



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Registration Division (7505P)
 1200 Pennsylvania Ave., N.W.
 Washington, D.C. 20460

EPA Reg. Number:

42750-313

Date of Issuance:

3/1/18

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

QUIZALOFOP 1E

Name and Address of Registrant (include ZIP Code):

Morris Gaskins
 Director, Product Registration
 Albaugh, LLC
 P.O. Box 2127
 Valdosta, GA 31604-2127

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) with the following terms and conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Submit a one-year storage stability and corrosion characteristics study (OCSPP Guidelines 830.6317 and 830.6320). The data requirements for storage stability and corrosion characteristics are not satisfied. You have 18 months from the date of registration to provide these data.

Signature of Approving Official:

Reuben Baris, Product Manager 25
 Herbicides Branch, Registration Division (7505P)

Date:

3/1/18

3. This product registration and the registered new use of quizalofop-P-ethyl on wheat containing the QPE-resistant AXigen trait will **automatically expire on March 1, 2023**, unless the Agency amends this condition otherwise.
4. You must develop and follow an Herbicide Resistance Management Plan as described in Appendix A.
5. You must submit annual reports to the Agency by January 15th of each year beginning in 2019, as outlined in Appendix A Section D, "Reporting Component," until the Agency amends this condition otherwise.
6. Submit one copy of the revised final printed label for the record before you release the product for shipment.

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

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following confidential statement of formula (CSF):

- Basic CSF dated 08/01/2016

If you have any questions, please contact Mindy Ondish by phone at 703-605-0723, or via email at ondish.mindy@epa.gov.

Enclosure

Appendix A – Herbicide Resistance Management Plan and Reporting Requirements for Use of Quizalofop-P-ethyl on AXigen Wheat

APPENDIX A

Herbicide Resistance Management Plan and Reporting Requirements for Use of Quizalofop-P-ethyl on AXigen Wheat

Albaugh, LLC (“Albaugh”) must comply with the following:

A. Educational Component

1. Develop and implement an education program for users of this product that identifies appropriate best management practices (BMPs) to avoid and control weed resistance, and convey to users the importance of following BMPs.

The following are examples of BMPs:

Crop selection and cultural practices

- Understand the biology of the weeds present.
- Use a diversified approach towards weed management focused on preventing weed-seed production and reducing the number of weed seeds in the soil seed-bank.
- Emphasize cultural practices that suppress weeds by using crop competitiveness.
- Plant into weed-free fields, keep fields as weed-free as possible, and note areas where weeds were a problem in prior seasons.
- Incorporate additional weed-control practices whenever possible, such as mechanical cultivation, biological management practices, crop rotation, and weed-free crop seeds, as part of an integrated weed-control program.
- Do not allow weed escapes to produce seeds, roots, or tubers.
- Manage weed seed at harvest and post-harvest to prevent a buildup of the weed seed-bank.
- Prevent field-to-field and within-field movement of weed seed or vegetative propagules.
- Thoroughly clean plant residues from equipment before leaving fields.
- Prevent an influx of weeds into the field by managing field borders.
- Fields should be scouted before application to ensure herbicide and application rates will be appropriate for the weed species and weed sizes present.
- Fields should be scouted after application to confirm herbicide effectiveness and to detect weed escapes.
- If resistance is suspected, treat weed escapes with a different mechanism-of-action herbicide or use non-chemical methods to remove weed escapes.

Herbicide selection

- Use a broad spectrum soil-applied herbicide with a mechanism of action that differs from this product as a foundation in a weed control program.
- A broad-spectrum weed-control program should consider all of the weeds present in the field. Weeds should be identified through scouting and field history.
- Difficult-to-control weeds may require sequential applications of herbicides with alternative mechanisms of action.

- Fields with difficult-to-control weeds should be rotated to crops that allow the use of herbicides with alternative mechanisms of action.
 - Apply full rates of this herbicide for the most difficult to control weeds in the field. Applications should be made when weeds are at the correct size to minimize weed escapes.
 - Do not use more than two applications of this herbicide or any herbicide with the same mechanism of action within a single growing season unless mixed with another mechanism of action herbicide with overlapping spectrum for the difficult to control weeds.
 - Report any incidence of non-performance of this product against a particular weed species to Albaugh or its representatives.
2. Include at least one written communication to users of this product each year regarding herbicide-resistance management.
 3. Provide a copy of the education materials to EPA upon request.

B. Field Detection and Remediation Components

1. If any user informs Albaugh or its representatives of a lack of herbicide efficacy in a weed species listed on product labeling, then Albaugh or its representatives must make an effort to evaluate the field for suspected resistance to this product by applying the criteria below, as set forth in Norsworthy, *et al.*, “Reducing the Risks of Herbicide Resistance: Best Management Practices and Recommendations” *Weed Science* 2012 Special Issue: 31-62;

Criteria for Determining Suspected Herbicide Resistance

- 1) *Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; and/or*
 - 2) *A spreading patch of non-controlled plants of a particular weed species; and/or*
 - 3) *Surviving plants mixed with controlled individuals of the same species.*
2. If one or more of the above criteria are met, then:
 - a. Provide the user with specific information and recommendations to control and contain suspect weeds, including re-treatment and/or other non-chemical controls, as appropriate. If requested by the user, Albaugh will become actively involved in implementation of weed control measures.
 - b. Request, at the time of the initial determination that one or more of the above criteria are met and prior to any application of alternative control practices, that the user provide access to the relevant field(s) to collect specimens of the suspect weeds (potted specimens or seeds) for potential further evaluation in the greenhouse or laboratory, and to collect such specimens if possible (or, alternatively, request that the user provide such specimens to Albaugh at Albaugh’s expense).

