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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Christie Hitchcock Makhteshim-Agan of North America Inc. 4515 Falls of Neuse Road, Suite 300 Raleigh, NC 27609

JUN 15 7011

Dear Ms. Hitchcock:

Subject:

Add Artichokes, Bush Berries and Peaches and Revised Labeling

Clethodim 2EC

EPA Registration No. 66222-60

Your Submissions Dated March 21, May 17 and May 20, 2011

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

- 1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) or 4(a) when the Agency requires all registrants of similar products to submit such data.
- 2. Submit one (1) copy of your final printed labeling before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

If you have any questions concerning this letter please contact Mr. James Stone at 703-305-7391.

Sincerely yours,

Kathryn V. Montague Product Manager 23

Herbicide Branch

Registration Division (7505P)

Enclosure



Contains clethodim, the active ingredient used in Select Max® herbicide and Prism® herbicide. MANA Arrow 2EC Herbicide is not manufactured or distributed by Valent U.S.A. Corporation.

Contains petroleum distillate. Contains 2.0 lbs clethodim per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

Manufactured for:

Makhteshim Agan of North America, Inc. 4515 Falls of Neuse Rd., Suite 300 Raleigh, NC 27609 ACCEPTED

JUN 15 2011

EPA Reg. No. 66222-60

EPA Est. No.

Letter(s) in lot number correspond(s) to superscript in EPA Est. No.

NET CONTENTS: 1 GALLON

FIRST AID				
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. 			
IF SWALLOWED:	 Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. 			
IF INHALED:	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. 			

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact PROSAR at 1-877-250-9291 for emergency medical treatment information.

NOTE TO PHYSICIAN: Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause pneumonitis. Contains petroleum distillate.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or Viton ≥14 mils
- Shoes plus socks

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

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwater or rinsate.

The use of this product may pose a hazard to the federally designated endangered species of Solano Grass and Wild Rice. Use of this product is prohibited in the following areas where the species are known to exist:

Solano Grass:	Solano County, California: the vernal lakes area bounded by the Union Pacific Railroad and
	Hastings Road to the north, Highway 113 to the east, Highway 12 to the south, and Travis Air
	Force Base to the west.
Wild Rice:	Hays County, Texas

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of **24 hours**.

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

- Coveralls
- Chemical-resistant gloves, such as barrier laminate or Viton ≥ 14 mils
- Shoes plus socks

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. Keep unprotected persons out of operating areas, or vicinity where there may be drift. Do not enter treated area without protective clothing until sprays have

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator, and/or application advisor. Read and follow the entire label of each product to be used in the tank mix with this product.

PRODUCT INFORMATION

MANA Arrow® 2E Herbicide may be used on the following crops:

Alfalfa; Artichoke (Globe); Asparagus; Bean (Lupinus spp.) (Dry Shelled): Grain Lupin, Sweet Lupin, White Lupin, White Sweet Lupin; Bean (Phaseolus spp.) (Dry Shelled): Field, Kidney, Lima (Dry), Navy, Pinto, Tepary; Bean (Phaseolus spp.) (Succulent), Broad Bean (Succulent), Lima Bean (Green); Bean (Phaseolus spp.) (Edible Podded): Runner, Snap, Wax; Bean (Vigna spp.) (Dry Shelled): Adzuki Bean, Black-Eyed Pea, Catjang, Cowpea, Crowder Pea, Moth Bean, Mung Bean, Rice Bean, Southern Pea, Urd Bean, Broad (Dry), Chickpea (Garbanzo), Guar, Lablab Bean, Lentil; Bean (Vigna spp.) (Succulent): Black-Eyed Pea. Cowpea. Southern Pea; Bean (Vigna spp.) (Edible Podded): Asparagus, Chinese Longbean, Moth, Yardlong, Jackbean; Beet, Garden; Brassica Vegetables (Head and Stem): Broccoli, Chinese Broccoli, Cavola Broccoli, Brussels Sprouts, Cabbage, Chinese (Napa) Cabbage, Chinese Mustard, Cauliflower Kohlrabi; Bushberry: Aronia Berry, Blueberry (Highbush), Chilean Guava, Cranberry (Highbush), Black Currant, Buffalo Currant, Native Currant, Red Currant, Elderberry, European Barberry, Gooseberry, Honeysuckle (Edible), Huckleberry, Jostaberry, Juneberry (Saskatoon Berry), Salal, Sea Buckthorn, Cultivars and/or hybrids of these; Caneberry; Blackberry, Loganberry. Black Raspberry, Red Raspberry, Wild Raspberry, Cultivars, Varieties and/or hybrids of these; Canola*; Carrot; Clover**; Clover, Holy; Conifers; Corn, Field***; Cotton; Cranberry; Cucurbits: Cantaloupes (All), Cucumber, Honeydew Melon, Gherkin, Muskmelons (All), Pumpkin, Squash (All), Watermelon, Chayote (Fruit), Chinese Wax Gourd, Citron Melon, Edible Gourd; Fallow Land (and other non-producing agricultural areas); Flax*; Fruiting Vegetables: Eggplant, Groundcherry, Pepino, Peppers (All), Tomatillo; Garlic; Herbs: Angelica, Balm, Basil, Borage, Burnet, Chamomile, Catnip, Chervil (Dried), Chive, Chinese Chive, Clary, Coriander (Leaf), Costmary, Culantro (Leaf), Curry (Leaf), Dill (Dillweed), Horehound, Hyssop, Lavender, Lovage (Leaf), Marigold, Marjoram (Origanum spp.), Nasturtium, Parsley (Dried), Pennyroyal, Rosemary, Rue, Sage, Savory (Summer and Winter), Sweet Bay, Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood; Hops; Leafy Greens: Amaranth (Leafy Amaranth, Chinese Spinach, Tampala), Arugula (Roquette), Chervil, Chrysanthemum (Edible-Leaved And Garland), Corn Salad, Cress (Garden), Cress (Yellow Rock And Winter), Dandelion, Dock (Sorrel), Endive (Esacarole), Lettuce (Head And Leaf), Orach, Parsley, Purslane (Garden And Winter), Radicchio (Red Chicory), Spinach, Spinach (New Zealand), Spinach (Leafy Amaranth), Spinach, Vine (Indian Spinach and Malabar Spinach); Leafy Brassica Greens: Broccoli Raab, , Chinese (Bok Choy) Cabbage, Collards, Kale, Mizuna, Mustard Chinese, Mustard Greens, Mustard Spinach, Turnip Greens, Rape Greens, Leaf Petioles: Cardoon, Celery, Celtuce, Chinese Celery, Fennel (Florence), Rhubarb Swiss Chard; Mint; Mustard Seed*; Non-Bearing Food Crops, Non-Crop Or Non-Planted Areas; Onions (Dry Bulbs And Green); Ornamentals; Peach; Peanut (Including Perennial)*; Potato; Radish; Root Vegetables: Horseradish, Burdock (Edible), Celeriac, Chervil (Turnip-Rooted), Chicory, Ginseng, Parsley (Turnip-Rooted), Parsnip, Radish (Oriental), Rutabaga, Salsify, Salsify (Black), Salsify (Spanish), Skirret, Turnip; Safflower; Sainfoin; Sesame; Shallots (Dry Bulbs and Green); Soybeans; Strawberry; Sugarbeet; Sunflower; Tomato; Trefoil, Birdsfoot; Tuberous And Corm Vegetables: Arracacha, Arrowroot, Chinese Artichoke, Jerusalem Artichoke, Edible Burdock, Edible Canna, Cassava, Bitter And Sweet Chayote (Root), Chufa, Dasheen (Taro), Ginger, Leren, Sweet Potato, Tanier, Turmeric, Bean Yam, True Yam, Yam; Pea (Pisum spp.) (Dry Shelled): Field, Pigeon; Pea (Pisum spp.) (Succulent): English Pea, Garden Pea, Green Pea, Pigeon Pea, Pea (Pisum spp.) (Edible Podded): Dwarf, Edible-Pod, Snow, Sugar Snap, Pigeon, Sword Bean.

- *Not for use in California unless accompanied by supplemental labeling allowing use in California.
- **Grown in Idaho, Oregon, and Washington only
- ***For burndown of existing stand of Roundup Ready® field corn or volunteer Roundup Ready field corn prior to replanting field corn.

