other precipitates, it is not compatible and the tank mixture should not be used.

#### **GROUND APPLICATION**

**Preplant Surface and Preemergence Application:** Use a minimum of 10.0 gallons per acre. Nozzle selection should meet manufacturer's gallonage and pressure directions for preplant surface or preemergence applications.

**Postemergence Application:** Use sufficient spray volume and pressure to ensure complete coverage of the target weed. A spray volume of 10.0 to 20.0 gallons per acre and 30 to 60 psi at the nozzle tip is recommended. On large weeds and/or dense foliage, use 60 psi and a minimum of 20.0 gallons per acre to ensure coverage of weed foliage.

The use of flat fan nozzles will result in the most effective postemergence application of Top Gun Herbicide. Use nozzles that are set up to deliver medium quality spray (ASAE Standard S-572).

### DO NOT USE FLOOD TYPE OR OTHER SPRAY NOZZLES, WHICH DELIVER COARSE, LARGE DROPLET SPRAYS. BAND APPLICATIONS

Calculate the amount of herbicide and water volume needed for band treatment by the following formulas:

Band width in inches Row width in inches	Χ	Broadcast rate per acre	=	Band herbicide rate per acre
Band width in inches Row width in inches	Χ	Broadcast volume per acre	=	Band water volume per acre

**Note:** Thorough weed coverage is important for postemergence band applications. Best coverage is obtained with a minimum of 2 nozzles, 1 directed to each side of the planted row. Application with a single nozzle directed over the top of the row is not recommended for postemergence applications but is suitable for preemergence applications. Cultivation of untreated areas may be needed following band applications. When making postemergence band applications and cultivating in the same operation, position nozzles in advance of the cultivation device. This will reduce dust in the spray area. Dust can intercept spray, reducing weed coverage resulting in less than adequate weed control.

**AERIAL APPLICATION:** Use sufficient spray volume and pressure to ensure complete coverage of the target. A minimum of 5.0 gallons per acre of spray mixture needs to be applied with a maximum of 40 PSI pressure. When foliage is dense, use a minimum of 10.0 gallons per acre to ensure coverage of weed foliage.

### DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM, EXCEPT CENTER PIVOT SYSTEMS.

#### CENTER PIVOT IRRIGATION APPLICATION

Top Gun Herbicide 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 directed on this label. Top Gun Herbicide also may be applied postemergence to the crop and preemergence to weeds in crops where postemergence applications are allowed on this label. Follow all restrictions (height, timing, rate, etc.) to avoid illegal residues. Apply this product only through a center pivot irrigation system. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, 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

- The system must contain a functional check-valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent watersource contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distributions adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump or piston pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Prepare a mixture with a minimum of 1 part water to 1 part herbicide(s) and inject this mixture into the center pivot system. Injecting a larger volume of a more dilute mixture per hour will usually provide more accurate calibration of equipment. Maintain sufficient agitation to keep the herbicide in suspension.
- Meter into irrigation water during entire period of water application.
- Apply in ½-1 inch of water. Use the lower water volume (½ inch) on coarser soils and the higher volume (1 inch) on fine-textured soils. More than 1 inch of water at application may reduce weed control by moving the herbicide below the effective zone in the soil.

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

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive area. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other locations affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2½ inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

Posting required for chemigation does not replace other posting and reentry interval requirements for farm worker safety.

#### **Specific Instructions for Public Water Systems**

- 1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 4. The pesticide injection pipeline must 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.
- 5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, 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) 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.

#### RESTRICTIONS

- A maximum of 1.5 pints of Top Gun Herbicide (or a maximum of 0.375 pound active ingredient per acre
  of fomesafen from any product containing fomesafen) may be applied per acre per year in Region 1 (see
  Regional Boundaries/Definition section of this label).
- A maximum of 1.5 pints of Top Gun Herbicide (or a maximum of 0.375 pound active ingredient per acre
  of fomesafen from any product containing fomesafen) may be applied per acre in ALTERNATE years in
  Region 2 (see Regional Boundaries/Definition section of this label).
- A maximum of 1.25 pints of Top Gun Herbicide (or a maximum of 0.313 pound active ingredient per acre
  of fomesafen from any product containing fomesafen) may be applied per acre in ALTERNATE years in
  Region 3 (see Regional Boundaries/Definition section of this label).
- A maximum of 1.0 pint of Top Gun Herbicide (or a maximum of 0.25 pound active ingredient per acre of fomesafen from any product containing fomesafen) may be applied per acre in ALTERNATE years in Region 4 (see Regional Boundaries/Definition section of this label).
- A maximum of 1.0 pint of Top Gun (or a maximum of 0.25 pound active ingredient per acre of fomesafen from any product containing fomesafen) may be applied per acre in ALTERNATE years in Region 4a (see Regional Use Map). Apply only to soybeans in Region 4a. Do not make a Top Gun application later than June 20th. Cumulative rainfall plus overhead irrigation must total 15 inches from the period of Top Gun application to soybean crop maturity to allow planting of rotational crops listed in this label (refer to Rotational Crop Restrictions section). If the soybean crop is lost or the required cumulative rainfall plus irrigation is not received as outlined above, plant only soybeans the following growing season.
- A maximum of 0.75 pint of Top Gun Herbicide (or a maximum of 0.1875 pound active ingredient per acre of fomesafen from any product containing fomesafen) may be applied per acre in ALTERNATE years in Region 5 (see Regional Boundaries/Definition section of this label).
- Do not make ground or aerial application during temperature inversions.
- Do not apply when wind velocity exceeds 15 mph.
- Do not use on potatoes in Nassau and Suffolk Counties, New York.

#### **PRECAUTIONS**

- Thoroughly clean the spray system with water and a commercial tank cleaner before and after each use.
- Tank mixes of Top Gun Herbicide with other pesticides, fertilizers or any other additives except as specified on this label or other approved Loveland Products, Inc. supplemental labels may result in tank mix incompatibility, unsatisfactory performance or unsatisfactory crop injury.
- Avoid overlapping spray swaths, as injury may occur to rotational crops.
- To provide adequate coverage, it is recommended that ground speed not exceed 10 mph during application.
- Avoid drift to all other crops and non-target areas. Crops other than those labeled may be severely injured by drift. Do not apply when wind velocity exceeds 15 mph.

#### Replanting

If replanting is necessary in fields previously treated with Top Gun Herbicide, the field may be replanted to cotton, dry beans, snap beans or soybeans. During replanting, a minimum of tillage is recommended to preserve the herbicide barrier for effective weed control. Do not apply a second application of Top Gun Herbicide or other fomesafen containing product as crop injury or illegal residues may occur in harvested crops. If tank mix combinations were used, refer to product labels for any additional replanting instructions.

