



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

April 10, 2025

Matt Granahan  
mgranahan@helmagro.com  
HELM AGRO US, INC.

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment - Addition of previously approved use sites to label  
Product Name: HELMQUAT 3SL  
Admin Number: 74530-48  
EPA Receipt Date: 12/04/2024  
Action Case Number: 00638858

Dear Matt Granahan:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have questions, please contact Margaret Golembiewski via email at [golembiewski.margaret@epa.gov](mailto:golembiewski.margaret@epa.gov).

Sincerely,

*Kable Bo Davis*

Kable Bo Davis, Senior Advisor  
HB, RD  
Office of Pesticide Programs

## RESTRICTED USE PESTICIDE

### DUE TO ACUTE TOXICITY

TO BE USED BY CERTIFIED APPLICATORS ONLY – **NOT** TO BE USED BY UNCERTIFIED PERSONS WORKING UNDER THE SUPERVISION OF A CERTIFIED APPLICATOR, EXCEPT THAT UNCERTIFIED PERSONS MAY TRANSPORT CONTAINERS AS PROVIDED UNDER DIRECTIONS FOR USE.

PARAQUAT DICHLORIDE

GROUP

22

HERBICIDE

## HELMQUAT 3SL

A Weed, Grass and Harvest Aid Desiccant/ Defoliant Herbicide

### Active Ingredient

Paraquat dichloride (1,1'-dimethyl-4,4'-bipyridinium dichloride).....	43.8%
Other Ingredients.....	56.2%
Total.....	100.0%

Contains 3.0 pounds paraquat cation per gallon as 4.14 pounds paraquat dichloride salt per gallon.

Contains stench (odor) and emetic.

EPA Reg. No. 74530-48

EPA Est. No. \_\_\_\_\_

Net Contents: ... gallons

KEEP OUT OF REACH OF CHILDREN/MANTENER FUERA DEL ALCANCE DE LOS NIÑOS

## ANGER/PELIGRO

## POISON/VENENO



**ACCEPTED**

04/10/2025

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 74530-48

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.)

CORROSIVE TO SKIN AND EYES	CORROSIVO PARA LA PIEL Y LOS OJOS.
NEVER TRANSFER THIS PRODUCT INTO FOOD OR BEVERAGE CONTAINERS OR CONTAINERS NOT EXPLICITLY INTENDED FOR PESTICIDES	NUNCA TRANSFERIRA ESTE PRODUCTO A RECIPIENTES PARA COMIDA O DE BEBIDAS O RECIPIENTES NO EXPLÍCITAMENTE PREVISTOS PARA PLAGUICIDAS.
READ ENTIRE LABEL PRIOR TO USING THIS PRODUCT	LEA LA ETIQUETA COMPLETA ANTES DE USAR ESTE PRODUCTO.
IN THE CASE OF AN ACCIDENT, SEEK IMMEDIATE MEDICAL ATTENTION. SYMPTOMS ARE PROLONGED, PAINFUL, AND CAN BE FATAL	EN CASO DE ACCIDENTE, BUSQUE ATENCIÓN MÉDICA INMEDIATA. LOS SÍNTOMAS SON PROLONGADOS, DOLOROSOS, Y PUEDEN SER MORTALES.

### FIRST AID

#### Contains Paraquat, a Bipyridylium Herbicide

<b>If swallowed:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• SPEED IS ESSENTIAL. Immediate medical attention is required. If available, give an adsorbent such as activated charcoal, bentonite, or Fuller's Earth.</li><li>• Do not give anything by mouth to an unconscious person.</li><li>• Have person sip glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to by a poison control center or doctor.</li></ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance</li><li>• Call a poison control center or doctor for further treatment advice.</li><li>• The odor of this product is from the stenching agent, which has been added, not from the paraquat.</li></ul>
<b>In eyes:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for 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:** Administer either activated charcoal (100 g for adults or 2 g/kg body weight in children) or Fuller's Earth (15% solution; 1 liter for adults or 15 ml/kg body weight in children). **NOTE:** The use of gastric lavage without administration of an adsorbent has not shown any clinical benefit. Do not use supplemental oxygen. Eye splashes from concentrated material should be treated by an eye specialist after initial treatment. With the possibility of late onset corneal ulceration, it is advised that patients with paraquat eye injuries are reviewed by an eye specialist the day after first presentation. Use treatment that is appropriate for chemical burns. Intact skin is an effective barrier to paraquat, however contact with irritated or cut skin or repeated contact with intact skin may result in poisoning.

### HOTLINE NUMBERS

For Chemical Emergency call CHEMTREC at 1-800-424-9300, and for Medical Emergency call the National Poison Control Center at 1-800-222-1222.

For additional Precautionary, Handling, and Use Statements, see inside of this booklet.

<p><b>DANGER</b> - FATAL IF SWALLOWED OR INHALED. CAUSES SEVERE EYE INJURY. CORROSIVE TO SKIN.</p> <p>NEVER TRANSFER THIS PRODUCT INTO FOOD OR BEVERAGE CONTAINERS OR CONTAINERS NOT EXPLICITLY INTENDED FOR PESTICIDES.</p> <p>STORE TIGHTLY CLOSED IN ORIGINAL CONTAINER, AND IN A LOCKED PLACE AWAY FROM CHILDREN AND ANIMALS.</p> <p>NEVER USE THIS PRODUCT IN RESIDENTIAL OR PUBLIC RECREATIONAL SETTINGS (E.G. HOMES, HOME GARDENS, SCHOOLS, RECREATIONAL PARKS, GOLF COURSES, AND/OR PLAYGROUNDS).</p> <p>THIS PRODUCT IS TOXIC! AN ALERTING AGENT (ODOR) HAS BEEN ADDED TO HELP PREVENT ACCIDENTAL INGESTION.</p> <p>SEE BACK OF PRODUCT CONTAINER FOR IMPORTANT SAFETY INFORMATION.</p>	<p><b>PELIGRO</b> – MORTAL SI SE INGIERE O INHALA. CAUSA LESIONES GRAVES EN LOS OJOS. CORROSIVO PARA LA PIEL.</p> <p>NUNCA TRANSFEIERA ESTE PRODUCTO A RECIPIENTES PARA COMIDA O DE BEBIDAS O RECIPIENTES NO EXPLÍCITAMENTE PREVISTOS PARA PLAGUICIDAS.</p> <p>GUARDE BIEN CERRADO EN EL ENVASE ORIGINAL Y EN UN LUGAR CERRADO LEJOS DE NIÑOS Y ANIMALES.</p> <p>NUNCA USE ESTE PRODUCTO EN ÁREAS RESIDENCIALES O PÚBLICAS (COMO HOGARES, JARDINES, ESCUELAS, PARQUES RECREATIVOS, CAMPOS DE GOLF, O SALONES DE JUEGOS).</p> <p>¡ESTE PRODUCTO ES TÓXICO! SE HA AGREGADO UN AGENTE DE ALERTA (OLOR) PARA AYUDAR A PREVENIR SU INGESTIÓN ACCIDENTAL.</p> <p>LA PARTE POSTERIOR DEL ENVASE DEL PRODUCTO TIENE INFORMACIÓN DE SEGURIDAD IMPORTANTE.</p>
<p><b><u>CLOSED SYSTEMS USE</u></b></p> <p><b>CONTAINERS WITH CAPACITIES LESS THAN 120 GALLONS:</b> This product must only be removed from the original container with a closed transfer system. Any subsequent transfer of this product must utilize a closed transfer system. Any attempt to circumvent the closed transfer system is prohibited. Any attempt to circumvent the closed transfer system prior to complete removal of the product and rinsing of the product container as described in the STORAGE AND DISPOSAL Section of this label is prohibited.</p> <p>This product may only be applied with a manually pressurized handwand if the manually pressurized handwand equipment allows the product to be transferred into the manually pressurized handwand equipment from the original product container using a closed system as specified in the USE INSTRUCTIONS AND INFORMATION section of this label.</p> <p><b>CONTAINERS WITH CAPACITIES GREATER THAN OR EQUAL TO 120 GALLONS:</b> A closed transfer system is not required.</p>	

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** May be fatal if swallowed. Fatal if inhaled. Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin. Do not breath spray mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**IMPORTANT:** Inhalation is an unlikely route of exposure due to low vapor pressure and large spray droplet size, but mucosal irritation or nose bleeds may occur. Prolonged contact with this concentrated product can irritate your skin.

#### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers (other than mixers and loaders) must wear:**

- Long-sleeve shirt and long pants
- Chemical-resistant shoes plus socks
- Protective eyewear (goggles, face shield, safety glasses)
- Waterproof gloves, except wear chemical-resistant gloves (Barrier Laminate, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, or Viton® ≥ 14 mils gloves) when mixed with oil
- For other handlers (other than mixers and loaders): Wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any R or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters.
- For applicators: When applying to 80 acres or less in a 24-hour period, if not using an enclosed cab, applicators must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any R or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters.
- For applicators: When applying to more than 80 acres in a 24-hour period, applications must be made using an enclosed cab. Enclosed cabs must have a nonporous barrier that totally surrounds occupant and prevents contact with pesticides outside of the cab.

**Mixers and loaders must wear:**

- Long-sleeved shirt and long pants
- Chemical resistant apron
- Chemical-resistant shoes plus socks
- Waterproof gloves, except wear chemical-resistant gloves (Barrier Laminate, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, or Viton® ≥ 14 mils gloves) when mixed with oil
- NIOSH-approved particulate filtering facepiece respirator with any R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any R or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters
- Face shield

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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **ENGINEERING CONTROLS**

Handlers performing mixing and loading activities using paraquat closed systems may not reduce or modify handler PPE requirements as described in 40 CFR 170.607 of the Worker Protection Standard for agricultural pesticides.

When applying to more than 80 acres in a 24-hour period, applications must be made using an enclosed cab. Enclosed cabs must have a nonporous barrier that totally surrounds occupant and prevents contact with pesticides outside of the cab.

#### **USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash 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**

This product is toxic to wildlife. 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 cleaning equipment or disposing of equipment wash waters.

HELMQUAT 3SL is a contact herbicide that desiccates all green plant tissue. Paraquat dichloride, the active ingredient in this product is toxic to nontarget crops and plants if off-target movement occurs because it desiccates all green plant tissue. Extreme care must be taken to ensure that off-target drift is minimized to the greatest extent possible. Refer to the local and state laws, regulations, guidelines, and spray drift information contained in the "Directions for Use" section for proper application to avoid off-target movement. Do not apply under conditions

involving possible drift to food, forage, or other plantings that might be damaged or the crops thereof rendered unfit for sale, use, or consumption. Do not apply when weather conditions favor drift from treated areas. To avoid drift, do not make aerial applications during periods of thermal inversion.

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

#### PHYSICAL AND CHEMICAL HAZARDS

This product is mildly corrosive to aluminum and produces hydrogen gas which may form a highly combustible gas mixture. Do not mix or store in containers, spray tanks, nurse tanks, or such systems made of aluminum or having aluminum fittings. This product is compatible with high density polyethylene and rubber lined steel containers.

#### CERTIFIED APPLICATOR TRAINING

Applicators must complete an EPA approved paraquat training listed on the following website <https://www.epa.gov/pesticide-worker-safety/paraquat-dichloride-training-certified-applicators>. The training must be completed a minimum of every three years.

### DIRECTIONS FOR USE

#### RESTRICTED USE PESTICIDE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Read all label directions before using this product. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**DO NOT USE THIS PRODUCT IN RESIDENTIAL OR PUBLIC RECREATIONAL SETTINGS (e.g. HOMES, HOME GARDENS, SCHOOLS, RECREATIONAL PARKS, GOLF COURSES, AND/OR PLAYGROUNDS).**

#### 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 (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**REI - For all applications except cotton desiccation:** Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

**REI - For cotton desiccation applications:** Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 7 days.

If the REI and PHI for a use are different values, users are required to adhere to the longer interval.

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 shoes plus socks
- Protective eyewear
- Waterproof gloves, except wear chemical-resistant gloves (Barrier Laminate, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, or Viton® ≥ 14 mils gloves) when mixed with oil

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

**DO NOT** enter or allow others to enter the treated areas until sprays have dried. AVOID working in spray mist.

Keep all unprotected persons out of operating areas or vicinity where there may be danger of drift. Certain states may require more restrictive reentry intervals; consult your State Department of Agriculture for further information.

Persons who are not certified applicators may transport containers of paraquat that have been opened, subject to the following conditions:

- Closures have been applied by a certified applicator to all openings on the paraquat container, including tank cars, so the closures are secured against loosening and prevent any non-negligible release of paraquat from the openings.
- Each opening on portable containers containing non-negligible amounts of paraquat must have a tamper-evident device applied by a certified applicator, a one-way valve, or both for portable refillable containers used to sell or distribute pesticides.
- Containers of paraquat not permanently attached to a motor vehicle must be secured against shifting, including relative motion

between packages, within the vehicle.

- Truck drivers who are not certified applicators must not transfer paraquat or any formulation containing paraquat into or out of the container or tank car.
- Truck drivers who are not certified applicators must have no contact with or access to paraquat or any formulation containing paraquat.
- Any full or emptied portable containers of paraquat must be delivered to a certified applicator, to a secured and locked storage facility controlled by the certified applicator, or to a licensed waste disposal facility.
- A certified applicator must ensure that truck drivers understand the risks associated with paraquat, the consequences of misuse, and the conditions outlined herein.

## WEED RESISTANCE MANAGEMENT

PARAQUAT DICHLORIDE	GROUP	22	HERBICIDE
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HELMQUAT 3SL is a Group 22 herbicide based on the mode of action classification system of the Weed Science Society of America and a Group D, photosystem-I-electron diversion herbicide as classified by the Herbicide Resistant Action Committee (HRAC). Any weed population may contain or develop plants naturally resistant to HELMQUAT 3SL and other Group 22 herbicides. Weed species with natural or acquired resistance to Group 22 herbicides may eventually dominate the weed population if Group 22 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. Such resistant weed plants may not be effectively managed using Group 22 herbicides but may be effectively managed utilizing another herbicide alone or in mixtures from a different Group and/or by using cultural or mechanical practices. However, the herbicide mode of action classification by itself may not adequately address specific weeds that are resistant to specific herbicides.

Consult your local company representative, state cooperative extension agent, professional consultant or other qualified authority to determine appropriate actions for controlling specific resistant weeds.

### Weed Management Practices

Resistant populations arise when rare individual plants are uncontrolled by a normal dose of a given herbicide under normal environmental conditions. In the absence of other control measures these individuals survive, produce seed, and eventually become the dominant biotype in the field through continuous selection. The best means of reducing this selection is to use diverse weed control practices such as multiple herbicides with different mechanisms of action for the target weed, and often in combination with various mechanical and cultural practices. To minimize the occurrence of herbicide-resistant biotypes, including those resistant to Group 22 herbicides, implement the following weed management practice options that are practical to your situation. These management practices are applicable to reduce the spread of confirmed resistant biotypes (managing existing resistant biotypes) and to reduce the potential for selecting for resistance in new species (proactive resistance management). To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of HELMQUAT 3SL or other Group 22 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact HELM Agro US, Inc. [[at (toll-free number)] [or] [at (Internet site)]]].
- Use a diversified approach toward weed management focused on preventing weed seed production and reducing the number of weed seeds in the soil.
- Plant crops into fields that are as weed-free as possible and then keep them as weed-free as possible.
- Plant crop seed that is as weed-free as possible.
- Apply herbicides at application rates listed on the label when weeds are within the size range indicated on the label.



- Emphasize cultural practices that suppress weeds by using crop competitiveness.
- Use mechanical and biological weed management practices where appropriate.
- Prevent field-to-field and within-field movement of weed seed or vegetative propagules.
- Manage weed seed at harvest and after harvest to prevent a buildup of the weed seedbank.

#### **Management of Herbicide-Resistant Biotypes**

Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants by particular weed species; (3) surviving plants mixed with controlled individuals of the same species.

Appropriate testing is needed to determine if a weed is resistant to Group 22 herbicides. Contact your HELM Agro US, Inc. representative or your local State Cooperative Extension Agency to determine if resistance in any particular weed biotype has been confirmed in your area, or visit on the Internet <[www.weedresistancemanagement.com](http://www.weedresistancemanagement.com)> or [www.weedscience.org](http://www.weedscience.org).

Since the occurrence of resistant weeds is difficult to detect prior to use, HELM Agro US, Inc. accepts no liability for any losses that result from the failure of Helmquat 3SL to control resistant weeds.

**Report any incidence of repeated non-performance of this product on a particular weed to your HELM Agro US, Inc. representative, local retailer, or county extension agent.**

### **MANDATORY SPRAY DRIFT MANAGEMENT**

#### **Aerial Applications:**

- Do not release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Do not apply within 50-75 feet of a residential area. (For applications of more than 0.6 lbs cation/A, a buffer of 75 feet is required. For applications of 0.6 lbs cation/A or lower, a buffer of 50 feet is required.) Residential areas include schools, homes, playgrounds, parks, athletic fields, residential lawns, gardens, and other areas where children may be present.
- Applicators are required to use a medium or coarser droplet size (ASABE S641).
- Do not apply when wind speeds exceed 10 mph at the application site. Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Do not apply during temperature inversions.

#### **Ground Boom Applications:**

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Select nozzle and pressure that deliver medium or coarser droplet size (ASABE S572).
- Do not apply when wind speeds exceed 10 mph at the application site.
- Do not apply during temperature inversions.

### **SPRAY DRIFT ADVISORIES**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.

BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

#### **IMPORTANCE OF DROPLET SIZE**

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

#### **Controlling Droplet Size – Aircraft**

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

#### **Controlling Droplet Size – Ground Boom**

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.



- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

### **BOOM HEIGHT – Ground Boom**

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

### **SHIELDED SPRAYERS**

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

### **TEMPERATURE AND HUMIDITY**

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

### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

### **WIND**

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

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

## **PRODUCT INSTRUCTIONS AND INFORMATION**

**Formulation:** The HELMQUAT 3SL formulation contains 3 pounds of active ingredient per gallon. It has a strong nontoxic odor and contains an emetic which will cause vomiting if the product is accidentally swallowed. The strong odor is intentionally part of the formulation to help prevent accidental ingestion of HELMQUAT 3SL.

**Mode of Action:** HELMQUAT 3SL is a contact herbicide that is rapidly absorbed by green plant tissue. Once absorbed the active ingredient interacts with the photosynthetic process to produce superoxides that destroy the plant cells. HELMQUAT 3SL must be applied to green plant tissue to be effective, therefore, excellent and complete coverage of all green foliage is necessary for effective weed control and effective leaf drop, desiccation and defoliation. Activity of HELMQUAT 3SL is reduced when it is applied to drought stressed weeds, weeds with little green foliage or to the mature woody bark of trees and vines. HELMQUAT 3SL is tied up rapidly by clay soils and organic matter so it has no residual soil activity.

**Spectrum of Activity:** As a contact herbicide, HELMQUAT 3SL will control most small broadleaf and grass weeds, as well as suppress perennial weeds through the destruction of green foliage. HELMQUAT 3SL can also be used at harvest as a desiccant or defoliant.

Best weed control is achieved when HELMQUAT 3SL is applied to emerged weeds that are still small (1 to 6 inches tall). Larger weeds are more difficult to control. Allow weeds that have been grazed or mowed to grow to 2 to 4 inches tall before applying HELMQUAT 3SL. Also, during harvesting of forage or grain crops before spraying, weeds present in the field are also cut. Therefore, raise cutter bars as high as possible from the ground to cut stubble and weeds at a greater height allowing sufficient green foliage to remain for applications.

When HELMQUAT 3SL is used for control of grass cover crops or volunteer cereals, application should be made prior to tillering or after the boot stage especially with a wheat cover crop or volunteer wheat. Application of HELMQUAT 3SL between tillering and the boot stage may not provide acceptable control. HELMQUAT 3SL will not provide complete control of perennial cover crops.

**Replanting:** Rotational crops may be planted after the last application of HELMQUAT 3SL. Since HELMQUAT 3SL has no soil activity, crops planted after the last application are not affected.

**Spray Adjuvants:** It is important to always add a nonionic surfactant (NIS) or crop oil concentrate (COC) with HELMQUAT 3SL. Otherwise, reduced activity of HELMQUAT 3SL will result.

For ground applications, use a NIS containing 75% or more active ingredient at 0.125% v/v (1 pint per 100 gallons), OR use a NIS containing 50-74% active ingredient at 0.25% v/v (2 pints per 100 gallons) of finished spray volume. If a COC is used, select a nonphytotoxic COC containing 15-20% approved emulsifier at 1.0% v/v (1 pint per 100 gallons) of finished spray volume. A COC should not be used with HELMQUAT 3SL when it is applied as a cotton harvest aid.

For aerial applications, use a NIS at 0.25% v/v (2 pints per 100 gallons) of the finished spray volume. Or, use a COC at 1 pint per acre. A COC should not be used with HELMQUAT 3SL when it is applied as a cotton harvest aid.

**Weather Considerations:** Although HELMQUAT 3SL is effective under most environmental conditions, some conditions such as cool weather (below 55° F), cloudy or overcast weather will slow its activity. HELMQUAT 3SL is rapidly absorbed by plant foliage and becomes rainfast soon

after application. If rain comes 30 minutes or more after application, activity of HELMQUAT 3SL will not be affected.

**Dosage:** Specific application rates for HELMQUAT 3SL are provided below under APPLICATION INSTRUCTIONS. Always follow the specified rates listed for each use. Higher label rates should be used to control or suppress large or dense weeds. Also, when using HELMQUAT 3SL as a harvest aid, use the higher label rates when crop vegetation is dense. For broadcast application with manually pressurized handwands, do not exceed more than 0.50 lb ai/A in a minimum of 30 gallons of spray solution per acre.

**Application methods:** Application methods listed on this label are the only permissible application methods.

**Restrictions:**

- Individual applicators must not apply this product aerially to more than 350 acres in a 24-hour period, except for cotton and soybean desiccation applications. There is no acreage limit for the treatment of cotton or soybean for desiccation purposes.
- Human flaggers must not be used when making aerial applications.
- Do not apply this product by mechanically pressurized handgun or backpack sprayer. Application by manually pressurized handwand is permitted.

**Application:** Thorough coverage of target weeds is critical for good weed control since HELMQUAT 3SL is a contact herbicide. Thorough coverage is also critical for good crop desiccation and defoliation. Unacceptable weed control, desiccation or defoliation will result from poor coverage and application to large, stressed or mown weeds. Specific application instructions are provided below.

Spray volume varies with different uses. Always follow the spray volume instructions provided in the APPLICATION INSTRUCTIONS. Only minimum spray volumes are provided. Increase spray volumes to insure thorough coverage of target weeds or plants without runoff from the foliage. If a spray volume of 20 gallons of spray carrier per acre is used, target weeds should not exceed 6 inches tall.

Spray carrier selection is very important to maximize effectiveness of HELMQUAT 3SL. Always use clean water (no mud or clay), clear liquid nitrogen, or complete clear liquid fertilizers with HELMQUAT 3SL. Fertilizers or water containing clay can inactivate HELMQUAT 3SL. It is important, therefore, to never use muddy water or suspension type fertilizers containing clay as the spray carrier. Use the higher rate of HELMQUAT 3SL and surfactant when the spray carrier is a clear liquid fertilizer containing high levels of phosphate. Always use a nonionic surfactant when using liquid fertilizers such as 28% N as a spray carrier. Liquid fertilizer carriers cannot substitute for surfactant.

Nozzle selection is very important when making applications of HELMQUAT 3SL. Flat-fan nozzles provide the most effective application, whereas flood nozzles are usually not as good because they produce large uneven droplets. Inadequate coverage and reduced weed control can occur if flood nozzles are used. Only use flat-fan nozzles if the spray carrier is less than 20 gallons per acre. Information on nozzles, pressures and setup are shown in the table below.

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

When HELMQUAT 3SL is applied at less than 10 gallons of finished spray volume per acre, a drift control or spray deposition additive should be used. Refer to the additive label for use directions.

**Table 1. Application Setup\***

Nozzle Type	Maximum Size	Spray Pressure (at nozzle)	Maximum Nozzle Spacing	Direction Of Spray Pattern	Maximum Speed	Spray Overlap (at each edge)
Flat-Fan	8	30-50 psi	30"	Down	10 mph	30%
Flood	15	30-50 psi	40"	Down	10 mph	50%

\*Reduced weed control will result if nozzles, pressures or setups different from those in this table are used.

**Spot Spraying:** Sometimes it is necessary to spray small areas with labeled applications. To accomplish this, it may be necessary to mix small quantities of HELMQUAT 3SL.

If the Broadcast rate per acre for HELMQUAT 3SL Herbicide is:	Add the Following Amount of HELMQUAT 3SL Herbicide to 1 gallon of water
1.5 pints	0.33 fluid ounce
2 pints	0.375 fluid ounce
2.5 pints	0.5 fluid ounce
3 pints	0.66 fluid ounce

Always add 0.33 to 0.5 fluids ounces of NIS to each gallon of spray. During the spot spraying operation, spray plants thoroughly in order to wet the foliage, but not to the point of runoff.

### HOODED SPRAYERS AND WICK BAR APPLICATORS

This product can be used in hooded sprayers and wick bar applicators for post emergent control of escaped weeds in cotton and soybean such as pigweed and other weeds listed in the weeds controlled section of the label. This product will injure or kill any plant surface it contacts so do not allow the product to be sprayed or drip onto the crop or desirable vegetation. Care must be taken to keep hoods and wick bars in good operating condition. This product will control glyphosate resistant weeds.

USE INSTRUCTIONS: This product will control many troublesome weeds when applied under a hood or in a wick bar in a manner where the target weed is contacted and the desirable vegetation or crop is protected.

**Application methods listed on this label are the only permissible application methods.**

HOODED SPRAYERS: Apply this product at a rate of 1 pint per acre in at least 5-10 gallons of water. Use a spray surfactant of at least 80% active at a rate of 0.25% v/v, or a crop oil concentrate at 0.5% v/v. Do not allow spray to come into contact with desirable crop or vegetation. Take care to get as much coverage on the target weed as possible.

WICK BAR APPLICATORS[\*]: Apply this product thru a wick bar applicator in a solution of at least 50% v/v. Do not allow the solution to drip onto desirable vegetation. Use a surfactant of at least 80% activity at a rate of 0.25%.

[\* - Wick bar applicators are not for use in California.]

TANK MIX COMBINATIONS FOR HOODED SPRAYER APPLICATION: This product may be applied in combination with products such as those containing the Active Ingredients, prometryn, diuron, fluometuron. See the manufacturer's label for appropriate rates by weed species and weed size.

**RESTRICTIONS:** DO NOT ALLOW THESE APPLICATIONS TO CONTACT DESIRABLE VEGETATION OR CROPS. DO NOT MAKE MORE THAN 3 APPLICATIONS PER YEAR.

**Tank Mixing for Improved Burndown of Difficult Weeds and Residual Weed Control:** HELMQUAT 3SL can be tank mixed with certain other herbicides in order to obtain greater control of hard to control weeds. Best control is obtained when other photosynthetic inhibitor (PSI) herbicides are added with HELMQUAT 3SL. These herbicides will cause the activity of HELMQUAT 3SL to be slower, thus allowing it more time to distribute throughout the treated leaf. Weed control will generally be greater than when HELMQUAT 3SL is applied alone.