- c. Conduct greenhouse or laboratory studies to confirm resistance as soon as practicable following sample collection, if technically feasible.
 - d. To the extent possible, contact or visit the user in an appropriate timeframe after implementation of the additional weed control measures in order to evaluate success of such measures.
 - e. If the additional weed control measures were not successful in controlling the suspected-resistant weeds, then:
 - i. Work with the user to determine the reason(s) why the additional control measures were unsuccessful;
 - ii. Offer to provide technical expertise on how to control and contain the suspected-resistant weeds, including re-treatment and/or other non-chemical controls, as appropriate; and
 - iii. Report annually the inability to control the suspected-resistant weeds to relevant stakeholders.
3. Keep records of all field evaluations for suspected resistance for a minimum of three years, and provide a copy to EPA upon request.

C. Evaluation Component

1. Conduct annual surveys to determine whether users have encountered any perceived issues with non-performance or lack of efficacy of this product, and if so, how users have responded. This survey must be based on a statistically-representative sample of users. The sample size and geographical resolution should be adequate to allow analysis of responses within regions, between regions, and across the United States.
2. Analyze the survey results each year, and modify the following for the upcoming growing season, as appropriate:
 - a. Efforts aimed at achieving compliance with BMPs;
 - b. Responses to incidents of suspected weed resistance and confirmed weed resistance; and
 - c. The education program. At the initiative of either EPA or Albaugh, both parties shall consult about possible modifications to the education program.

D. Reporting Component

1. Submit reports to EPA by January 15th of each year, beginning in 2019, with information on:
 - a. Annual sales of this product by state;

- b. Annual sales of wheat seed containing AXigen trait by state;
 - c. The current education program. The first report shall include the current education program and its associated materials. Subsequent annual reports shall include updates of any aspect of the education program and associated materials that have materially changed since submission of the previous annual report;
 - d. Summary of efforts aimed at achieving compliance with the BMPs;
 - e. Investigation and remediation of cases on suspected-resistant weeds. Summary of determinations as to whether any reported lack of herbicide efficacy was due to suspected-resistance, any follow-up actions taken, and if available, the final outcome (e.g., evaluation of success of additional weed control measures) regarding each case of suspected-resistance. The annual report shall list the cases by county and state;
 - f. Summary of the status of any laboratory and greenhouse testing performed by or at the direction of Albaugh, in response to cases of suspected-resistance, performed in the previous year. Data pertaining to such testing need not be included in the annual reports, but such data must be made available to EPA upon request; and
 - g. The annual survey, including whether users are implementing herbicide resistance BMPs, and a summary of Albaugh's annual review and any modifications based on the survey results.
2. Following submission of the annual report, Albaugh shall meet with EPA at EPA's request in order to evaluate and consider the information contained in the report.

QUIZALOFOP 1E Herbicide

Provides Post-Emergence Control of winter and Spring Annual Grasses in the CoAXium Wheat Production System and wheat varieties with the AXigen trait.

ACTIVE INGREDIENT

Quizalofop-P-ethyl

Ethyl (R)-2-[4-(6-chloroquinoxalin-2-yloxy)-phenoxy]propionate 10.3%

OTHER INGREDIENTS 89.7%

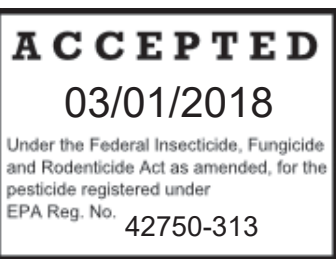
TOTAL 100.0%

Contains petroleum distillates.

* Equivalent to 0.88 lb ai per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION



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

FIRST AID

IF SWALLOWED: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: May pose an aspiration pneumonia hazard. Contains petroleum distillate.

In case of medical or transport emergency call CHEMTREC at 1-800-424-9300. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

EPA Reg. No. 42750-313

EPA Est. No. 42750-MO-1

NET CONTENTS: _____ Gallons

MANUFACTURED BY:

Albaugh, LLC
Ankeny, IA 50021

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, made of barrier laminate or Viton ≥ 14 mils.
- Shoes plus socks.
- Protective eyewear.

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 CONTROL STATEMENTS

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

USER SAFETY RECOMMENDATIONS

Users Should:

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment 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 pesticide is toxic to fish and invertebrates. 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 washwaters or rinsate.

This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several months or more after application. Poorly drained soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas in which the product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding application when rainfall is forecasted to occur within 48 hours. Sound erosion practices will reduce this product's contribution to surface water contamination.

PHYSICAL AND CHEMICAL HAZARDS

Do not mix or allow contact with oxidizing agents. Hazardous chemical reaction may occur.

DIRECTIONS FOR USE

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

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

QUIZALOFOP 1E is developed for use with the CoAXium Wheat Production System and wheat varieties that are developed with the AXigen trait and must be used only in accordance with label directions.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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

- Coveralls.
- Chemical-resistant gloves, made of barrier laminate or Viton \geq 14 mils.
- Shoes plus socks.
- Protective eyewear.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

QUIZALOFOP 1E is a systemic grass herbicide designed for use only with the CoAXium Wheat Production System and wheat varieties certified to contain the AXigen trait.

QUIZALOFOP 1E is rapidly absorbed by treated foliage and translocated to the roots and other growing points of the plant. When affected, younger plant tissues become chlorotic/necrotic and eventually die, leaving treated plants stunted and noncompetitive. In general, these symptoms are first observed within 7 to 14 days after application depending on the grass species treated and the environmental conditions.