#### **ROTATIONAL CROP RESTRICTIONS**

The following rotational crops may be planted after applying Top Gun Herbicide at directed rates:

Rotational Crops	Planting Time From Last Top Gun Herbicide Application
Bean, Dry	0 months
Bean, Snap	
Cotton	
Potato	
Soybean	
Soybean, Succulent (edamame)	
Bean, Lima	4 months
Pea, Succulent	
Peanut	
Small Grains such as Wheat, Barley, Rye	
Corn, Field	10 months
Corn, Seed	
Corn, Sweet <sup>5</sup>	
Pepper (transplanted) <sup>1</sup>	
Popcorn <sup>4</sup>	
Pumpkin <sup>2</sup>	
Rice	
Tomato (transplanted) <sup>1</sup>	
Watermelon <sup>2</sup>	
Bean, Succulent (other than edamame, snap bean	12 months
and lima bean)	
Cantaloupe <sup>2</sup>	
Cucumber <sup>2</sup>	
Edible-podded beans and peas not otherwise	
specified in this table	
Eggplant	
Pea, Dry	
Pepper, (direct-seeded)	
Squash <sup>2</sup>	
Sweet Potato	
Tomato (direct-seeded)	
Sorghum <sup>3</sup>	18 months
All other crops not listed above	18 months

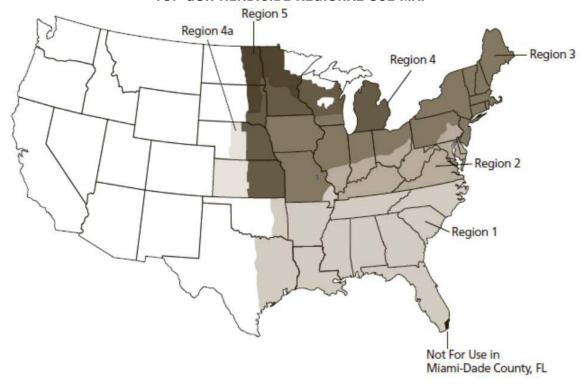
- <sup>1</sup> 4 months in Region 1
- <sup>2</sup> 8 months in Region 1
- <sup>3</sup> 10 months in Region 1
- <sup>4</sup> 12 months in the states of Ohio, Kentucky, Illinois, Indiana, Iowa, and Regions 4 and 4a when applied at rates of 1 pint per acre or more
- <sup>5</sup> 18 months in the states of Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, Vermont and Region 5

**Restriction:** Do not graze rotated small grain crops for harvest forage or straw for livestock.

#### TOP GUN HERBICIDE - USE RATES AND WEEDS CONTROLLED

### REFER TO INDIVIDUAL MAPS FOR DEFINITION OF SPECIFIED GEOGRAPHIC REGIONS

#### TOP GUN HERBICIDE REGIONAL USE MAP



### REGION 1 (Maximum Rate 1.5 pints per acre per year)



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Includes the foll	owing states or portion of states where Top Gun Herbicide may be applied:
Alabama	All areas
Arkansas	All areas
Florida	All areas except for Miami-Dade County
Georgia	All areas
Louisiana	All areas
Mississippi	All areas
Missouri	Counties of Bollinger, Butler, Cape Giradeau, Dunklin, Madison, Mississippi, New Madrid,
	Pemiscot, Perry, Ripley, Scott, Stoddard, and Wayne
North Carolina	All areas
Oklahoma	All areas east of U.S. Highway 75 and East of Indian Nation Parkway
South Carolina	All areas
Tennessee	All areas
Texas	All areas east of U.S. Highway 77 to State Road 239, including all of Calhoun County

### REGION 2 (Maximum Rate 1.5 pints per acre, alternate years)



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Includes the fol	llowing states or portion of states where Top Gun Herbicide may be applied:
Delaware	All areas
Illinois	All areas south of Interstate 70
Indiana	All areas south of Interstate 70
Kentucky	All areas
Maryland	All areas
Ohio	All areas south of Interstate 70
Pennsylvania	All areas south of Interstate 80 to the intersection of U.S. Highway 15 and east of U.S. High-
	way 15 and U.S. Highway 522
Virginia	All areas
West Virginia	All areas

### REGION 3 (Maximum Rate 1.25 pints per acre, alternate years)



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Includes the follow	wing states or portion of states where Top Gun Herbicide may be applied:
Connecticut	All areas
Illinois	All areas north of Interstate 70
Indiana	All areas north of Interstate 70
Iowa	All areas
Maine	All areas
Massachusetts	All areas
Missouri	All counties except for those listed in Region 1
Ohio	All areas north of Interstate 70
New Hampshire	All areas
New Jersey	All areas
New York	All areas. Do not use on potatoes in Nassau and Suffolk counties, New York
Pennsylvania	All areas except those listed in Region 2
Rhode Island	All areas
Vermont	All areas
Wisconsin	All areas south of U.S. Highway 18 between Prairie Du Chien and Madison, and south of
	Interstate 94 between Madison and Milwaukee
Maine Massachusetts Missouri Ohio New Hampshire New Jersey New York Pennsylvania Rhode Island Vermont	All areas All counties except for those listed in Region 1 All areas north of Interstate 70 All areas All areas All areas All areas All areas. Do not use on potatoes in Nassau and Suffolk counties, New York All areas except those listed in Region 2 All areas All areas All areas All areas All areas south of U.S. Highway 18 between Prairie Du Chien and Madison, and south of

### REGION 4 (Maximum Rate 1.0 pint per acre, alternate years)



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Includes the follo	wing states or portion of states where Top Gun Herbicide may be applied:
Kansas	All counties east of or intersected by U.S. Highway 281
Michigan	Southern Peninsula
Minnesota	All areas south of Interstate 94
Nebraska	All counties east of or intersected by U.S. Highway 281
North Dakota	All areas east of Interstate 29 from Fargo south to the South Dakota state line
South Dakota	All areas east of Interstate 29 from the North Dakota state line to Watertown, all areas east
	of Highway 81 from Watertown to Madison and all areas east and south of State Road 34
	and U.S. Highway 281 to the Nebraska state line
Wisconsin	All areas south of Interstate 94 (except those in Region 3) from Minnesota state line to Eau Claire and south of U.S. Highway 29 from Eau Claire to Green Bay plus Barron, Burnett, Chippewa, Clark, Door, Dunn, Eau Claire, Langlade, Lincoln, Kewaunee, Marathon, Marinette, Menominee, Oconto, Polk, Price, Rusk, Sawyer, Shawano, St. Croix, Taylor, and Washburn counties. The following counties are excluded: Adams, Marquette, Portage,
	Waupaca, Waushara and Wood

#### REGION 4a (Maximum Rate 1.0 pint per acre, alternate years\*)



Region 4a

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Includes the follow	ving states or portion of states where Top Gun Herbicide may be applied:
Kansas	All areas west of U.S. Highway 281 to the Colorado state line
Nebraska	All areas that intersect west of U.S. Highway 281 and east of U.S. Highway 83

<sup>\*</sup>Note: Refer to the Use Precautions section for additional requirements that must be followed to use Top Gun Herbicide in Region 4a.

REGION 5 (Maximum Rate 0.75 pint per acre, alternate years)

Region 5



Includes the f	ollowing states or portion of states where Top Gun Herbicide may be applied:
Minnesota	All areas south of U.S. Highway 2 (except those areas in Region 4), plus Betrami, Clearwater,
	Lake of the Woods, Kittson, Marshall, Pennington, Polk, Red Lake, and Roseau
North Dakota	All areas east of U.S. Highway 281, except those areas in Region 4
South Dakota	All areas east of U.S. Highway 281, except those areas in Region 4

#### WEEDS CONTROLLED

Table 1. Weeds controlled or partially controlled\* by preemergence activity of Top Gun Herbicide at 1.0 to 1.5 pints per acre 1.