The following PSI herbicides may be tank mixed with HELMQUAT 3SL: atrazine, s-metolachlor, metolachlor, linuron, chlorimuron, simazine, and metribuzin.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Control of the following difficult to control broadleaf and grassy weeds will be enhanced by the addition of a PSI herbicide with HELMQUAT 3SL: barnyardgrass, broadleaf signalgrass, cheatgrass, cocklebur, fall panicum, giant ragweed, knotweed, kochia, lambsquarters, malva (cheeseweed), marestail, morningglory, Pennsylvania smartweed, perennial weeds (suppression only), prickly lettuce, sedges, tansymustard, velvetleaf and volunteer wheat. For best results, make a second application.

Improved control of perennial broadleaf weeds such as Canada thistle, bindweed, dandelion, etc. or difficult to control annual broadleaf weeds such as giant ragweed or morningglory will result when HELMQUAT 3SL is tank mixed with 2,4-D ester (low volatile), 2,4-DB, or dicamba. Reduced grass control may result if the amine formulation of 2,4-D is applied as a tank mix with HELMQUAT 3SL.

Mixing Order: When tank mixing other products with HELMQUAT 3SL the following order should be followed: (1) fill spray tank 1/2 full with clean water or other approved carriers as discussed above; (2) begin tank agitation and continue agitation throughout the mixing and spraying operations; (3) add dry formulations (WP, DF, WDG, etc.) to the tank; (4) add liquid formulations (SC, EC, L, F, etc.) to the tank; (5) add HELMQUAT 3SL to the tank; (6) add spray surfactant to the tank; and (7) fill the remainder of the spray tank. Carefully read the labels of other pesticide products for mixing directions and precautions that may be different. Tank mix compatibility testing (a.k.a., jar testing) is prohibited. For approved tank mix partners, please refer to HELM's website at: [www.XXXXXX].

## PRODUCT PRECAUTIONS AND RESTRICTIONS

Always read and follow label directions of all products. Always follow the most restrictive label language for all products whether used alone or in a tank mix. The most restrictive label language of any product used applies in tank mixtures, including all crop rotational and other crop restrictions. For [additional information on ] approved tank mix partners, please refer to HELM's website at: [www.XXXXXX].

### RESTRICTIONS:

- **Replanting:** Rotational crops can be planted immediately after the last application of HELMQUAT 3SL. Since HELMQUAT 3SL has no soil activity, crops, planted after the last application, are not affected.
- Do not graze livestock in treated fields or feed treated foliage in cotton when using HELMQUAT 3SL for a cotton harvest aid.
- Use around home gardens, schools, recreational parks, or playgrounds is PROHIBITED.
- Do not apply to soils lacking clay, i.e., peat, muck, pure sand and artificial planting media if using HELMQUAT 3SL in preplant or preemergence (to the crop) uses.
- Individual applicators must not apply this product aerially to more than 350 acres in a 24-hour period, except for cotton and soybean desiccation applications. There is no acreage limit for the treatment of cotton or soybean for desiccation purposes.
- Human flaggers must not be used when making aerial applications.
- Do not apply this product by mechanically pressurized handgun or backpack sprayer. Application by manually pressurized handwand is permitted.

**PRECAUTIONS:**

- **Equipment:** Since HELMQUAT 3SL is corrosive to aluminum, all aluminum spray equipment and aluminum aircraft structures exposed to spray solution or spray drift should be flushed with water immediately after use.
- **Dusty Leaf Surfaces:** If weed or plant leaves are extremely dusty (due to high winds, equipment tires, etc.), activity of HELMQUAT 3SL can be reduced. Avoid applying HELMQUAT 3SL in extremely dusty conditions.
- Prepare seedbeds and plantbeds well ahead of planting and treatment to permit maximum weed and grass emergence prior to treatment.
- It is advisable not disturb the soil any more than necessary during seeding or transplanting.
- Use caution when applying HELMQUAT 3SL for preplant weed control over the top of plastic mulch. Transplants may be damaged if they come in contact with treated plastic mulch. Sprinkler irrigation or rainfall may be needed to wash off the herbicide from the plastic to prevent damage to the crop
- HELMQUAT 3SL will not control or suppress broadleaf or grassy weeds that emerge after treatment.
- Unless otherwise indicated crop plants that are emerged at the time of application and contacted by sprays of HELMQUAT 3SL will be injured or killed.

**APPLICATION INSTRUCTIONS**

The following tables contain information on use patterns, rates, minimum spray volumes, preharvest intervals, and other precautions, restrictions and comments specific to each crop. Read and follow directions carefully.

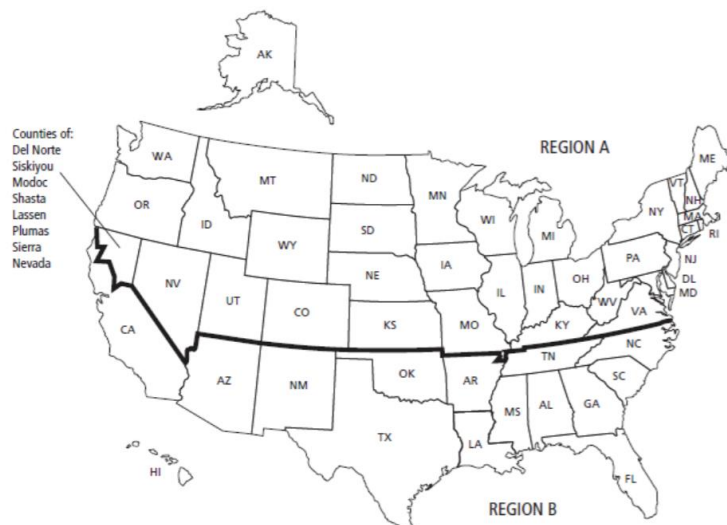
CROP	DOSAGE (RATE PER ACRE)	COMMENTS
<b>ALFALFA</b> <b>Prior to crop</b> <b>Emergence</b> Including all cultivars, varieties, and/or hybrids of these	1.3 – 2.7 pts.	<b>No-till or Conventional Planting</b> Apply by preplant, preemergence broadcast or banded over-row application in a minimum of 10 gal/A by ground or 5 gal/A by air. Seeding should be done with a minimum amount of soil disturbance. <b>Precaution:</b> • Crop plants emerged at the time of application will be killed.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 2.7 pt/A/year</li> <li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>ALFALFA</b> <b>New Seedlings</b> Including all cultivars, varieties, and/or hybrids of these [California only]	0.7 – 1.33 pts. Also see Table 2 below	During late winter or early spring, make a broadcast application using the specified rate in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. Alfalfa foliage present at the time of application will be burned; stands will be reduced and replanting may be necessary.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> Not Applicable</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A</li> <li>• <b>DO NOT</b> exceed 0.5 lb ai/A/year of paraquat-containing products for New Seedlings Grown for Hay in California Only.</li> <li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> use on seedling alfalfa grown for seed.</li> <li>• <b>DO NOT</b> make more than 1 application per year</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 70 days</li> </ul>	
<b>ALFALFA</b> <b>Preplant or</b> <b>Preemergence</b> (No-till or conventional planting) Including all cultivars, varieties, and/or hybrids of these	1.7 – 2.7 pts.	Apply preplant or preemergence either broadcast or banded over the row using the specified rate in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. Apply prior to the emergence of the crop as plants that come in contact with the spray will be killed. Seeding should be done with a minimum of soil disturbance.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 2.7 pt/A/year</li> <li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> </ul>	

	<ul style="list-style-type: none"> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>ALFALFA</b> <b>Dormant season on established planting Region A</b> <sup>1</sup> (See map and chart at end of alfalfa section for list of states in each region) Including all cultivars, varieties, and/or hybrids of these	1.3 – 2.0 pts.	Make a broadcast application using the specified rate in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. After the crop is dormant, apply to established stands (at least one year old); alfalfa present at the time of application will be burned which may reduce the yield of the first cutting. HELMQUAT 3SL controls weeds, including bluegrass, chickweed, henbit, downy brome, ryegrass, cheatgrass, dogfennel, tansymustard, London rocket, sowthistle, rescue brome, wild oats, and other winter annuals and suppresses perennial weeds. Tank mixes with metribuzin products may improve burndown of existing vegetation and improve residual control. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.0 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> Not Applicable</li> <li>• <b>Maximum Annual Rate:</b> 2.0 pt/A/year</li> <li>• <b>DO NOT</b> exceed 0.75 lb ai/A/year of paraquat-containing products for dormant applications.</li> <li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> apply in <b>Region A</b> established plantings if fall regrowth following last fall cutting is greater than 6", or if spring regrowth is more than 2".</li> <li>• <b>DO NOT</b> apply in the California counties of Orange, Riverside and all counties north of these counties if <b>spring regrowth</b> after grazing or cutting is more than 2". In all other areas within Region B, <b>DO NOT</b> apply if <b>regrowth</b> after grazing or cutting is more than 2".</li> <li>• <b>DO NOT</b> make more than one application per year.</li> <li>• <b>DO NOT</b> allow grazing in established plantings in <b>Region A</b> for 42 days.</li> <li>• <b>DO NOT</b> allow grazing in established plantings in <b>Region B</b> or to newly established stands in <b>Regions A and B</b> for 60 days</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ 42 days for <b>Region A</b> established plantings</li> <li>○ 60 days for <b>Region B</b> established plantings and newly established stands in <b>Regions A and B</b>.</li> </ul> </li> </ul>	
<b>ALFALFA</b> <b>Dormant Season Use</b>  <b>Tank Mix Product that contain the active ingredient Hexazinone Herbicide Region A</b> <sup>1</sup> Including all cultivars, varieties, and/or hybrids of these	0.7-1.3 pts. mixed with 1-2 qts. of hexazinone (2 lb/gal)	Make one broadcast application to established alfalfa stands during the dormant season using the specified rate in a minimum of 10 gallons of spray per acre by ground or 10 gallons of spray per acre by air. Use the lower rate of HELMQUAT 3SL when weeds are less than 4" tall. HELMQUAT 3SL controls weeds such as chickweed, downy brome, and tansy mustard. Use the lower rate of hexazinone on loamy sands or sandy loams. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. Temporary chlorosis may occur on alfalfa regrowth. Plant stress due to disease, insects, winterkill, frost or drought, low fertility, and overcutting may increase the chance of crop injury.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.0 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> Not Applicable</li> <li>• <b>Maximum Annual Rate:</b> 2.0 pt/A/year</li> <li>• <b>DO NOT</b> exceed 1.0 lb cation/A for a single application of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 1 application per year.</li> <li>• <b>DO NOT</b> make more than 1 application of tank mixes that contain hexazinone to established stands during the dormant season.</li> <li>• <b>DO NOT</b> apply tank mixes that contain hexazinone to alfalfa during the first season after seeding.</li> <li>• <b>DO NOT</b> apply tank mix with metribuzin on newly established (less than 1-year old) alfalfa.</li> <li>• <b>DO NOT</b> use on gravelly or rocky soils, exposed subsoils, hardpan, sand or poorly drained alkaline soils as crop injury, including mortality, may result.</li> <li>• <b>DO NOT</b> cut or harvest within 42 days of application following tank mix with products that contain hexazinone.</li> </ul>	
<b>ALFALFA</b> <b>Dormant Season Use</b>  <b>Tank Mix Products that contain the active ingredient</b>	0.7-1.3 pts. mixed with labeled rate of metribuzin	Make one broadcast application during the dormant season using the specified rate in a minimum of 10 gallons of spray per acre by ground or 10 gallons of spray per acre by air. Use the lower rate of HELMQUAT 3SL when weeds are less than 4" tall. HELMQUAT 3SL controls weeds such as chickweed, downy brome, and tansy mustard. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. Temporary chlorosis may occur on alfalfa regrowth. Plant stress due to disease, insects, winterkill, frost or drought, low fertility, and overcutting may increase the chance of crop

<b>metribuzin Herbicide</b> <b>Region A and B</b> Including all cultivars, varieties, and/or hybrids of these  <b>Fall-seeded, newly established stands less than 1-year old, Region B</b> Including all cultivars, varieties, and/or hybrids of these		injury. Tank mix for improved burndown of weed vegetation and residual weed control for established plantings in Region A (at least one year old alfalfa). <b>Precautions:</b> <ul style="list-style-type: none"> <li>Stress which may be caused in part by low fertility, disease, insects, winterkill, over cutting, drought or frost may increase the chances of crop injury.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li><b>Maximum Single Application Rate:</b> 2.0 pt/A</li> <li><b>REI:</b> 48 hours</li> <li><b>Minimum Application Interval:</b> Not Applicable</li> <li><b>Maximum Annual Rate:</b> 2.0 pt/A/year</li> <li><b>DO NOT</b> exceed 1.0 lb cation/A for a single application of paraquat-containing products for all combined uses.</li> <li><b>DO NOT</b> make more than 1 application per year.</li> <li><b>DO NOT</b> make more than 1 application of tank mixes that contain hexazinone to established stands during the dormant season.</li> <li><b>DO NOT</b> apply tank mix with metribuzin on newly established (less than 1-year old) alfalfa.</li> <li><b>DO NOT</b> use on gravelly or rocky soils, exposed subsoils, hardpan, sand or poorly drained alkaline soils as crop injury, including mortality, may result.</li> <li><b>DO NOT</b> cut or harvest within 60 days of application following tank mix with metribuzin-containing products.</li> </ul>	
<b>ALFALFA Dormant</b> Including all cultivars, varieties, and/or hybrids of these	See rate below based on geographical region	Make a broadcast application during the late fall or winter months after the last fall cutting and before the first spring cutting using the specified rate in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. HELMQUAT 3SL is used for desiccation of weeds including London rocket, sowthistle, rescue brome, wild oats, chickweed, ryegrass, bluegrass, cheatgrass, dogfennel, tansymustard, henbit, downy brome, and other winter annuals and suppression of perennial weeds. <u>In California only,</u> HELMQUAT 3SL is used for desiccation of weeds including bluegrass, ryegrass, shepherdspurse, chickweed, tansymustard, foxtail, sowthistle, and groundsel; use the higher specified rate if ryegrass, shepherdspurse, sowthistle, or groundsel are present.
<b>On established plantings: Region B<sup>2</sup></b>	0.7-1.3 pts.	Applications to alfalfa that is not dormant or has broken dormancy may result in stand reduction or yield reductions. Replanting may be necessary. Foliage present at the time of application will be burned. Tank mixes with metribuzin products may improve burndown of existing vegetation and improve residual control in dormant established alfalfa (at least 1-year old), but do not use on newly established alfalfa (less than 1-year old). When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. If there is a severe weed infestation, total hay yield of first cutting may be reduced in alfalfa fields and the reduction is typically directly proportionate to the loss of weed weight.
<b>On fall-seeded, newly established stands less than 1-year-old: Region A<sup>1</sup></b>	0.7-1.3 pts.	
<b>On fall-seeded, newly established stands less than 1-year-old: Region B<sup>2</sup></b>	0.5-0.8 pt.	
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li><b>Maximum Single Application Rate:</b> 2.0 pt/A</li> <li><b>REI:</b> 48 hours</li> <li><b>Minimum Application Interval:</b> Not Applicable</li> <li><b>Maximum Annual Rate:</b> 2.0 pt/A/year</li> <li><b>DO NOT</b> exceed 0.75 lb ai/A/year of paraquat-containing products for dormant applications.</li> <li><b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li><b>DO NOT</b> apply in <b>Region A</b> established plantings if fall regrowth following last fall cutting is greater than 6", or if spring regrowth is more than 2".</li> <li><b>DO NOT</b> apply in the California counties of Orange, Riverside and all counties north of these counties if <b>spring regrowth</b> after grazing or cutting is more than 2". In all other areas within Region B, <b>DO NOT</b> apply if <b>regrowth</b> after grazing or cutting is more than 2".</li> <li><b>DO NOT</b> make more than one application per year.</li> <li><b>DO NOT</b> allow grazing in established plantings in <b>Region A</b> for 42 days.</li> <li><b>DO NOT</b> allow grazing in established plantings in <b>Region B</b> or to newly established stands in <b>Regions A and B</b> for 60 days</li> <li><b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>42 days for <b>Region A</b> established plantings</li> <li>60 days for <b>Region B</b> established plantings and newly established stands in <b>Regions A and B</b>.</li> </ul> </li> </ul>	



## ALFALFA MAP - Regions A and Regions B



<sup>1</sup>**Region A includes:** AK, CA: (Counties of Del Norte, Siskiyou, Modoc, Shasta, Lassen, Plumes, Sierra, Nevada), CO, CT, DE, ID, IL, IN, IA, KS, KY, ME, MD, MA, MI, MN, MO, MT, NE, NV, NH, NJ, NY, ND, OH, OR, PA, RI, SD, UT, VT, VA, WA, WV, WI, WY

<sup>2</sup>**Region B includes:** AL, AZ, AR, CA: (All other counties not listed in Region A), FL, GA, HI, LA, MS, NM, NC, OK, SC, TN, TX

CROP	DOSAGE RATE PER ACRE)	COMMENTS
<b>ALFALFA</b> <b>Between cuttings treatment in established plantings</b> (includes first year alfalfa) Including all cultivars, varieties, and/or hybrids of these (All states east of the Rocky Mountains)	0.7 pt.	Apply the specified rate as a broadcast application using a minimum of 10 gallons of spray per acre by ground immediately after alfalfa has been removed for hay or silage. In arid areas where moisture is limited, when weeds beyond the seedling stage, and stubble of weeds cut off during harvest will be less affected by this treatment and control may be affected. First year alfalfa stands and yields may be reduced if alfalfa is allowed to regrow more than 2". Crop foliage present at the time of application will be burned.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 0.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> Make only one application per cutting interval.</li> <li>• <b>Maximum Annual Rate:</b> 2.0 pt/A/year</li> <li>• <b>DO NOT</b> exceed 0.75 lb ai/A/year of paraquat-containing products for between-cuttings treatment in established plantings.</li> <li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> allow grazing for 30 days after application</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 30 days for cutting or harvesting.</li> </ul>	
<b>ALFALFA</b> Including all cultivars, varieties, and/or hybrids of these (For use only in the following states: CO, ID, MT, NV, OR, UT, WA, WY)	1.7 – 2.7 pts. (for desiccation of alfalfa to facilitate harvest of alfalfa seed)	Apply the specified rate as a broadcast application in a minimum of 20-25 gallons of spray per acre by ground or 5-10 gallons of spray per acre by air. All alfalfa seed treated with HELMQUAT 3SL/diquat tank mix is to be tagged at processing plants "NOT FOR HUMAN CONSUMPTION." It shall be the grower's responsibility to notify the processing plants of any seed crop treated with HELMQUAT 3SL/diquat tank mix. Screenings from alfalfa seed processing are prohibited from feed channels. All HELMQUAT 3SL/diquat treated alfalfa seed screenings must be removed from the feed market. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. <b>PRECAUTION</b> <ul style="list-style-type: none"> <li>• Do not apply when weather conditions favor drift from the treated areas</li> </ul>
	1.3-2.7 pts. HELMQUAT 3SL = 2 pts. Diquat (2 lb/gal)	



	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 2.7 pt/A/year</li> <li>• <b>Maximum single application rate:</b> 1.0 lb cation/A (equivalent to 2.7 pts. HELMQUAT 3SL).</li> <li>• <b>Maximum annual application rate:</b> 1.0 lb cation/A (equivalent to 2.7 pts. HELMQUAT 3SL).</li> <li>• <b>DO NOT</b> exceed 1.0 lb cation/A for a single application of paraquat-containing products for all combined uses.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 4 days</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>DO NOT</b> apply by ground within 25 ft. or by air within 75 ft. of lakes; reservoirs; permanent streams, marshes, or natural ponds, estuaries; and commercial fish farm ponds.</li> <li>• <b>DO NOT</b> use on fields producing alfalfa for livestock feed; use only in fields producing alfalfa seed. No portion of the treated field (including seed, seed screenings, hay forage, or stubble) may be used for human or animal feed.</li> <li>• <b>DO NOT</b> cut current year's treated alfalfa seed crop for hay or forage.</li> <li>• <b>DO NOT</b> graze current year's treated alfalfa seed crop.</li> <li>• <b>DO NOT</b> use treated alfalfa seed for sprouting.</li> </ul>
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## ALFALFA

**Table 2. New Seedlings—Suppression and control of broadleaf weeds and grasses in new alfalfa seedlings grown for hay [CA only].**

For Control of:	Rate/Acre*	
	For Suppression	For Control
Spikeweed (4 inches tall or less)	5.4 fl. oz.	10.7-16.0 fl. oz.
Volunteer Small Grain (8 inches tall or less)	5.4-10.7 fl. oz.	21.3 fl. oz.
Fiddleneck (6 inches tall or less)	5.4-10.7 fl. oz.	21.3 fl. oz.
Shepherdspurse	10.7-21.3 fl. oz.	-
Annual Bluegrass	—	10.7-21.3 fl. oz.
Chickweed	—	10.7-21.3 fl. oz.
Red Maids (6 inches tall or less)	—	10.7-21.3 fl. oz.

\*Do not use the 5.4 fl. oz. rate unless the alfalfa has at least 3 trifoliate leaves; do not use the 10.7 fl. oz. rate unless the alfalfa has 6 trifoliate leaves; or do not use rates over 10.7 fl. oz. unless there are 9 trifoliate leaves.

CROP	DOSAGE (RATE PER ACRE)	COMMENTS
<b>ALMONDS</b> Including all cultivars, varieties, and/or hybrids of these	0.8-2.7 pts.	Apply the specified rate as a directed spray in a minimum of 10 gallons of spray per acre by ground. Use a shield or wrap the plant when spraying around young trees. Mature woody weeds, perennial weeds, late germination weeds, and green suckers may need retreatment or spot treatments.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 13.3 pt/A</li> <li>• <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 5 applications per year.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.]</li> </ul>	
<b>ARTICHOKE (GLOBE)</b> Including all cultivars, varieties, and/or hybrids of these	1.7-2.7 pts.	Apply the specified rate as a directed spray in a minimum of 20-100 gallons of spray per acre by ground. Allow an interval of 7 days between applications.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 5.3 pt/A/year</li> </ul>	

	<ul style="list-style-type: none"><li>• <b>DO NOT</b> exceed 2.0 lb ai/A/year of paraquat-containing products.</li><li>• <b>DO NOT</b> make more than 3 applications per year.</li><li>• <b>Pre-Harvest Interval (PHI):</b> 1 day</li></ul>	
<b>ASPARAGUS</b> Including all cultivars, varieties, and/or hybrids of these	1.7-2.7 pts. (preplant or preemergence)	Apply the specified rate as a preplant or preemergence application either broadcast or banded over the row in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. Plants that have emerged at the time of application will be killed. Applications should be made before crop emergence. Preemergence to established plantings at least 2 years old: Apply the specified rate prior to emergence of crop or after last harvest either broadcast or banded over the row in a minimum of 10 gallons of spray per acre by ground. Plants that have emerged at the time of application will be killed. Do not apply within 6 days of harvest.
	1.7-2.7 pts. (Preemergence to established plantings at least 2 years old)	
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"><li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li><li>• <b>REI:</b> 48 hours</li><li>• <b>Minimum Application Interval:</b> Not Applicable</li><li>• <b>Maximum Annual Rate:</b> 2.7 pt/A</li><li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products.</li><li>• <b>DO NOT</b> make more than 1 application per year.</li><li>• <b>Pre-Harvest Interval (PHI):</b> 6 days</li></ul>	
<b>BEANS AND PEAS (Succulent)</b> Lima Beans Snap Beans Peas Including all cultivars, varieties, and/or hybrids of these. [Not for use in California]	1.3-2.7 pts.	<b>Application Timing:</b> Preplant/Preemergence. Before, during or after planting but prior to crop emergence. Applications can be made as a banded or broadcast treatment. Apply in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. Use the higher rate for heavier weed infestations. Seeding or transplanting should be done with a minimum amount of soil disturbance. Can be used in fallow bed/stale seedbed for weed control alone or in tank mix.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"><li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li><li>• <b>REI:</b> 48 hours</li><li>• <b>Minimum Application Interval:</b> 7 days</li><li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li><li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products.</li><li>• <b>DO NOT</b> make more than 3 preplant/preemergence applications per year.</li><li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li></ul>	
<b>BEANS, DRY, PEAS, DRY</b> Sweet lupin, White sweet lupin, White lupin, Grain lupin, Adzuki beans, Asparagus beans, Black beans, Broad beans, Field beans, Garbanzo beans, Kidney beans, Lablab beans, [Lima beans,] Moth beans, Mung beans, Navy beans, Pinto beans, Rice beans, [Snap beans,] Tepary beans, Urd beans, Guar beans, [Blackeyed peas, Chickpeas,	0.8-1.3 pts.	Apply the specified rate as a harvest aid in a minimum of 20 gallons of spray per acre by ground or 5 gallons of spray per acre by air when the crop is mature and at least 80% of the pods are yellowing and mostly ripe with no more than 40% (bush type peas or beans) or 30% (vine type peas or beans) of the leaves still green. Add a nonionic spreader at 1 quart per 100 gallons. For vining-type beans or bush-type with lush growth, make a single application at the higher specified rate. If making a split application, do not make more than 2 applications or exceed a total of 1.3 pints per acre. The split application may improve vine coverage. Including all cultivars, varieties, and/or hybrids of these. <b>PRECAUTION</b> <ul style="list-style-type: none"><li>• Do not apply when weather conditions favor drift. Adding a drift control agent may reduce spray drift.</li></ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"><li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li><li>• <b>REI:</b> 48 hours</li><li>• <b>Minimum Application Interval:</b> 7 days</li><li>• <b>Maximum Annual Rate:</b> 1.3 pt/A harvest aid</li><li>• <b>DO NOT</b> exceed 0.5 lb ai/A/year of paraquat-containing products for harvest aid uses.</li><li>• <b>DO NOT</b> make more than 3 preplant/preemergence applications per year.</li><li>• <b>DO NOT</b> make more than 2 harvest aid applications per year.</li><li>• <b>[NOT REGISTERED FOR USE ON DRY BEANS, DRY PEAS, OR LENTILS IN CALIFORNIA.]</b></li><li>• <b>DO NOT</b> graze or harvest treated foliage for animal feed following harvest aid application</li><li>• <b>Pre-Harvest Interval (PHI):</b><ul style="list-style-type: none"><li>○ <b>Preplant/preemergence use:</b> harvest crop at normal harvest maturity</li><li>○ <b>Harvest aid use:</b> 7 days (seed only)</li></ul></li></ul>	