Use of QUIZALOFOP 1E on non-CoAXium wheat varieties without the AXigen trait will result in permanent crop damage to the non-tolerant wheat variety.

The degree of control and duration of the effect of QUIZALOFOP 1E depends upon the rate used, weed spectrum, weed size and variability, growing conditions at and following treatment, soil moisture, precipitation, tank mixtures, and spray adjuvant used.

Conditions conducive to healthy, actively growing plants optimize the performance of QUIZALOFOP 1E.

Unacceptable control may occur if QUIZALOFOP 1E is applied to grasses stressed from:

- Abnormal weather (excessive heat or cold, or widely fluctuating temperatures),
- Hail damage,
- Drought,
- Water saturated soils,

- Mechanical injury, or
- Prior herbicide injury.

Grasses under these conditions are often less sensitive to herbicide activity. Delay application until the stress passes and weeds and crop resume growth.

Before making applications of QUIZALOFOP 1E to crops previously under stress, or injured from other pesticide applications, the crop needs to be fully recovered and growing vigorously.

QUIZALOFOP 1E is rainfast 1 hour after application.

IMPORTANT PRECAUTIONS

Injury to or loss of desirable trees, vegetation, or adjacent sensitive crops may result from failure to observe the following:

- Prevent drift of spray to desirable plants.
- Take all necessary precautions to avoid all direct or indirect contact (such as spray drift) with non-target plants or areas. Most grass crops, including barley, rye, oats, sorghum, rice, and corn are highly sensitive to QUIZALOFOP 1E.
- Carefully observe all sprayer cleanup instructions both prior to and after using this product, as spray tank residue may damage crops other than those included in the crop rotation section.

RESTRICTIONS:

- Do not contaminate any body of water.
- Do not apply this product through any type of irrigation system.

Albaugh will not be responsible for losses or damages resulting from the use of this product in any manner not specifically instructed by Albaugh.

APPLICATION INFORMATION

Only use Quizalofop 1E on CoAxium Wheat certified to have the AXigen trait

QUIZALOFOP 1E is a selective grass herbicide that controls annual and perennial grasses only in CoAXium Wheat varieties with the AXigen trait.

QUIZALOFOP 1E does not control sedges or broadleaf weeds.

Do Not apply QUIZALOFOP 1E on ClearField wheat varieties as severe damage and loss will result.

Applied at specified rates and timings, QUIZALOFOP 1E controls the grasses listed in the "Weeds Controlled and Rate Selection" chart.

APPLICATION TIMING

Apply QUIZALOFOP 1E to young, actively growing grasses according to the rate chart that follows. If a field is to be irrigated, apply QUIZALOFOP 1E after the irrigation. Applications made to grasses that: are larger than the sizes listed in the rate charts or to grasses under stress may result in unsatisfactory control.

SEQUENTIAL APPLICATIONS

Sequential applications of QUIZALOFOP 1E can be made to CoAXium Wheat with the AXIGEN TRAIT but do not

exceed a total of 16 fl. oz./acre per crop year.

On CoAXium Winter Wheat with the AXIGEN TRAIT a fall application of 8 fl.oz/A can be made followed by a spring application of 8 fl. oz./A of QUIZALOFOP 1E.

ANNUAL GRASSES

In the event of a subsequent flush of grass, or regrowth of previously treated grass occurs, a second application of QUIZALOFOP 1E may be applied but no more than 16 oz/acre of QUIZALOFOP 1E per crop year. Select the appropriate rate for the grassy weed from the "Weeds Controlled - Rate selection" chart.

SPRAY ADJUVANTS

Applications of QUIZALOFOP 1E must include a surfactant. Consult local Albaugh fact sheets, technical bulletins, and service policies prior to using other adjuvant systems. If another herbicide is tank mixed with QUIZALOFOP 1E to increase the weed spectrum, select adjuvants authorized for use with both products. Products must contain only EPA-exempt ingredients.

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.

Nonionic Surfactant (NIS)

- Apply at 0.25 % v/v (1 quart of product per 100 gallons spray solution).
- Surfactant products must contain at least 80% nonionic surfactant with a hydrophilic/lipophilic balance (HLB) greater than 12.

Petroleum Crop Oil Concentrate (COC)

- Petroleum-based crop oil concentrates are the preferred adjuvant system in arid areas.
- Apply petroleum-based crop oil concentrate at rates up to 1% v/v (1 gallon per 100 gallons spray solution) or 2% under arid conditions.
- Oil adjuvants must contain at least 80% high quality, petroleum (mineral) or modified vegetable seed oil with at least 15% surfactant emulsifiers.
- For aerial applications apply 0.5% v/v (2 quarts product per 100 gallons spray solution).

Methylated Seed Oil (MSO)

- Apply methylated seed oil at rates up to 1% v/v (1 gallon per 100 gallons spray solution) For aerial applications apply 0.5% v/v (2 quarts product per 100 gallons spray solution).

Ammonium Nitrogen Fertilizer

- An ammonium nitrogen fertilizer may be added to the spray mixture, in addition to crop oil concentrate or nonionic surfactant, but is not required to optimize performance of this product.
- Use 2 quart/acre of a high-quality urea ammonium nitrate (UAN), such as 28%N, 20% N or 32%N, or 2 lb/acre of a spray-grade ammonium sulfate (AMS). Use 4 quart/acre UAN or 4 pound/acre AMS under arid conditions.
- Do not apply more than 50% of your total spray volume as fertilizer.
- Do not use liquid nitrogen fertilizer as the total carrier solution.