Do not use Arrow 2EC Herbicide on vegetable crops being grown for seed production unless specific use directions are provided.

Arrow 2EC Herbicide is a selective postemergence herbicide for control of annual and perennial grasses. Arrow 2EC Herbicide does not control sedges or broadleaf weeds.

Repeated use of Arrow 2EC Herbicide (or similar postemergence grass herbicide with the same mode of action) can lead to the selection of naturally occurring biotypes that are resistant to these products in some grass species.

If poor performance occurs and cannot be attributed to adverse weather or application conditions, a resistant biotype may be present. This is most likely to occur in fields where other control strategies such as crop rotation, mechanical removal, and other classes of herbicides are not used from year to year.

Do not allow Arrow 2EC Herbicide to come in contact with desirable grass crops such as corn, rice, sorghum, small grains, or turf, as these and other grass crops will be injured or killed. Minor leaf spotting can occur on treated plants under certain environmental conditions. New foliage is not affected.

Control symptoms

Treated grass weeds show a reduction in vigor and growth. Early chlorosis/necrosis of younger plant tissue is followed by a progressive collapse of the remaining foliage. Symptoms will be observed in 7- to 14-days after application depending on grass species treated and environmental conditions.

When an adjuvant is to be used with this product, Makhteshim Agan of North America, Inc. suggests the use of a Chemical Producers and Distributors Association certified adjuvant.

APPLICATION INFORMATION

Timing of Applications

Apply Arrow 2EC Herbicide postemergence to actively growing grasses according to rate table directions. Applications made to grass plants stressed by insufficient moisture or hot or cold temperatures or to grass plants exceeding specified growth stages can result in unsatisfactory control. Do not apply under these conditions.

In arid regions where irrigation is used to supplement limited rainfall, apply Arrow 2EC Herbicide as soon as possible after an irrigation (within 7 days). In arid regions, a second application of Arrow 2EC Herbicide will provide more effective control of perennial grass weeds than a single application. Make second application to actively growing grass 2 to 3 weeks after emergence of new growth.

Cultivation of treated grasses 7 days prior to or within 7 days after application of Arrow 2EC Herbicide can reduce weed control. DO NOT APPLY Arrow 2EC Herbicide if rainfall is expected within one hour since control can be reduced.

ADDITION OF ADJUVANT OR CROP OIL CONCENTRATE

ADDITION OF ADDR	VANT OR CROP OIL CONCENTRATE
CROP	ADJUVANT DIRECTIONS
Alfalfa , Cotton, Dry Shelled Beans and Pea, Edible Podded Legume Vegetables, Peanuts (including perennial), Potato, Soybeans, Succulent Bean & Pea , Sugarbeets, Sunflowers	Always use a crop oil concentrate* at 1.0 qt/A by ground or 1% v/v (but not less than 1 pt/A) in the finished spray volume by air. 1 to 2 qts/A of liquid fertilizer (10-34-0, 28%N or 32%N), or an equivalent amount (2.5 to 4.0 lbs/A) of spray grade ammonium sulfate (AMS) can be added to Arrow 2EC Herbicide applications in addition to the specified rate of crop oil concentrate. The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.



CROP	ADJUVANT DIRECTIONS
Artichoke, Asparagus, Bushberries (including blueberries), Canola, Carrots, Clover, Cranberries, Cucurbits, Flax, Fruiting Vegetables (except tomato), Garden Beets, Garlic, Head and Stem Brassica Vegetables, Herbs, Hops, Leaf Petioles, Leafy Brassica Greens, Leafy Greens, Mint, Mustard Seed, Onions (dry bulbs and green), Peaches, Root Vegetables, Safflower, Sesame, Shallots (dry bulbs and green), Strawberries, Sweet Potatoes (Yams and other tuberous and corm vegetables except potato) and Tomato.	Always use a crop oil concentrate at 1% v/v in the finished spray volume unless tank mix instructions indicate otherwise. Do not add a liquid fertilizer for these crops.
Non-Bearing Food Crops, Ornamental Plants, Field Corn	Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt per 50 gals (0.25% v/v). Do not use a crop oil concentrate since it can injure flowers and foliage.
Conifer Trees, Fallow Land (and other non-producing agricultural areas), and Non-Crop or Non-Planted Areas	Always use a crop oil concentrate containing at least 15% emulsifier at 1% v/v (but not less than 1 pt/A) in the finished spray volume.