Cowpeas, Crowder peas, Southern peas, Catjang peas] [Not for use in California]		
<b>BERRIES</b> Blackberries, Blueberries, Boysenberries, Currant, Elderberries, Gooseberries, Huckleberries, Loganberries, Raspberries Including all cultivars, varieties, and/or hybrids of these	1.3-2.7 pts.	Apply specified rate in a minimum of 50 gallons of spray per acre by ground. Apply as a postemergence directed spray. Apply before emergence of new canes or shoots or crop injury can occur. Apply a coarse spray to avoid injury from a fine spray mist.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 2.7 pt/A</li> <li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal harvest maturity.</li> </ul>	
<b>CACAO</b> Including all cultivars, varieties, and/or hybrids of these [Not for use in California]	1.3-2.7 pts.	Apply as a directed spray in a minimum of 50-200 gallons of spray per acre by ground when the weeds are succulent and growth is from 1' - 6'. For mature woody weeds, perennial weeds, late germinating weeds, and grasses, retreatment or spot treatments may be needed but do not exceed 5 applications per year. Protect young plants with a shield to prevent spray from contacting plants as injury may result.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 5.3 pt/A</li> <li>• <b>DO NOT</b> exceed 2.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 5 applications per year.</li> <li>• <b>DO NOT</b> graze treated areas or feed treated cover crops to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 1 day</li> </ul>	
<b>CASSAVAS, YAMS</b> Including all cultivars, varieties, and/or hybrids of these [Puerto Rico only]	1.3 pts.	Apply as a shielded post directed spray in a minimum of 50 gallons of spray per acre by ground when the weeds are succulent and growth is from 1" - 6".
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> Cassava: 4.0 pt/A; Yam 2.7 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products on cassavas.</li> <li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products on yams.</li> <li>• <b>DO NOT</b> make more than 3 shielded post applications per year on cassavas.</li> <li>• <b>DO NOT</b> make more than 2 directed spray applications per year on yams.</li> <li>• <b>DO NOT</b> graze treated areas or feed treated forage to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 90 days</li> </ul>	
<b>CITRUS Fruit</b> (Calamondin, Citrus Citron, Grapefruit, Kumquat, Lemon, Lime, Mandarin, Orange (sour & sweet), Pummelo, Satsuma mandarin Including all cultivars, varieties,	1.7 – 2.7 pts.	Apply as a postemergence directed spray with a minimum ground application of 10 gallons per acre spray volume. If applied during harvest season, fallen fruit present at the time of application CANNOT be salvaged or utilized for human consumption. When used for control of mature woody weeds, perennial weeds, late germinating weeds, late germinating weeds and green suckers, retreatment or spot treatment may be necessary. HELMQUAT 3SL can be tank mixed with other herbicides labeled for use on citrus fruit applied by the same methods and at the same timings.
		<b>Precautions:</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact green stems (except suckers), or foliage.</li> <li>• Use a shield or wrap plant when spraying around young trees or vines</li> </ul>

and/or hybrids of these	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 13.3 pt/A</li> <li>• <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 5 applications per year.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at normal crop maturity.</li> </ul>	
<b>CITRUS HYBRIDS</b> (Tangelos, Tangors, Temple Orange, Clementines) Including all cultivars, varieties, and/or hybrids of these [California only]	1.7 – 2.7 pts.	Apply as a directed spray in a minimum of 10 gallons of spray per acre by ground. 10 gallons of spray volume per acre is a minimum volume only and spray volumes should be increased as necessary to obtain complete coverage of target weed or plant without runoff from the foliage. Use a shield or wrap plant when spraying around young trees. <b>Precautions:</b> <ul style="list-style-type: none"> <li>• Use a shield or wrap plant when spraying around young trees or vines.</li> <li>• Make ground applications when the wind velocity favors on target product deposition, (approximately 3-10 mph). Do not apply when wind velocity exceeds 10 mph.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 13.3 pt/A</li> <li>• <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 5 applications per year.</li> <li>• <b>DO NOT</b> apply when weather conditions favor drift from treated areas.</li> <li>• <b>DO NOT</b> apply by ground equipment within 25 ft or by air within 75 ft of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish ponds.</li> <li>• <b>DO NOT</b> apply this product through any type of irrigation system.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at normal crop maturity.</li> <li>• <b>DO NOT</b> allow spray to contact green stems (except suckers), or foliage.</li> </ul>	
<b>CHEMICAL FALLOW Information</b>	See below for specific rates depending on use site	For all chemical fallow applications, apply in a minimum of 5-10 gallons of spray per acre by air or 5-60 gallons of spray per acre by ground. If applying at less than 10 gallons per acre by ground, also follow these additional precautions: 1. Do not apply with floaters or exceed speed of 10 mph. 2. Apply with flat-fan nozzles only at 30-40 psi. 3. Apply only in a tank mix with atrazine at a minimum of 0.5 lb. a.i./acre. Use higher spray volumes for better coverage as density of stubble, crop residue, or weeds increase. To control volunteer wheat or downy brome, fall-applied treatments generally work best with HELMQUAT 3SL. If possible, tank mix with atrazine for maximum burndown and residual control. Apply from immediately after harvest up to emergence of the newly seeded crop as a broadcast or band treatment. Cut wheat as high as possible to avoid cutting weeds too short and allow the weeds to grow at least 2-3" after harvest before applying HELMQUAT 3SL. The addition of dicamba or 2,4-D ester (low volatile) may aid in the suppression of emerged perennial broadleaf weeds and large annual broadleaf weeds. Refer to 2,4-D ester (low volatile), dicamba or residual herbicide label(s) for rates. Additionally, when tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. For extended weed control during the fallow period, tank mixes with registered residual herbicide combinations other than those listed on this label are permissible. Weeds taller than 6" may not be controlled. Weeds and grasses emerging after application will not be controlled. Crop plants emerged at the time of application will be killed.

<b>CHEMICAL FALLOW</b> <b>Continuous Wheat 2-3 Month Recropping Interval</b>	Weeds 1-3": 1.3-1.7 pts. Weeds 3-6": 1.7-2.0 pts. Weeds 6": 2.0-2.7 pts.	Make a broadcast application in a minimum of 5 gallons of spray per acre by ground or air at least 45 days before seeding. For volunteer wheat or downy brome control in the spring, use at least 1.3 pints per acre with a PSI herbicide (see section of the label entitled "Tank Mixing For Improved Burndown of Difficult Weeds and Residual Weed Control" for additional details). Refer to the section above entitled "Chemical Fallow; Information" for additional instructions, restrictions, and precautions.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 5.4 pt/A</li> <li>• <b>DO NOT</b> exceed 2.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>DO NOT</b> harvest, forage, hay, or graze livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Not Applicable</li> </ul>	
<b>CHEMICAL FALLOW</b> <b>Wheat—Fallow Wheat Rotations</b> (Fall applied after harvest; seeded 12-14 months later)	Weeds 1-3": 1.3-1.7 pts. Weeds 3-6": 1.7-2.0 pts. Weeds 6": 2.0-2.7 pts.	Make a broadcast application in a minimum of 5 gallons of spray per acre by ground or air before weeds produce seed. Volunteer wheat and downy brome are best controlled with late August or early September applications. Tank mix with atrazine, dicamba or clomazone for enhanced burndown and residual weed control. Tank mixes with metribuzin products may improve burndown of existing grass and broadleaf weeds and improve residual control. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. Refer to the section above entitled "Chemical Fallow; Information" for additional instructions, restrictions, and precautions.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 5.4 pt/A</li> <li>• <b>DO NOT</b> exceed 2.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>DO NOT</b> harvest, forage, hay, or graze livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Not Applicable</li> </ul>	
<b>CHEMICAL FALLOW</b> <b>Wheat—Fallow Wheat Rotations</b> (Spring applied; seeded 3-5 months later)	Weeds 1-3": 1.3-1.7 pts. Weeds 3-6": 1.7-2.0 pts. Weeds 6": 2.0-2.7 pts.	Make a broadcast application in a minimum of 5 gallons of spray per acre by ground or air. Apply March 1 to April 15 prior to spring rains to conserve moisture. Volunteer wheat is easier to control after the boot stage, but soil moisture loss will be greater. For volunteer wheat or downy brome control in the spring, use at least 1.3 pints per acre with a PSI herbicide (see section of the label entitled "Tank Mixing For Improved Burndown of Difficult Weeds and Residual Weed Control" for additional details). Refer to the section above entitled "Chemical Fallow; Information" for additional instructions, restrictions, and precautions. Tank mixes with metribuzin products may improve burndown of existing grass and broadleaf weeds and improve residual control. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply.  Refer to the section above entitled "Chemical Fallow; Information" for additional instructions, restrictions, and precautions.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 5.4 pt/A</li> <li>• <b>DO NOT</b> exceed 2.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>DO NOT</b> harvest, forage, hay, or graze livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Not Applicable</li> </ul>	

<b>CHEMICAL FALLOW</b> <b>Wheat—Annual Crop<sup>1</sup>—Wheat Rotations</b> (Fall applied in wheat stubble)	Weeds 1-3": 1.3-1.7 pts. Weeds 3-6": 1.7-2.0 pts. Weeds 6": 2.0-2.7 pts.	Make a broadcast application in a minimum of 5 gallons of spray per acre by ground or air after wheat harvest but before weeds produce seed. If foxtail or barnyardgrass recover, respray before they seed. Late August through November applications are more effective for control of volunteer wheat and downy brome. Tank mix with atrazine or dicamba for enhanced burndown and residual weed control. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. Refer to the section above entitled "Chemical Fallow; Information" for additional instructions, restrictions, and precautions. <sup>1</sup> Approved annual crops are grain sorghum, corn, wheat, and proso millet.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 5.4 pt/A</li> <li>• <b>DO NOT</b> exceed 2.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>DO NOT</b> harvest, forage, hay, or graze livestock</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Not Applicable</li> </ul>	
<b>CHEMICAL FALLOW</b> <b>Wheat—Annual Crop—Wheat Rotations</b> (Spring applied prior to planting an annual crop <sup>1</sup> ) (See footnote in "Comments" section for list of approved crops)	Weeds 1-3": 1.3-1.7 pts. Weeds 3-6": 1.7-2.0 pts. Weeds 6": 2.0-2.7 pts.	Make a broadcast application in a minimum of 5 gallons of spray per acre by ground or air. Tank mix with atrazine for enhanced burndown and residual weed control noting the atrazine instructions regarding pH and recropping intervals. For volunteer wheat or downy brome control in the spring, use at least 1.3 pints per acre with a PSI herbicide (see section of the label entitled "Tank Mixing For Improved Burndown of Difficult Weeds and Residual Weed Control" for additional details). When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. Refer to the section above entitled "Chemical Fallow; Information" for additional instructions, restrictions, and precautions. <sup>1</sup> Approved annual crops are grain sorghum, corn, wheat, and proso millet.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 5.4 pt/A</li> <li>• <b>DO NOT</b> exceed 2.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>DO NOT</b> harvest, forage, hay, or graze livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Not Applicable</li> </ul>	
<b>CLOVER AND OTHER LEGUMES</b> <b>Nongrass Animal Feed (Forage, Feed, Straw, Hay), Crop Group 18, except Alfalfa and Kudzu</b> (See map and footnote in "Comments" section for list of approved crops) Other legumes include velvet bean, clover, lespedeza, lupine, sainfoin, trefoil, vetch, crown vetch, and milk vetch.	See rate below for specific geographical region	For dormant season application only, HELMQUAT 3SL will desiccate weeds including London rocket, sowthistle, rescue brome, wildoats, chickweed, ryegrass, bluegrass, cheatgrass, dogfennel, tansymustard, henbit, downy brome, and other winter annuals and suppression of perennial weeds. In California, this product may be used for desiccation of weeds including bluegrass, ryegrass, shepherdspurse, chickweed, tansymustard, foxtail, sowthistle, and groundsel. In California, use higher specified rate if ryegrass, shepherdspurse, sowthistle, or groundsel is present. Applications should be made in the late fall or winter months after the last fall cutting but before the first spring cutting. Applications to clover or other legumes that are not dormant or have broken dormancy may result in stand and/or yield reductions. Replanting may be necessary. Green clover or other legumes foliage present at the time of application will be burned, discolored and/or temporarily stunted. Total hay yield of first cutting may be reduced in clover or other legumes fields with severe weed infestation. This reduction will usually be directly proportionate to the loss of weed weight.
	1.3-2.1 pts. (On established plantings in Region A <sup>2</sup> )	Make a broadcast application in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. <b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.0 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> Not Applicable</li> <li>• <b>Maximum Annual Rate:</b> 2.0 pt/A</li> <li>• <b>DO NOT</b> exceed 0.75 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 1 application per year.</li> <li>• <b>DO NOT</b> apply if regrowth after grazing or cutting is more than 2".</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 60 days</li> </ul>
	0.7-1.3 pts. (On established	Make a broadcast application in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air.



plantings in Region B <sup>3</sup> )	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.0 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> Not Applicable</li> <li>• <b>Maximum Annual Rate:</b> 2.0 pt/A</li> <li>• <b>DO NOT</b> exceed 0.75 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 1 application per year.</li> <li>• <b>DO NOT</b> apply if regrowth after grazing or cutting is more than 2".</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 60 days</li> </ul>
0.7-1.3 pts. (On fall seeded newly established stands less than 1 year old in Region A <sup>2</sup> )	<p>Make a broadcast application in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air.</p> <b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.0 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> Not Applicable</li> <li>• <b>Maximum Annual Rate:</b> 2.0 pt/A</li> <li>• <b>DO NOT</b> exceed 0.75 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 1 application per year.</li> <li>• <b>DO NOT</b> apply if regrowth after grazing or cutting is more than 2".</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 60 days</li> </ul>
0.5-0.8 pts. (On fall seeded newly established stands less than 1 year old in Region B <sup>3</sup> )	<p>Make a broadcast application in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air.</p> <b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.0 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> Not Applicable</li> <li>• <b>Maximum Annual Rate:</b> 2.0 pt/A</li> <li>• <b>DO NOT</b> exceed 0.75 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 1 application per year.</li> <li>• <b>DO NOT</b> apply if regrowth after grazing or cutting is more than 2".</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 60 days</li> </ul>

#### CLOVER AND OTHER LEGUMES MAP - Regions A and Regions B



<sup>2</sup>**Region A includes:** AK, CA: (Counties of Del Norte, Siskiyou, Modoc, Shasta, Lassen, Plumes, Sierra, Nevada), CO, CT, DE, ID, IL, IN, IA, KS, KY, ME, MD, MA, MI, MN, MO, MT, NE, NV, NH, NJ, NY, ND, OH, OR, PA, RI, SD, UT, VT, VA, WA, WV, WI, WY

<sup>3</sup>**Region B includes;** AL, AZ, AR, CA: (All other counties not listed in Region A), FL, GA, HI, LA, MS, NM, NC, OK, SC, TN, TX



CROP	DOSAGE (RATE PER ACRE)	COMMENTS
<b>CORN:</b> <b>FIELD CORN</b> <b>POPCORN</b> <b>SWEET CORN</b> <b>SEED CORN</b> Including all cultivars, varieties, and/or hybrids of these (Used alone)	Weeds 1-3": 1.3-1.7 pts. Weeds 3-6": 1.7-2.0 pts. Weeds 6": 2.0-2.7 pts.	Apply preplant or preemergence either broadcast or banded over the row using the specified rate in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. Apply prior to the emergence of the crop as plants that come in contact with the spray will be killed. Seeding should be done with a minimum of soil disturbance and seedbeds should be formed as far ahead of planting and treatment as possible to permit maximum weed and grass emergence. <b>Precautions:</b> <ul style="list-style-type: none"> <li>• Weeds and grasses emerging after application will not be controlled.</li> <li>• Crop plants emerged at time of application may be severely damaged or killed.</li> </ul>
<b>CORN</b> Tank Mixes for No-Till/ Reduced Till Including all cultivars, varieties, and/or hybrids of these	Weeds 1-3": 1.3-1.7 pts. Weeds 3-6": 1.7-2.0 pts. Weeds 6": 2.0-2.7 pts.	Apply preplant or preemergence either broadcast or banded over the row using the specified rate in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. Ensure that any tank mix partners allow application by air. Apply before, during, or after planting, but prior to the emergence of the crop as plants that come in contact with the spray will be killed. For improved burndown or residual control, HELMQUAT 35L may be tank mixed with the following herbicides: 2,4-D ester (low volatile), acetochlor, atrazine, dicamba, atrazine, s-metolachlor, linuron, simazine, dimethenamid, pendimethalin, dimethenamid-p, simazine, thifensulfuron/tribenuron (Preplant Only), acetochlor. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. HELMQUAT 3SL may also be tank mixed with permethrin (insecticide) products.
		<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A               <ul style="list-style-type: none"> <li>○ <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for preplant/preemergence uses.</li> <li>○ <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> </ul> </li> <li>• <b>DO NOT</b> make more than 3 preplant/preemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest forage, ears, grain, and stover at normal maturity.</li> </ul>
<b>FIELD CORN,</b> <b>POPCORN.</b> <b>SWEET CORN.</b> <b>SEED CORN</b> Including all cultivars, varieties, and/or hybrids of these (Post-emergence directed spray)	0.7-1.3 pts.	Apply specified dosage in a minimum of 10 gallons of spray per acre by ground as a postemergence directed spray with or without a hooded or shielded sprayer. Use the higher rate on hard to control weeds; weeds 6" or more tall may not be controlled. Corn plants that come in contact with the spray may be severely damaged or may be killed, Apply when weeds are actively growing. With hooded or shielded sprayers: Use hooded or shielded sprayers with skids or wheels on the Direct the spray between the rows ensuring that the hooded or shielded spray prevents contact with corn plants. Without hooded or shield sprayers: <b>Precautions:</b> <ul style="list-style-type: none"> <li>• Severe damage and/or complete kill can occur if spray contacts corn plants.</li> <li>• To avoid excessive crop phytotoxicity, use a hooded or shielded sprayer with skids or wheels on the spray boom to maintain spray height.</li> <li>• When using a directed spray without hooded or shielded sprayers, corn plants shorter than 10" may be injured and not recover (corn height measured from soil surface to top of whorl). For corn greater than 20" tall, foliage sprayed will be injured, but the crop will recover and develop normally.</li> </ul>

	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products for postemergence uses.</li> <li>• <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 postemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at normal crop maturity.</li> </ul>	
<b>FIELD CORN, POPCORN, SEED CORN</b> Harvest Aid Including all cultivars, varieties, and/or hybrids of these	0.8-1.3 pts.	Apply specified dosage as a harvest aid broadcast application in a minimum of 20 gallons of spray per acre by ground or 5 gallons of spray per acre by air after the corn is mature. A black layer at the base of the kernels indicates maturity. Consult your local agricultural authority with help in identifying the black layer. Add nonionic surfactant containing at least 75% surface I active ingredient at 0.25% v/v. Use the higher specified rate to desiccate mature broadleaf weeds and grasses or on broadleaf weeds and grasses taller than 18". Drought stressed plants (especially broadleaf weeds) can be difficult to kill and desiccation may not be complete.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> Not Applicable</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A/year</li> <li>• <b>DO NOT</b> exceed 0.5 lb ai/A/year of paraquat-containing products for harvest aid uses.</li> <li>• <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 1 harvest aid application per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 7 days for grain and stover.</li> </ul>	
<b>FIELD CORN ONLY</b> (grain, fodder, forage) Including all cultivars, varieties, and/or hybrids of these	1.3 pts.	For use in the USDA Witchweed Eradication Program, apply specified dosage by post-emergence directed spray in a minimum of 10 gallons of spray per acre by ground. If regrowth occurs, initiate sprays in late June to early July and repeat in early August. Follow application instructions in post-emergence directed spray section above.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products for postemergence uses.</li> <li>• <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 postemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at normal crop maturity.</li> </ul>	
<b>FIELD CORN ONLY</b> (grain, fodder, forage) 2, 4-D Amine Tank Mix Including all cultivars, varieties, and/or hybrids of these	2.7 fl. oz. + 0.5 lb. 2,4-D Amine AE	For use in the USDA Witchweed Eradication Program, make applications at the specified dosage in a minimum of 10 gallons of spray per acre as a post-emergence directed spray to grassy weeds and witchweed before witchweed blooms. Reapply if regrowth occurs. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. Follow application instructions in post-emergence section above.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A <ul style="list-style-type: none"> <li>○ <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for preplant/preemergence uses.</li> <li>○ <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> </ul> </li> <li>• <b>DO NOT</b> make more than 3 preplant/preemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest forage, ears, grain, and stover at normal maturity.</li> </ul>	

CROP	DOSAGE (RATE PER ACRE)	COMMENTS
<b>COFFEE</b> <b>Postemergence</b> (Directed Spray)	1.7-2.7 pts.	Apply as a postemergence directed spray with a minimum ground application of 10 gal/A spray volume. When used for control of mature woody weeds, perennial weeds, late germinating weeds, late germinating weeds and green suckers, retreatment or spot treatment may be necessary. <b>Precautions:</b> • Do not allow spray to contact green stems (except suckers), or foliage. • Use a shield or wrap plant when spraying around young trees or vines.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 13.3 pt/A</li> <li>• <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 5 applications per year.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at normal crop maturity, but not less than 14 days after application.</li> </ul>	
<b>COTTON</b> <b>Used alone</b> Including all cultivars, varieties, and/or hybrids of these	1.7-2.7 pts.	Apply preplant or preemergence at the specified rate in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air prior to, during, or after planting but before crop emergence. For fallow bed treatment, beds should be preformed to permit maximum weed and grass emergence before an application of HELMQUAT 3SL. When seeding, a minimum amount of soil disturbance should occur.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A/year</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for preplant preemergence uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 preplant/preemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at normal crop maturity.</li> </ul>	
<b>COTTON</b> <b>Used alone</b> Including all cultivars, varieties, and/or hybrids of these [California only]	5.4-10.7 fl. oz.	Apply specified dosage in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air as a preplant application. This application is used to control volunteer barley in preformed seedbeds.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A/year</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for preplant preemergence uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 preplant/preemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at normal crop maturity.</li> </ul>	
<b>COTTON</b> <b>oxyfluorfen</b> <b>Herbicide Tank Mix</b> Including all cultivars, varieties, and/or hybrids of these	1.7-2.7 pts.	Apply specified dosage in a minimum of 10 gallons of spray per acre by ground or air as a preplant or fallow bed broadcast application. Add oxyfluorfen according to the rate on the product label. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A/year</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for preplant preemergence uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 preplant/preemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at normal crop maturity..</li> </ul>	

<b>COTTON</b> <b>Other Tank Mixes</b> Including all cultivars, varieties, and/or hybrids of these	1.7-2.7 pts.	Apply specified dosage as a preplant or preemergence broadcast spray in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air before, during, or after planting, but before crop emergence. For improved burndown and residual control, HELMQUAT 3SL may be tank mixed with the following herbicides: fluometuron, prometryn, diuron herbicides. thifensulfuron/tribenuron (Preplant Only), MSMA herbicides, norflurazon, s-metolachlor, metolachlor, pendimethalin. When <i>tank mixing</i> with fluometuron follow the mixing instructions on the respective labels and maintain constant agitation. When tank mixing, read and carefully follow all applicable <i>use</i> directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A/year</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for preplant preemergence uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 preplant/preemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at normal crop maturity.</li> </ul>	
<b>COTTON</b> <b>Post- emergence Directed Spray</b> (Hooded or Shielded)[*] Including all cultivars, varieties, and/or hybrids of these [except CA]	1.2- 1.3 pts.	Apply when weeds are actively growing and between 1 - 6" in height. If multiple applications are made, allow 14 days between applications. Use higher rate on dense populations and/or larger or hard to control weeds. Weeds 6" or taller may not be controlled. Avoid contact with crop. Intentional or accidental contact (including drift) of HELMQUAT 3SL with the crop may result in severe damage or loss of the crop. Apply by directing spray between the rows and using hooded or shielded sprayers to prevent contact with crop plants. Equipment should be in good operating condition. Avoid leakage or dripping onto crop. Variation in equipment design may affect level of weed control. Keep hoods or shields adjusted to insure adequate contact with weeds while shielding the crop from the herbicide. To minimize drift, do not use nozzles or nozzle configurations or adjuvants which produce fine spray droplets (mist). May be tank mixed with other postemergence directed herbicides When tank mixing, read and carefully follow all applicable use directions, restrictions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 14 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A/year</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products for postemergence uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 postemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul> [*Not for use in California.]	
<b>COTTON</b> <b>Postemergence Direct Spray</b> (Precision Machine Vision Directed Spray) [*] Including all cultivars, varieties, and/or hybrids of these [except CA]	0.8 - 1.3 pts.	Machine Vision (or similar precision application equipment with automated detection of weed) must be used to minimize contact with cotton. Apply when weeds are actively growing and before weeds reach 4" in height. For improved control and herbicide resistance management a tank mix HELMQUAT 3SL with prometryn, labeled for this use is advised. HELMQUAT 3SL may be tank mixed with other herbicides approved for postemergent use in cotton. AVOID CONTACT WITH COTTON CROP. Contact (including drift) of HELMQUAT 3SL with the crop may result in severe damage or death of the crop. All application equipment must be in good operating order and condition. Avoid leakage or dripping of spray onto crop. Variation in equipment design may affect level of weed control.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 14 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A/year</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products for postemergence uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 postemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul> [*Not for use in California.]	