1.5 pints per acre 1.			
Broadleaf Weeds Controlled	Soil Texture	Organic Matter	
Amaranth, Palmer	All Soil Types	Up to 5%	
Croton, tropic <sup>2</sup>	-	·	
Eclipta			
Galinsoga spp.			
Lambsquarters, common			
Morningglory, smallflower			
Nightshade, black			
Nightshade, Eastern black			
Pigweed, redroot			
Pigweed, smooth			
Poinsettia, wild			
Purslane, common			
Ragweed, common <sup>2</sup>			
Sida, prickly <sup>2</sup>			
Starbur, bristly			

Broadleaf Weeds Partially Controlled*	Soil Texture	Organic Matter	
Anoda, spurred	All Soil Types	Up to 5%	
Cocklebur, common			
Morningglory, entireleaf			
Morningglory, ivyleaf			
Morningglory, pitted			
Morningglory, red/scarlet			
Morningglory, tall			
Nightshade, hairy			
Ragweed, giant			
Waterhemp, common			
Sednes Partially Controlled*			

#### Sedges Partially Controlled

Nutsedge, yellow

Table 2. Weeds controlled or partially controlled\* by postemergence activity of Top Gun Herbicide

		Top Gun Herl	bicide Rate (Pt/A)	•
	IV	laximum Growth St	age Controlled At	
Weed	0.75 Pt/A No. of True Leaves	1.0 Pt/A No. of True Leaves	1.25 Pt/A No. of True Leaves	1.50 Pt/A No. of True Leaves
Anoda, Spurred	<del>_</del>	<del>_</del>	_	2
Balloonvine	<del>-</del>	_	2 <sup>c</sup>	2
Carpetweed	_	6" Diameter Size	Multi-leaf 6" Diameter	Unlimited Size
Citron (Wild Watermelon)	_	2	2	4
Cocklebur, Common <sup>a,b</sup>	_	_	2	4

<sup>\*</sup> Partial control means significant activity but not always at a level considered acceptable for commercial weed

<sup>&</sup>lt;sup>1</sup> Use the higher end of the rate range when heavy weed populations are anticipated. <sup>2</sup> Rates less than 1.5 pints per acre will provide only partial control of this weed.

Table 2. cont'd.:

Weed         0.75 Pt/A No. of True Leaves         1.0 Pt No. of True No. of True Leaves         1.25 Pt No. of True Leaves         1.50 Pt No. of True Leaves           Copperleaf, Hophornbeam         —         2         2         4           Copperleaf, Virginia         —         2         2         4           Crotalaria, Showy         —         4         4         6           Croton, Tropic         —         2         2         4           Cucumber, volunteer         —         4         4         6           Eclipta         —         2         2         4           Groundcherry, Cutleaf         —         2         2         4           Horrsenettle b         —         2°         3°         4°           Horrsenettle b         —         2°         3°         4°           Jimsonweed         2         4         6         8           Ladysthumb         —         2°         2°         2           Lambsquarters,         —         2°         2°         2           Common c         —         2°         2°         2           Mexicanweed         —         2°         2°         2	Table 2. com u		Top Gun Her	bicide Rate (Pt/A)	
Copperleaf,   Hophornbeam	Weed	0.75 Pt/A No. of True	1.0 Pt No. of True	1.25 Pt No. of True	1.50 Pt No. of True
Hophornbeam	Copperleaf.	Louvos	Louvos	Louvos	Louvos
Copperleaf, Virginia         —         2         2         4           Crotalaria, Showy         —         4         4         6           Croton, Tropic         —         2         2         4           Cucumber, volunteer         —         4         4         6           Eclipta         —         2         2         4           Groundcherry, Cutleaf         —         4         4         6           Hemp b         —         —         4         6           Horsenettlle b         —         —         4         6           Horsenettlle b         —         —         4         6           Horsenettlle b         —         2°         3°         4°           Jimsonweed         2         4         6         8           Ladysthumb         —         2         2         2         4           Lambsquarters,         Common c         —         2         4 </td <td></td> <td></td> <td>2</td> <td>2</td> <td>4</td>			2	2	4
Crotalaria, Showy         —         4         4         6           Croton, Tropic         —         2         2         4           Cucumber, volunteer         —         4         4         6           Eclipta         —         2         2         4           Groundcherry, Cutleaf         —         4         4         6           Hemp b         —         —         4         6         6           Horsenettle b         —         —         4         6         6         6         8           Lambsquarters         —         2         4         6         8         8         Ladysthumb         —         2         2         4         6         8         Ladysthumb         —         2         2         2         4         6         8         Ladysthumb         —         2         2         2         4         4         6         8         Ladysthumb         —         2         2         2         4         4         6         8         Ladysthumb         —         2         2         2         2         2         2         2         2         2         2         2		_			
Croton, Tropic         —         2         2         4           Cucumber, volunteer         —         4         4         6           Eclipta         —         2         2         4           Groundcherry, Cutleaf         —         4         4         6           Hemp b         —         —         4         6           Horsenettle b         —         —         4         6           Horsenettle b         —         —         4         6           Jimsonweed         2         4         6         8           Ladysthumb         —         2         2         4           Ladysthumb         —         2         2         2         2         4           Ladysthumb         —         2         2         2         2         2         2         2         2         2         2         2         2         2         2	Crotalaria, Showy	_	<b>_</b>	<del>_</del>	
Cucumber, volunteer         —         4         4         6           Eclipta         —         2         2         4           Groundcherry, Cutleaf         —         4         4         6           Hemp b         —         —         4         6           Horsenettlle b         —         —         2         3c         4c           Jimsonweed         2         4         6         8           Ladysthumb         —         2         2         4           Lambsquarters,         —         2c         2         2           Common c         —         2         2         2         2           Mexicanweed         —         2c         2c         2         2           Morningglory         —         —         4         4         6         6         Entireleaf var.         2c         2         2         2         2         4         4         6         Entireleaf var.         2c         2         2         4         4         4         4         6         Entireleaf var.         2c         2         2         4         4         4         4         4         4		_			
Eclipta         —         2         2         4           Groundcherry, Cutleaf         —         4         4         6           Hemp b         —         —         4         6           Horsenettle b         —         —         2         4c           Jimsonweed         2         4         6         8           Ladysthumb         —         2         2         2         4           Lambsquarters,         Common c         —         2         2         2         4           Lambsquarters,         Common c         —         2         4         4         4         6         6         1         1         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4<					
Groundcherry, Cutleaf         —         4         4         6           Hemp b         —         —         4         6           Horsenettle b         —         2°         3°         4°           Jimsonweed         2         4         6         8           Ladysthumb         —         2         2         2         4           Lambsquarters,         —         2         4         4         4         6         6         6         6         6         8         1         1         2         2         2         4         4         4         4         4		_			
Hemp b         —         —         4         6           Horsenettle b         —         2c         3c         4c           Jimsonweed         2         4         6         8           Ladysthumb         —         2         2         4           Lambsquarters,         —         2c         2         2           Common c         —         2c         2c         2         2           Mexicanweed         —         2c         2c         2c         2         2           Morningglory         —         4         4         6         4         4         4         6         6         1         4 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
Horsenettle b	Hemn b		<u> </u>		
Jimsonweed   2	Horsenettle b		2°	-	
Ladysthumb         —         2         2         4           Lambsquarters,         Common c         —         2         2         2           Mexicanweed         —         2c         2c         2         2           Morningglory         Cypressvine         —         4         4         6         6           Entireleaf var.         2c         2         2         4         4         6           Entireleaf var.         2c         2         2         2         4		2			
Lambsquarters,   Common c					
Common c         —         2 c         2 c         2 c           Mexicanweed         —         2 c         2 c         2 c           Morningglory         —         4         4         6           Cypressvine         —         4         4         6           Entireleaf var.         2 c         2         2         4           Ivyleaf         2 c         2         2         4           Purple Moonflower         —         2         4         4           Red (Scarlet)         —         2         2         4           Red (Scarlet)         —         2         2         4           Smallflower         —         2         2         4           Pitted (Smallwhite)         —         4         4         4           Tall (Common)         2 c         2         2         3           Palmleaf (Willowleaf)         —         2         2         2         4           Mustard, Wild         2         4         4         4           Nutsedge, Yellow         —         —         —         Suppression Or           Pigweed spp.         Amaranth, Palmer         2 c			<u></u>	<u> </u>	<u>T</u>
Mexicanweed         —         2°         2°         2           Morningglory         Cypressvine         —         4         4         6           Entireleaf var.         2°         2         2         2         4           Ivyleaf         2°         2         2         4         4           Purple Moonflower         —         2         4			2	2	2
Morningglory   Cypressvine   —     4   4   6					
Cypressvine         —         4         4         6           Entireleaf var.         2°         2         2         4           Ivyleaf         2°         2         2         4           Purple Moonflower         —         2         2         4           Red (Scarlet)         —         2         2         4           Smallflower         —         2         2         4           Pitted (Smallwhite)         —         4         4         4           Tall (Common)         2°         2         2         3           Palmleaf(Willowleaf)         —         4         4         4           Mustard, Wild         2         4         6         8           Nightshade, Black         2         4         4         4           Nutsedge, Yellow         —         —         —         Suppression One           Pigweed spp.         —         4         4         4           Amaranth, Palmer         2°         4         4         6           Amaranth, Spiny         2°         2         2         4           Redroot         2°         4         6         6			۷.	<u></u>	<u> </u>
Entireleaf var.   2°   2   2   4			1	1	6
Ivyleaf         2°         2         2         4           Purple Moonflower         —         2         4         4           Red (Scarlet)         —         2         2         4           Smallflower         —         2         2         4           Pitted (Smallwhite)         —         4         4         4           Pitted (Smallwhite)         —         4         4         4           Tall (Common)         2°°         2         2         3           Palmleaf(Willowleaf)         —         2         2         4           Mustard, Wild         2         4         6         8           Nightshade, Black         2         4         4         4           Nutsedge, Yellow         —         —         —         Suppression Or           Pigweed spp.         —         —         —         Suppression Or           Pigweed spp.         —         —         —         Suppression Or           Redroot         2°°         4         4         6           Amaranth, Spiny         2°°         2         2         4           Redroot         2°°         4         4					
Purple Moonflower         —         2         4         4           Red (Scarlet)         —         2         2         4           Smallflower         —         2         2         4           Pitted (Smallwhite)         —         4         4         4           Tall (Common)         2°         2         2         3           Palmleaf(Willowleaf)         —         2         2         4           Mustard, Wild         2         4         6         8           Nightshade, Black         2         4         4         4           Nutsedge, Yellow         —         —         —         Suppression Or           Pigweed spp.         —         —         —         Suppression Or           Pigweed spp.         —         —         —         Suppression Or           Pigweed spp.         —         —         —         Suppression Or           Redroot         2°         4         4         6           Amaranth, Spiny         2°         2         2         4           Redroot         2°         4         4         6           Smooth         2°         4         4 <td></td> <td></td> <td></td> <td></td> <td></td>					
Red (Scarlet)         —         2         2         4           Smallflower         —         2         2         4           Pitted (Smallwhite)         —         4         4         4           Tall (Common)         2°         2         2         3           Palmleaf (Willowleaf)         —         2         2         4           Mustard, Wild         2         4         6         8           Nightshade, Black         2         4         4         4           Nutsedge, Yellow         —         —         —         Suppression Or           Pigweed spp.         —         —         —         —         Suppression Or           Redroot         2°         4         4         6         6           Smooth         2°         4         4         6         6           Poinsettia, Wild         —         —         —         3         Multi-Leaf					
Smallflower         —         2         2         4           Pitted (Smallwhite)         —         4         4         4           Tall (Common)         2°         2         2         3           Palmleaf (Willowleaf)         —         2         2         4           Mustard, Wild         2         4         6         8           Nightshade, Black         2         4         4         4           Nutsedge, Yellow         —         —         —         Suppression On Supp		<del>_</del>		<u> </u>	
Pitted (Smallwhite)         —         4         4         4           Tall (Common)         2°         2         2         3           Palmleaf(Willowleaf)         —         2         2         4           Mustard, Wild         2         4         6         8           Nightshade, Black         2         4         4         4           Nutsedge, Yellow         —         —         —         Suppression Or           Pigweed spp.         —         —         —         —         Suppression Or           Pigweed spp.         —		<del>_</del>			
Tall (Common)         2°         2         2         3           Palmleaf(Willowleaf)         —         2         2         4           Mustard, Wild         2         4         6         8           Nightshade, Black         2         4         4         4           Nutsedge, Yellow         —         —         —         Suppression Or Suppre		<del>_</del>			
Palmleaf(Willowleaf)         —         2         2         4           Mustard, Wild         2         4         6         8           Nightshade, Black         2         4         4         4           Nutsedge, Yellow         —         —         —         Suppression Or Suppression O		<u> </u>			
Mustard, Wild         2         4         6         8           Nightshade, Black         2         4         4         4           Nutsedge, Yellow         —         —         —         Suppression Or Suppression		2°			
Nightshade, Black 2 4 4 4 Nutsedge, Yellow — — — — Suppression Or Pigweed spp.  Amaranth, Palmer 2 <sup>c</sup> 4 4 6 Amaranth, Spiny 2 <sup>c</sup> 2 2 2 4 Redroot 2 <sup>c</sup> 4 6 6 Smooth 2 <sup>c</sup> 4 4 6 Poinsettia, Wild — — — 3 Purslane, Common — Multi-Leaf Multi-Leaf 6" Diameter 6" Diameter  Pusley, Florida — — — 2					
Nutsedge, Yellow———Suppression OrPigweed spp.——446Amaranth, Palmer2c446Amaranth, Spiny2c224Redroot2c466Smooth2c446Poinsettia, Wild———3Purslane, Common—Multi-Leaf 6" DiameterMulti-Leaf 6" DiameterMulti-Leaf 6" DiameterPusley, Florida———2					
Pigweed spp.         Amaranth, Palmer         2c         4         4         6           Amaranth, Spiny         2c         2         2         4           Redroot         2c         4         6         6           Smooth         2c         4         4         6           Poinsettia, Wild         —         —         —         3           Purslane, Common         —         Multi-Leaf         Multi-Leaf         Multi-Leaf           6" Diameter         6" Diameter         8" Diameter           Pusley, Florida         —         —         2		2	4	4	· · · · · · · · · · · · · · · · · · ·
Amaranth, Palmer         2c         4         4         6           Amaranth, Spiny         2c         2         2         4           Redroot         2c         4         6         6           Smooth         2c         4         4         6           Poinsettia, Wild         —         —         —         3           Purslane, Common         —         Multi-Leaf         Multi-Leaf         Multi-Leaf           6" Diameter         6" Diameter         8" Diameter           Pusley, Florida         —         —         2		<del>_</del>		<del>-</del>	Suppression Unly
Amaranth, Spiny         2c         2         4           Redroot         2c         4         6         6           Smooth         2c         4         4         6           Poinsettia, Wild         —         —         —         3           Purslane, Common         —         Multi-Leaf         Multi-Leaf         Multi-Leaf           6" Diameter         6" Diameter         8" Diameter           Pusley, Florida         —         —         2		••			
Redroot         2c         4         6         6           Smooth         2c         4         4         6           Poinsettia, Wild         —         —         —         3           Purslane, Common         —         Multi-Leaf         Multi-Leaf         Multi-Leaf           6" Diameter         6" Diameter         8" Diameter           Pusley, Florida         —         —         2		2 <sup>c</sup>			
Smooth2c446Poinsettia, Wild———3Purslane, Common—Multi-Leaf 6" DiameterMulti-Leaf 6" DiameterMulti-Leaf 8" DiameterPusley, Florida———2					
Poinsettia, Wild — — 3 Purslane, Common — Multi-Leaf Multi-Leaf Multi-Leaf 6" Diameter 6" Diameter Pusley, Florida — — 2					
Purslane, Common — Multi-Leaf Multi-Leaf Multi-Leaf 6" Diameter 6" Diameter 8" Diameter Pusley, Florida — — 2		2 <sup>c</sup>	4	4	
Pusley, Florida — 6" Diameter 6" Diameter 8" Diameter 2		<u> </u>		_	
Pusley, Florida — — 2	Purslane, Common	<del></del>			
Pusley, Florida — — 2			6" Diameter	6" Diameter	8" Diameter
			_	_	
	Ragweed, Common	2	4	4	6
Ragweed, Giant b — 4 4			<u> </u>	4	
Redweed — — 3 <sup>c</sup>	Redweed		<del></del>	<u> </u>	
Sesbania, Hemp — 6 6 12	Sesbania, Hemp		6	6	
Sicklepod — — Cotyledon <sup>c</sup>			<del></del>		
Sida, Prickly — — Cotyledon <sup>c</sup>					
Smartweed,					
Pennsylvania 2 <sup>c</sup> 4 4 6		2 <sup>c</sup>	4	4	6
Smellmelon — — 2		<u> </u>	<u> </u>	<u> </u>	
Spurge, Prostrate — — 1" Diameter <sup>c</sup>	Spurge, Prostrate	_	_	_	1" Diameter <sup>c</sup>