*Acceptable crop oil concentrates would be those which contain a minimum of 80% oils and 15% emulsifier. A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all the following criteria: be non-phytotoxic, contain only EPA-exempt ingredients, provide good mixing quality, and be successful in local experience. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils.

Ground Application

Use of sufficient spray volumes and pressure is essential to ensure complete coverage. Use a minimum of 5 gals and a maximum of 40 gals of spray solution per acre. Under the following conditions a minimum of 10 gals per acre is required: ultra narrow row cotton, narrow row soybeans, broadleaf herbicide tank mixes, perennial grasses, volunteer corn, drought or stress conditions, heavy grass pressure, or when grasses are at or near maximum height. Failure to use a minimum of 10 gals per acre under these conditions can result in poor coverage and reduced grass control requiring repeat applications. Set spray pressures to a minimum of 30 psi and a maximum of 60 psi at the nozzle. Do not use flood nozzles.

Make applications to onions (dry bulbs and green), garlic, or shallots (dry bulbs and green) in a minimum of 20 gals of spray solution per acre.

Air application

Use a minimum of 3 gals of spray solution per acre unless otherwise directed in this label. Increase spray volumes up to 10 gals as grass or crop foliage becomes dense.

For onions (dry bulbs and green), garlic, or shallots (dry bulbs and green): When applying by air do not exceed 8 fl oz/A in a single application. In California, make air applications to onions, garlic, or shallots in a minimum of 20 gals of spray solution per acre. In states other than California, make air application to onions, garlic, or shallot in a minimum of 10 gals of spray solution per acre.

Note: Crop injury can occur when Arrow 2EC Herbicide is applied to onions, garlic, or shallots with aerial equipment.

Spot Treatment

When using hand sprayers or high volume sprayers utilizing hand guns, mix 1/4% to 1/2% (0.33 oz to 0.65 oz per gal) Arrow 2EC Herbicide and treat to wet vegetation while not allowing runoff of spray solution. For uses requiring crop oil concentrate, include crop oil concentrate at 1% (1.3 oz per gal) by volume. For uses requiring non-ionic surfactant, include non-ionic surfactant at 1/4% (0.33 oz per gal) by volume.

Note: If Arrow 2EC Herbicide is applied as a spot treatment, care must be taken not to exceed the maximum rate allowed on a "per acre" basis or crop injury can occur.

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CHEMIGATION ONIONS (Dry Bulbs and Green) AND GARLIC SPRINKLER IRRIGATION APPLICATION

Do not apply Arrow 2EC Herbicide by chemigation in the states of Idaho, Montana, Oregon, and Washington.

This product can be applied to onions and garlic by sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply by chemigation to any other crop or to this crop using any other type of irrigation system.

Apply Arrow 2EC Herbicide at the high rate specified for annual grasses (16 fl oz/A) when the grass height is at the low end of the range (application to larger grasses may not provide adequate control). Add a crop oil concentrate containing at least 15% emulsifier at 1 quart per acre.

Apply Arrow 2EC Herbicide in 0.1 to 0.2 acre-inch of water either at the end of a regular irrigation set or as a separate application not associated with a regular irrigation using the least amount of water that provides proper distribution and coverage. Application of more than label specified quantities of irrigation water per acre can result in decreased product performance by removing the chemical from the zone of effectiveness. Use a metering device to inject the Arrow 2EC Herbicide into the irrigation water at a constant flow. Constant agitation must be maintained in the chemical supply tank during the entire period of herbicide application. Inject the product with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. Allow time for all lines to flush the herbicide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining herbicide, a dye indicator can be injected into the lines to mark the end of the application period.