<b>COTTON</b> <b>Harvest aid</b> Including all cultivars, varieties, and/or hybrids of these	See rate below for specific rate based on geographical region	HELMQUAT 3SL may be used as a harvest aid in cotton growing areas of the US. Repeat application if necessary, but do not exceed 4 applications per year or 1.3 pints per acre per year. This product may be tank mixed with other cotton harvest aid materials known to be effective by local experience. Unless otherwise instructed in this label, refer to tank mix product label for rates, directions, limitations, and precautions. HELMQUAT 3SL can also be applied in a tank mix with methyl parathion and/or lambda-cyhalothrin insecticides. Nodes above cracked bolls (NACB) timing is for guidance and is not intended to restrict local experience.
	5.4 fl. oz. + 1 pt. phosphate or 1 gal. chlorate (southern cotton)	Use in southern cotton to aid in the defoliation and opening of mature bolls. Tank mix with phosphate and chlorate defoliant. Apply specified dosages by broadcast application when 80% or more of the bolls are open and the remaining bolls to be harvested are mature in a minimum of 10 gallons of spray per acre by ground and 5 gallons of spray per acre by air. Use of this tank mix will inhibit the development of immature bolls. Do not apply within 7 days of harvest and grazing.
	<b>RESTRICTIONS – COTTON (Harvest Aid)</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 7 days</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A/year</li> <li>• <b>DO NOT</b> exceed 0.50 lb ai/A/year of paraquat-containing products for harvest aid uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 4 harvest aid applications per year.</li> <li>• <b>DO NOT</b> pasture livestock in treated fields or feed treated foliage.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ western cotton: 7 days</li> <li>○ all others: 3 days</li> </ul> </li> </ul>	
	2.1-3.3 fl. oz. (Southern cotton)	Use in southern cotton to aid in the defoliation and opening of mature bolls at specified rate as a broadcast application in 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. HELMQUAT 3SL may be mixed with Accelerate® defoliant, thidiazuron, ethephon and tribufos. Apply when 60% or more of the bolls are open and the remaining bolls to be harvested are mature. Development of immature bolls will be inhibited.
	<b>RESTRICTIONS – COTTON (Harvest Aid)</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 7 days</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A/year</li> <li>• <b>DO NOT</b> exceed 0.50 lb ai/A/year of paraquat-containing products for harvest aid uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 4 harvest aid applications per year.</li> <li>• <b>DO NOT</b> pasture livestock in treated fields or feed treated foliage.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ western cotton: 7 days</li> <li>○ all others: 3 days.</li> </ul> </li> </ul>	
	0.7-1.3 pts. (Southern cotton)	Use in southern cotton as a post defoliation treatment to aid in opening of mature bolls and in the desiccation of green weeds. Apply at the specified rate by broadcast application in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air when 75% or more of the bolls are open and the remaining bolls to be harvested are mature. Development of immature bolls will be inhibited. To avoid leaf sticking, apply HELMQUAT 3SL as a desiccant approximately 3-7 days after defoliation or a conditioning application. If weed infestation is heavy or dense, use the higher specified rate.
	<b>RESTRICTIONS – COTTON (Harvest Aid)</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 7 days</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A/year</li> <li>• <b>DO NOT</b> exceed 0.50 lb ai/A/year of paraquat-containing products for harvest aid uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 4 harvest aid applications per year.</li> <li>• <b>DO NOT</b> pasture livestock in treated fields or feed treated foliage.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ western cotton: 7 days</li> <li>○ all others: 3 days.</li> </ul> </li> </ul>	
	3.7-5.4 fl. oz. + phosphate or sodium chlorate and/or other compatible harvest aid products (western cotton)	Use in western cotton to aid in boll opening and for early defoliation. Use the higher specified rate on rank cotton. Early defoliation occurs when 60% or more of the bolls are open and the remaining bolls to be harvested are mature (approximately 4 NACB). Do not use more than 5.4 fluid ounces of HELMQUAT 3SL for early defoliation as excessive desiccation may occur. Development of immature bolls will be inhibited. When using sodium chlorate, do not use more than 4 lbs. of actual defoliant per acre at this early defoliation timing. Make a broadcast application minimum of 10 gallons of spray per

		acre by ground or 5 gallons of spray per acre by air. Do not graze or harvest within 7 days of application when following this schedule.
	<b>RESTRICTIONS – COTTON (Harvest Aid)</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 7 days</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A/year</li> <li>• <b>DO NOT</b> exceed 0.50 lb ai/A/year of paraquat-containing products for harvest aid uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 4 harvest aid applications per year.</li> <li>• <b>DO NOT</b> pasture livestock in treated fields or feed treated foliage.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ western cotton: 7 days</li> <li>○ all others: 3 days.</li> </ul> </li> </ul>	
	5.4-10.7 fl. oz. alone or tank mix with sodium chlorate or phosphate defoliant and/or other compatible harvest aid products (Western cotton)	For use in western cotton for boll opening and as a mid- to late-defoliation treatment. Mid- to late-defoliation timing is when 75% or more of the bolls are opening and the remaining bolls to be harvested are mature (approximately 3 or fewer NACB). Development of immature bolls will be inhibited. In desert cotton or on rank vigorous cotton, use the higher specified rate of HELMQUAT 3SL. Make a broadcast application in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air.
	<b>RESTRICTIONS – COTTON (Harvest Aid)</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 7 days</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A/year</li> <li>• <b>DO NOT</b> exceed 0.50 lb ai/A/year of paraquat-containing products for harvest aid uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 4 harvest aid applications per year.</li> <li>• <b>DO NOT</b> pasture livestock in treated fields or feed treated foliage.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ western cotton: 7 days</li> <li>○ all others: 3 days.</li> </ul> </li> </ul>	
	2.1-7.5 fl. oz. (stripper or spindle harvested)	Stripper or Spindle Harvested: Apply when 75% of the bolls are open and the remaining bolls to be harvested are mature. Make a broadcast application at the specified dosage in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air for defoliation and boll opening. It is advisable to apply the range of rates on a small block of cotton to determine the rate that best fits your environmental and plant conditions. Development of immature bolls will be inhibited. Slice bolls and inspect seed for maturity. HELMQUAT 3SL may be applied alone or tank mixed with the following cotton harvest aids: Accelerate Defoliant, tribufos, thidiazuron, or ethephon. Split applications may be made but do not exceed a total of 1.3 pints per acre. To avoid leaf sticking, apply HELMQUAT 3SL as a desiccant approximately 3-7 days after defoliation or a conditioning application and 7-14 days before harvest. Cooler temperatures may cause a longer waiting period between application of HELMQUAT 3SL as a desiccant and defoliation/conditioner. Lower rates in the range may be necessary south of 1-10 in Texas where temperatures are typically higher during defoliation.
	<b>RESTRICTIONS – COTTON (Harvest Aid)</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 7 days</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A/year</li> <li>• <b>DO NOT</b> exceed 0.50 lb ai/A/year of paraquat-containing products for harvest aid uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 4 harvest aid applications per year.</li> <li>• <b>DO NOT</b> pasture livestock in treated fields or feed treated foliage.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ western cotton: 7 days</li> <li>○ all others: 3 days.</li> </ul> </li> </ul>	
	0.7-1.3 pts. (late season desiccation)	Late season desiccation: Apply when 85% of the bolls are open and the remaining bolls to be harvested are mature. Apply specified dosage by broadcast application in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. It is advisable to apply the range of rates on a small block of cotton to determine the rate that best fits your environmental and plant conditions. Development of immature bolls will be inhibited. Slice bolls and inspect seed for maturity. Split applications may be made but do not exceed a total of 1.3 pints per acre. To avoid leaf sticking, apply HELMQUAT 3SL as a desiccant approximately 3-7 days after defoliation or conditioning. Lower rates in the range may be necessary south of 1-10 in Texas where temperatures are typically higher

		during defoliation.
	<b>RESTRICTIONS – COTTON (Harvest Aid)</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 7 days</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A/year</li> <li>• <b>DO NOT</b> exceed 0.50 lb ai/A/year of paraquat-containing products for harvest aid uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 4 harvest aid applications per year.</li> <li>• <b>DO NOT</b> pasture livestock in treated fields or feed treated foliage.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ western cotton: 7 days</li> <li>○ all others: 3 days.</li> </ul> </li> </ul>	
	0.75-1.25 pts. (desiccation of regrowth)	Apply as a broadcast application in 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. Use to desiccate regrowth occurring after defoliation or desiccation. Control is dependent on growing conditions and desiccation of small new regrowth may not always be complete. Use the higher specified rate if regrowth is excessive. Because regrowth is difficult to control, thorough coverage with the full rate is necessary.
	<b>RESTRICTIONS – COTTON (Harvest Aid)</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 7 days</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A/year</li> <li>• <b>DO NOT</b> exceed 0.50 lb ai/A/year of paraquat-containing products for harvest aid uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 4 harvest aid applications per year.</li> <li>• <b>DO NOT</b> pasture livestock in treated fields or feed treated foliage.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ western cotton: 7 days</li> <li>○ all others: 3 days.</li> </ul> </li> </ul>	
<b>CROPS</b>	<b>CROP (RATE PER ACRE)</b>	<b>REMARKS</b>
<b>COTTON Harvest aid</b> Including all cultivars, varieties, and/or hybrids of these (Texas, except in the counties of Starr, Hidalgo, Willacy, and Cameron)	2.6 to 3.4 fl. oz. (0.06 to 0.08 lb. a.i.) (for boll opening and defoliation)	<ul style="list-style-type: none"> <li>• To aid in defoliation and opening of mature bolls, HELMQUAT 3SL may be tank mixed with the following products: tribufos, Accelerate® defoliant.</li> <li>• Apply when 60% or more of the bolls are open and remaining bolls to be harvested are mature.</li> <li>• Development of immature bolls will be inhibited.</li> <li>• Refer to tank mix product label for rate, directions, limitations, and restrictions.</li> </ul> <p><b>PRECAUTION</b></p> <ul style="list-style-type: none"> <li>• Because of extremes in environmental and plant conditions, it is advisable to apply the range of rates on a small block of cotton to determine the specified rate that best fits your needs.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 7 days</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A/year</li> <li>• <b>DO NOT</b> exceed 0.50 lb ai/A/year of paraquat-containing products for harvest aid uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 4 harvest aid applications per year.</li> <li>• <b>DO NOT</b> pasture livestock in treated fields or feed treated foliage.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>• western cotton: 7 days</li> <li>• all others: 3 days.</li> </ul> </li> <li>• When combined with phosphate defoliants, observe livestock restrictions listed on the phosphate label.</li> <li>• Do not pasture lactating dairy animals.</li> </ul>	



	2.1 to 7.7 fl. oz. (0.05 to 0.18 lb. a.i.) (Late season harvest aid desiccation of stripper cotton or spindle-harvested cotton)	<ul style="list-style-type: none"> <li>• Use to desiccate regrowth occurring after defoliation or desiccation.</li> <li>• Apply when <b>85%</b> of the bolls are open and the remaining bolls to be harvested are mature.</li> <li>• Development of immature bolls will be inhibited. Slice bolls and inspect the seed for maturity.</li> <li>• To avoid leaf sticking, apply HELMQUAT 3SL as a desiccant approximately 3 to 7 days after defoliation or a conditioning application and 7 to 14 days before harvest.</li> </ul> <p>Lower rates in the range may be necessary south of I-10 in Texas where temperatures are typically higher during defoliation.</p> <p><b>PRECAUTIONS</b></p> <ul style="list-style-type: none"> <li>• When combined with phosphate defoliants, observe livestock restrictions listed on the phosphate label.</li> <li>• Because of extremes in environmental and plant conditions, it is advisable to apply the range of rates on a small block of cotton to determine the specified rate that best fits your needs.</li> </ul>
	<p><b>RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 7 days</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A/year</li> <li>• <b>DO NOT</b> exceed 0.50 lb ai/A/year of paraquat-containing products for harvest aid uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 4 harvest aid applications per year.</li> <li>• <b>DO NOT</b> pasture livestock in treated fields or feed treated foliage.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>• western cotton: 7 days</li> <li>• all others: 3 days.</li> </ul> </li> <li>• Use a minimum total spray volume per acre of 10 gallons by ground, and 5 gallons by air.</li> <li>• Do not harvest within 7 days of application if used with phosphate or chlorate defoliants.</li> </ul>	
	10.7 to 21.3 fl. oz. (0.25 to 0.50 lb. a.i.) (Desiccation of regrowth)	<ul style="list-style-type: none"> <li>• Use to desiccate regrowth occurring after defoliation or desiccation.</li> <li>• Regrowth is difficult to control, therefore, thorough coverage with the full specified rate is necessary.</li> <li>• Control is dependent upon growing condition and desiccation of small new growth may not always be complete.</li> <li>• Use higher specified rate if regrowth is excessive.</li> </ul> <p><b>PRECAUTIONS</b></p> <ul style="list-style-type: none"> <li>• When combined with phosphate defoliants, observe livestock restrictions listed on the phosphate label.</li> <li>• Because of extremes in environmental and plant conditions, it is advisable to apply the range of rates on a small block of cotton to determine the specified rate that best fits your needs.</li> </ul>
	<p><b>RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 7 days</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A/year</li> <li>• <b>DO NOT</b> exceed 0.50 lb ai/A/year of paraquat-containing products for harvest aid uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 4 harvest aid applications per year.</li> <li>• <b>DO NOT</b> pasture livestock in treated fields or feed treated foliage.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>• western cotton: 7 days</li> <li>• all others: 3 days.</li> </ul> </li> <li>• Use a minimum total spray volume per acre of 10 gallons by ground, and 5 gallons by air.</li> <li>• Do not harvest within 7 days of application if used with phosphate or chlorate defoliants.</li> </ul>	
<b>COVER CROP BURNDOWN</b> Cover crops - grass, broadleaf or mixed plantings	1.3 – 2.7 pts.	<p><b>Preplant burndown of cover crop prior to planting subsequent crop.</b></p> <p>Apply by preplant broadcast in a minimum of 15 gal/A by ground or 5 gal/A by air.</p> <p>For control of grass cover crops (especially wheat) or volunteer cereals, best results are obtained when HELMQUAT 3SL is applied prior to tillering or after boot stage.</p> <p>For broadleaf cover crops, the addition of 2,4-D or dicamba will improve burndown. Do not expect complete control of perennial cover crops.</p>

	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>See <b>PRODUCT PRECAUTIONS AND RESTRICTIONS</b> section for additional product use restrictions and succeeding crop use directions.</li> <li><b>REI:</b> 48 hours</li> <li><b>DO NOT</b> graze treated areas.</li> <li><b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> </ul>	
<b>EASTER LILIES</b> (Field grown) Including all cultivars, varieties, and/or hybrids of these	1.7-2.7 pts.	Apply preemergence in a minimum of 10 gallons of spray per acre by ground.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li><b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li><b>REI:</b> 48 hours</li> <li><b>Minimum Application Interval:</b> 7 days</li> <li><b>Maximum Annual Rate:</b> 5.4 pt/A</li> <li><b>DO NOT</b> exceed 2.0 lb ai/A/year of paraquat-containing products.</li> <li><b>DO NOT</b> make more than 2 applications per year.</li> <li><b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>FALLOW LAND</b> Prior to planting of any crops	1.0-2.7 pts.	Apply specified dosage as a broadcast application in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air for the control of weeds such as bluegrass, chickweed, henbit, downy brome, ryegrass, cheatgrass, dog fennel, tansymustard, London rocket, sowthistle, rescue brome, wild oats, volunteer cereals and other winter annuals, and for suppression of perennial weeds or sedges. Use the higher specified rate for weeds approaching the maximum size of 6". Fallow land may be between operations such as disking, ripping, plowing, leveling, irrigating or listing for ground preparation purposes. For best results, allow maximum weed emergence prior to application. Adhere to the preharvest intervals and other crop specific restrictions for planted crops elsewhere on this label.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li><b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li><b>REI:</b> 48 hours</li> <li><b>Minimum Application Interval:</b> 7 days</li> <li><b>Maximum Annual Rate:</b> 5.4 pt/A</li> <li><b>DO NOT</b> exceed 2.0 lb ai/A/year of paraquat-containing products.</li> <li><b>DO NOT</b> make more than 2 applications per year.</li> <li><b>DO NOT</b> harvest, forage, hay, or graze livestock.</li> <li><b>Pre-Harvest Interval (PHI):</b> Not Applicable</li> </ul>	
<b>FLOWERS</b> (Including all cultivars, varieties, and/or hybrids of these) Washington State only	1.3 – 2.5 pts.	<b>Prior to bulb emergence:</b> For use in Washington Only for control of annual and broadleaf weeds and grasses in tulips, narcissus and iris. Apply by ground as a broadcast spray in a minimum of 30 gal/A. When using this product in Eastern Washington, refer to the Washington State Department of Agriculture's restrictions on the use of desiccant herbicides. Apply by ground as a broadcast spray in a minimum of 30 gal/A. Add a nonionic surfactant at least 50% surface active ingredient at 1-2 pints per 100 gallons of dilute spray. It is essential to obtain complete coverage of target weeds to get adequate control.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li><b>Maximum Single Application Rate:</b> 2.5 pt/A</li> <li><b>REI:</b> 48 hours</li> <li><b>Minimum Application Interval:</b> 7 days</li> <li><b>Maximum Annual Rate:</b> 5.0 pt/A</li> <li><b>DO NOT</b> exceed 1.8 lb ai/A/year of paraquat-containing products.</li> <li><b>DO NOT</b> make more than 2 applications per year.</li> <li><b>DO NOT</b> apply this product through any type of irrigation system.</li> <li><b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>GINGER</b> (Including all cultivars, varieties, and/or hybrids of these)	1.3 – 2.7 pts.	<b>Applications:</b> <ul style="list-style-type: none"> <li><b>Preplant/Preemergence</b></li> <li><b>Before, during, or after planting but prior to crop emergence</b></li> <li><b>Postemergence (Directed Spray)</b></li> </ul> Apply as a preemergence broadcast application or as a postemergence directed spray in a minimum of 20 gal/A of spray volume.

	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 16.0 pt/A</li> <li>• <b>DO NOT</b> exceed 6.0 lb cation/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> allow spray to contact ginger plants.</li> <li>• <b>DO NOT</b> make more than 6 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ immature ginger roots: 14 days</li> <li>○ mature ginger roots: 75 days</li> </ul> </li> </ul>	
<b>GRAPES</b> (Including all cultivars, varieties, and/or hybrids of these)	1.7-2.7 pts.	Apply as a postemergence directed spray in a minimum of 10 gal/A of spray volume. Use a shield or wrap plant when spraying around young trees or vines. When used for control of mature woody weeds, perennial weeds, late germinating weeds and green suckers, retreatment or spot treatment may be necessary. Apply when sucker growth is no more than 8" long.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 13.3 pt/A</li> <li>• <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> apply more than 5 applications a year.</li> <li>• <b>DO NOT</b> allow spray to contact green stems (except suckers), fruit or foliage.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at normal crop maturity.</li> </ul>	
<b>GRASSES For Seed</b> (For Use in Seedbed Preparation)	1.3-2.7 pts.	Apply specified dosage preplant, at planting, or preemergence in 10 gallons of spray per acre by ground. Prepare the seedbeds and allow weeds to germinate. When weeds are at the 3-5 leaf stage, apply HELMQUAT 3SL. Repeat applications as necessary prior to grass emergence, but not exceed 3 applications per year.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 14 days</li> <li>• <b>Maximum Annual Rate:</b> 5.4 pt/A</li> <li>• <b>DO NOT</b> exceed 2.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> apply more than 3 applications a year.</li> <li>• <b>DO NOT</b> graze treated areas or use the seed or straw from treated areas for animal feed or bedding.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 28 days</li> </ul>	
<b>GRASSES</b> (Kentucky Bluegrass grown for seed only)  [Minnesota only]	1.0 – 1.53 pts.	Apply specified dosage by ground in a minimum of 10 gallons of spray per acre and by air in a minimum of 5 gallons of spray per acre. For use on Kentucky bluegrass seed production fields in Minnesota as a post-harvest application to facilitate burning. Add a nonionic surfactant at a rate of 1 pint per 100 gallons (75% or greater surface active ingredient) or 2 pints per 100 gallons (50-74% surface active ingredient). Make application 1-4 weeks after harvest and wait 3-7 days before burning fields. <b>PRECAUTION</b> <ul style="list-style-type: none"> <li>• Do not apply if internal tissues of the buds are exposed as injury to the developing buds will result.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.53 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 3.0 pt/A</li> <li>• <b>DO NOT</b> exceed 0.75 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 application per year.</li> <li>• <b>DO NOT</b> apply this product through any type of irrigation system.</li> <li>• <b>DO NOT</b> graze or feed hay from treated fields prior to burning.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at normal crop maturity.</li> </ul>	
<b>GUAR</b> Including all cultivars,	1.3 pts.	Apply specified dosage for preharvest desiccation in a minimum of 10 gallons of spray per acre by ground after the pods are fully mature

varieties, and/or hybrids of these	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> graze treated areas or use the treated forage for animal feed.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 4 days</li> </ul>	
<b>[GUAVA]</b> Including all cultivars, varieties, and/or hybrids of these	2.5 pts.	Apply specified dosage as a directed spray in a minimum of 10 gallons of spray per acre by ground. Retreatment and/or spot spraying may be necessary for mature woody weeds, germinating weeds and grasses, and perennials.
	<b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact green stems (except suckers), fruit or foliage.</li> <li>• Use a shield or wrap plant when spraying around young trees or vines.</li> </ul>	
<b>HOPS</b> Including all cultivars, varieties, and/or hybrids of these [ID, OR, & WA only]	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.5 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 28 days</li> <li>• <b>Maximum Annual Rate:</b> 10.0 pt/</li> <li>• <b>DO NOT</b> exceed 3.76 lb ai/A/year of paraquat-containing products</li> <li>• <b>DO NOT</b> make more than 4 applications per year</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at normal crop maturity.]</li> </ul>	
	1.3 pts.	Apply specified dosage as a directed spray in a minimum of 10 gallons of spray per acre by ground. For suckering and stripping, spray only the basal 2 ft. of the vines. Repeat as necessary, but do not exceed 3 applications per year. For chemical pruning to bum back existing vines and obtain even emergence of subsequent vines, spray when vines are less than 3 ft. tall.
	<b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• Unacceptable injury may occur when applications are made to vines less than 6 ft. tall.</li> <li>• Experience with varieties other than Cascade, Yakima Cluster, and Bullion is limited. If using HELMQUAT 3SL on varieties other than these, test on a small number of vines of each variety to determine sensitivity to injury and do not use on unlisted varieties if unacceptable crop injury occurs.</li> <li>• Avoid allowing spray to contact green stems, foliage, flowers, or cones as injury may result.</li> </ul>	
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> apply more than 3 applications per year.</li> <li>• <b>DO NOT</b> allow animals to graze in treated hopyards. Hop vine refuse and silage may be fed to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 14 days</li> </ul>	
<b>LENTILS</b> Including all cultivars, varieties, and/or hybrids of these [Not for use in California]	0.8-1.3 pts.	Apply specified dosage as a harvest aid in a minimum of 20 gallons of spray per acre by ground and 7 gallons of spray per acre by air plus a nonionic surfactant at 0.25% v/v (2 pints per 100 gallons) of the finished spray volume. Apply when the crop is mature and at least 80% of the pods are yellowing and mostly ripe. No more than 30% of the leaves should still be green in color. To improve coverage, a split application may be made.
	<b>PRECAUTION</b> <ul style="list-style-type: none"> <li>• Avoid application when weather conditions favor spray drift. A drift control agent may be included to reduce spray drift.</li> </ul>	
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A harvest aid</li> <li>• <b>DO NOT</b> exceed 0.5 lb ai/A/year of paraquat-containing products for harvest aid uses.</li> </ul>	

	<ul style="list-style-type: none"> <li>• <b>DO NOT</b> make more than 3 preplant/preemergence applications per year.</li> <li>• <b>DO NOT</b> make more than 2 harvest aid applications per year.</li> <li>• <b>[NOT REGISTERED FOR USE ON DRY BEANS, DRY PEAS, OR LENTILS IN CALIFORNIA.]</b></li> <li>• <b>DO NOT</b> graze or harvest treated foliage for animal feed following harvest aid application</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ <b>Preplant/preemergence use:</b> harvest crop at normal harvest maturity</li> <li>○ <b>Harvest aid use:</b> 7 days (seed only)</li> </ul> </li> </ul>	
<b>MINT</b> (Peppermint, Spearmint) Including all cultivars, varieties, and/or hybrids of these	1.3-2.0 pts.	Apply during the dormant season before spring growth when weeds are less than 6" tall using the specified dosage in a minimum of 10 gallons of spray per acre by ground or 5 gallons of 'spray per acre by air. Use for the suppression of weeds such as Italian ryegrass, prickly lettuce, groundsel, chickweed, downy brome and bluegrass. This product may be tank mixed with terbacil weed killer for improved contact activity and residual control of Italian ryegrass, prickly lettuce, and groundsel. Apply this tank mixture no more than once per season. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.0 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 2.0 pt/A</li> <li>• <b>DO NOT</b> exceed 0.75 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>ONIONS</b> (dry bulb),	1.3-2.7 pts.	<b>Preemergence:</b> Apply by ground application in a minimum of 20 gal/A spray volume. Make the preemergence application as a broadcast spray. Use the higher rate for heavy weed infestations or wild oat control. For preemergence treatment, allow maximum weed emergence prior to treatment but apply before crop emergence.
	1.3 pts.	<b>Postemergence (Directed Spray):</b> Apply by ground application in a minimum of 20 gal/A spray volume. Make the postemergence application as a directed spray. Use the higher rate for heavy weed infestations or wild oat control.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> Preemergence 2.7 pt/A and Postemergence 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• Only 1 preemergence and 1 postemergence application can be made per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 60 days harvest</li> </ul>	
<b>ONIONS</b> (seeded), <b>GARLIC</b> Including all cultivars, varieties, and/or hybrids of these	1.7 – 2.7	<b>Preplant/Preemergence:</b> Apply preplant or preemergence by ground application in a minimum of 10 gal/A spray volume. Use the higher rate for heavy weed infestations or wild oat control. Allow maximum weed and grass emergence prior to treatment but apply prior to crop emergence. HELMQUAT 3SL can be tank mixed with other herbicides labeled for use on seeded onion and garlic applied by the same methods and at the same timings.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> Not Applicable</li> <li>• <b>Maximum Annual Rate:</b> 2.7 pt/A               <ul style="list-style-type: none"> <li>a. <b>DO NOT</b> exceed 1.0 lb cation/A/year of paraquat-containing products for preplant/preemergence uses.</li> <li>c. <b>DO NOT</b> exceed 1.5 lb cation/A/year of paraquat-containing products for all combined onion uses.</li> </ul> </li> <li>• <b>DO NOT</b> exceed 1.0 lb cation/A/year of paraquat-containing products for all combined garlic uses.</li> <li>• <b>DO NOT</b> make more than 1 application per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>a. 60 days</li> <li>b. California Only: 200 days</li> </ul> </li> </ul>	

<b>[PASSION FRUIT]</b> Including all cultivars, varieties, and/or hybrids of these	2.5 pts.	Make a directed spray at the specified rate in a minimum of 10 gallons of spray per acre by ground. If bark is still green at the time of application, use a shield or wrap the vine. If making applications close to or during harvest, pick all fruit off the ground prior to application. Retreat as necessary, up to 5 times per year.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.5 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 28 days</li> <li>• <b>Maximum Annual Rate:</b> 10 pt/A</li> <li>• <b>DO NOT</b> exceed 3.76 lb ai/A/year of paraquat-containing products</li> <li>• <b>DO NOT</b> make more than 4 applications</li> <li>• <b>DO NOT</b> make an application during Passion fruit harvest season, unless all fruit has been picked up off the ground prior to application.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 14 days]</li> </ul>	
<b>PEANUTS</b> Including all cultivars, varieties, and/or hybrids of these	5.4-10.8 fl. oz.	Apply specified dosage as a broadcast application in a minimum of 10 gallons of spray per acre at ground cracking. A second application may be made up to 28 days after ground crack. This application will control or suppress small (1" - 6") emerged annual grass and broadleaf weeds. For at ground crack use, HELMQUAT 3SL can be tank mixed with imazethapyr, metolachlor, or s-metolachlor for residual weed control. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. Crop foliage sprayed will be injured in the form of bronzing and crinkling but the crop will recover and develop normally.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• Do not apply by air.</li> <li>• Do not make more than 2 applications per season nor apply a total of more than 10.8 fluid ounces of product per acre per season.</li> </ul>	

CROP	CROP (RATE PER ACRE)	COMMENTS
<b>PEANUTS</b> Including all cultivars, varieties, and/or hybrids of these	5.4-10.8 fl. oz.	Apply specified dosage as a broadcast application in a minimum of 10 gallons of spray per acre at ground crack stage of peanuts. A second application may be made up to 28 days after ground crack. This application will control or suppress small (1-6") emerged annual grass and broadleaf weeds. For at ground crack use HELMQUAT 3SL can be tank mixed with imazethapyr, metolachlor, or s-metolachlor, for residual weed control. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. Crop foliage sprayed will be injured in the form of bronzing and crinkling but the crop will recover and develop normally.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> <ul style="list-style-type: none"> <li>○ preplant applications: 2.5 pt/A</li> <li>○ postemergence at ground crack: 10.8 fl oz/A</li> </ul> </li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8 pt/A</li> <li>• <b>DO NOT</b> exceed 0.25 lb ai/A/year of paraquat-containing products for postemergence uses.</li> <li>• <b>DO NOT</b> exceed 2.8 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 2 preplant and 2 postemergence applications per year.</li> <li>• <b>DO NOT</b> apply by air.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>PEANUTS</b> Including all cultivars, varieties, and/or hybrids of these Bentazon Herbicide Tank Mix	5.4-10.8 fl. oz. + 1 pt. Bentazon (4 lb/gal)	Apply specified dosage as a broadcast application in a minimum of 10 gallons of spray per acre at ground crack stage of peanuts. A second application may be made up to 28 days after ground crack. A tank mix application of HELMQUAT 3SL with bentazon will improve control of cocklebur, bristly starbur, smartweed, and prickly sida. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. Crop foliage sprayed will be injured in the form of bronzing and crinkling but the crop will recover and develop normally.
	<b>RESTRICTIONS</b>	