#### Table 2. cont'd.:

	Top Gun Herbicide Rate (Pt/A)  Maximum Growth Stage Controlled At			
Weed	0.75 Pt/A No. of True Leaves	1.0 Pt No. of True Leaves	1.25 Pt No. of True Leaves	1.50 Pt No. of True Leaves
Spurge, Spotted	_	_	_	2 <sup>c</sup>
Starbur, Bristly	<del></del>	2	2	4
Sunflower, Common	<del></del>	_	_	2
Velvetleaf b	_	_	2	4
Venice Mallow	2	4	4	6
Waterhemp, Common	2 <sup>c</sup>	2	2	4
Waterhemp, Tall	2 <sup>c</sup>	2	2	4
Witchweed	_	Multi-Leaf Up to 7"	Multi-Leaf Up to 7"	Multi-Leaf Up to 10"
Yellow Rocket	2	4	6	6

<sup>\*</sup> Partial control means significant activity but not always at a level considered acceptable for commercial weed control.

#### SPECIAL USE DIRECTIONS FOR ADDITIONAL WEED PROBLEMS

#### Partial Control\* of Annual Grasses

The grasses listed below may be partially controlled by preemergence applications of Top Gun Herbicide at 1.0 to 1.5 pints per acre.

Crabarass Panicum, Texas Goosegrass Signalgrass, broadleaf

The grasses listed below may be partially controlled by postemergence applications of Top Gun Herbicide at 1.0

to 1.5 pints per acre.

Barnvardgrass Foxtail (Giant, Green, Yellow) Panicum, Fall Signalgrass, broadleaf Goosegrass Panicum. Texas

Crabgrass Johnsongrass, Seedling

#### Partial Control\* of Perennial Weeds

Use of Top Gun Herbicide postemergence at rates of 1.0 to 1.5 pints per acre will aid in suppressing the aboveground portions of the weeds listed below until crop canopy can assist in suppression. Perennial weeds continue to regrow from underground rootstocks even if aboveground foliage is temporarily controlled or retarded. Even though Top Gun Herbicide and crop competition can suppress perennial weeds for a growing season, the rootstocks will continue to live and reestablishment will occur in subsequent years.

Milkweed (Climbing & Honeyvine) Bindweed (Field & Hedge) Trumpetcreeper

#### **CROP USE DIRECTIONS**

#### COTTON

#### **Preemergence Application to Coarse-Textured Soils**

Apply Top Gun Herbicide preemergence at 1.0 to 1.5 pints per acre in cotton for control or partial control of the weeds listed in Table 1. Apply as a preemergence treatment only to coarse textured soils (sandy loam, loamy sand, sandy clay loam). **Do not** apply as a preemergence treatment to medium or fine-textured soils as crop injury will likely occur.

<sup>&</sup>lt;sup>a</sup> Do not apply in cotyledon stage.

b For effective control of this weed, it is necessary to use 1% MSO and 2.5% UAN v/v as an adjuvant in Regions 2 and 3 (soybeans only).

<sup>&</sup>lt;sup>c</sup> Partial control.

<sup>\*</sup>Partial control means significant activity but not always at a level considered acceptable for commercial weed control.

## TOP GUN HERBICIDE® HERBICIDE EPA REG. NO. 34704-1058

#### **Preplant Surface Application to Medium or Fine-Textured Soils**

Apply Top Gun Herbicide at 1.0 pint per acre as a preplant surface application to medium or fine-textured soils (i.e., soil types heavier than coarse-textured soils) up to 21 days prior to planting cotton. Apply after the last tillage operation is completed. Refer to Table 1 for a list of weeds controlled or partially controlled. Do not exceed 1.0 pint per acre of Top Gun Herbicide on medium or fine-textured soils. Also, to avoid severe crop injury, the following directions must be followed when application is made to medium or fine-textured soils:

- After Top Gun Herbicide application, a minimum of 0.5 inch of rainfall or overhead irrigation must occur before planting cotton.
- Cotton must be planted at least 0.75 inch in depth.
- Avoid overlapping spray swaths.
- Do not disturb or re-work the seedbed following application.

The use of an in-furrow or seed applied fungicide will generally assist with seedling establishment and development.

Cotton plants are tolerant to preemergence applications of Top Gun Herbicide when applied at directed rates and to coarse textured soil types. Some crinkling or spotting of cotton foliage or stunting may occur, especially if heavy rainfall occurs during or soon after cotton emergence, but cotton plants normally outgrow these effects and develop normally.

Cotton foliage is not tolerant to Top Gun Herbicide. Do not apply Top Gun Herbicide over the top of emerged cotton as unacceptable cotton injury will occur.

#### Top Gun Tank Mixes for Preplant Surface or Preemergence Application

To broaden the weed control spectrum, Top Gun Herbicide may be tank mixed with other preemergence herbicides such as Caparol®, Cotoran®, Direx®, Karmex®, Solicam®, or Staple®. For control of emerged weeds, Top Gun Herbicide may be tank mixed with a burndown herbicide such as dicamba, Gramoxone® brands or glyphosate brands (such as Mad Dog Plus®, Makaze®, Roundup®, and Touchdown®) labeled in cotton. Refer to the tank-mix partner label for use directions, restrictions and limitations. The most restrictive product labeling applies.

#### Post-Directed Application (All Soil Types)

Apply Top Gun Herbicide in emerged cotton as a post-directed treatment using precision post-directed, hooded or shielded application equipment to provide complete coverage of emerged weeds. Apply Top Gun Herbicide at 1.0 to 1.5 pints per acre in a minimum of 10.0 gallons spray solution per acre. Applications may be made broadcast or banded. Post-directed applications of Top Gun Herbicide will provide contact control of labeled emerged weeds and residual preemergence control of labeled weeds (once activated by rainfall or irrigation). Refer to **Weeds Controlled** section for a list of weeds controlled, directed application rates, weed growth stages, and application directions.