Special Adjuvant Types

Combination adjuvant products may be used at doses that provide the required amount of NIS, COC, MSO and/or ammonium nitrogen fertilizer. Consult product literature for use rates and restrictions. In addition to

the adjuvants specified above, other adjuvant types may be used if they provide the same functionality and have been evaluated and approved by Albaugh Product Management.

APPLICATION WITH INSECTICIDES AND FUNGICIDES

QUIZALOFOP 1E may be tank mixed with postemergence insecticides, bactericides and fungicides registered for use in the specific crop.

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.

APPLICATION WITH BROADLEAF HERBICIDES

QUIZALOFOP 1E does not have activity on broadleaf weeds.

For best results, apply QUIZALOFOP 1E alone or in sequence with a broadleaf herbicide(s). QUIZALOFOP 1E can be applied in a tank-mix with a wide selection of broadleaf herbicides.

Do not tank-mix QUIZALOFOP 1E with dimethylamine salt formulations of 2,4-D or MCPA as they are very antagonistic with QUIZALOFOP 1E and will severely reduce control or not provide any control of grassy weeds.

Ester formulations of 2,4-D or MCPA can be tank mixed with Quizalofop 1E.

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.

Under arid or stressful environmental conditions, tank mixtures with other broadleaf herbicides may show a small reduction in control of some grass species.

Activity of the postemergence broadleaf herbicide in the tank mixture is not affected.

Split Applications with Postemergence Broadleaf Herbicides

Applying QUIZALOFOP 1E immediately prior to or following an application of a postemergence broadleaf herbicide may reduce control of some grasses.

For best results, follow these recommendations when making split applications:

- Apply postemergence broadleaf herbicides at least 24 hours after applying QUIZALOFOP 1E
- Apply QUIZALOFOP 1E when grassy weeds begin to develop new leaves (generally 7 days after the postemergence broadleaf herbicide application) in fields treated with postemergence broadleaf herbicide.

CROP ROTATION

Do not rotate to crops other than Canola, Cotton, Crambe, Dry Beans (including Chickpea), Flax, Lentils, Mint (Spearmint and Peppermint), Peas (Dry and Succulent Peas), Snap Beans, Soybeans, Sunflowers, Sugarbeets or wheat within 120 days after application.

Precaution: To reduce the risk of weed resistance development or gene-flow, growers should follow the recommended MOA rotational practices in the Resistance Management section before replanting CoAXium wheat.

APPLICATION EQUIPMENT

See SPRAY DRIFT MANAGEMENT section for additional information and precautions.

Ground Application

Broadcast Application

- Proper grassy weed spray coverage is critical to maximize the performance of QUIZALOFOP 1E.
- Use spray nozzles that will deliver medium/coarse or larger spray droplets as defined in the American Society of Agricultural and Biological Engineers (ASABE) standard ANSI/ASAE S-572.1 (March, 2009).
- Use a minimum of 10 gallons of water per acre in non-arid areas.
- Use a minimum of 15 gallons of water per acre in arid areas.
- Do not exceed 40 gallons of water per acre.
- Increase spray volume and pressure as weed or crop density and size increase.

Aerial Application

Apply QUIZALOFOP 1E in water using a minimum spray volume of 5 gals./A. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

- Make applications at a maximum height of 10ft. above the crop with low-drift nozzles at a maximum pressure of 40 psi and wind speed not exceeding 10 mph to help assure accurate application within the target area.
- Use spray nozzles that will deliver coarse or larger spray droplets as defined in the American Society of Agricultural and Biological Engineers (ASABE) standard ANSI/ASAE S-572.1 (March, 2009).

MIXING INSTRUCTIONS

1. Fill the tank 1/4 to 1/3 full of water.
2. While agitating, add the required amount of QUIZALOFOP 1E. If QUIZALOFOP 1E and a tank mix partner are to be applied together, consult the tank mix partner label for information on which should be added first (normally granules and powders are added first).
3. Continue agitation until the QUIZALOFOP 1E is fully dispersed, at least 5 minutes.
4. Once the QUIZALOFOP 1E is fully dispersed, maintain agitation and continue filling tank with water.
5. As the tank is filling, add the required volume of spray additives, always add these to the spray tank last.
6. Apply QUIZALOFOP 1E spray mixture within a reasonable period of time of mixing to avoid product degradation (24 to 48 hrs). If the spray mixture stands for any period of time, thoroughly re-agitate before using.

SPRAYER CLEANUP

The spray equipment must be cleaned before QUIZALOFOP 1E is sprayed. Follow the cleanup procedures specified on the labels of the previously applied products. If no directions are provided, follow the six steps outlined in After Spraying QUIZALOFOP 1E. It is very important that any buildup of dried pesticide deposits which have accumulated in the application equipment be removed prior to spraying QUIZALOFOP 1E.

Steam-cleaning spray tanks to facilitate the removal of any caked deposits of previously applied products will help prevent accidental crop injury.

At the End of the Day

It is recommended that during periods when multiple loads of QUIZALOFOP 1E are applied, at the end of each day of spraying the interior of the tank be rinsed with fresh water and then partially filled, and the boom and hoses flushed. This will prevent the buildup of dried pesticide deposits which can accumulate in the application equipment.