	<ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> <ul style="list-style-type: none"> <li>○ preplant applications: 2.5 pt/A</li> <li>○ postemergence at ground crack: 10.8 fl oz/A</li> </ul> </li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8 pt/A</li> <li>• <b>DO NOT</b> exceed 0.25 lb ai/A/year of paraquat-containing products for postemergence uses.</li> <li>• <b>DO NOT</b> exceed 2.8 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 2 preplant and 2 postemergence applications per year.</li> <li>• <b>DO NOT</b> apply by air.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>PEANUTS</b> Including all cultivars, varieties, and/or hybrids of these 2,4-DB Herbicide Tank Mix	5.4-10.8 fl. oz. + 8-16 oz. (0.125-0.25 lbs.) 2,4-DB (2lb/gal)	Apply as a broadcast postemergence application at the specified dosage in a minimum of 10 gallons of spray per acre by ground. A tank mix application of HELMQUAT 3SL with 2,4-DB will improve control of weeds such as cocklebur, sicklepod, and morningglory. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. Crop foliage sprayed will be injured in the form of bronzing and crinkling but the crop will recover and develop normally.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> <ul style="list-style-type: none"> <li>○ preplant applications: 2.5 pt/A</li> <li>○ postemergence at ground crack: 10.8 fl oz/A</li> </ul> </li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8 pt/A</li> <li>• <b>DO NOT</b> exceed 0.25 lb ai/A/year of paraquat-containing products for postemergence uses.</li> <li>• <b>DO NOT</b> exceed 2.8 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 2 preplant and 2 postemergence applications per year.</li> <li>• <b>DO NOT</b> apply by air.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>PEANUTS</b> Including all cultivars, varieties, and/or hybrids of these Suppression of glyphosate-resistant Palmer Amaranth [and Florida Beggarweed] [Not for use in CA]	Mix 1 part HELMQUAT 3SL with 2 parts water to prepare a 33% solution. Add non-ionic surfactant at 0.25% v/v (2 pints/100 gal) of finished volume. Apply up to 3 pints/acre of the herbicide-water mixture.	Apply through a recirculating rope wick or carpet roller equipment for suppression or control of glyphosate-resistant Palmer Amaranth [and Florida Beggarweed] to prevent seed production. In order to prevent seed production, an application must be made prior to formation of viable seed. Make application at least 6 inches above the peanut canopy. Set application equipment to avoid dripping. Low ground speed enhances coverage which leads to improved weed control. Use ground speeds of 5 mph or less. Delaying application to late afternoon or early evening will enhance control of large weeds. Follow application equipment manufacturer's directions.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 0.67 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> NA</li> <li>• <b>Maximum Annual Rate:</b> 0.67 pt/A</li> <li>• <b>DO NOT</b> exceed 0.25 lb ai/A/year of paraquat-containing products for postemergence ropewick applications.</li> <li>• <b>DO NOT</b> exceed 0.5 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 1 application per year.</li> <li>• <b>DO NOT</b> allow livestock to graze in treated areas.</li> <li>• <b>DO NOT</b> feed hay or vines from treated fields to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 30 days.</li> </ul>	
<b>PEANUTS</b> Including all cultivars, varieties, and/or hybrids of these <b>AL, AR, FL, GA, MS, OK, NC, SC</b> Suppression of glyphosate-resistant Palmer Amaranth [and Florida Beggarweed]	Mix 1 part HELMQUAT 3SL with 1-1.5 parts water to prepare a 40-50% solution. Add non-ionic surfactant containing 75% or more surface-active agent at a minimum of 0.25% v/v (2 pints/100 gal) of finished volume. Apply up to 2 pints/acre of the herbicide-water mixture.	Apply through a recirculating rope wick or carpet roller equipment for suppression or control of glyphosate-resistant Palmer Amaranth [and Florida Beggarweed] to prevent seed production. In order to prevent seed production, an application must be made prior to formation of viable seed. Make application at least 6 inches above the peanut canopy. Set application equipment to avoid dripping. Low ground speed enhances coverage which leads to improved weed control. Use ground speeds of 5 mph or less. Delaying application to late afternoon or early evening will enhance control of large weeds. Follow application equipment manufacturer's directions.



	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 0.67 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> NA</li> <li>• <b>Maximum Annual Rate:</b> 0.67 pt/A</li> <li>• <b>DO NOT</b> exceed 0.25 lb ai/A/year of paraquat-containing products for postemergence ropewick applications.</li> <li>• <b>DO NOT</b> exceed 0.5 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 1 application per year.</li> <li>• <b>DO NOT</b> allow livestock to graze in treated areas.</li> <li>• <b>DO NOT</b> feed hay or vines from treated fields to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 30 days.</li> </ul>	
<b>PEANUTS</b> Including all cultivars, varieties, and/or hybrids of these  For Use Only in the States of Florida and Georgia	1.25-2.5 pts. Always add either: Nonionic surfactant containing 75% or more surface agent at 0.25% v/v of the finished spray volume, Or Non-phytotoxic COC (Crop Oil Concentrate) containing 15 – 20% approved emulsifier, at 1% v/v of the finished spray volume	Apply as a preplant / preemergent broadcast application prior to planting for burndown of weeds in peanut fields. Use higher labeled rate on dense populations of hard to control weeds. Apply when weeds are actively growing and between 1" to 6" in height. NOTE: Weeds 6" or taller may not be controlled. HELMQUAT 3SL may be tank mixed with other herbicides registered for this use for improved weed control. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. Weeds emerging after application will not be controlled.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.5 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 5.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.9 lb ai/A/year of paraquat -containing products.</li> <li>• <b>DO NOT</b> make more than 2 application per year.</li> <li>• <b>DO NOT</b> apply this product by air.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> NA</li> <li>• Make application with a minimum total spray volume of 10 gallons per acre.</li> </ul>	
<b>[PERSIMMON]</b> Including all cultivars, varieties, and/or hybrids of these [Not for use in CA [unless accompanied by a supplemental label]]	2.5 pts.	Apply specified dosage as a directed spray in a minimum of 10 gallons of spray per acre by ground. Mature woody weeds, late-germinating weeds and grasses, and perennials may need spot spraying or retreatment, but do not exceed 4 applications per year.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.5 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 28 days</li> <li>• <b>Maximum Annual Rate:</b> 10 pt/A</li> <li>• <b>DO NOT</b> exceed 3.76 lb ai/A/year of paraquat-containing products</li> <li>• <b>DO NOT</b> make more than 4 applications</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 14 days]</li> </ul>	
<b>PIGEON PEAS</b> Including all cultivars, varieties, and/or hybrids of these [Puerto Rico only]	1.3 pts.	Apply specified dosage as a directed spray in a minimum of 10 gallons of spray per acre by ground. Avoid contact with crop foliage.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> Not Applicable</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A</li> <li>• <b>DO NOT</b> exceed 0.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 1 application per year.</li> <li>• <b>DO NOT</b> graze treated areas or feed treated forage to livestock. Cannery waste can be fed to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 60 days</li> </ul>	
<b>[PINEAPPLE]</b> Including all cultivars, varieties, and/or hybrids of these	1.3-2.7 pts	Apply specified dosage as a directed spray in a minimum of 10 gallons of spray per acre by ground. On mature or hard to control weeds, retreatment may be necessary, but do not exceed 3 applications per year.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> </ul>	

	<ul style="list-style-type: none"> <li>• <b>Minimum Application Interval:</b> 28 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products</li> <li>• <b>DO NOT</b> make more than 3 applications</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 20 days]</li> </ul>	
<b>POTATO</b> <b>Tuberous and Corm Vegetables</b> Arracacha Arrowroot Artichoke, Chinese Artichoke, Jerusalem Canna, edible Chayote, (root) Chufa Leren Potato Sweet Potato Turmeric Yam bean (preplant or preemergence) Including all cultivars, varieties, and/or hybrids of these	0.7-1.3 pts.	Apply specified dosage as a preplant or preemergence broadcast spray in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. Applications may be made up to ground cracking but before potatoes have emerged.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at crop at normal maturity.</li> </ul>	
<b>POTATO</b> (Used alone) <b>Tuberous and Corm Vegetables</b> Arracacha Arrowroot Artichoke, Chinese Artichoke, Jerusalem Canna, edible Chayote, (root) Chufa Leren Potato Sweet Potato Turmeric Yam bean (preplant or preemergence) Including all cultivars, varieties, and/or hybrids of these [CA, WA, ID, OR only]	0.3-0.7 pt.	Apply specified dosage as a preplant broadcast spray in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. This application is used for volunteer barley control in preformed seedbeds.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at crop at normal maturity.</li> </ul>	
<b>POTATO</b> (Late blight disease control) <b>CROP DESTRUCT USE</b> Including all cultivars, varieties, and/or hybrids of these [ME only]	1.7 pts. Add non-ionic surfactant at 0.25% v/v (2 pints/100 gal) of finished volume.	HELMQUAT 3SL may be used as a broadcast spray in a minimum of 20 gallons of spray for desiccation of potato plants to control late blight disease. <b>THIS IS A CROP DESTRUCT USE. Crop must be destroyed and tubers not allowed to enter channels of trade. All tubers must be disked-in after desiccation.</b> Apply as a broadcast over-the-top application of the infected plants. Make a second application if necessary to obtain additional desiccation where vine growth is dense.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 5 days</li> <li>• <b>Maximum Annual Rate:</b> 3.4 pt/A</li> <li>• <b>DO NOT</b> exceed 1.2 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest at crop at normal maturity.</li> </ul>	

	<ul style="list-style-type: none"><li>• <b>DO NOT</b> t graze livestock in treated area.</li><li>• <b>DO NOT</b> apply via chemigation.</li><li>• <b>After application all crop must be destroyed and tubers not allowed to enter channels of trade. All tubers must be disked-in after desiccation.</b></li></ul>		
<b>POTATO</b> Including all cultivars, varieties, and/or hybrids of these (Fresh market potatoes only) <sup>1</sup> (see "Comments" section for list of states)	0.7-1.3 pts.	Apply specified dosage for preharvest vine killing and weed desiccation as a broadcast spray in a minimum of 20 gallons of spray per acre by ground. When quick vine kill is desired, use 1.3 pints per acre. When vine growth is dense, use 2 applications at 0.6 pint per acre. Allow a minimum of 5 days between split applications. Fresh Market Potatoes include potatoes that are sent directly from the field to a consumer, grocery store, or processor for use. Potatoes must be harvested promptly after desiccation and consumed or processed immediately. Begin application when leaves begin to turn yellow. Immature potato foliage is tolerant to HELMQUAT 3SL; however, desiccation will not be complete under this condition. <sup>1</sup> For Use Only in the states of: CO, DE, ID, IL, IN, KS, ME, MD, MA, MI, MN, NE, NV, NJ, NY, ND, OH, OR, PA, SD, UT, WA, WI, WY <b>PRECAUTIONS</b> <ul style="list-style-type: none"><li>• Do not use on potatoes that will be stored as tuber decomposition may result.</li><li>• Do not apply to drought stressed potato vines.</li><li>• Do not use to desiccate the vines of seed potatoes as seed pieces may fail to germinate and grow normally.</li></ul>	
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"><li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li><li>• <b>REI:</b> 48 hours</li><li>• <b>Minimum Application Interval:</b> 7 days</li><li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li><li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li><li>• <b>DO NOT</b> make more than 2 applications per year.</li><li>• <b>Pre-Harvest Interval (PHI):</b> 3 days.</li><li>• <b>DO NOT</b> pasture livestock in treated potato fields.</li></ul>		
<b>RICE</b> Including all cultivars, varieties, and/or hybrids of these	Weeds 1-3": 1.3-1.7 pts. Weeds 3-6": 1.7-2.0 pts. Weeds 6": 2.0-2.7 pts.	Apply as a broadcast spray before, during, or after planting but before crop emergence in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. Use higher specified rates and spray volumes when vegetation is dense. Seeding should be done with a minimum amount of soil disturbance. Weeds and grasses emerging after application will not be controlled, but crop plants exposed to application will be killed. For improved or extended weed control, HELMQUAT 3SL may be tank mixed with other herbicides registered for this use. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply.	
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"><li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li><li>• <b>REI:</b> 48 hours</li><li>• <b>Minimum Application Interval:</b> 7 days</li><li>• <b>Maximum Annual Rate:</b> 2.7 pt/A</li><li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products.</li><li>• <b>DO NOT</b> make more than 3 applications per year.</li><li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li><li>• <b>DO NOT</b> flood/flush within 48 hours of application in order to ensure complete kill of vegetation. If cool, cloudy, and/or wet weather delays speed of kill, do not flood/flush until complete kill is evident.</li></ul>		
<b>SAFFLOWER</b> Including all cultivars, varieties, and/or hybrids of these	1.7-2.7 pts.	Apply broadcast or banded over row before, during, or after planting but before crop emergence in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air.	
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"><li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li><li>• <b>REI:</b> 48 hours</li><li>• <b>Minimum Application Interval:</b> 7 days</li><li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li><li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products.</li><li>• <b>DO NOT</b> make more than 3 applications per year.</li><li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li></ul>		
<b>ROOT AND TUBER</b> Carrots, Turnips Including all cultivars, varieties, and/or hybrids	1.3-2.7	<b>Application Timing:</b> Preplant/Preemergence. Before, during or after planting but prior to crop emergence. Applications can be made as a banded or broadcast treatment. Apply in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. Seedbeds or plantbeds should be formed as far ahead of treatment as possible to permit maximum weed emergence.	

of these)		<p>Use the higher rate for heavier weed infestations. Seeding or transplanting should be done with a minimum amount of soil disturbance. Can be used in fallow bed/stale seedbed for weed control alone or in tank mix.</p> <p><b>PRECAUTION</b></p> <ul style="list-style-type: none"> <li>• Crop plants emerged at time of application will be killed.</li> </ul>
	<p><b>RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 preplant/preemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>SAFFLOWER</b> Including all cultivars, varieties, and/or hybrids of these [CA only]	0.7 pt.	Apply as a preplant broadcast spray in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. This application is effective for control of volunteer barley in preformed seedbeds.
	<p><b>RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>SMALL GRAINS</b> (Barley, Wheat) Including all cultivars, varieties, and/or hybrids of these	Weeds 1-3": 1.3-1.7 pts. Weeds 3-6": 1.7-2.0 pts. Weeds 6": 2.0-2.7 pts.	Apply specified dosage preplant or preemergence in a minimum of 5 gallons of spray per acre by ground or air.
	<p><b>RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products in pre-emergence applications.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Forage, hay, grain, straw may be harvested at normal crop maturity.</li> </ul>	
<b>SORGHUM Grain</b> Including all cultivars, varieties, and/or hybrids of these	Weeds 1-3": 1.3-1.7 pts. Weeds 3-6": 1.7-2.0 pts. Weeds 6": 2.0-2.7 pts.	<p>Apply specified dosage preplant or preemergence in a minimum of 10 gallons of spray per acre by ground and 5 gallons of spray per acre by air as a broadcast or banded application.</p> <p>Seedbeds should be formed as far ahead of planting as possible to allow maximum weed and grass emergence. Seeding should be done with a minimum of soil disturbance.</p>
	<p><b>RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for preplant/preemergence.</li> <li>• <b>DO NOT</b> exceed 4.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 preplant/preemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ forage: 20 days</li> <li>○ grain: 48 days</li> </ul> </li> </ul>	

CROP	DOSAGE (RATE PER ACRE)	COMMENTS
<b>SORGHUM Grain</b> Including all cultivars, varieties, and/or hybrids of these Atrazine & 2,4-D ester [low volatile] Tank Mix	Weeds 1-3": 1.3-1.7 pts. Weeds 3-6": 1.7-2.0 pts. Weeds 6": 2.0-2.7 pts.	For preplant or preemergence application, HELMQUAT 3SL may be tank mixed with atrazine for improved preemergence or residual weed control. The addition of 2,4-D ester (low volatile) may aid in the suppression of perennial and annual broadleaf weeds emerged at the time of application. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for preplant/preemergence.</li> <li>• <b>DO NOT</b> exceed 4.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 preplant/preemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ forage: 20 days</li> <li>○ grain: 48 days</li> </ul> </li> </ul>	
<b>SORGHUM Grain</b> Including all cultivars, varieties, and/or hybrids of these thifensulfuron/tribenuron Tank Mix	1.3-2.5 pts.	Make a preplant application at the specified dosage in a minimum of 10 gallons of spray per acre by ground. HELMQUAT 3SL may be tank mixed with thifensulfuron/tribenuron for improved weed control. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for preplant/preemergence.</li> <li>• <b>DO NOT</b> exceed 4.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 preplant/preemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ forage: 20 days</li> <li>○ grain: 48 days</li> </ul> </li> </ul>	
<b>SORGHUM Grain</b> Including all cultivars, varieties, and/or hybrids of these	0.7-1.3 pts.	Apply specified dosage as a postemergence directed spray (including hooded or shielded) in 10 gallons of spray per acre by ground when weeds are actively growing. Use higher specified rate on larger or hard to control weeds. Weeds 6" or taller may not be controlled. Because spray can severely damage and/or kill sorghum plants, applications should be made with either hooded or shielded sprayers or as a directed spray as outlined below. To avoid excessive crop phytotoxicity, use a hooded or shielded sprayer with skids or wheels on the spray boom to maintain spray height. Apply by directing spray between the rows and using hooded or shielded sprayers to prevent spray contact with crop plants. If applying without a hooded or shielded sprayer, apply when sorghum is at least 12" tall when naturally standing. Do not exceed 30 psi nozzle pressure or spray under conditions which may cause excessive drift. Use precision directed spray application equipment adjusted so that no more than the lower 3" of the sorghum stalk is contacted by the application spray. Some crop injury will occur. The degree of injury is related to the precision of application and spraying conditions.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 2.7 pt/A</li> <li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products for postemergence.</li> <li>• <b>DO NOT</b> exceed 4.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 2 preplant/preemergence applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ forage: 20 days</li> <li>○ grain: 48 days</li> </ul> </li> </ul>	

<b>SOYBEANS</b> Including all cultivars, varieties, and/or hybrids of these	Weeds 1-3": 1.3-1.7 pts. Weeds 3-6": 1.7-2 pts. Weeds 6": 2-2.7 pts.	<p>Apply specified dosage as a broadcast spray before, during, or after planting but before crop emergence in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. HELMQUAT 3SL may be tank mixed with the following herbicides for improved burndown or residual control: 2,4-D, s-metolachlor, oxyfluorfen, thifensulfuron/tribenuron (Preplant Only), linuron, linuron, chlorimuron, pendimethalin, imazethapyr, imazaquin, metribuzin, oryzalin. The rate of HELMQUAT 3SL to be used in these tank mixtures is dependent on weed height and growing conditions. Use the highest specified rate of HELMQUAT 3SL under dry conditions or where the weed canopy is dense. The lower rate may be used when weeds are less than 4" tall and a selective postemergence spray or cultivation will be made within 3 weeks after planting. Seeding should be done with a minimum amount of soil disturbance. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply.</p> <p><b>RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products for preplant and preemergence uses.</li> <li>• <b>DO NOT</b> exceed 2.9 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ forage/hay: Not before R3 stage.</li> <li>○ seed: Can be harvested at normal crop maturity</li> </ul> </li> </ul> <p>• <b>DO NOT</b> graze or harvest for forage or hay before the R3 stage of soybean development (early pod).</p>
<b>SOYBEANS</b> <b>Preplant/Preemergence</b> Including all cultivars, varieties, and/or hybrids of these 2,4-D ester (low volatile) Tank Mix	Weeds 1-3": 1.3-1.7 pts. Weeds 3-6": 1.7-2.0 pts. Weeds 6": 2.0-2.7 pts. + 0.35-0.475 lb. a.i. 2,4-D ester (low volatile) at least 7 days prior to planting or + 0.475- 0.95 lb. a.i. 2,4-D ester (low volatile) at least 30 days prior to planting	<p>Apply preplant or preemergence at the specified dosage in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply.</p> <p><b>PRECAUTION</b></p> <ul style="list-style-type: none"> <li>• Do not use the amine formulation of 2,4-D as the activity of HELMQUAT 3SL may be reduced.</li> <li>• Do not apply 2,4-D ester (low volatile) prior to planting soybeans if soybean injury, including possible loss of stand and yield, are not acceptable.</li> </ul> <p><b>RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products for preplant and preemergence uses.</li> <li>• <b>DO NOT</b> exceed 2.9 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ forage/hay: Not before R3 stage.</li> <li>○ seed: Can be harvested at normal crop maturity</li> </ul> </li> </ul>



<b>SOYBEANS</b> <b>Postemergence</b> (Directed Spray) Including all cultivars, varieties, and/or hybrids of these	10.9 – 21.8 fl. oz. (post-emergence directed spray: includes hooded or shielded)	<p>Apply specified dosage as a postemergence directed spray (includes hooded or shielded) in 'a minimum of 10 gallons of spray per acre by ground when weeds are actively growing. Use the lower rate to control seedling johnsongrass, crabgrass, goosegrass, brachiaria, Texas millet, and pigweed less than 2" tall. Use 5.4 fluid ounces for control of 2-4" red rice, brachiaria, barnyard grass, crabgrass, goosegrass, seedling johnsongrass, giant foxtail, fall panicum, 2-3" sicklepod, purslane, pigweed, cutleaf ground cherry, and common ragweed. Add 2,4-D at rates specified on the label of the product you are using for control of 2-4" grasses in mixture with common cocklebur, morningglory, and red rice. If necessary, a second application may be made 7-14 days later. Hooded or shielded sprayers should be used by directing spray between the rows to prevent spray contact with crop plants. Use higher specified rate on larger (&lt; 6") or hard to control weeds. Weeds 6" or taller may not be controlled.</p> <p>If making applications without hooded or shielded sprayers, use precision directed spray application equipment adjusted so that no more than the lower 3" of the soybean plant is contacted by the application spray. Do not exceed 30 psi nozzle pressure or spray under conditions which may cause excessive drift. Do not treat if soybeans are less than 8" tall. Some crop injury will occur. The degree of injury is related to the precision of application and spraying conditions.</p> <p>[When tank mixing with 2,4-D, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply.]</p> <p><b>PRECAUTIONS</b></p> <ul style="list-style-type: none"> <li>• Severe damage and/or complete kill can occur if spray intentionally or accidentally (including drift of fine droplets) contacts the plants.</li> <li>• When using a spot spray treatment, do not allow spray to contact soybean plant as crop injury or death may occur.</li> <li>• Immature soybeans will be injured if present during harvest aid application.</li> <li>• Mature cocklebur, especially drought-stressed plants, are tolerant to HELMQUAT 3SL and desiccation will not be complete.</li> </ul>
<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> postemergence: 1.3 pt/A <ul style="list-style-type: none"> <li>○ postemergence directed: 1.3 pt/A</li> <li>○ postemergence spot: 0.5 fl oz/gallon of water</li> </ul> </li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 14 days</li> <li>• <b>Maximum Annual Rate:</b> postemergence 2.7 pt/A; Harvest Aid 0.7 pt/A</li> <li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing product in postemergence applications.</li> <li>• <b>DO NOT</b> exceed 2.75 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 2 postemergence applications per year.</li> <li>• <b>DO NOT</b> use or process harvested grain for food or feed from soybeans grown for research, field trials or seed production.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 46 days</li> </ul>		
<b>SOYBEANS</b> <b>Harvest Aid</b> Including all cultivars, varieties, and/or hybrids of these	5.4-10.7 fl. oz.	<p><b>Harvest Aid:</b> Apply specified rate in a minimum of 20 gallons of spray per acre by ground or 5 gallons of spray per acre by air. On indeterminate varieties, apply when at least 65% of the seed pods have reached a mature brown color or when seed moisture is 30% or less. On determinate varieties, apply when plants are mature, i.e., beans are fully developed, 1/2 of leaves have dropped, and remaining leaves are yellowing. Immature soybeans will be injured. Use the higher specified rate for cocklebur control. Mature cocklebur, especially drought-stressed plants, are tolerant to HELMQUAT 3SL and desiccation will not be complete.</p>
<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> for harvest aid: 10.7 fl oz/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 14 days</li> <li>• <b>Maximum Annual Rate:</b> 0.7 pt/A</li> <li>• <b>DO NOT</b> exceed 0.25 lb ai/A/year of paraquat-containing product in harvest aid applications.</li> <li>• <b>DO NOT</b> exceed 2.75 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 1 application per year.</li> <li>• <b>DO NOT</b> graze or harvest for forage or hay from harvest aid applications.</li> <li>• <b>DO NOT</b> use or process harvested grain for food or feed from soybeans grown for research, field trials or seed production.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ harvest aid grain only: 15 days</li> <li>○ harvest aid for soybeans grown for research, field trials and seed production <b>only:</b> 3 day</li> </ul> </li> </ul>		



<b>STRAWBERRIES</b> Including all cultivars, varieties, and/or hybrids of these	1.3 pts.	Apply as a postemergence directed spray in a minimum of 20 gallons of spray per acre by ground directing the spray between the rows and using shields to prevent contact with the crop.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 3.9 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> allow spray to contact strawberry plants as injury or excessive residues may result.</li> <li>• <b>DO NOT</b> graze livestock in treated areas</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 21 days</li> </ul>	
<b>STRAWBERRIES</b> Including all cultivars, varieties, and/or hybrids of these Post-Harvest <b>CROP DESTRUCT USE</b> [FL Only]	1.3 pts. Add either Non-ionic surfactant containing at least 75% surface active ingredient at 0.25% v/v (2 pints/100 gal) of finished volume, Or Crop Oil Concentrate (non-phytotoxic) containing 15-20% approved emulsifier, at 1.0 v/v (1 gallon per 100 gallons) of the finished spray volume	HELMQUAT 3SL may be used as a broadcast ground spray application in a minimum of 30 gallons of spray for desiccation of strawberry plants following harvest. <b>THIS IS A CROP DESTRUCT USE. Crop must be destroyed and not allowed to enter channels of trade. For use only on fields where harvest operations have finished for the season.</b> <b>Use flat fan nozzle for the most effective application.</b>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 3.9 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 application per year.</li> <li>• <b>DO NOT</b> use treated fruit for human or animal consumption.</li> <li>• <b>DO NOT</b> apply when weather conditions favor drift from treated areas.</li> <li>• <b>DO NOT</b> apply this product through any type of irrigation system.</li> <li>• <b>DO NOT</b> graze livestock in treated area.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 21 Days</li> </ul>	
<b>SUGAR BEETS</b> Including all cultivars, varieties, and/or hybrids of these	1.3-2.7 pts.	Apply specified dosage preplant or preemergence in a minimum of 10 gallons of spray per acre by ground and 5 gallons of spray per acre by air. Use the higher specified rate for heavier weed infestations. Seedbeds or plantbeds should be formed as far ahead of treatment as possible to permit maximum weed emergence with a minimum amount of soil disturbance when seeding or transplanting occurs. Crop plants emerged at time of application will be killed. This application may be used in fallow bed/stale seedbed for weed control.
	0.5-0.7	Volunteer Barley For use in California, Washington, Oregon, & Idaho ONLY for control of volunteer barley in preformed seedbeds. Apply specified dosage preemergence in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>SUGARCANE</b> Including all cultivars, varieties, and/or hybrids of these	See rate below based on geographical area to be treated	For all sugarcane growing areas, the following general comments are applicable. Apply as a hooded, shielded, or directed post-emergence spray to avoid contact with cane foliage to prevent leaf burn and yield reduction. Make a second and final application, if necessary, when new weed growth is 2-6" high.