Top Gun Herbicide should be applied with a non-ionic surfactant at 0.25 to 0.5% v/v, or crop oil concentrate at 1% v/v to emerged weeds. Do not add liquid nitrogen (28% or similar) to Top Gun Herbicide, or Top Gun Herbicide tank mixes in cotton. To broaden the weed control spectrum, post-directed applications of Top Gun Herbicide may be tank mixed with other labeled post-directed herbicides such as Caparol, DSMA, Direx, Dual II MAGNUM®, Envoke®, Karmex, Layby™ Pro, MSMA, Sequence®, or Suprend®. When applied with hooded or shielded sprayers, Top Gun Herbicide and Top Gun Herbicide tank mixes may be applied with burndown products such as Gramoxone Inteon, Sequence or glyphosate brands (such as Mad Dog Plus®, Makaze®, Roundup®, Touchdown®) labeled for in crop application in cotton. Refer to the tank mix partner label for use directions, restrictions and limitations. The most restrictive product labeling applies.

Cotton foliage is not tolerant to Top Gun Herbicide applications. Avoid contact to cotton foliage as unacceptable injury will occur. Application equipment should be calibrated (spray pressure, nozzle type and configuration, and orifice size) to avoid fine spray droplets contacting green cotton stems and foliage.

#### **Post-Directed Application Timing in Cotton**

Top Gun Herbicide may be applied to cotton at least 6 inches in height through layby as a post-directed application. All post-directed applications should avoid spray contact with any green non-barked parts of the cotton plant or foliage as unacceptable injury will occur. Follow the application timing directions below for post-directed applications in cotton.

#### **Shield and Hooded Applications**

Make a precision post-directed Top Gun Herbicide application to the base of the cotton plant avoiding contact with the cotton stem or foliage when cotton is at least 6 inches in height to avoid cotton injury. Use only hooded or shielded spray equipment to apply Top Gun Herbicide in cotton that is 6 inches to 12 inches in height. Adjust nozzles to provide full coverage of emerged target weeds.

#### **Layby Applications**

Make a post-directed Top Gun Herbicide application to the base of the cotton plant avoiding contact with any non-barked portion of the cotton plant or foliage. Use precision post-directed equipment or hooded or shielded sprayers on cotton that has developed a minimum of 4 inches of brown bark through layby. Application equipment should be configured to provide full coverage of emerged target weeds.

#### **Product Use Restrictions - Cotton**

Do not apply Top Gun Herbicide later than 70 days before harvest.

Do not make more than one application of Top Gun Herbicide per year.

Do not apply more than 1.5 pints per acre of Top Gun Herbicide in any year.

Do not apply more than 1.0 pint per acre of Top Gun Herbicide as a preplant surface application to medium or fine-textured soils.

**Special Use Directions for the Suppression of Woollyleaf Bursage (Lakeweed)**, *Ambrosia grayi*, in Texas Apply Top Gun Herbicide to cultivated areas of cropland in the fall or spring as a spot treatment at a rate of 1.5 pints per acre and incorporate to a depth of 2 to 3 inches for suppression of woollyleaf bursage. Applications should be made with ground equipment.

The use of adjuvants, as specified under the **Spray Additives** section, will significantly improve the initial burndown of any emerged woollyleaf bursage, but this effect is only temporary. Therefore, an adjuvant may be used if desired, but is not necessary.

Significant suppression may not be seen until 6 to 8 months after application, but should then continue for at least 2 years after application. Cotton or soybeans may be planted in treated areas. Under certain conditions, significant damage may occur to cotton planted within 18 months of application. A 3-year interval from last application to planting is required for all other crops.

If 2 consecutive year applications are made, allow a 2-year interval before another application.

#### DRY BEANS AND SNAP BEANS

**Preplant Surface and Preemergence Application:** Apply Top Gun Herbicide as a preplant surface or preemergence application in Regions 1, 2, 3, and 4 only for control or partial control of the weeds listed in Table 1. Top Gun Herbicide can be applied alone, or tank mixed or followed sequentially with other labeled dry bean or snap bean herbicides to broaden the weed control spectrum or control newly emerged weeds. Refer to the **Tank Mix and Sequential Application** section for additional information.

**NOTE:** Treated soil that is splashed onto newly emerged seedings may result in temporary crop injury but plants normally outgrow these effects and develop normally.

#### **Postemergence Application**

Apply as a postemergent broadcast application in Regions 1, 2, 3, 4 and 5 for control or partial control of the weeds listed in Table 2 and in the **Special Use Directions For Additional Weed Problems** section. Application rate depends on weed species and growth stage. Two applications may be made if necessary but not to exceed the maximum rate specified per geographic region. (Refer to **Regional Boundaries/Definition** section of this label for Definition of Specified Geographic Regions). Refer to the **Spray Additives** section for recommended spray additives. Use of crop oil concentrate can improve weed control but may slightly reduce crop tolerance. Do not use UAN (28% or similar) or ammonium sulfate on dry beans or snap beans as severe crop injury may occur. Apply when dry beans or snap beans have at least one fully expanded trifoliate leaf.

Top Gun Herbicide can be applied alone or in tank mix with other labeled dry bean or snap bean postemergence herbicides to broaden the weed control spectrum. Refer to the **Tank Mix and Sequential Application** section. Some bronzing, crinkling or spotting of dry bean or snap bean leaves may occur following postemergent applications, but dry beans and snap beans soon outgrow these effects and develop normally.

#### Tank Mix and Sequential Applications for Dry Beans and Snap Beans

Top Gun Herbicide can be used sequentially or in tank mix with the following products:

<u>Dry Beans and Snap Beans</u> - Assure® II, Basagran®, Dual II MAGNUM, Eptam®, Poast®, Prowl®, Stealth®, Pursuit®, Raptor®, or Treflan®.

<u>Dry Beans Only</u> - Select®, Slider®, Sonalan®

Under certain conditions, the mixture of Top Gun Herbicide with one or more of the above mentioned broadleaf herbicides may cause a reduction in activity of any postemergence grass herbicide in the mixture.

For sequential applications allow 2 to 3 days after the application of the postemergence grass herbicide before applying or Top Gun Herbicide mixtures. Where Top Gun Herbicide or the Top Gun Herbicide mixture is applied first, apply the grass herbicide when the grass weeds begin to develop new leaves (generally around 7 days).

**NOTE:** Tank mix applications can result in increased crop injury as compared to either product used alone.

Always read and follow the directions, restrictions and limitations for all products whether used alone, sequentially or in a tank mix. The most restrictive labeling of any product used applies.

#### **Product Use Restrictions – Dry Beans and Snap Beans**

- Refer to **Regional Boundaries/Definition** section of this label for the maximum rate of Top Gun Herbicide (or other fomesafen containing products) that may be applied in each geographic region.
- Do not apply to any field in Regions 2, 3, 4 or 5 more than once every 2 years.
- For snap beans: Do not exceed 1.5 pints of Top Gun Herbicide per acre in any one year and also adhere to the maximum rate that may be applied in each geographic region (refer to the **Regional Boundaries/ Definition** section of this label). Do not graze treated areas or harvest for forage or hay. Do not utilize hay or straw for animal feed or bedding. Do not apply within 30 days of harvest.
- For dry beans: Do not exceed 1.5 pints of Top Gun Herbicide per acre in any one year and also adhere to the maximum rate that may be applied in each geographic region (See **Regional Boundaries/Definition** section of this label). Do not graze animals on green forage or stubble. Do not utilize hay or straw for animal feed or bedding. Do not apply within 45 days of harvest.