After Spraying QUIZALOFOP 1E and Before Spraying Crops Other Than Those Listed in the Crop Rotation Section

To avoid subsequent injury to desirable crops, thoroughly clean all mixing and spray equipment immediately following applications of QUIZALOFOP 1E as follows:

1. Drain tank; thoroughly rinse spray tanks, boom, and hoses with clean water. Loosen and physically remove any visible deposits.
2. Fill the tank with clean water and 1 gal of household ammonia* (contains 3% active) for every 100 gal of water. Flush the hoses, boom, and nozzles with the cleaning solution. Then add more water to completely fill the tank. Circulate the cleaning solution through the tank and hoses for at least 15 min. Flush the hoses, boom, and nozzles again with the cleaning solution, and then drain the tank.
3. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
4. Repeat step 2.
5. Rinse the tank, boom, and hoses with clean water.
6. If only Ammonia is used as a cleaner, the rinsate solution may be applied back to the crop(s) recommended on this label. Do not exceed the maximum labeled use rate. If other cleaners are used, consult the cleaner label for rinsate disposal instructions. If no instructions are given, dispose of the rinsate on site or at an approved waste disposal facility.

* Equivalent amounts of an alternate-strength ammonia solution or an Albaugh-approved cleaner can be used in the cleanout procedure. Carefully read and follow the individual cleaner instructions. Consult your Ag dealer, applicator, or Albaugh representative for a listing of approved dealers.

NOTES:

1. CAUTION: Do not use chlorine bleach with ammonia as dangerous gases will form. Do not clean equipment in an enclosed area.
2. Steam-cleaning spray tanks is recommended prior to performing the above cleanout procedure to facilitate the removal of any caked deposits.
3. When QUIZALOFOP 1E is tank mixed with other pesticides, all cleanout procedures should be examined and the most rigorous procedure should be followed.
4. In addition to this cleanout procedure, all pre-cleanout guidelines on subsequently applied products should be followed as per the individual labels.
5. Where routine spraying practices include shared equipment frequently being switched between applications of QUIZALOFOP 1E and applications of other pesticides to QUIZALOFOP 1E-sensitive crops during the same spray season, it is recommended that a sprayer be dedicated to QUIZALOFOP 1E to further reduce the chance of crop injury.

SPRAY DRIFT MANAGEMENT

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

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

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS! See Wind, Temperature and Humidity, and Temperature Inversions sections of this label.

Controlling Droplet Size - General Techniques

Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.

Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

Controlling Droplet Size - Aircraft

Number of Nozzles - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.

Nozzle Orientation - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.

Nozzle Type - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.

Boom Length - The boom length should not exceed 3/4 of the wing or rotor length - longer booms increase drift potential.

Application Height - Application more than 10 ft above the canopy increases the potential for spray drift.

Boom Height

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

Wind

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph.

However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. **AVOID GUSTY OR WINDLESS CONDITIONS.**

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

Temperature and Humidity

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

Temperature Inversions

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

Shielded Sprayers

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

RESISTANCE MANAGEMENT

| | | | |
|--------------------|-------|---|-----------|
| QUIZALOFOP-P-ETHYL | GROUP | 1 | HERBICIDE |
|--------------------|-------|---|-----------|

Quizalofop-P-ethyl is in the class of herbicides known as aryloxyphenoxypropionates (FOPs) within the Group 1 herbicides that inhibit the enzyme acetyl-CoA carboxylase (ACCCase) in weeds.

QUIZALOFOP 1E will not control grassy weeds with ACCCase or Group 1 mode of action herbicide resistance.

Some weeds are known to develop resistance to herbicides that have been used repeatedly. While the development of herbicide resistance is well understood, it is not easily predicted. Therefore herbicides should be used in conjunction with the resistance management strategies in the area. If herbicide resistance should develop in the area, this product used alone may not continue to provide sufficient levels of weed control.

If the reduced levels of control cannot be attributed to improper application techniques, improper use rates, improper application timing, unfavorable weather conditions or abnormally high weed pressure, a resistant strain of weeds may have developed.

Suspected herbicide-resistant weeds may be identified by these indicators:

- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species

The following Best Management Practices (BMP) will reduce the potential for weed resistance:

- Ensure that good spray coverage is achieved with proper spray volumes and calibrated equipment.
- Plant into weed-free fields and keep fields as weed-free as possible.
- Avoid tank mixes that may cause antagonism and reduced weed control.
- Where possible, avoid the repeated use of herbicides with the same mode of action (i.e., same group number) in successive seasons either in cereal crops or rotational crops.
- Use mechanical cultivation, fertilizer regimens, seeding rates and row widths that enhance crop competitiveness.
- Prevent weed escapes from producing seed either in the crop or during fallow periods.
- Always apply this product at the specified rates and in accordance with the use directions. Do not use less than specified label rates alone or in tank mixtures. Do not use reduced rates of the tank mix partner.
- Scout fields carefully to determine the appropriate time for application.
- Scout fields carefully after application for performance in control of weeds.
- Prevent an influx of weeds into the field by managing field borders.
- If resistance is suspected, contact the local or State agricultural advisors or your local Albaugh representative for assistance at 1-800-247-8013.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

CoAXium Wheat Production System Rotational Practices

To prolong the utility of the AXigen trait, CoAXium Wheat Production System and QUIZALOFOP 1E, stewardship is critical. Albaugh recommends the following wheat crop rotational practices to minimize resistance and gene-flow development that can be induced if not properly managed.

| Annual Wheat Crop Rotation* | | | | |
|--|------------------------------|------------------------------------|------------------------------|------------------------------------|
| (Do not use CoAXium Wheat Production System for 2 consecutive crop cycles) | | | | |
| Crop Year | 1 | 2 | 3 | 4 |
| Crop | CoAXium Wheat | Group 2 MoA tolerant wheat variety | CoAXium Wheat | Group 2 MoA tolerant wheat variety |
| Weed Control Method | Quizalofop 1E Group 1 MoA | | Quizalofop 1E Group 1 MoA | |