1.3 pts. (FL only)	Florida: Apply specified rate in a minimum of 50 gallons of spray per acre by ground in early spring (March-April) when weeds are small. Do not apply after June 1 as cane growth may be stunted and yields reduced.
<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>Maximum Single Application Rate for Harvest Aid:</b> 0.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 2.7 pt/A</li> <li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products,</li> <li>• <b>DO NOT</b> make more than 2 postemergence directed spray applications per year.</li> <li>• <b>DO NOT</b> make more than 1 harvest aid application per year</li> <li>• <b>DO NOT</b> graze treated areas or feed treated forage to livestock when using postemergence directed spray (includes Hooded or Shielded) applications.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ <b>post-emergence application:</b> Harvest crop at normal maturity.</li> <li>○ <b>harvest aid:</b> 3 days</li> </ul> </li> </ul>	
1.3 pts. (HI only)	In Hawaii, apply specified rate in a minimum of 20 gallons of spray per acre by ground but do not apply after the cane rows have closed in.
<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 2.7 pt/A</li> <li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products</li> <li>• <b>DO NOT</b> make more than 2 postemergence directed spray applications per year.</li> <li>• <b>DO NOT</b> graze treated areas or feed treated forage to livestock when using postemergence directed spray (includes Hooded or Shielded) applications.</li> <li>• <b>Pre-Harvest Interval (PHI) post-emergence application:</b> Harvest crop at normal maturity.</li> </ul>	
1.3-2.5 pts. (LA only)	<p>In Louisiana, apply specified rate in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray by air to sugarcane prior to sugarcane emergence or when the sugarcane has more than 4 leaves. For control of annual ryegrass and other weeds prior to or after the crop has emerged (but only when sugarcane has more than four leaves).</p> <p>For improved burndown and residual control tank mix HELMQUAT 3SL with atrazine or diuron.</p> <p>For best results apply when weeds and grasses are succulent and weeds are under 6" in height. Use higher labeled rate for larger or hard to control weeds.</p> <p>For best results on Ground Application, add either:</p> <ol style="list-style-type: none"> <li>1) Non-ionic surfactant containing at least 75% surface active ingredient at 0.125% v/v (1 pint/100 gal) of finished volume, Or</li> <li>2) Non-ionic surfactant containing at least 50-74% surface active ingredient at 0.25% v/v (2 pints/100 gal) of finished volume.</li> </ol> <p>For best results on Ground Application, add either:</p> <ol style="list-style-type: none"> <li>1) Non-ionic surfactant at 0.25% v/v (2 pints/100 gal) of finished volume, Or</li> <li>2) Crop Oil Concentrate (non-phytotoxic) containing 15-20% approved emulsifier, at 1.0 v/v (1 gallon per 100 gallons) of the finished spray volume. For aerial applications add 1 pint of crop oil concentrate per acre. </li></ol>
<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.0 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A in Louisiana</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products, in Louisiana.</li> <li>• <b>DO NOT</b> make more than 2 postemergence directed spray applications per year.</li> <li>• <b>DO NOT</b> graze treated areas or feed treated forage to livestock when using postemergence directed spray (includes Hooded or Shielded) applications.</li> <li>• <b>Pre-Harvest Interval (PHI) post-emergence application:</b> 30 days</li> </ul>	
0.4-0.7 pt. (FL and TX only)	In Florida and Texas, apply the specified rate in 5 gallons of spray per acre by air. Use the higher specified rate when cool cloudy weather exists. Apply 3-14 days before burning and harvest.
<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate for Harvest Aid:</b> 0.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 2.7 pt/</li> </ul>	

		<ul style="list-style-type: none"> <li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products, in Florida.</li> <li>• <b>DO NOT</b> exceed 0.25 lb ai/A/year of paraquat-containing products in Texas.</li> <li>• <b>DO NOT</b> make more than 1 harvest aid application per year in Florida and Texas.</li> <li>• <b>DO NOT</b> graze treated areas or feed treated forage to livestock when using postemergence directed spray (includes Hooded or Shielded) applications.</li> <li>• <b>Pre-Harvest Interval (PHI) for harvest aid:</b> 3 days</li> </ul>
<b>SUNFLOWER</b> Including all cultivars, varieties, and/or hybrids of these	1.7-2.7 pts. (preplant or preemergence)	Apply specified dosage before, during, or after planting but before crop emergence in a minimum of 10 gallons of spray per acre by ground and 5 gallons of spray per acre by air either broadcast or banded over the row.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> preplant/preemergence: 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> preplant/preemergence: 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of preemergence paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year as a preplant or preemergence treatment.</li> <li>• <b>DO NOT</b> graze treated areas or feed treated forage to livestock after a preharvest desiccation application.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 7 days preharvest desiccation</li> </ul>	
	0.8-1.3 pts. (preharvest desiccation)	<b>Preharvest desiccation:</b> Apply specified dosage as a broadcast spray for preharvest desiccation in a minimum of 10 gallons of spray per acre by ground and 5 gallons of spray per acre by air. Apply when sunflower seeds reach physiological maturity (when seed moisture is 35% or lower). For many varieties, this is the same time when the back of the heads are yellow and the bracts are turning brown. Use the higher specified rate when crop stands or weed infestations are heavy.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> preharvest desiccation: 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> desiccation 2.7 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of preemergence paraquat-containing products.</li> <li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of preharvest desiccation paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 applications per year as a preharvest desiccation treatment.</li> <li>• <b>DO NOT</b> graze treated areas or feed treated forage to livestock after a preharvest desiccation application.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 7 days preharvest desiccation</li> </ul>	
<b>TANIERIS</b> <b>Preemergence</b> Including all cultivars, varieties, and/or hybrids of these	1.3 – 2.7	<b>Florida Only</b> Make a preemergence application as a broadcast or banded over row application. A preemergence application must be made before crop emergence
<b>TANIERIS</b> <b>Postemergence</b> (Directed Spray) If both preemergence and postemergence applications are made, allow 30-60 days between applications. Including all cultivars, varieties, and/or hybrids of these	1.3	Make a postemergence directed spray application with ground equipment that can direct the spray between the rows and shield to prevent spray contact with crop plants. Apply in a minimum ground application of 20 gal/A spray volume.
<b>TANIERIS</b> <b>Postemergence</b> (Spray Directed) Including all cultivars, varieties, and/or hybrids of these	1.3	<b>Puerto Rico ONLY:</b> Apply as a shielded postemergence directed spray ground application in a minimum of 50 gal/A using equipment that can direct the spray between rows and shield to prevent spray contact with crop plants. Apply when weeds are succulent and growth is 1-6".
<b>Precaution:</b> <ul style="list-style-type: none"> <li>• Do not allow the spray to contact the tanier plants as injury may result.</li> </ul>		

	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> <ul style="list-style-type: none"> <li>○ Florida 2.7 pt/A</li> <li>○ Puerto Rico 1.3 pt/A</li> </ul> </li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> <ul style="list-style-type: none"> <li>○ Florida: 30 days</li> <li>○ Puerto Rico: 90 days</li> </ul> </li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 applications per year in Florida. If 2 applications are made, only 1 preemergence and one postemergence directed spray are allowed.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ 180 Days - Preemergence</li> <li>○ 90 Days - Postemergence</li> </ul> </li> </ul>	
<b>TARO, DRYLAND</b> Including all cultivars, varieties, and/or hybrids of these [HI Only]	1.3-2.1 pts.	Apply specified dosage as a postemergence directed spray in a minimum of 10 gallons of spray per acre by ground. Make the first application when weed growth is 1" - 4" high. If weeds emerge after application, they will not be controlled. A single retreatment may be made; however, do not harvest dryland taro within 6 months of last application.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.1 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 180 days</li> </ul>	
<b>TOBACCO</b> Including all cultivars, varieties, and/or hybrids of these [KY, NC, and TN Only]	1.6 – 2.5 pts.	<b>Spring, prior to tobacco transplant:</b> For use in [Kentucky], [North Carolina] [and] [Tennessee] Only for burndown of weeds and cover crops prior to transplant. Use the higher rate on dense populations and/or on larger or harder to control weeds. Apply as a broadcast ground application in a minimum of 10 gal/A spray volume. Use the higher rate on dense populations and/or on larger or harder to control weeds. Apply when weeds or cover crop are actively growing and between 1" to 6" in height. Vegetation 6" or taller may not be controlled. Add either: 1) A nonionic surfactant containing 75% or more surface active agent at 0.25% v/v (2 pt per 100 gallons), of the finished spray volume for ground applications, OR 2) A Crop Oil Concentrate (non-phytotoxic) containing 15-20% approved emulsifier, at 1.0 v/v (1 gallon per 100 gallons) of the finished spray volume. Weeds that emerge after the application will not be controlled.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.5 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>DO NOT</b> graze treated areas of feed treated cover crops to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>TREE PLANTATION ESTABLISHMENT</b> Deciduous and Conifers	1.3-2.7 pts.	Apply specified dosage prior to planting as a broadcast application in 20 gallons of spray per acre by ground equipment. Be careful to minimize soil disturbance when planting. Use the higher specified rate for heavier weed infestations. For improved burndown or residual control, tank mix HELMQUAT 3SL with other herbicides labeled for this use. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. Do not apply in less than 10 gallons per acre, as weed control will be reduced. Prepare ground early to allow maximum emergence of weeds.

	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Not Applicable</li> </ul>	
<b>TREES AND VINES</b> <b>Citrus Fruit</b> Calamondin Citrus Citron Grapefruit Kumquat Lemon Lime Mandarin Orange (sour & sweet) Pummelo Satsuma mandarin Including all cultivars, varieties, and/or hybrids of these	1.7-2.7 pts.	Apply as a postemergent directed spray with a minimum ground application of 10 gal/A. If applied during harvest season, fallen fruit present at the time of application <b>cannot</b> be salvaged or utilized for human consumption. When use for control of mature woody weeds, perennial weeds, late germinating weeds, late germinating weeds and green suckers, retreatment or spot treatment may be necessary. <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact green stems (except suckers), or foliage.</li> <li>• Use a shield or wrap plant when spraying around young trees or vines.</li> </ul>
		<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 13.3 pt/A</li> <li>• <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 5 applications per year.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>
<b>TREES AND VINES</b> <b>Tree Nuts (Crop Group 14) and Pistachios</b> [Almonds] Beechnut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert (hazelnut) Hickory nut [Macadamia nut (bush nut)] Pecan Pistachios Walnuts Including all cultivars, varieties, and/or hybrids of these	1.7-2.7 pts.	Apply as a postemergent directed spray with a minimum ground application of 10 gal/A. When use for control of mature woody weeds, perennial weeds, late germinating weeds, late germinating weeds and green suckers, retreatment or spot treatment may be necessary. Use a shield or wrap plant when spraying around young trees or vines. <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact green stems (except suckers), or foliage.</li> <li>• Use a shield or wrap plant when spraying around young trees or vines.</li> </ul>
		<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 13.3 pt/A</li> <li>• <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 5 applications per year.</li> <li>• <b>DO NOT</b> make more than 2 applications to Pistachios after shells split.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ pistachios: 7 days</li> <li>○ all others: Harvest crop at normal maturity.</li> </ul> </li> </ul>
<b>TREES AND VINES</b> <b>Stone Fruit</b> Apricots Cherries Nectarines Peaches Plums	1.7-2.7 pts.	Apply as a postemergent directed spray with a minimum ground application of 10 gal/A. When use for control of mature woody weeds, perennial weeds, late germinating weeds, late germinating weeds and green suckers, retreatment or spot treatment may be necessary. Use a shield or wrap plant when spraying around young trees or vines. <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact green stems (except suckers), or foliage.</li> <li>• Use a shield or wrap plant when spraying around young trees or vines.</li> </ul>

Prunes Including all cultivars, varieties, and/or hybrids of these	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ peaches: 14 days</li> <li>○ all others: 28 days</li> </ul> </li> </ul>	
<b>TREES AND VINES</b> <b>Pome Fruit</b> Apples Pears Including all cultivars, varieties, and/or hybrids of these	1.7-2.7 pts.	Apply as a postemergent directed spray with a minimum ground application of 10 gal/A. Use a shield or wrap plant when spraying around young trees or vines. If applied during harvest season, fallen fruit present at the time of application <b>cannot</b> be salvaged or utilized for human consumption. When used for control of mature woody weeds, perennial weeds, late germinating weeds and green suckers, retreatment or spot treatment may be necessary. <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact green stems (except suckers), or foliage.</li> <li>• Use a shield or wrap plant when spraying around young trees or vines.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 13.3 pt/A</li> <li>• <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 5 applications per year.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crops at normal maturity.</li> </ul>	
<b>TREE AND VINE</b> <b>Kiwifruit</b> Including all cultivars, varieties, and/or hybrids of these Postemergence (Directed Spray)	1.7-2.7 pts.	Apply only as a postemergence directed spray in a minimum of 10 gal/A spray volume. When used for control of mature woody weeds, perennial weeds, late germinating weeds, late germinating weeds and green suckers, retreatment or spot treatment may be necessary. <b>Precautions:</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact green stems (except suckers), or foliage.</li> <li>• Use a shield or wrap plant when spraying around young trees or vines.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 5.3 pt/A</li> <li>• <b>DO NOT</b> exceed 2.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 14 days</li> </ul>	
<b>TREES AND VINES</b> <b>Grapes</b> <b>Postemergence</b> <b>(Directed Spray)</b> Including all cultivars, varieties, and/or hybrids of these	1.7 – 2.7 pts.	Apply when sucker growth is no more than 8" long. Apply as a postemergence directed spray in a minimum of 10 gal/A of spray volume. Use a shield or wrap plant when spraying around young trees or vines. When used for control of mature woody weeds, perennial weeds, late germinating weeds and green suckers, retreatment or spot treatment may be necessary. HELMQUAT 3SL can be tank mixed with other herbicides labeled for use on grapes applied by the same methods and at the same timings. <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• Avoid contact with desirable foliage.</li> </ul>



	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 13.3 pt/A</li> <li>• <b>DO NOT</b> exceed 0.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 5 applications per year.</li> <li>• <b>DO NOT</b> allow spray to contact green stems (except suckers), fruit or foliage.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal harvest maturity.</li> </ul>	
<b>TREES AND VINES</b> <b>Grapes-dormant Application</b> Including all cultivars, varieties, and/or hybrids of these [California only]	0.7 - 1.3 pts.	For use only for use in California Only as a broadcast aerial application to dormant vines for control of emerged annual weeds. Apply specified dosage as a dormant application in a minimum of 10 gallons of spray per acre by air for the control of annual weeds in grapes. Make applications when weeds are succulent and growth is from 1 to 6 inches high. Add a nonionic surfactant containing 50% surface-active agent at 1-2 pints per 100 gallons of the finished spray volume.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> Not Applicable</li> <li>• <b>Maximum Annual Rate:</b> 1.3 pt/A</li> <li>• <b>DO NOT</b> exceed 0.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than one application per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal harvest maturity.</li> </ul>	
<b>TREES AND VINES</b> <b>Macadamia Nuts</b> Including all cultivars, varieties, and/or hybrids of these (for application to control weeds while macadamia nuts are on the ground) [HI only]	1.3 pts. Add nonionic spreader at 8-32 fl. oz. per 100 gals.	Application must be a directed spray at 1.3 pints HELMQUAT 3SL applied in 30 to 150 gallons per acre. Apply when weeds and grasses are actively growing and under 6" in height. For mature woody weeds, hard to control weeds, green suckers, late germinating weeds and grasses, and perennial weeds – retreatment or spot treatment may be necessary for adequate control. <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• <b>Treatment should be made immediately after harvest to minimize the number of nuts on the ground at the time of application.</b></li> <li>• Do not allow spray to contact green stems or foliage, as injury may result.</li> <li>• Do not spray under windy conditions and use a shield for young trees.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 5.2 pt/A</li> <li>• <b>DO NOT</b> exceed 1.95 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 4 application per year.</li> <li>• <b>DO NOT</b> apply this product through any type of irrigation system.</li> <li>• <b>DO NOT</b> allow animals to graze on treated areas.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 1 day</li> </ul>	
<b>TULIP</b> <b>NARCISSUS, IRIS</b> Including all cultivars, varieties, and/or hybrids of these [WA only]	1.27-2.5 pts. Add non-ionic surfactant containing at least 50% surface active ingredient at 0.125 - 0.25% v/v (1-2 pints/100 gal) of finished volume.	HELMQUAT 3SL may be used as a broadcast spray in a minimum of 30 gallons of spray, prior to bulb emergence for control of annual and broadleaf weeds and grasses in tulips, narcissus and iris. When using HELMQUAT 3SL in Eastern Washington, refer to the Washington State Department of Agriculture's restrictions on the use of desiccant herbicides. HELMQUAT 3SL is a contact herbicide; it is essential to have complete coverage of target weeds for good results.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.5 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 5.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.8 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 application per year.</li> <li>• <b>DO NOT</b> apply this product through any type of irrigation system.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal harvest maturity.</li> </ul>	
<b>TYFON</b> Including all cultivars, varieties, and/or hybrids	1.7-2.7 pts.	Apply specified dosage preplant or preemergence in a minimum of 10 gallons of spray per acre by ground. Crop plants that have emerged at the time of application will be injured. Weeds and grasses emerging after treatment may not be controlled. Seeding should be done with a minimal amount of disturbance to the soil.



of these [NH only]	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>TROPICAL AND SUB-TROPICAL FRUIT TREES WITH EDIBLE PEAL</b>  Acerola; Feijoa; Figs; [Guava]; Jaboticaba; Olives; Starfruit and Wax jambu Including all cultivars, varieties, and/or hybrids of these	Acerola, Figs and Olives: 2.7 pts  For All Others: 1.3-2.5 pts.	Apply specified dosage as a directed spray in a minimum of 10 gallons of spray per acre by ground. Apply only with manually pressurized handwands or ground boom equipment. For suckering, spray when suckers are 4" to 8" tall. Spot spraying or retreatment may be needed for perennial, mature woody weeds, and late germinating weeds and grasses.  <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact green stems (except suckers), fruit or foliage.</li> <li>• Use a shield or wrap plant when spraying around young trees or vines.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A for acerola, figs, and olives; 2.5 pt/A all others</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days acerola, figs, olives and [guava]; 28 days feijoa, jaboticaba, starfruit, and wax jambu</li> <li>• <b>Maximum Annual Rate:</b> 10.0 pt/A for feijoa, [guava], jaboticaba, starfruit, wax jambu; 13.3 pt/A acerola, figs, and olives</li> <li>• <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products for acerola, and figs.</li> <li>• <b>DO NOT</b> exceed 3.76 lb ai/A/year of paraquat-containing products for feijoa, [guava], jaboticaba, starfruit, and wax jambu.</li> <li>• <b>DO NOT</b> exceed 4.0 lb ai/A/year of paraquat-containing product for olives.</li> <li>• <b>DO NOT</b> make more than 4 applications per year except for acerola and figs where a maximum of 5 applications per year are allowed.</li> <li>• <b>DO NOT</b> apply when figs or olives to be harvested are on the ground.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ acerola: 28 day</li> <li>○ figs and olives: 13 days</li> <li>○ [guava: Harvest at normal crop maturity]</li> <li>○ all others: 14 days</li> </ul> </li> <li>• For Feijoa, Jaboticaba, Starfruit and Wax jambu, apply only with ground boom equipment that provides a directed spray.</li> </ul>	
<b>TROPICAL AND SUB-TROPICAL FRUIT TREES WITH INEDIBLE PEAL</b>  Atemoya; Avocado; Bananas/plantains; Biriba; Canistel; Cherimoya; Custard apple; Llama; Longan; Lychee, Mango, Papaya; [Passion fruit]; Pawpaw; [Persimmon]; [Pineapple]; Pomegranate; Pulasan; Rambutan; Sapodilla; Sapote, black; Sapote, mamey; Sapote, white; Soursop; Spanish lime; Star apple and Sugar apple Including all cultivars, varieties, and/or hybrids of these	<b>Pineapple:</b> 1.3 - 2.7 pts  <b>Avocado, Banana/Plantain, &amp; Papaya:</b> 1.7-2.7 pts.  <b>All Others:</b> 2.5 pts.	Apply as a postemergence directed spray with a minimum ground application spray volume of 10 gal/A. When used for control of mature woody weeds, perennial weeds, and late germinating weeds, retreatment or spot treatment may be necessary. Where a suckering application is made, spray when suckers are 4 to 8 inches tall.  <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact green stems (except suckers), fruit or foliage.</li> <li>• Use a shield or wrap plant when spraying around young trees or vines.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days avocado, banana, papaya, [and pineapple], 28 days all others</li> <li>• <b>Maximum Annual Rate:</b> 13.3 pt/A avocado, banana, papaya; [8.0 pt/A pineapple;] 10 pt/A all others.</li> <li>• <b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products for avocado, banana, and papaya.</li> <li>• <b>[DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for pineapple.]</li> <li>• <b>DO NOT</b> exceed 3.76 lb ai/A/year of paraquat-containing product for all others</li> <li>• <b>DO NOT</b> make more than 5 applications per year for avocado, banana, and papaya.</li> <li>• <b>[DO NOT</b> make more than 3 applications per year for pineapple]</li> <li>• <b>DO NOT</b> make more than 4 applications per year for all others.</li> <li>• <b>[DO NOT</b> make an application during Passion fruit harvest season, unless all fruit has been picked up off the ground prior to application.]</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• <b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> <ul style="list-style-type: none"> <li>○ a. avocado, banana, and papaya: Harvest at normal crop maturity.</li> <li>○ [pineapple: 20 days]</li> <li>○ all others: 14 days</li> </ul> </li> </ul>	
<b>VEGETABLES:</b> <b>Cabbage</b> <b>Lettuce</b> Including all cultivars, varieties, and/or hybrids of these	0.8-1.25 pts. <b>For Cabbage</b> add either Non-ionic surfactant at 0.25% v/v (or 32 fl. oz.) of finished volume, Or Crop Oil Concentrate (non-phytotoxic)	HELMQUAT 3SL may be used as a postemergent directed spray – shielded application in a minimum of 40 gallons of spray for control of emerged weeds in rows middles in cabbage (including tight head Chinese) and lettuce. Apply with conventional ground equipment directing spray between the rows and using shields to prevent spray contact with crop plants. Use properly configured precision directed spray equipment adjusted to prevent spray

[FL only]	containing 15-20% approved emulsifier, at 1.0 v/v (1 gallon per 100 gallons) of the finished spray volume.  <b>For Lettuce</b> add Non-ionic surfactant at 0.25% v/v (or 32 fl. oz.) of finished volume.	contact with crop plants. Apply when weeds are succulent and weed growth is less than 6" in height. Weeds emerging after application will not be controlled. <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>Outer leaves should be stripped at the time of harvest.</li> <li>Do not allow spray to contact crop as damage or excessive residues may result.</li> </ul>
<b>VEGETABLES:</b> <b>CUCURBITS</b> <b>Crop Group 9:</b> Chayote (fruit), Chinese Waxgourd (Chinese Preserving Melon), Citron Melon, Cucumber, Gherkin <b>Gourd, Edible</b> Hyotan, Cucuzza, Hechima, Chinese okra <b>Momordica spp.</b> Balsam Apple, Balsam Pear, Bitter Melon, Chinese Cucumber <b>Muskmelon</b> True Cantaloupe, Cantaloupe, Casaba, Crenshaw Melon, Golden, Pershaw Melon, Honeydew Melon, Honey Balls, Mango Melon, Persian melon, Pineapple Melon, Santa Claus Melon, Snake Melon, Pumpkin <b>Squash, Summer</b> Crookneck Squash, Scallop Squash, Straightneck Squash, Vegetable Marrow, Zucchini <b>Squash, Winter</b> Butternut Squash, Calabaza,	1.3-2.7 pts..	HELMQUAT 3SL may be used as a preplant/preemergence application - prior to or after planting, but before crop emergence or transplanting. Apply on seeded or transplanted cucurbits by ground application in a minimum of 10 gal/A, or minimum air application of 5 gal/A. Apply as a banded or broadcast treatment. Use the higher rate for heavier weed infestations. Seeding or transplanting should be done with minimum amount of soil disturbance. Can be used in fallow bed/stale seedbed for weed control.
	0.5 – 0.7	Volunteer barley. For use in California, Washington, Oregon, & Idaho ONLY for control of volunteer barley in preformed seedbeds. Apply specified dosage preemergence in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li><b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li><b>REI:</b> 48 hours</li> <li><b>Minimum Application Interval:</b> 14 days</li> <li><b>Maximum Annual Rate:</b> 6.6 pt/A</li> <li><b>DO NOT</b> exceed 2.5 lb ai/A/year of paraquat-containing products.</li> <li><b>DO NOT</b> make more than 3 applications per year.</li> <li><b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	