Do not apply Arrow 2EC Herbicide through an irrigation system connected to a public water system. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Use Precautions

- 1. Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.
- 2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- 3. If you have any questions about calibration, contact State Extension Service specialists, equipment manufacturers, or other experts.
- 4. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.
- 5. A person knowledgeable of the chemigation system and responsible for its operation or under supervision of the responsible person shall shut the system down and make necessary adjustments as needed.
- 6. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 7. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 8. The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 10. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 11. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 12. Do not apply when wind speed favors drift beyond the area intended for treatment.



RESTRICTIONS AND LIMITATIONS

Do not apply if rain is expected within 1 hour of application as control can be unsatisfactory.

Do not plant rotational crops until 30 days after application of Arrow 2EC Herbicide unless the crop is listed on the Arrow 2EC Herbicide label.

Do not apply a postemergence broadleaf herbicide within one day following application of Arrow 2EC Herbicide or reduced grass control can result.

Do not use Arrow 2EC Herbicide on vegetable crops being grown for seed production unless specific use directions are provided. For canola, do not apply more than 6 fl oz of Arrow 2EC Herbicide (0.09 lb ai) per acre per season. For clover, flax, mustard seed and radish crops, do not apply more than 16 fl oz of Arrow 2EC Herbicide (0.25 lb ai) per acre per season. For all other crops, do not apply more than 32 fl oz of Arrow 2EC Herbicide (0.50 lb ai) per acre per season (except where state specific restrictions are noted).

Application on Long Island, New York is restricted to no more than 16 fl oz of Arrow 2EC Herbicide (0.25 lb ai) per acre per season.

Do not apply more than 8 fl oz/A of Arrow 2EC Herbicide per application to the following crops: asparagus, brassica vegetables, (head and stem), bean (succulent), carrots, cranberry, cucurbits, flax, fruiting vegetables, (except tomato), garden beet, green onion, herbs, hops, leafy petioles, leafy brassica greens, leafy greens, legume vegetables (edible podded), non-bearing food crops, pea (dry shelled), pea (succulent), root vegetables, safflower, sesame and strawberry.

Do not apply more than 6 fl oz /A of Arrow 2EC Herbicide per application to canola, or mustard seed. For all other crops, do not apply more than 16 fl oz of Arrow 2EC Herbicide (0.25 lb ai) per acre per application (except where state specific restrictions are noted). **Exceeding these specifications can result in unacceptable crop injury.**

Do not apply under conditions of stress. Applying Arrow 2EC Herbicide under conditions that do not promote active grass growth will reduce herbicide effectiveness. These conditions include drought, excessive water, extremes in temperature, low humidity, and grasses either partially controlled or stunted from prior pesticide applications. Grasses under these kinds of stressful conditions will not absorb and translocate Arrow 2EC Herbicide effectively and will be less susceptible to herbicide activity.

Best perennial grass control can be obtained if rhizomes or stolons are cut up by preplant tillage practices (discing, plowing, etc.) to stimulate maximum emergence of grass shoots. Cultural practices, such as continuous no-tillage in which the perennial grass rhizomes or stolons are not cut up, results in a very staggered, non-uniform weed emergence. Due to this non-uniform weed emergence, make no fewer than two Arrow 2EC Herbicide applications per season per year at the appropriate weed-growth stage rate under continuous no-till conditions.

Grass crops such as corn, rice, sorghum, small grains, or turf, etc. are highly sensitive to Arrow 2EC Herbicide.

While all the vegetable crops on this label have been tested and are tolerant to Arrow 2EC Herbicide, not all specialty varieties of these crops have been tested. It is advised that, before applying Arrow 2EC Herbicide to specialty varieties of vegetable crops on this label, crop tolerance be investigated first using a small section of the field. It is possible that injury symptoms can occur. Symptoms may appear as leaf speckling or stunting.

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

Tank mixes of Arrow 2EC Herbicide and broadleaf herbicides can result in reduced grass control. If grass regrowth occurs, an additional application of Arrow 2EC Herbicide may be necessary.