*Utilize glyphosate and/or tillage to control annual grassy weeds and volunteer wheat between crop cycles

| 2-Year Wheat-Fallow Crop Rotation | | | | |
|---|------------------------------|----------------------------|------------------------------|----------------------------|
| (Do not use CoAXium Wheat Production System more than 3 out of 6 years) | | | | |
| Crop Year | 1 | 2 | 3 | 4 |
| Crop | CoAXium Wheat | Fallow | CoAXium Wheat | Fallow |
| Weed Control Method | Quizalofop 1E Group 1 MoA | Glyphosate* Group 9 MoA | Quizalofop 1E Group 1 MoA | Glyphosate* Group 9 MoA |

*Utilize glyphosate and/or tillage to control annual grassy weeds and volunteer wheat between crop cycles

| 3-Year Wheat-Fallow-Spring Crop Rotation (Do not use CoAXium Wheat Production System more than 3 out of 6 years) | | | | |
|---|------------------------------|----------------------------|------------------------------|---------------|
| Crop Year | 1 | 2 | 3 | 4 |
| Crop | CoAXium Wheat | Fallow | CoAXium Wheat | Spring Crop** |
| Weed Control Method | Quizalofop 1E Group 1 MoA | Glyphosate* Group 9 MoA | Quizalofop 1E Group 1 MoA | |

*Utilize glyphosate and/or tillage to control annual grassy weeds and volunteer wheat between crop cycles

** In spring crop year use alternate mode of action herbicide and not a Group 1 herbicide - If a group 1 herbicide is used for grass control in legumes a "dim" should be used and not a "fop"

Growers should contact their local Albaugh representative with any questions regarding CoAXium Wheat rotational practices.

CoAXium SPRING WHEAT with the AXigen Trait

QUIZALOFOP 1E can be applied postemergence only with the CoAXium Wheat Production System and spring wheat varieties certified to contain the AXigen Trait. Contact your seed supplier, chemical dealer or Albaugh representative to obtain information about the CoAXium Wheat Production System and wheat varieties with the AXigen trait and QUIZALOFOP 1E.

DO NOT apply to spring wheat varieties that do not have the AXigen trait and tolerance to QUIZALOFOP 1E herbicide.

QUIZALOFOP 1E will only control grassy weeds that have emerged. Any grassy weeds that emerge after application will not be controlled. Apply when the majority of grassy weeds have germinated and emerged.

QUIZALOFOP 1E is effective in controlling weeds in conservation tillage and conventional tillage wheat production systems.

Weed control is optimized when QUIZALOFOP 1E is applied to actively growing wheat and targeted grassy weeds.

APPLICATION TIMING

Apply QUIZALOFOP 1E as an early postemergence treatment when weeds are actively growing and before grasses exceed 4 to 5 leaves. Apply QUIZALOFOP 1E to CoAXium Wheat and varieties with the AXigen Trait after 4 leaf but prior to jointing.

Delay application until the majority of the weeds are at the specified growth stage. When a mixture of grasses and broadleaf weeds are present, time the application to the grass weeds for best results. Depending upon the canopy of the broadleaf weeds, ensure good spray coverage for grass control.

Weed control can be reduced if there are excessive flushes of weeds following an application.

USE RATE

Apply 8 - 16 fl. ozs. QUIZALOFOP 1E per Acre.

See **WEEDS CONTROLLED AND RATE SELECTION** Table for detailed use rate specifications.

SPRING WHEAT PRECAUTIONS:

- Occasionally, reduction in plant height or temporary yellowing of crop plants may occur following QUIZALOFOP 1E applications. These effects, which occur infrequently and are temporary, can be more pronounced if crops are growing in a stressful environmental conditions. Normal growth and appearance

should resume within 1-3 weeks. These effects can be more pronounced in spray overlap areas and/or if crops are growing under stressful environmental conditions (such as, but not limited to, drought, excessive moisture, improper fertility, improper varietal adaptation, poor planting conditions, etc.).

- Crop response associated with stress conditions and overlaps shall be the responsibility of the user.
- To avoid possible crop injury, DO NOT apply QUIZALOFOP 1E to CoAXium Wheat Production System and varieties with the AXigen Trait when extreme cold temperatures (less than 40° F maximum daytime temperature) are expected within 1 week of application.
- A thin stand of wheat may result in unacceptable weed control.
- Activity on established weeds will depend on the weed species and the size of the weed species at the time of application.

SPRING WHEAT CROP-SPECIFIC RESTRICTIONS:

- DO NOT apply more than a total of 16 fl. oz. QUIZALOFOP 1E per Acre (0.11 lbs. of active ingredient) per crop cycle.
- Do not apply more than 16 fl. oz. Quizalofop 1E/acre (0.0825 lbs. of active ingredient) in a single application.
- Do not make more than 2 applications per crop cycle.
- Do not make more than 2 applications per year.
- Do not make a second application within 14 days of first application.
- Do not harvest treated wheat for forage or hay within 60 days of the last application. Treated wheat can be harvested for grain or straw at maturity.

CoAXium WINTER WHEAT with the AXigen Trait

QUIZALOFOP 1E can be applied postemergence only with the CoAXium Wheat Production System and winter wheat varieties certified to contain the AXigen Trait. Contact your seed supplier, chemical dealer or Albaugh representative to obtain information about the CoAXium Wheat Production System and wheat varieties with the AXigen trait and QUIZALOFOP 1E.