Hubbard Squash, Acorn Squash, Spaghetti squash Watermelon Including all cultivars, varieties, and/or hybrids of these		
<b>VEGETABLES:</b> <b>CUCURBITS</b> Cucumber, Gherkin, Pumpkin, Squash, Watermelon, Musk Melons, Citron Melon, Chayote Fruit, Chinese Waxgourd, Edible Gourd, <i>Momordica</i> spp. Including all cultivars, varieties, and/or hybrids of these [CA only]	1.25 pts. Add non-ionic surfactant containing at least 50% surface active ingredient at 0.125 - 0.25% v/v (1-2 pints/100 gal) of finished volume.	HELMQUAT 3SL may be used as a directed spray or spot spray in a minimum of 20 gallons of spray for control of emerged weeds between rows after crop establishment. Use properly configured precision directed spray equipment adjusted to prevent spray contact with crop plants. Apply when weeds are succulent and weed growth is less than 6" in height. <b>PRECAUTION</b> <ul style="list-style-type: none"> <li>Do not allow spray to contact cucurbit foliage or fruit as crop damage will occur and render fruit unfit for sale.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li><b>Maximum Single Application Rate:</b> 1.25 pt/A</li> <li><b>REI:</b> 48 hours</li> <li><b>Minimum Application Interval:</b> 7 days</li> <li><b>Maximum Annual Rate:</b> 3.75 pt/A</li> <li><b>DO NOT</b> exceed 1.4 lb ai/A/year of paraquat-containing products.</li> <li><b>DO NOT</b> use where HELMQUAT 3SL (or other paraquat dichloride containing product) has been used as a preplant preemergence spray.</li> <li><b>DO NOT</b> make more than 3 applications per year.</li> <li><b>DO NOT</b> apply this product through any type of irrigation system.</li> <li><b>DO NOT</b> allow animals to graze in treated areas.</li> <li><b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>VEGETABLES:</b> <b>CUCURBITS</b> Cucumber, Melons, Pumpkin and Squash Including all cultivars, varieties, and/or hybrids of these [GA, ME, MD, PA, VA only]	1.3 pts. Add non-ionic surfactant containing at least 50% surface active ingredient at 0.125 - 0.25% v/v (1-2 pints/100 gal) of finished volume.	HELMQUAT 3SL may be used as a directed spray or shielded spray in a minimum of 20 gallons of spray for control of emerged weeds between rows after crop establishment. Use properly configured precision directed spray equipment adjusted to prevent spray contact with crop plants. Apply when weeds are succulent and weed growth is less than 6" in height. <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>Do not allow spray to contact green stems or foliage, as injury may result.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li><b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li><b>REI:</b> 48 hours</li> <li><b>Minimum Application Interval:</b> 7 days</li> <li><b>Maximum Annual Rate:</b> 3.9 pt/A</li> <li><b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li><b>DO NOT</b> make more than 3 applications per year.</li> <li><b>DO NOT</b> apply this product through any type of irrigation system.</li> <li><b>DO NOT</b> allow animals to graze in treated areas.</li> <li><b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> <li><b>DO NOT</b> exceed 30 psi nozzle pressure or spray under conditions which may cause excessive drift.</li> <li><b>DO NOT</b> use on soils with less than 5% clay.</li> <li><b>DO NOT</b> apply after bloom.</li> </ul>	
<b>VEGETABLES:</b> <b>CUCURBITS</b> Cucumber, Melons, Pumpkin and Squash Including all cultivars, varieties, and/or hybrids of these [DE only]	1.3 pts. Add either Non-ionic surfactant containing at least 75% surface active ingredient at 0.25% v/v (2 pints/100 gal) of finished volume, Or Crop Oil Concentrate (non-phytotoxic) containing 15-20% approved emulsifier, at 1.0 v/v (1 gallon per 100 gallons) of the finished spray volume.	HELMQUAT 3SL may be used as a directed spray or shielded spray in a minimum of 20 gallons of spray for control of emerged weeds between rows after crop establishment. Use properly configured precision directed spray equipment adjusted to prevent spray contact with crop plants. Apply when weeds are succulent and weed growth is less than 6" in height. <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>Do not allow spray to contact cucurbit foliage or fruit as crop damage will occur and render fruit unfit for sale.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li><b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li><b>REI:</b> 48 hours</li> <li><b>Minimum Application Interval:</b> 7 days</li> <li><b>Maximum Annual Rate:</b> 3.9 pt/A</li> <li><b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li><b>DO NOT</b> make more than 3 applications per year.</li> <li><b>DO NOT</b> apply this product through any type of irrigation system.</li> <li><b>DO NOT</b> allow animals to graze in treated areas.</li> <li><b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	

	<ul style="list-style-type: none"> <li>• <b>DO NOT</b> exceed 30 psi nozzle pressure or spray under conditions which may cause excessive drift.</li> <li>• <b>DO NOT</b> use on soils with less than 5% clay.</li> <li>• <b>DO NOT</b> apply after bloom.</li> </ul>	
<b>VEGETABLES:</b> <b>CUCURBITS</b> Cucumber, Melons, Pumpkin and Squash Including all cultivars, varieties, and/or hybrids of these [HI only]	1.3 pts. Add either High quality non-ionic surfactant Or Crop Oil Concentrate (non-phytotoxic)	HELMQUAT 3SL may be used as a directed spray or shielded spray in a minimum of 20 gallons of spray for control of emerged weeds between rows after crop establishment. Use properly configured precision directed spray equipment adjusted to prevent spray contact with crop plants. Use even flat tips at 20 to 30 PSI pressure at nozzle, or use twin even flat spray or hollow cone spray tips at 30 PSI at eth nozzle. Do not use tips that require higher operating pressures making droplets susceptible to drift. Do not use tips that produce large droplets as performance will be reduced. Avoid excessive speed as it may cause spray to contact the crop when the boom bounces. Apply when weeds are succulent and weed growth is less than 6" in height. <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact cucurbit foliage or fruit as crop damage will occur and render fruit unfit for sale.</li> <li>• Do not spray in high wind favoring drift onto crop.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 3.9 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> apply this product through any type of irrigation system.</li> <li>• <b>DO NOT</b> allow animals to graze in treated areas.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 8 days</li> <li>• <b>DO NOT</b> exceed 30 psi nozzle pressure or spray under conditions which may cause excessive drift.</li> <li>• <b>DO NOT</b> use on soils with less than 5% clay.</li> <li>• <b>DO NOT</b> apply after bloom.</li> </ul>	
<b>VEGETABLES:</b> <b>CUCURBITS</b> <sup>1</sup> Cucumber, Melons, Pumpkin and Squash Including all cultivars, varieties, and/or hybrids of these [NJ only]	1.3 pts. Add either non-ionic surfactant containing at least 75% surface active ingredient at 0.25% v/v (2 pints/100 gal) of finished volume, Or Crop Oil Concentrate (non-phytotoxic) containing 15-20% approved emulsifier, at 1.0 v/v (1 gallon per 100 gallons) of the finished spray volume.	HELMQUAT 3SL may be used as a directed spray or shielded spray in a minimum of 20 gallons of spray for control of emerged weeds between rows after crop establishment. Use properly configured precision directed spray equipment adjusted to prevent spray contact with crop plants. Apply when weeds are succulent and weed growth is less than 6" in height. <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact cucurbit foliage or fruit as crop damage will occur and render fruit unfit for sale.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 3.9 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> apply this product through any type of irrigation system.</li> <li>• <b>DO NOT</b> allow animals to graze in treated areas.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 14 days</li> <li>• <b>DO NOT</b> exceed 30 psi nozzle pressure or spray under conditions which may cause excessive drift.</li> <li>• <b>DO NOT</b> use on soils with less than 5% clay.</li> <li>• <b>DO NOT</b> apply after bloom.</li> </ul>	
<b>VEGETABLES:</b> <b>CUCURBITS</b> Cucumber, Gherkin, Pumpkin, Squash, Watermelon, Musk Melons, Citron Melon, Chayote Fruit, Chinese Waxgourd, Edible Gourd, <i>Momordica</i> spp. Including all cultivars, varieties, and/or hybrids	1.3-1.6 pts. Add non-ionic surfactant containing at least 50% surface active ingredient at 0.125 - 0.25% v/v (1-2 pints/100 gal) of finished volume.	HELMQUAT 3SL may be used as a directed spray or shielded spray in a minimum of 20 gallons of spray for control of emerged weeds between rows after crop establishment. Use properly configured precision directed spray equipment adjusted to prevent spray contact with crop plants. Apply when weeds are succulent and weed growth is less than 6" in height. <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact cucurbit foliage or fruit as crop damage will occur and render fruit unfit for sale.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.6 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.8 pt/A</li> </ul>	

of these [TN only]	<ul style="list-style-type: none"> <li>• <b>DO NOT</b> exceed 1.8 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> apply this product through any type of irrigation system.</li> <li>• <b>DO NOT</b> allow animals to graze in treated areas.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 1 day</li> <li>• <b>DO NOT</b> use on soils with less than 5% clay</li> <li>• <b>DO NOT</b> apply after bloom</li> </ul>	
<b>VEGETABLES:</b> <b>CUCURBITS</b> Cabbage, Cucumber, Melons and Squash Including all cultivars, varieties, and/or hybrids of these [OH only]	1.5 pts.	<b>Postemergence (Directed/Shielded Spray):</b> Use for control or suppression of emerged weeds between rows after crop establishment. Apply as a ground directed spray in a minimum of 20 gal/A spray volume when weeds are succulent and weed growth is less than 6". Use precision directed spray equipment adjusted to prevent spray contact with crop plants. Always use a high quality non-ionic surfactant. Do not exceed 30 psi nozzle pressure or spray under conditions which may cause excessive drift. <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact melon plants as excessive residue may result.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.5 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 3.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.1 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> apply after bloom.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> use on soils with less than 5% clay.</li> <li>• <b>DO NOT</b> apply this product through any type of irrigation system.</li> <li>• <b>DO NOT</b> allow animals to graze in treated areas.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity</li> </ul>	
<b>VEGETABLES:</b> <b>Melons</b> Including all cultivars, varieties, and/or hybrids of these [FL only]	1.3-2.5 pts. Add non-ionic surfactant at 16-32 oz per 100 gallons of finished volume.	HELMQUAT 3SL may be used as a directed spray or shielded spray in a minimum of 40 gallons of spray for control of emerged succulent weeds. For use when weed growth is up to 6" high. For kill of emerged annual weeds and for top kill and suppression of emerged perennial weeds. Apply with conventional ground equipment directing spray between the rows and use shields to prevent spray contact with crop plants. Weeds and grasses emerging after application will not be controlled <b>PRECAUTIONS</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact melon plants as excessive residue may result.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.5 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 5.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.9 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> apply this product through any type of irrigation system.</li> <li>• <b>DO NOT</b> allow animals to graze in treated areas.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity</li> </ul>	
<b>VEGETABLES:</b> <b>Leafy, Brassica (Cole)</b> <b>Seeded or Transplanted</b> Broccoli; Cabbage; Cauliflower; Cavalo Broccolo; Chinese Cabbage Collards Including all cultivars, varieties, and/or hybrids of these	1.3-2.7 pts.	Apply specified dosage preplant or preemergence in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. Applications can be made as a banded or broadcast treatment before, during, or after planting but prior to the crop emergence. Seedbeds or plantbeds should be formed as far ahead of treatment as possible to permit maximum weed emergence. Use the higher specified rate for heavier weed infestations. Seeding or transplanting should be done with a minimal amount of soil disturbance. Crop plants emerged at time of application will be killed. HELMQUAT 3SL may be used in fallow bed/stale seedbed for weed control alone or tank mixed with oxyfluorfen. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity</li> </ul>	
<b>VEGETABLES:</b> <b>Leafy, Except Brassica Vegetables</b>	1.3-2.7 pts.	Apply specified dosage preplant or preemergence in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. Applications can be made as a banded or broadcast treatment before, during, or after planting but prior to the crop emergence. Seedbeds or plantbeds should be formed as far



<b>Seeded or Transplanted</b> Endive (Escarole); Lettuce Including all cultivars, varieties, and/or hybrids of these		ahead of treatment as possible to permit maximum weed emergence. Use the higher specified rate for heavier weed infestations. Seeding or transplanting should be done with a minimal amount of soil disturbance. Crop plants emerged at time of application will be killed. HELMQUAT 3SL may be used in fallow bed/stale seedbed for weed control alone or tank mixed with oxyfluorfen. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply.
	0.5 – 0.7	Volunteer barley in lettuce. For use in California, Washington, Oregon, & Idaho ONLY for control of volunteer barley in preformed seedbeds. Apply specified dosage preemergence in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for preemergence uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 applications per year on lettuce and endive.</li> <li>• <b>DO NOT</b> make more than 2 applications per year on volunteer barley in lettuce.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity</li> </ul>	
<b>VEGETABLES: Fruiting Preplant and Preemergence, Crop Group 8,</b> Eggplant, Groundcherry Pepino, Peppers, Tomatillos Including all cultivars, varieties, and/or hybrids of these	1.3-2.7	Application Timing: Preplant/Preemergence. Before, during, or after planting but prior to crop emergence. Apply specified dosage as a directed spray preplant or preemergence in a minimum of 10 gallons of spray per acre by ground to control or suppress emerged weeds. Use higher rate for heavier weed infestations. Seeding or transplanting should be done with a minimum amount of soil disturbance. Can be used in fallow bed/stale seedbed for weed control alone or in tank mix. <b>PRECAUTION</b> <ul style="list-style-type: none"> <li>• Crop plants emerged at time of application will be killed.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 14 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for preplant/preemergence uses.</li> <li>• <b>DO NOT</b> exceed 4.5 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> allow animals to graze in treated areas.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>VEGETABLES: Fruiting Post Directed Application</b> Eggplant, Peppers Including all cultivars, varieties, and/or hybrids of these	1.3 pts.	Application Timing: Postemergence (Direct Spray) Use for control or suppression of emerged weeds between rows after crop establishment. Apply specified dosage as a directed spray in a minimum of 10 gallons of spray per acre. Apply when weeds are succulent and weed growth is less than 6". Use precision directed spray application equipment adjusted to prevent spray contact with crop plants. <b>PRECAUTION</b> <ul style="list-style-type: none"> <li>• To minimize drift, do not use nozzles or nozzle configurations which produce fine spray droplets (mist).</li> <li>• Do not allow spray to contact crop foliage or treat under conditions which will cause spray drift.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 14 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products for postemergence uses.</li> <li>• <b>DO NOT</b> exceed 4.5 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> allow animals to graze in treated areas.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>VEGETABLES: Fruiting</b> Okra Including all cultivars, varieties, and/or hybrids of these	1.3-2.7	Application Timing: Preemergence Apply by ground application in a minimum of 20 gal/A spray volume. Make the preemergence application as a broadcast spray and the postemergence application as a directed spray. Preemergence applications must be made before crop emergence. <b>PRECAUTION</b> <ul style="list-style-type: none"> <li>• Do not allow spray to contact okra plant.</li> </ul>

	1.3	<p>Application Timing: Postemergence (Direct Spray) Apply by ground application in a minimum of 20 gal/A spray volume.</p> <p><b>PRECAUTION</b> Do not allow spray to contact okra plant.</p>
	<p><b>RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> preemergence 2.7 pt/A / postemergence 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 14 days</li> <li>• <b>Maximum Annual Rate:</b> 5.3 pt/A</li> <li>• <b>DO NOT</b> exceed 2.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> exceed 4.5 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 1 pre-emergence and/or 2 post-emergence applications per year</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 21 days.</li> </ul>	
<p><b>VEGETABLES:</b> Tomatoes Including all cultivars, varieties, and/or hybrids of these</p>	1.3-2.7 pts.	<p>Application Timing: Preplant/Preemergence. Before, during, or after planting but prior to crop emergence. Use the higher rate for heavier weed infestations. Seeding or transplanting should be done with a minimum amount of soil disturbance. Can be used in fallow bed/stale seedbed for weed control alone or in tank mix.</p>
	0.5-0.7 pts.	<p>Volunteer barley. Application Timing: Preemergence For use in California, Washington, Oregon, &amp; Idaho ONLY for control of volunteer barley in preformed seedbeds. Apply specified dosage preemergence in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air.</p>
	1.3 pts.	<p><b>Postemergence (Directed Spray):</b> Use for control or suppression of emerged weeds between rows after crop establishment. Apply as a ground directed spray in a minimum of 10 gal/A of spray volume. Apply when weeds are succulent and weed growth is less than 6". Use precision directed spray application equipment adjusted to prevent spray contact with crop plants.</p>
	1.6 – 2.5 pts.	<p><b>After Final Harvest:</b> Apply specified dosage after final harvest in 40-120 gallons of spray per acre (0.62-0.93 lb. a.i./A) by ground. Add NIS containing 75% or more surface active agent at 0.125% v/v (1 pt./100 gallons spray solution). Thorough coverage of the tomato vines is required to ensure maximum herbicide burndown. Use of dirty or muddy water may deactivate HELMQUAT 3SL. Burn tomato vines with propane burners as soon as possible after the vines have dried down sufficiently to help with the removal of Sweet Potato Whitefly.</p>
	<p><b>RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> preemergence 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 8.0 pt/A</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for preplant/preemergence applications.</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products for post directed applications.</li> <li>• <b>DO NOT</b> exceed 1.875 lb ai/A/year of paraquat-containing products for post-harvest uses.</li> <li>• <b>DO NOT</b> exceed 3.0 lb ai/A/year of paraquat-containing products for all combined uses</li> <li>• <b>DO NOT</b> exceed 4.5 lb ai/A/year of paraquat-containing products for all combined uses.</li> <li>• <b>DO NOT</b> make more than 3 preemergence/preplant applications per year.</li> <li>• <b>DO NOT</b> make more than 3 directed postemergence applications per year.</li> <li>• <b>DO NOT</b> make more than 2 post-harvest vine desiccation applications per year.</li> <li>• <b>DO NOT</b> allow animals to graze in treated areas.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 30 days.</li> </ul>	
<p><b>VEGETABLES:</b> Rhubarb Including all cultivars, varieties, and/or hybrids of these</p>	1.7-2.7 pts.	<p>Apply specified dosage as a dormant application in a minimum of 10 gallons of spray per acre by ground. Apply before buds in the crown begin to grow.</p>
	<p><b>RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 5.4 pt/A</li> <li>• <b>DO NOT</b> exceed 2.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 application per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	



<b>VEGETABLES:</b> <b>Vine Desiccation</b> Including all cultivars, varieties, and/or hybrids of these [DE and GA only]	1.5-2.0 pts. Add non-ionic surfactant at 0.25% v/v (2 pints/100 gal) of finished volume.	Application Timing: Postharvest HELMQUAT 3SL may be used as a post-harvest desiccation broadcast spray in a minimum of 10 gallons of spray in vegetable vines. Apply as a broadcast spray over-the-top of plants following harvest. Use properly configured precision directed spray equipment adjusted to prevent spray contact with crop plants. Apply when weeds are succulent and weed growth is less than 6" in height.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.0 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 application per year.</li> <li>• <b>DO NOT</b> apply this product through any type of irrigation system.</li> <li>• <b>DO NOT</b> graze livestock in treated area.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	
<b>WHEAT:</b> <b>Salvage treatment for suppression of volunteer rye and downy brome</b> Including all cultivars, varieties, and/or hybrids of these [ID only]	Volunteer Rye: 5.3-8 fl. oz. (0.33-0.5 pt)  Downy Brome: 8 fl. oz. (0.5 pt)  For either add non-ionic surfactant containing at least 50% surface active ingredient at 0.25 to 0.50% v/v (1-2 pints/100 gal) of	HELMQUAT 3SL may be used as a postemergence broadcast (salvage) spray in a minimum of 20 gallons by ground and in a minimum of 5 gallons by air for the suppression of volunteer rye and downy brome (cheatgrass) in wheat where the weeds are present in sufficient quantities to cause reduction in wheat yield and quality. Apply after wheat plants have developed five tillers or six inches in height in the spring and prior to emergence of the head from the boot. Failure to comply with these instructions increases the likelihood of crop injury and may excessive residues may result. Yield reduction may occur at any stage of growth. Yield reductions can be expected in exchange for improved grain quality.  <b>NOTE: This salvage spray should only be used when wheat population is in danger of being severely reduced by rye or downy brome (cheatgrass) competition and where reseeding is the only other alternative.</b>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 0.5 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> Not Applicable</li> <li>• <b>Maximum Annual Rate:</b> 0.5 pt/A</li> <li>• <b>DO NOT</b> exceed 0.19 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 1 application per year.</li> <li>• <b>DO NOT</b> apply this product through any type of irrigation system.</li> <li>• <b>DO NOT</b> graze treated fields or feed treated forage or straw to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Harvest crop at normal maturity.</li> </ul>	

#### RESIN SOAKING: Pines (Loblolly, Shortleaf, Longleaf, Slash, Virginia, Pond, Pitch, Spruce Pines)

**Tree Selection**—Select trees to be treated from stands on sites not subject to periods of extreme drought stress as the desiccating effect of HELMQUAT 3SL to pines is accentuated during such periods, causing a reduction in the amount of oleoresin deposited in the xylem. Select trees to be treated from vigorous, nonstagnated stands, either natural or planted. In stagnated stands or commercial timber stands, plan treating with HELMQUAT 3SL not sooner than three years after a commercial thinning.

**Application Directions**—Apply HELMQUAT 3SL diluted in water to a suitable wound in the tree trunk to bring the treatment into contact with the xylem (sapwood).

**Bark Streaks or Cuts**—This type of wound is made using a standard or rotary bark hack or a chainsaw chipping tool (employed in naval stores work) to remove a single 1" wide streak of bark about 1-2 ft. from ground level. The total length should not exceed 1/3 of the tree circumference. Multiple streaks or cuts can result in serious girdling of the trunk and premature death of the tree. A coarse spray (about 1.7-5.0 ml) of HELMQUAT 3SL solution (1-5% cation; wt./wt. basis) should be applied to runoff to the exposed xylem, using a low-pressure sprayer. The amount of spray required per cut depends on tree circumference and the length of cut or streak. For a 9" diameter tree, 3 ml. of spray will cover the 1" wide streak. Using 3 ml. of a 2 or 4% HELMQUAT 3SL solution will result in application of 60 or 120 mg. of HELMQUAT 3SL per streak.

**Time of Treatment**—Resin soaking can occur from treatments made any time of the year; however, cool season treatments under nondrought conditions usually result in less severe pine beetle infestations and longer tree life.

**Interval Between Treatment and Tree Harvest**—The interval between application of HELMQUAT 3SL and tree harvest should be a minimum of 6 months and preferably from 12-24 months. Intervals of over 6 months may not be possible under conditions of drought or serious pine beetle attacks, which may make early harvest necessary. The HELMQUAT 3SL treatment may encourage beetle attack or may cause premature death of the tree. Desiccation of the xylem tissue rather than the desired resin soaking may occur, and is more likely at higher dosage rates.

**Effect on Stem Growth**—HELMQUAT 3SL treatment can result in reduced stem growth during the interval between treatment and tree harvest.

Dilution Table for HELMQUAT 3SL (3.0 lbs. cation per gallon)	
Concentration of Cation Desired (wt./wt. Basis)	Add the Following Number of Gallons of Water to 2/3 Gallon of HELMQUAT 3SL
0.2%	118.8
0.5%	46.8
1.0%	22.9
2.0%	10.9
3.0%	6.9
4.0%	4.9
5.0%	3.7

CROP	DOSAGE (RATE PER ACRE)	COMMENTS
<b>CONSERVATION RESERVE, FEDERAL SET-ASIDE, CONSERVATION COMPLIANCE PROGRAMS</b> For use in compliance with the Federal Conservation Reserve Program or Federal set-aside programs	1.7-2.7 pts.	Apply specified dosage as a broadcast application in a minimum of 10 gallons of spray per acre by ground and 5 gallons of spray per acre by air. HELMQUAT 3SL may be tank mixed with other registered herbicides to improve weed control. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product label(s). In interpreting the label(s) of tank mixed products, the most restrictive label limitations must apply. <b>PRECAUTION:</b> Avoid contact with the foliage of ornamentals or desired plants.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 5.3 pt/A</li> <li>• <b>DO NOT</b> exceed 2.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> graze treated areas or feed treated cover crops to livestock.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Not Applicable</li> </ul>	
<b>NONCROP USES</b> Noncrop Uses Including the Following: public airports, electric transformer stations, pipeline pumping stations, around commercial buildings, storage yards and other installations, fence lines and similar noncrop areas	1.7-2.7 pts.	Apply specified dosage as a broadcast application or spot treatment in a minimum of 10 gallons of spray per acre by ground. Repeat applications as necessary being careful to avoid contact with foliage of ornamentals or desirable plants. <b>PRECAUTION</b> <ul style="list-style-type: none"> <li>• Avoid contact with the foliage of ornamentals or desired plants.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 27.0 pt/A</li> <li>• <b>DO NOT</b> exceed 10.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 10 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Not Applicable</li> </ul>	

<b>PASTURE RESEEDING</b> For suppression of existing sod and undesirable emerged broadleaf weeds and grasses prior to or at time of planting grasses or forage legumes	0.7-1.3 pts.	Apply specified dosage as a broadcast application in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. <b>West of Cascade and Sierra Nevada Mountains</b> <ul style="list-style-type: none"> <li>• Apply in October through December after first fall rains and after weeds have emerged and sod has started new growth.</li> <li>• For best seeding results, apply on moderately to heavily grazed areas.</li> <li>• Do not use in areas with heavy sod and weed growth.</li> </ul> <b>East of Rocky Mountains</b> <ul style="list-style-type: none"> <li>• Use the 1.3 pt. rate on vigorous or coarse sod species such as brome grass.</li> <li>• Apply prior to or at time of seeding grasses or forage legumes.</li> <li>• Apply only to grazed or mowed pastures not more than 3" in height at time of treatment.</li> </ul> <b>Bermudagrass or Bahiagrass Sods</b> <ul style="list-style-type: none"> <li>• Apply in late summer or early fall to sod not exceeding 3" in height. For control of emerged little barley, apply in February or March before the mid-boot stage of little barley.</li> </ul> <b>Bermudagrass and Coastal Bermudagrass Pastures</b> <ul style="list-style-type: none"> <li>• Apply when bermudagrass is dormant.</li> <li>• For control of little barley, apply before the mid-boot stage.</li> <li>• Do not mow for hay until 40 days after treatment.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li>• <b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> mow Bermudagrass for hay until 40 days after treatment.</li> <li>• <b>DO NOT</b> graze or cut for forage or hay until regrowth is sufficient, but no sooner than 40 days after treatment.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> 40 days</li> </ul>	
<b>For Control of Endophyte Fungus- Infected Fescue Forage Legume/Grass Mixture and Other Grass Pastures</b>	0.7-1.3 pts. followed by 0.7-1.3 pts.	Apply specified dosage as a broadcast application in a minimum of 10 gallons of spray per acre by ground when fescue is actively growing and is no more than 4' high. If necessary, use split applications of 10-21 days apart. For spring plantings, the initial application of 0.7-1.3 pints may be made the previous fall. <b>PRECAUTION</b> <ul style="list-style-type: none"> <li>• To reduce the infestation of endophyte-infested grass, do not allow fescue to go to seed starting with the preceding year's crop.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 10 days</li> <li>• <b>Maximum Annual Rate:</b> 2.7 pt/A</li> <li>• <b>DO NOT</b> exceed 1.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Not Applicable</li> </ul>	
<b>For Prickly Pear Desiccation in Pastures</b> [Not for use in CA]	0.8 fl. oz. per gallon of water (spot sprays)	Apply specified dosage in sufficient volume to spray to wet the weed foliage using manually pressurized handwands which directs the spray onto weed foliage. Mix the specified rate of HELMQUAT 3SL with 1/3 fluid ounces of a nonionic surfactant per gallon of water. Completely and uniformly cover all green prickly pear foliage with spray. Apply in May through September for best desiccation results. Do not use more than 1.6 pints of HELMQUAT 3SL Herbicide per acre per year. Apply only to pastures with no more than 3" of height at time of treatment. Tank mix with 2,4-D and picloram herbicide at specified label rate for improved desiccation and perennial control of Prickly pear. Always refer to the 2,4-D and picloram herbicide label for weeds controlled, rates of applications, directions for use, limitations, and restrictions.
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• <b>Maximum Single Application Rate:</b> 0.8 pt/A</li> <li>• <b>REI:</b> 48 hours</li> <li>• <b>Minimum Application Interval:</b> 7 days</li> <li>• <b>Maximum Annual Rate:</b> 1.6 pt/A</li> <li>• <b>DO NOT</b> exceed 10.0 lb ai/A/year of paraquat-containing products.</li> <li>• <b>DO NOT</b> make more than 10 applications per year.</li> <li>• <b>Pre-Harvest Interval (PHI):</b> Not Applicable</li> </ul>	