#### **POTATOES**

Apply Top Gun Herbicide at 1.0 pint per acre as a broadcast preemergence application after planting but before potato emergence for control or partial control of weeds listed in Table 1.

Effectiveness will be reduced if later cultural practices expose untreated soil. For application by center pivot irrigation, see the Center Pivot Irrigation Application section of this label.

Note: Potato varieties may vary in their response to Top Gun Herbicide. When using Top Gun Herbicide for the first time on a particular variety, always determine crop tolerance before using.

#### Tank Mixtures with Other Products Registered for Use in Potatoes

For preemergence applications in potatoes, Top Gun Herbicide may be tank mixed with other pesticide products registered for use in this way and timing in potatoes. Follow the directions for use, observe the stated precautions, and abide by the limitations and restrictions on the most restrictive of the product labels. If you have no previous experience mixing these products under your conditions, perform a compatibility test before attempting large-scale mixing (see Tank Mix Compatibility Test section of this label).

#### **Product Use Restrictions – Potatoes**

- Do not exceed 1.0 pint per acre of Top Gun Herbicide per year. Refer to Top Gun Herbicide Regional Use Map for the maximum rate of Top Gun Herbicide (or other formesafen containing products) that may be applied per year or alternate year in each geographic region.
- Do not harvest potatoes treated with Top Gun Herbicide within 70 days of application.
- Do not apply Top Gun Herbicide to sweet potatoes or yams.
- Do not apply Top Gun Herbicide as a preplant incorporated application in potatoes or crop injury may occur.
- Do not apply to emerged potato plants or severe crop injury will occur.
- Do not use on potatoes in Nassau and Suffolk Counties, New York.

#### **SOYBEANS**

#### **Preplant Surface and Preemergence Application**

Apply Top Gun Herbicide as a preplant surface or preemergence application in Regions 1, 2, 3, and 4 only for control or partial control of the weeds listed in Table 1. Top Gun Herbicide can be applied alone or tank mixed or followed sequentially with other labeled soybean herbicides to broaden the weed control spectrum or control newly emerged weeds. Refer to the Tank Mix and Sequential Application section for additional information.

For control of emerged weeds, Top Gun Herbicide may be tank mixed with a burndown herbicide such as Gramoxone Inteon or glyphosate brands (such as Makaze, Mad Dog Plus, Touchdown or Roundup) labeled in soybeans. In reduced tillage plantings, Top Gun Herbicide can be applied up to 14 days prior to planting or at planting with a burndown herbicide.

#### Postemergence Application

Apply Top Gun Herbicide as a postemergence broadcast application in Regions 1, 2, 3, 4 and 5 for control or partial control of weeds listed in Table 2 and in the **Special Use Directions For Additional Weed Problems** section. Application rate depends on weed species and growth stage. Refer to the **Spray Additives** section for recommended spray additives. To enhance postemergence control of susceptible broadleaf weeds (**soybeans only**) in Regions 2, 3, 4 and 5 (see **Regional Boundaries/Definition** section of this label), Top Gun Herbicide can be used with a minimum of 2.5% liquid nitrogen (28% or similar) or a minimum of 10.0 pounds ammonium sulfate per 100 gallons of spray volume.

Top Gun Herbicide can be applied alone or in combination with other labeled soybean postemergence herbicides to broaden the weed control spectrum. Refer to the **Tank Mix and Sequential Application** section. Some bronzing, crinkling or spotting of soybean leaves may occur following postemergent applications, but soybeans soon outgrow these effects and develop normally.

#### Tank Mix and Sequential Applications For Soybeans

Top Gun Herbicide can be used sequentially or in tank mix with one or more of the following products: Assure II, Basagran, Boundary®, Butyrac®, Classic®, Dual II MAGNUM, FirstRate®, Fusilade® DX, Fusion®, Glyphosate (such as Makaze, Mad Dog Plus, Touchdown, Roundup or Glyphomax™), Gramoxone Inteon®, Harmony® GT XP, Pursuit, Poast, Poast Plus®, Stealth, Raptor, Resource®, Intensity, Sequence, Scepter®, and Synchrony® STS®.

Under certain conditions, the mixture of Top Gun Herbicide with one or more of the above mentioned broadleaf herbicides may cause a reduction in activity of any postemergence grass herbicide in the mixture.

For sequential applications, allow 2 to 3 days after the application of the postemergence grass herbicide before applying Top Gun Herbicide or Top Gun Herbicide mixtures. Where Top Gun Herbicide or the Top Gun Herbicide mixture is applied first, apply the postemergence grass herbicide when the grass weeds begin to develop new leaves (generally around 7 days).

#### NOTE:

- Tank mix applications can result in increased crop injury as compared to either product used alone.
- **Restriction**: Do not exceed 1.0 fluid ounce of Butyrac per acre in mixture with Top Gun Herbicide.
- **Restriction:** Do not exceed 0.25 ounce per acre of Synchrony STS herbicide in the tank with labeled rates of Top Gun Herbicide on non-STS varieties.
- This tank mix can be applied postemergence to any soybean variety for additional broadleaf weed control. Refer to the Synchrony STS label for more information and crop rotation restrictions.
- Always read and follow the directions, restrictions and limitations for all products whether used alone, sequentially or in a tank mix. The most restrictive labeling of any product used applies.

#### Roundup Ready® (Glyphosate Tolerant) Soybean Tank Mixes

Top Gun Herbicide at 6.0 to 12.0 ounces per acre, can be tank mixed with glyphosate products (such as Makaze, Mad Dog Plus, Touchdown, or Roundup) that are labeled for Roundup Ready (glyphosate tolerant) soybeans for improved postemergence control of many weeds such as morningglory spp., hemp sesbania, waterhemp, and black nightshade which are known to have tolerance to glyphosate, but are susceptible to Top Gun Herbicide.

### FOLLOW THE DIRECTIONS ON THE GLYPHOSATE PRODUCT LABEL FOR THE USE OF SPRAY ADDITIVES IN THIS TANK MIX.

**Restriction:** Do not allow this tank mix to move off target as contact by even minute quantities can cause severe damage or death to any non-target vegetation.

**NOTE**: Postemergence application of this tank mix on soybean varieties which do not contain the Roundup Ready gene will result in severe crop injury or death of the soybean crop. Always read and follow the directions, restrictions and limitations for all products used. The most restrictive labeling of any product applies.

#### **Product Use Restrictions – Soybeans**

- Refer to **Regional Boundaries/Definition** section of this label for the maximum rate of Top Gun Herbicide (or other formesafen containing products) that may be applied in each geographic region. Do not apply to any field in Regions 2, 3, 4 or 5 more than once every 2 years.
- **DO NOT** exceed 1.5 pints of Top Gun Herbicide per acre in any one year and also adhere to the maximum rate that may be applied in each geographic region (refer to the **Regional Boundaries/Definition** section of this label). Do not graze treated areas or harvest for forage or hay. Do not apply within 45 days of harvest.

#### **SUCCULENT SOYBEAN (EDAMAME)**

#### **Preplant Surface and Preemergence Applications**

Apply Top Gun Herbicide at 1.0 to 1.5 pints per acre as a preplant surface or preemergence application only in Regions 1, 2, 3, and 4 in succulent vegetable soybean (edamame) or other food-grade soybeans. Refer to Table 1 for weeds controlled or partially controlled by preplant surface and preemergence applications. Refer to the Top Gun Herbicide Regional Use Map for the maximum rate that may be applied in each geographic region.

**NOTE:** Treated soil that is splashed onto newly emerged seedlings may result in temporary crop injury but plants normally outgrow these effects and develop normally.