DO NOT apply to winter wheat varieties that do not have the AXigen trait and tolerance to QUIZALOFOP 1E herbicide.

QUIZALOFOP 1E will only control grassy weeds that have emerged. Any grassy weeds that emerge after application will not be controlled. Apply when the majority of grassy weeds have germinated and emerged.

QUIZALOFOP 1E is effective in controlling weeds in conservation tillage and conventional tillage wheat production systems.

Weed control is optimized when QUIZALOFOP 1E is applied to actively growing wheat and targeted grassy weeds.

APPLICATION TIMING

QUIZALOFOP 1E can be applied to winter wheat in the fall/winter or spring for winter or spring annual grassy weed control.

Apply QUIZALOFOP 1E as an early postemergence treatment when weeds are actively growing and before grasses exceed 4 to 5 leaves. Apply QUIZALOFOP 1E to CoAXium Wheat and varieties with the AXigen Trait after 4 leaf but prior to jointing.

Delay application until the majority of the weeds are at the specified growth stage. When a mixture of grasses and broadleaf weeds are present, time the application to the grass weeds for best results. Depending upon the canopy of the broadleaf weeds, ensure good spray coverage for grass control.

Weed control can be reduced if there are excessive flushes of weeds following an application.

USE RATE

Apply 8 - 12 fl. ozs. QUIZALOFOP 1E per acre. See Weeds Controlled section for detailed use rate specifications.

Fall applications to winter wheat can be made with QUIZALOFOP 1E at rates from 8 – 12 oz/acre.

Spring applications made on winter wheat can be made with QUIZALOFOP 1E at rates from 8 – 12 oz/acre.

Fall and spring split applications can be made with QUIZALOFOP 1E at a single rate of 8 oz/acre in the fall followed by 8 oz/acre in the spring.

See **WEEDS CONTROLLED AND RATE SELECTION** Table for detailed use rate specifications.

WINTER WHEAT PRECAUTIONS:

- Application of QUIZALOFOP 1E to weeds that have been grazed may result in reduced weed control. For optimum weed control, allow a period of 7 -14 days between the end of grazing and QUIZALOFOP 1E application for weed regrowth to occur. Under cold conditions, wait until new growth of weeds is evident before applying QUIZALOFOP 1E in fields that have been grazed.
- A thin stand of wheat may result in unacceptable weed control.
- Occasionally, reduction in plant height or temporary yellowing of crop plants may occur following QUIZALOFOP 1E applications depending on environmental conditions following the application. These effects can be more pronounced in spray overlap areas and/or if crops are growing under stressful environmental conditions (such as, but not limited to, drought, excessive moisture, improper fertility, improper varietal adaptation, poor planting conditions, etc.).
- To avoid possible crop injury, DO NOT apply QUIZALOFOP 1E to CoAXium Wheat Production System and varieties with the AXigen Trait when extreme cold temperatures (less than 40° F maximum daytime temperature) are expected within 1 week of application.
- Crop response associated with stress conditions and overlaps shall be the responsibility of the user.

WINTER WHEAT CROP-SPECIFIC RESTRICTIONS:

- DO NOT apply more than 16 fl. ozs. QUIZALOFOP 1E/acre (0.11 lbs. of active ingredient) per crop cycle.
- Do not apply more than 12 fl. oz. QUIZALOFOP 1E/acre (0.0825 lbs. of active ingredient) in a single application.
- Do not make more than 2 applications per crop cycle.
- Do not make more than 2 applications per year.
- Do not make a second application within 14 days of first application.
- Do not harvest treated wheat for forage or hay within 60 days of the last application. Treated wheat can be harvested for grain or straw at maturity.

WEEDS CONTROLLED AND RATE SELECTION

(Refer to the "Spring Wheat Restrictions" and "Winter Wheat Restrictions" for application limitations for single and split applications)

Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant weeds to quizalofop-P-ethyl or other Group 1 herbicides have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions.

Tank mix products so that there are multiple effective mechanisms of actions for each target weed.