<b>For Juniper Species leaf moisture reduction or desiccation prior to Prescribed burning of pastures</b> [Not for use in CA]	1.3 pts.	Apply specified dosage as a broadcast application during hot, dry weather conditions (generally July and August) in a minimum of 5 gallons of spray per acre by air. Use only in conjunction with prescribed burning as recommended and monitored by local SCS or University and Extension Range Specialists. Use 2% v/v noionic surfactant in a minimum of 5 gpa spray solution. Juniper leaf moisture content should be monitored; however, maximum leaf moisture reduction generally occurs 2-4 weeks after Helmquat 3SL application. <b>PRECAUTION</b> <ul style="list-style-type: none"> <li>Significant soil moisture and/or wet weather conditions prior to or after application will decrease the potential for Juniper crown burns.</li> <li>Cool or humid weather conditions also adversely affect leaf moisture reduction.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li><b>Maximum Single Application Rate:</b> 1.3 pt/A</li> <li><b>REI:</b> 48 hours</li> <li><b>Minimum Application Interval:</b> 7 days</li> <li><b>Maximum Annual Rate:</b> 4.0 pt/A</li> <li><b>DO NOT</b> exceed 1.5 lb ai/A/year of paraquat-containing products.</li> <li><b>DO NOT</b> make more than 3 applications per year.</li> <li><b>DO NOT</b> graze livestock after application or prior to burning.</li> <li><b>Pre-Harvest Interval (PHI):</b> Not Applicable</li> </ul>	
<b>Native Pastures</b> [Not for use in CA]	1.0-1.2 pts.	Apply specified dosage as a broadcast application in a minimum of 10 gallons of spray per acre by ground or 5 gallons of spray per acre by air. For the control of downy and Japanese brome, apply in the spring after 90% node formation of brome species but before full bloom. Apply only to pastures with no more than 3" of height at the time of treatment. <b>PRECAUTION</b> <ul style="list-style-type: none"> <li>Emerged native perennial grasses will be burned by application, but application after 90% node formation will allow adequate time for native grasses to recover and attain maximum growth in the use season.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li><b>Maximum Single Application Rate:</b> 1.2 pt/A</li> <li><b>REI:</b> 48 hours</li> <li><b>Minimum Application Interval:</b> 7 days</li> <li><b>Maximum Annual Rate:</b> 1.2 pt/A</li> <li><b>DO NOT</b> exceed 0.45 lb ai/A/year of paraquat-containing products.</li> <li><b>DO NOT</b> make more than 2 applications per year.</li> <li><b>DO NOT</b> graze or cut for forage or hay until regrowth is sufficient.</li> <li><b>Pre-Harvest Interval (PHI):</b> Not Applicable</li> </ul>	
<b>TREE, WINDBREAK, SHADE, AND ORNAMENTAL</b> Other shade and ornamental trees including arborvitae, ash, elm, fir, oak, pine, etc. Including all cultivars, varieties, and/or hybrids of these	1.7 – 2.7 pts.	<b>Postemergence (Directed Spray)</b> Apply as a directed spray by ground in a minimum of 10 gal/A spray volume. When used for control of mature woody weeds, perennial weeds, late germinating weeds, late germinating weeds and green suckers, retreatment or spot treatment may be necessary. Use a shield or wrap plant when spraying around young trees or vines. <b>Precautions:</b> <ul style="list-style-type: none"> <li>Do not allow spray to contact green stems (except suckers), or foliage.</li> <li>Use a shield or wrap plant when spraying around young trees or vines.</li> </ul>
	<b>RESTRICTIONS</b> <ul style="list-style-type: none"> <li><b>Maximum Single Application Rate:</b> 2.7 pt/A</li> <li><b>REI:</b> 48 hours</li> <li><b>Minimum Application Interval:</b> 7 days</li> <li><b>Maximum Annual Rate:</b> 13.3 pt/A</li> <li><b>DO NOT</b> exceed 5.0 lb ai/A/year of paraquat-containing products.</li> <li><b>DO NOT</b> make more than 5 applications per year.</li> <li><b>DO NOT</b> graze treated areas.</li> <li><b>DO NOT</b> feed cover crops grown in treated areas to livestock.</li> <li><b>Pre-Harvest Interval (PHI):</b> Not Applicable</li> </ul>	

<div>Conversion Table</div> <div>HELMQUAT 3SL to be Applied</div>				
Fluid Ounces	Pints	Gallons	lbs AI (3 lb cation)	Acres / Gallon
2.56	0.16	0.02	0.060	50.00
4.74	0.30	0.04	0.111	27.03
5.33	0.33	0.04	0.125	24.00
5.55	0.35	0.04	0.130	23.08
8.00	0.50	0.06	0.188	16.00
9.81	0.61	0.08	0.230	13.04
10.03	0.63	0.08	0.235	12.77
10.67	0.67	0.08	0.250	12.00
11.22	0.70	0.09	0.263	11.41
16.00	1.00	0.13	0.375	8.00
19.20	1.20	0.15	0.450	6.67
20.00	1.25	0.16	0.469	6.40
20.72	1.30	0.16	0.486	6.18
21.33	1.33	0.17	0.500	6.00
24.00	1.50	0.19	0.563	5.33
26.67	1.67	0.21	0.625	4.80
28.00	1.75	0.22	0.656	4.57
32.00	2.00	0.25	0.750	4.00
38.40	2.40	0.30	0.900	3.33
40.02	2.50	0.31	0.938	3.20
40.11	2.51	0.31	0.940	3.19
42.67	2.67	0.33	1.000	3.00
43.20	2.70	0.34	1.013	2.96
48.00	3.00	0.38	1.125	2.67
56.00	3.50	0.44	1.313	2.29
59.73	3.73	0.47	1.400	2.14
64.00	4.00	0.50	1.500	2.00
81.07	5.07	0.63	1.900	1.58
85.33	5.33	0.67	2.000	1.50
106.67	6.67	0.83	2.500	1.20
119.47	7.47	0.93	2.800	1.07
123.73	7.73	0.97	2.900	1.03
128.00	8.00	1.00	3.000	1.00
160.43	10.03	1.25	3.760	0.80
192.00	12.00	1.50	4.500	0.67
213.33	13.33	1.67	5.000	0.60
256.00	16.00	2.00	6.000	0.50
426.67	26.67	3.33	10.000	0.30

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store at temperatures above 32° F. For help with any spill, leak or fire involving this material, call Chemtrec at 1-800-424-9300.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:**

**NONREFILLABLE CONTAINER:**

**Nonrefillable Container Greater than or Equal to 120 Gallons:** Nonrefillable Container. Do not reuse or refill this container. Triple rinse promptly after emptying.

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

**REFILLABLE CONTAINER:**

**Refillable Container Greater than or Equal to 120 Gallons and Bulk:**

**Refillable Container.** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the 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. After triple rinsing is complete, and the container is not suitable for refilling or reconditioning, offer the container for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.**

Accelerate® is a trademark of Cerexagri, Inc.

Viton® is a trademark of E.I. du Pont de Nemours & Co., Inc.

**WARRANTY STATEMENT**

HELM Agro US, INC. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of HELM Agro US, INC. To the extent consistent with applicable law, HELM Agro US, INC. shall not be liable for consequential, special, or indirect damages resulting from the use or handling of this product. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except as expressly provided herein, HELM Agro US, INC. makes no warranties, guarantees, or representations of any kind, either expressed or implied, or by usage of trade, statutory or otherwise, with regard to the product sold, including, but not limited to merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. To the extent consistent with applicable law, the exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at HELM Agro US, INC.'s election, the replacement of this product.

[Optional Alternate Warranty {to be used as an optional replacement to CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY section}]

**WARRANTY DISCLAIMER**

**The EPA approved directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.**



#### **LIMITATION OF LIABILITY**

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR RISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.






**Required Language for Product Cap Sticker and Product Package  
Safety Requirements Sticker to be affixed to all Paraquat Dichloride  
Product Containers**

**PRODUCT CAP STICKER**

**DANGER  
ONE SIP CAN KILL**





**PELIGRO  
UN SORBO PUEDE  
CAUSAR LA MUERTE**


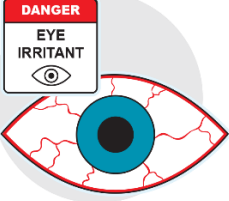


<b>PRODUCT PACKAGE SAFETY REQUIREMENTS STICKER</b>		
<b>NEVER TRANSFER THIS PRODUCT INTO FOOD OR BEVERAGE CONTAINERS OR CONTAINERS NOT EXPLICITLY INTENDED FOR PESTICIDES.</b>	<b>NUNCA TRANSFEIERA ESTE PRODUCTO A RECIPIENTES PARA COMIDA O DE BEBIDAS O RECIPIENTES NO EXPLÍCITAMENTE PREVISTOS PARA PLAGUICIDAS.</b>	
<b>ONE SIP CAN KILL.</b>	<b>UN SORBO PUEDE CAUSAR LA MUERTE.</b>	
<b>CONTACT WITH SKIN MAY RESULT IN POISONING.</b>	<b>EL CONTACTO CON LA PIEL PUEDE CAUSAR ENVENENAMIENTO.</b>	
<b>EXPOSURE TO EYES MAY CAUSE SUBSTANTIAL EYE INJURY.</b>	<b>EXPOSICIÓN A LOS OJOS PUEDE CAUSAR LESIONES SUSTANCIALES EN LOS OJOS.</b>	
<b>PARAQUAT SHOULD ALWAYS BE STORED TIGHTLY CLOSED IN ORIGINAL CONTAINER, AND IN A LOCKED PLACE AWAY FROM CHILDREN AND ANIMALS.</b>	<b>EL PARAQUAT DEBE ALMACENARSE SIEMPRE CERRADO EN SU RECIPIENTE ORIGINAL, Y EN UN LUGAR CERRADO, ALEJADO DE NIÑOS Y ANIMALES.</b>	

<b>READ ENTIRE LABEL PRIOR TO USING THIS PRODUCT.</b>	<b>LEA LA ETIQUETA COMPLETA ANTES DE USAR ESTE PRODUCTO.</b>	
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### Extended Counter Card Example

(The Counter Card will be distributed at the point of sale)

<b>COUNTER CARD</b>		
<p>Helmquat 3SL contains the active ingredient paraquat dichloride (paraquat). People have died from accidentally drinking paraquat containing products that had been transferred into a beverage container, such as a water bottle or other drink bottle. It is also highly corrosive and can cause severe skin and eye damage including 3<sup>rd</sup> degree burns. Inhalation exposure may result in serious respiratory effects. FATAL if swallowed or inhaled.</p>		<p>Helmquat 3SL contiene el ingrediente activo dicloruro de paraquat (paraquat). Hay personas que han muerto por beber accidentalmente productos que contienen paraquat que se habían transferido a un recipiente de bebidas, como una botella de agua u otra botella de bebida. También es altamente corrosivo y puede causar daños graves en la piel y los ojos, incluyendo quemaduras de tercer grado. La exposición por inhalación puede provocar efectos respiratorios graves. FATAL si se ingiere o inhala.</p>
<b>PROPER STORAGE AND HANDLING</b>	<b>ALMACENAMIENTO Y MANEJO ADECUADOS</b>	
<b>NEVER TRANSFER HELMQUAT 3SL INTO FOOD OR BEVERAGE CONTAINERS OR CONTAINERS NOT EXPLICITLY INTENDED FOR HELMQUAT 3SL.</b>	<b>NUNCA TRANSFIERA HELMQUAT 3SL A RECIPIENTES PARA COMIDA O DE BEBIDAS O RECIPIENTES NO EXPLÍCITAMENTE PREVISTOS PARA HELMQUAT 3SL.</b>	
<b>ONE SIP CAN KILL.</b>	<b>UN SORBO PUEDE CAUSAR LA MUERTE.</b>	

<p><b>CONTACT WITH SKIN MAY RESULT IN POISONING.</b></p>	<p><b>EL CONTACTO CON LA PIEL PUEDE RESULTAR EN ENVENENAMIENTO.</b></p>	
<p><b>EXPOSURE TO EYES MAY CAUSE SUBSTANTIAL EYE INJURY.</b></p>	<p><b>LA EXPOSICIÓN A LOS OJOS PUEDE CAUSAR LESIONES GRAVES A LOS OJOS.</b></p>	
<p><b>PARAQUAT SHOULD ALWAYS BE STORED TIGHTLY CLOSED IN ORIGINAL CONTAINER, AND IN A LOCKED PLACE AWAY FROM CHILDREN AND ANIMALS.</b></p>	<p><b>EL PARAQUAT DEBE ALMACENARSE SIEMPRE CERRADO EN SU RECIPIENTE ORIGINAL, Y EN UN LUGAR CERRADO, ALEJADO DE NIÑOS Y ANIMALES.</b></p>	
<p><b>READ ENTIRE LABEL PRIOR TO USING THIS PRODUCT.</b></p>	<p><b>LEA LA ETIQUETA COMPLETA ANTES DE USAR ESTE PRODUCTO.</b></p>	
<p><b>DISREGARDING LABEL DIRECTIONS IS A VIOLATION OF FEDERAL LAW AND IS PUNISHABLE BY SUCH.</b></p>		<p><b>NO SEGUIR LAS INDICACIONES DE LA ETIQUETA REPRESENTA UNA INFRACCIÓN DE LA LEY FEDERAL Y ES PENADO COMO TAL.</b></p>
<p><b>USE REQUIREMENTS</b></p>		<p><b>REQUISITOS DE USO</b></p>
<ul style="list-style-type: none"> <li>• TO PREVENT SEVERE INJURY OR DEATH, FOLLOW ALL LABEL REQUIREMENTS.</li> </ul>		<ul style="list-style-type: none"> <li>• PARA EVITAR LESIONES GRAVES O LA MUERTE, SIGA TODOS LOS REQUERIMIENTOS DE LA ETIQUETA.</li> </ul>
<ul style="list-style-type: none"> <li>• TO BE USED BY CERTIFIED APPLICATORS ONLY – <u>NOT</u> TO BE USED BY UNCERTIFIED PERSONS WORKING UNDER THE SUPERVISION OF A CERTIFIED APPLICATOR.</li> </ul>		<ul style="list-style-type: none"> <li>• PARA SER UTILIZADO SOLO POR APLICADORES CERTIFICADOS: <u>NO</u> DEBE SER UTILIZADO POR PERSONAS NO CERTIFICADAS QUE TRABAJAN BAJO LA SUPERVISIÓN DE UN APLICADOR</li> </ul>

	<b>CERTIFICADO.</b>
<ul style="list-style-type: none"> <li>Applicators and other handlers (other than Mixers and Loaders) must wear: long-sleeve shirt and long pants, chemical-resistant shoes plus socks, protective eyewear (goggles, face shield, safety glasses), and waterproof gloves, except wear chemical-resistant gloves (Barrier Laminate, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, or Viton® ≥14 mils gloves) when mixed with oil.</li> </ul> <p>For other handlers (other than mixers and loaders): Wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any R or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters. For applicators: When applying to 80 acres or less in a 24-hour period, if not using an enclosed cab, applicators must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any R or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters. For applicators: When applying to more than 80 acres in a 24-hour period, applications must be made using an enclosed cab. Enclosed cabs must have a nonporous barrier that totally surrounds occupant and prevents contact with pesticides outside of the cab.</p>	<ul style="list-style-type: none"> <li>Los aplicadores y otras personas que lo manipulen (que no sean mezcladores y cargadores) deben usar camisa de manga larga y pantalones largos, zapatos con calcetines, gafas protectoras o protector facial, y guantes impermeables, excepto guantes resistentes a productos químicos (hechos de barrera laminada, goma de nitrilo ≥ 14 milésimas de pulgada, goma de neopreno ≥ 14 milésimas de pulgada o guantes Viton® ≥14 milésimas de pulgada) cuando se mezcle con aceites derivados de petróleo.</li> </ul> <p>Para otros manipuladores (que no sean mezcladores y cargadores): Use como mínimo un respirador con filtro de partículas aprobado por NIOSH con cualquier filtro R o P; O un respirador elastomérico para partículas aprobado por NIOSH con cualquier filtro R o P; O un NIOSH respirador purificador de aire motorizado aprobado con filtros HE.</p> <p>Para aplicadores: Cuando se aplica a 80 acres o menos en un período de 24 horas, si no se usa una cabina cerrada, los aplicadores deben usar como mínimo un respirador de pieza facial con filtro de partículas aprobado por NIOSH con cualquier R o filtro P O un respirador de partículas elastomérico aprobado por NIOSH con cualquier filtro R o P O un respirador purificador de aire motorizado aprobado por NIOSH con filtros HE.</p> <p>Para aplicadores: Cuando se aplica a más de 80 acres en un período de 24 horas, las aplicaciones debe hacerse utilizando una cabina cerrada. Las cabinas cerradas deben tener una barrera no porosa que rodee totalmente al ocupante y evite el contacto con pesticidas fuera de la cabina.</p>
<ul style="list-style-type: none"> <li>Mixers and Loaders must wear long-sleeve shirt and long pants, chemical resistant apron, chemical resistant shoes plus socks, face shield, waterproof gloves, except</li> </ul>	<ul style="list-style-type: none"> <li>Los mezcladores y cargadores deben utilizar camisa de manga larga y pantalones largos, un delantal resistente a productos químicos, zapatos con calcetines, protector facial, guantes impermeables, excepto guantes</li> </ul>




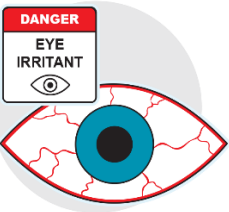


<p>wear chemical-resistant gloves (Barrier Laminate, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, or Viton® ≥14 mils gloves) when mixed with oil, and NIOSH-approved particulate filtering facepiece respirator with any R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any R or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters.</p>	<p>resistentes a productos químicos (hechos de barrera laminada, goma de nitrilo ≥ 14 milésimas de pulgada, goma de neopreno ≥ 14 milésimas de pulgada o guantes Viton® ≥14 milésimas de pulgada) cuando se mezcle con aceites derivados de petróleo, y un respirador con filtro de partículas aprobado por NIOSH con cualquier filtro R o P; O un respirador de partículas elastomérico aprobado por NIOSH con cualquier filtro R o P; O un respirador purificador de aire motorizado aprobado por NIOSH con filtros HE.</p>
<ul style="list-style-type: none"> <li>Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> </ul>	<ul style="list-style-type: none"> <li>Quítese la ropa o equipo de protección personal inmediatamente si se impregna de pesticida. Luego lávese bien y póngase ropa limpia.</li> </ul>
<ul style="list-style-type: none"> <li>Remove and wash contaminated clothing before wearing again.</li> </ul>	<ul style="list-style-type: none"> <li>Retire y lave la ropa contaminada antes de volver a usarla.</li> </ul>
<ul style="list-style-type: none"> <li>Discard clothing and other absorbent materials that have been drenched or heavily contaminated with paraquat. Do not reuse them. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washing PPE exist, use detergent and hot water.</li> </ul>	<ul style="list-style-type: none"> <li>Deseche la ropa y otros materiales absorbentes empapados o fuertemente contaminados con paraquat. No los reutilice. Siga las instrucciones del fabricante para limpiar y mantener el EPP. Si no existen tales instrucciones para lavar el EPP, use detergente y agua caliente.</li> </ul>
<ul style="list-style-type: none"> <li>Keep and wash PPE separately from other laundry.</li> </ul>	<ul style="list-style-type: none"> <li>Mantenga y lave el EPP por separado de la otra ropa.</li> </ul>
<ul style="list-style-type: none"> <li>Refer to the product label for more information.</li> </ul>	<ul style="list-style-type: none"> <li>Consulte la etiqueta del producto para más información.</li> </ul>
<ul style="list-style-type: none"> <li><b>DO NOT</b> tank mix this product with any pest control products other than those listed on the Helmquat 3SL label. Helmquat 3SL is compatible with the tank mix partners listed on this label.</li> </ul>	<ul style="list-style-type: none"> <li><b>NO</b> mezcle en tanque este producto con ningún otro producto para el control de plagas que no esté incluido en la etiqueta Helmquat 3SL. Helmquat 3SL es compatible con los socios de mezcla de tanque listados en esta etiqueta.</li> </ul>
<b>FIRST AID</b>	<b>PRIMEROS AUXILIOS</b>
<ul style="list-style-type: none"> <li><b>If swallowed: SPEED IS ESSENTIAL. Immediate medical attention is required.</b> Administer either activated charcoal (100g for adults or 2g/kg body weight in children) or Fuller's Earth (15% solution; 1 liter for adults or 15ml/kg body weight in children). <b>DO NOT USE SUPPLEMENTAL OXYGEN.</b> Call a poison control center or doctor <b>IMMEDIATELY</b> for treatment advice. Do not give anything by mouth to an</li> </ul>	<ul style="list-style-type: none"> <li><b>Si se ingiere: LA RAPIDEZ ES ESENCIAL. Se requiere atención médica inmediata.</b> Administre carbón activado (100 g para adultos o 2 g/kg de peso corporal en niños) o Fuller's Earth (solución al 15 %, 1 litro para adultos o 15 ml/kg de peso corporal en niños). <b>NO USE OXÍGENO COMPLEMENTARIO.</b> Llame a un centro de control de envenenamiento o a un médico <b>INMEDIATAMENTE</b> para recibir</li> </ul>



unconscious person.	asesoramiento sobre el tratamiento. No administre nada por vía oral a una persona inconsciente.
<ul style="list-style-type: none"> <li>• <b>If inhaled:</b> Move person to fresh air. The odor of this product is from the alerting agent, which has been added, not from the paraquat. If person is not breathing, call 911 or an ambulance. Call a poison control center or doctor for further treatment advice.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Si se inhala:</b> Mueva a la persona al aire fresco. El olor de este producto proviene del agente de alerta, que se ha agregado, no del paraquat. Si la persona no respira, llame al 911 o a una ambulancia. Para recibir instrucciones adicionales respecto al tratamiento a seguir, llame a un médico o a un centro de control de envenenamiento.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>If in eyes:</b> Hold eye open and rinse slowly and gently with clean water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Si entra en contacto con los ojos:</b> Mantenga los ojos abiertos y enjuague lenta y suavemente con agua limpia durante 15-20 minutos. Si el afectado usa lentes de contacto, espere cinco minutos antes de retirarlos; entonces, continúe enjugando el ojo. Llame a un médico o a un centro de control de envenenamiento para recibir instrucciones respecto al tratamiento a seguir.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>If on skin or clothing:</b> Take off contaminated clothing. <b>IMMEDIATELY</b> wash the affected area with soap and water and rinse for 15-20 minutes. Prolonged contact will cause severe irritation. Contact with irritated skin or a cut or repeated contact with intact skin may result in poisoning. <b>GET MEDICAL ATTENTION.</b> Call a poison control center or doctor for treatment advice.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Si entra en contacto con la piel o la ropa:</b> Qítese la ropa contaminada. Lave <b>INMEDIATAMENTE</b> la zona afectada con agua y jabón y enjuague durante 15-20 minutos. El contacto prolongado causará irritación grave. El contacto con la piel irritada o un corte o contacto repetido con la piel intacta puede provocar intoxicación. <b>OBTENGA ATENCIÓN MÉDICA.</b> Llame a un médico o a un centro de control de envenenamiento para recibir instrucciones respecto al tratamiento a seguir.</li> </ul>
<ul style="list-style-type: none"> <li>• Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</li> </ul>	<ul style="list-style-type: none"> <li>• Tenga a la mano el envase del producto o su etiqueta cuando llame al centro de control de envenenamiento, al médico o al buscar tratamiento.</li> </ul>
<b>Please refer to the product label for further information.</b>	<b>Consulte la etiqueta del producto para obtener más información.</b>
<b>For 24-hour medical emergency assistance (human or animal) call 1-800-222-1222, or chemical emergency assistance (spill, leak, fire or accident) call 1-800-424-9300</b>	<b>Para asistencia de emergencia médica las 24 horas (humanos o animales) llame 1-800-222-1222, o asistencia de emergencia química (derrames, fugas, incendios o accidentes) llame al 1-800-424-9300.</b>

## Explicit Counter Card Example

(The Counter Card will be distributed at the point of sale)

COUNTER CARD FOR PARAQUAT DICHLORIDE		
PROPER STORAGE AND HANDLING		ALMACENAMIENTO Y MANEJO ADECUADOS
<p>NEVER TRANSFER HELMQUAT 3SL INTO FOOD OR BEVERAGE CONTAINERS OR CONTAINERS NOT EXPLICITLY INTENDED FOR HELMQUAT 3SL.</p>  <p>NUNCA TRANSFIERA HELMQUAT 3SL A RECIPIENTES PARA COMIDA O DE BEBIDAS O RECIPIENTES NO EXPLÍCITAMENTE PREVISTOS PARA HELMQUAT 3SL.</p>	<p>ONE SIP CAN KILL.</p>  <p>UN SORBO PUEDE CAUSAR LA MUERTE.</p>	<p>CONTACT WITH SKIN MAY RESULT IN POISONING.</p>  <p>EL CONTACTO CON LA PIEL PUEDE RESULTAR EN ENVENENAMIENTO.</p>
<p>EXPOSURE TO EYES MAY CAUSE SUBSTANTIAL EYE INJURY.</p>  <p>LA EXPOSICIÓN A LOS OJOS PUEDE CAUSAR LESIONES GRAVES A LOS OJOS.</p>	<p>PARAQUAT SHOULD ALWAYS BE STORED TIGHTLY CLOSED IN ORIGINAL CONTAINER, AND IN A LOCKED PLACE AWAY FROM CHILDREN AND ANIMALS.</p>  <p>EL PARAQUAT DEBE ALMACENARSE SIEMPRE CERRADO EN SU RECIPIENTE ORIGINAL, Y EN UN LUGAR CERRADO, ALEJADO DE NIÑOS Y ANIMALES.</p>	<p>READ ENTIRE LABEL PRIOR TO USING THIS PRODUCT.</p>  <p>LEA LA ETIQUETA COMPLETA ANTES DE USAR ESTE PRODUCTO.</p>
<p>DISREGARDING LABEL DIRECTIONS IS A VIOLATION OF FEDERAL LAW AND IS PUNISHABLE BY SUCH.</p>		<p>NO SEGUIR LAS INDICACIONES DE LA ETIQUETA REPRESENTA UNA INFRACCIÓN DE LA LEY FEDERAL Y ES PENADO COMO TAL.</p>
USE REQUIREMENTS		REQUISITOS DE USO
<ul style="list-style-type: none"> <li>TO PREVENT SEVERE INJURY OR DEATH, FOLLOW ALL LABEL REQUIREMENTS.</li> </ul>		<ul style="list-style-type: none"> <li>PARA EVITAR LESIONES GRAVES O LA MUERTE, SIGA TODOS LOS REQUERIMIENTOS DE LA ETIQUETA.</li> </ul>
<ul style="list-style-type: none"> <li>TO BE USED BY CERTIFIED APPLICATORS ONLY – <u>NOT</u> TO BE USED BY UNCERTIFIED PERSONS WORKING UNDER THE SUPERVISION OF A CERTIFIED APPLICATOR.</li> </ul>		<ul style="list-style-type: none"> <li>PARA SER UTILIZADO SOLO POR APLICADORES CERTIFICADOS: <u>NO</u> DEBE SER UTILIZADO POR PERSONAS NO CERTIFICADAS QUE TRABAJAN BAJO LA SUPERVISIÓN DE UN APLICADOR CERTIFICADO.</li> </ul>

Manufactured for:



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