#### **Postemergence Application**

Apply Top Gun Herbicide as a postemergence broadcast application in Regions 1, 2, 3, 4 and 5 in succulent vegetable soybean (edamame) or other food-grade soybeans. Refer to Table 2 and **Special Use Directions for Additional Weed Problems** section for weeds controlled or partially controlled by postemergence applications. Application rate depends on weed species and growth stage. Refer to the **Top Gun Herbicide Regional Use Map** for the maximum rate that may be applied in each geographic region. Apply when succulent vegetable soybean (edamame) has at least one fully expanded trifoliate leaf. Refer to the **Spray Additives** section for recommended spray additives. Use of crop oil concentrate can improve weed control but may slightly reduce crop tolerance. Do not use UAN (28% or similar) or ammonium sulfate on succulent vegetable soybean (edamame).

Some bronzing, crinkling or spotting of leaves may occur following postemergence application, but succulent vegetable soybean (edamame) soon outgrow these effects and develop normally.

## Tank Mixtures or Sequential Applications with Other Products Registered for Use in Succulent Soybean (Edamame)

Top Gun Herbicide may be tank mixed or applied sequentially with other pesticide products registered for use in succulent vegetable soybean (edamame). Always follow the directions for use, observe the stated precautions, and abide by the limitations and restrictions for all products whether used alone, sequentially or in tank mix. The most restrictive labeling of any product used applies.

A jar test is recommended prior to tank mixing to ensure Top Gun Herbicide compatibility with mixture partners (see **Tank Mix Compatibility Test** section of this label).

**NOTE:** Tank mix applications can result in increased crop injury as compared to either product used alone.

#### **Use Restrictions – Succulent Soybean (Edamame)**

- Refer to the Top Gun Herbicide Regional Use Map for the maximum rate of Top Gun Herbicide (or other fomesafen containing products) that may be applied in each geographic region.
- Do not apply to any field in Regions 2, 3, 4 or 5 more than once every two years.
- Do not exceed 1.5 pints of Top Gun Herbicide per acre in any one year and also adhere to the maximum rate that may be applied in each geographic region (refer to the **Top Gun Herbicide Regional Use Map**).
- Do not graze treated areas or harvest for forage or hay. Do not utilize hay or straw for animal feed or bedding.
- Do not apply within 30 days of harvest.

#### Aerial Spray Drift Management Spray Drift Management

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR. The interaction of many equipment and weather related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

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

- 1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor
- 2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

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

The applicator must be familiar with and take into account the information covered in the **Aerial Drift Reduction** section.

### Aerial Drift Reduction IMPORTANCE OF DROPLET SIZE

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

#### **CONTROLLING DROPLET SIZE**

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

#### **BOOM LENGTH**

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

#### APPLICATION HEIGHT

Applications must not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

#### **SWATH ADJUSTMENT**

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

#### WIND

Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application must be avoided below 2 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect spray drift.

#### TEMPERATURE AND HUMIDITY

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

#### TEMPERATURE INVERSIONS

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

#### **SENSITIVE AREAS**

The pesticide must only be applied 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 areas).

Table 3. Scientific Names of Weeds in the Top Gun Herbicide label

Table 3. Scientific Mailles of Weeds III the Top dull	חבוטונועם ומטכו
COMMON NAME	SCIENTIFIC NAME
Amaranth, Palmer	Amaranthus palmeri
Amaranth, Spiny	Amaranthus spinosus
Anoda, Spurred	Anoda cristata
Balloonvine	Cardiospermum halicacabum
Barnyardgrass	Echinochloa crus-galli
Bindweed, Field	Convolvulus arvensis
Bindweed, Hedge	Calystegia sepium
Broadleaf Signalgrass	Brachiaria platyphylla
Carpetweed	Mollugo verticillata
Citron (Wild Watermelon)	Citrullus vulgaris
Cocklebur, Common	Xanthium strumarium
Copperleaf, Hophornbeam	Acalypha ostryifolia
Copperleaf, Virginia	Acalypha virginica
Crabgrass	Digitaria spp.
Crotalaria, Showy	Crotalaria spectabilis
Croton, Tropic	Croton glandulosus
Cucumber, Volunteer	Cucumis sativas
Eclipta	Eclipta prostrata
Foxtail, Giant	Setaria faberi
Foxtail, Green	Setaria viridis
Foxtail, Yellow	Setaria glauca
Goosegrass	Eleusine indica
Groundcherry, Cutleaf	Physalis angulata
Hemp	Cannabis sativa
Horsenettle	Solanum carolinense
Jimsonweed	Datura stramonium
Johnsongrass, Seedling	Sorghum halepense
Ladysthumb	Polygonum persicaria
Lambsquarters, Common	Chenopodium album
Mexicanweed	Caperonia castaniifolia
Milkweed, Climbing	Sarcostemma cyanchoides
Milkweed, Honeyvine	Ampelamus albidus
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Table 3. Scientific Names of Weeds in the Top Gun Herbicide label cont'd

Table 3. Scientific Names of Weeds in the Top Gun	Herbicide label cont'd
COMMON NAME	SCIENTIFIC NAME
Morningglory	Ipomoea spp.
Cypressvine	Ipomoea quamoclit
Entireleaf	lpomoea hederacea var. integriuscula
lvyleaf	Ipomoea hederacea hederacea
Purple Moonflower	lpomoea turbinata
Red (Scarlet)	Ípomoea coccinea
Smallflower	Jacquemontia tamnifolia
Pitted (Smallwhite)	Ipomoea lacunosa
Tall (Common)	lpomoea purpurea
Palmleaf (Willowleaf)	Ipomoea wrightii
Mustard, Wild	Sinapis arvensis
Nightshade, Black	Solanum nigrum
Nightshade, Eastern Black	Solanum ptychanthum
Nightshade, Hairy	Solanum physalifolium
Nutsedge, Yellow	Cyperus esculentus
Panicum, Fall	Panicum dichotomiflorum
Panicum, Texas	Panicum texanum
Pigweed, Amaranth	Amaranthus palmeri
Pigweed, Redroot	Amaranthus retroflexus
Pigweed, Smooth	Amaranthus hybridus
Poinsettia, Wild	Euphorbia heterophylla
Purslane, Common	Portulaca oleracea
Pusley, Florida	Richardia scabra
Ragweed, Common	Ambrosia artemisiifolia
Ragweed, Giant	Ambrosia trifida
Redweed	Melochia corchorifolia
Sesbania, Hemp	Sesbania exaltata
Sicklepod	Senna obtusifolia
Sida, Prickly	Sida spinosa
Signalgrass, Broadleaf	Brachiaria platyphylla
Smartweed Pennsylvania	Polygonum pennsylvanicum
Smellmelon	Cucumis melo
Spurge, Prostrate	Chamaesyce humistrata
Spurge, Spotted	Chamaesyce maculata
Starbur, Bristly	Acanthospermum hispidum
Sunflower, Common	Helianthus annuus
Trumpetcreeper	Campsis redicans
Velvetleaf	Abutilon theophrasti
Venice Mallow	Hibiscus trionum
Waterhemp, Common	Amaranthus rudis
Waterhemp, Tall	Amaranthus tuberculatos
Witchweed	Striga asiatica
Yellow Rocket	Barbarea vulgaris

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING: Nonrefillable container.** Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org. If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

For packages up to 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container \( \frac{1}{4} \) 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. **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 mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. For packages greater than 5 gallons and less than 56 gallons: 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. **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 mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**For packages greater than 56 gallons:** To clean 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. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**For 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. To clean 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. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

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