| | Size at Application (height inches) | QUIZALOFOP 1E Applied Alone (fl. oz. product/A) | QUIZALOFOP 1E Tank Mixed with Broadleaf Herbicide* (fl. oz. product/A) | |
|--|--|---|---|------|
| ANNUAL GRASSES** | | | | |
| Volunteer Corn (<i>Zea mays</i>)*** | 6-30 | 8 - 12 | 8-12 | |
| Foxtail, Giant (<i>Setaria faberi</i>) | 2-4 (pre-tiller) | | 8 - 12 | 8-12 |
| Johnsongrass, Seedling (<i>Sorghum halepense</i>) | 2-8 | | | 8-12 |
| Shattercane (<i>Sorghum bicolor</i>) | 6-12 | | | 8-12 |
| Wild Proso Millet (<i>Panicum miliaceum</i>) | 2-6 | 8 - 12 | | 12 |
| Crowfootgrass (<i>Dactyloctenium aegyptium</i>) | 2-6 | | 12 | |
| Fall Panicum (<i>Panicum dactyloides</i>) | 2-6 | | 8-12 | |
| Field Sandbur (<i>Cenchrus incertus</i>) | 2-6 | | 12 | |
| Foxtail, Bristly (<i>Setaria verticillata</i>) | 2-4 | | † | |
| Foxtail, Giant (<i>Setaria faberi</i>) | 2-8 | | 8-12 | |
| Foxtail, Green (<i>Setaria viridis</i>) | 2-4 | | 12 | |
| Foxtail, Yellow (<i>Setaria lutescens</i>) | 2-4 | | † | |
| Goosegrass (<i>Eleusine indica</i>) | 2-6 ‡ | | 8 - 12 | 8-12 |
| Itchgrass (<i>Rottboellia exaltata</i>) | 2-8 | | | |
| Sprangletop (<i>Leptochloa filiformis</i>) | 2-6 | | | |
| Volunteer Barley (<i>Hordeum vulgare</i>) | 2-6 | | | |
| Volunteer Oats (<i>Avena sativa</i>) | 2-6 | | | |
| Volunteer Rye (<i>Secale cereale</i>) | 2-6 | | | |
| Volunteer Wheat (<i>Triticum aestivum</i>) (non-QPE tolerant) | 2-6 | | | |
| Wild Oat (<i>Avena fatua</i>) | 2-6 | | | |
| Witchgrass (<i>Panicum capillare</i>) | 2-6 | | | |
| Rye, Feral or Cereal (<i>Secale cereale</i>) | 1-4 | 10 - 12 | | |
| Barnyardgrass (<i>Echinochloa crus-galli</i>) | 2-6 | 8 - 12 | | |
| Crabgrass, Large (<i>Digitaria sanguinalis</i>) | 2-6 ‡ | | 10-12 | |
| Crabgrass, Smooth (<i>Digitaria ischaemum</i>) | 2-6 ‡ | | † | |
| Junglerice (<i>Echinochloa colonum</i>) | 2-6 | | † | |
| Texas Panicum (<i>Panicum texanum</i>) †† | 2-4 | | 8 - 10 | |
| Red Rice (<i>Oryza sativa</i>) | 1-4 | 10 | † | |
| Woolly Cupgrass (<i>Eriochloa villosa</i>) | 2-4 § | | † | |
| Broadleaf Signalgrass (<i>Brachiaria platyphylla</i>) | 2-6 | 10 - 12 | 8-12 | |
| Jointed goatgrass (<i>Aegilops cylindrica</i>) | 2-6 | 8 - 12 | | |
| Italian ryegrass (<i>Lolium multiflorum</i>) | 2-6 | | | |
| Downy brome (<i>Bromus tectorum</i>) | 2-6 | | | |
| Windgrass (<i>Bromus mollis</i>) | 2-6 | | | |
| Japanese brome (<i>Bromus arvensis</i>) | 2-6 | | | |
| PERENNIAL GRASSES** | | | | |
| Wirestem Muhly (<i>Muhlenbergia frondosa</i>) | 4-8 | 8 - 10 | † | |
| Bermudagrass (<i>Cynodon dactylon</i>) | 3" tall (or 6" runners) | 10 - 12 | † | |

WEEDS CONTROLLED AND RATE SELECTION

(Refer to the "Spring Wheat Restrictions" and "Winter Wheat Restrictions" for application limitations for single and split applications)

Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant weeds to quizalofop-P-ethyl or other Group 1 herbicides have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions.
Tank mix products so that there are multiple effective mechanisms of actions for each target weed.

| | Size at Application (height inches) | QUIZALOFOP 1E Applied Alone (fl. oz. product/A) | QUIZALOFOP 1E Tank Mixed with Broadleaf Herbicide* (fl. oz. product/A) |
|--|--|---|---|
| Johnsongrass, Rhizome (<i>Sorghum halepense</i>) | 10-24 | | 10 |
| Quackgrass (<i>Agropyron repens</i>) | 6-10 | | † |

* See "Applications With Broadleaf Herbicides"

** For annual and perennial grasses, up to 12 fluid ounces per acre may be applied, based on local recommendations. Under arid conditions apply at the higher rate.

*** Control includes Roundup Ready (glyphosate resistant), Liberty Link, and IMI-Corn varieties.

Apply 4 fluid ounces/acre QUIZALOFOP 1E for up to 12 inch tall volunteer corn.

Apply 5 fluid ounces/acre QUIZALOFOP 1E for 12-18 inch volunteer corn

Apply 8 fluid ounces/acre QUIZALOFOP 1E for 18-30 inch tall volunteer corn.

† May not be controlled adequately using a tank mix with broadleaf herbicides. For best results, alternate application of QUIZALOFOP 1E with a broadleaf herbicide, ensuring that QUIZALOFOP 1E is applied either 24 hours before or 7 days after the broadleaf herbicide.

‡ Length of lateral growth

§ Size in height or diameter, whichever is more restrictive. Applications to plants with more than three tillers may result in unsatisfactory control.

†† In Texas and other areas of the arid west, apply at 10 fluid ounces per acre for control of Texas panicum, use of lower rates may result in unsatisfactory control.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place.

PRODUCT DISPOSAL: Waste resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Rigid Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons):

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap.

Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Rigid Plastic and Metal Containers (Capacity Greater Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

LIMITATION OF WARRANTY AND LIABILITY

Read this Limitation of Warranty and Liability Before Buying Or Using This Product. If the Terms Are Not Acceptable, Return the Product at Once, Unopened, and the Purchase Price Will Be Refunded.

It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off target movement, unconventional farming techniques, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Albaugh. These risks can cause: ineffectiveness of the product, crop injury, or injury to non-target crops or plants. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.

Albaugh warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

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To the extent consistent with applicable law that allows such requirement, Albaugh or its Ag Retailer must have prompt notice of any claim so that an immediate inspection of buyer's or user's growing crops can be made. Buyer and all users shall promptly notify Albaugh or an Ag Retailer of any claims, whether based on contract, negligence, strict liability, other tort or otherwise, or be barred from any remedy.