AVOID SPRAY DRIFT

Do not allow spray from ground or aerial equipment to drift onto adjacent land or crops. When drift may be a problem, do everything possible to reduce spray drift, including:

- Do not spray if wind speeds are or become excessive. Do not spray if wind speed is 10 MPH or greater. If sensitive crops or plants are downwind, extreme caution must be used under all conditions. Do not spray if winds are gusty.
- Use extreme caution when conditions are favorable for drift (high temperatures, drought, low relative humidity), especially when sensitive plants are located nearby.
- Do not apply when a temperature inversion exists. If inversion conditions are suspected, consult with local weather services before making an application.
- Further reductions in drift can be obtained by:

- 1. Using large droplet size sprays. Do not use nozzles that produce small droplets. Orient nozzles downward and slightly backward as needed to reduce drift for ground applications.
- 2. Orienting nozzles straight back with the wind stream, using straight stream orifices for aerial applications. Use the lowest number of nozzles practical with the largest possible orifice size to obtain the minimum 3 GPA volume. Set application height and boom length according to manufacturer's instructions to minimize drift.
- 3. Increasing the volume of spray mixture (for example a minimum of 10 GPA for ground applications) by using higher flow rate nozzles. Using lower pressure with the appropriate nozzle to obtain higher volumes will also reduce drift.
- 4. Applying as close to target plants as practical while maintaining a good spray pattern for adequate coverage.

Do not apply under conditions involving possible drift to food, forage, or other planting that might be damaged or the crops thereof rendered unfit for sale, use, or consumption.

RESISTANCE MANAGEMENT

Arrow 2EC Herbicide is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to Arrow 2EC Herbicide and other Group 1 herbicides. Weed species with acquired resistance to Group 1 may eventually dominate the weed population if Group 1 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Arrow 2EC Herbicide or other Group 1 herbicides. Repeated use of Arrow 2EC Herbicide (or similar postemergence grass herbicide with the same mode of action) may lead to the selection of naturally occurring biotypes that are resistant to these products in some grass species.

If poor performance occurs and cannot be attributed to adverse weather or application conditions, a resistant biotype may be present. This is most likely to occur in fields where other control strategies such as crop rotation, mechanical removal and other classes of herbicides are not used from year to year.

To delay herbicide resistance consider:

- 1. Avoiding the consecutive use of Arrow 2EC Herbicide or other target site of action Group 1 herbicides that have similar target site of action, on the same weed species.
- 2. Using tank mixtures or premixes with herbicides from different target site of action groups as long as the involved products are all registered for the same use, have different sites of action, and are both effective at the tank mix or prepack rate on the weed(s) of concern.
- 3. Basing herbicide use on a comprehensive IPM program.
- 4. Monitoring treated weed populations for loss of field efficacy.
- 5. Contacting your local extension specialist, certified crop advisors, and/or manufacturers for herbicide resistance management and/or integrated weed management directions for specific crops and resistant weed biotypes.

CROP-SPECIFIC RESTRICTIONS AND LIMITATIONS FOR ARROW 2EC HERBICIDE

CROPS (1)	USE RATES FL OZ PER ACRE	CROP OIL CONCENTRATE RATES PER ACRE ⁽²⁾	SPECIAL USE INSTRUCTIONS
Alfalfa including: (Sainfoin,	6-16 (4)	1 qt by ground or 1.0% v/v (but not less than 1 pt/A) by air ⁽⁵⁾	Do not apply more than 16 fl oz/A per application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
Holy Clover, Birdsfoot Trefoil) (3)			For repeat applications make on a minimum of a 14-day interval.
			Refer to tank mix partners for feeding, grazing and harvesting restrictions. ^(5, 6)
			The addition of AMS has shown improved grass control for difficult to control species including quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.



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		,	The Preharvest Interval (PHI) is 15 days before grazing, feeding or harvesting (cutting) for forage or hay.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Artichoke (Globe)	4-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
·			For repeat applications make on a minimum of a 14-day interval.
			The Preharvest Interval (PHI) is 5 days.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Asparagus	6-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
			For repeat applications make on a minimum of a 14-day interval.
			The Preharvest Interval (PHI) is 1 day.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Beans, Dry Shelled including: Bean (Lupinus spp.): Grain, Sweet, White,	6-16	1 qt by ground or 1.0% v/v (but not less than 1 pt/A) by air ⁽⁵⁾	Do not apply more than 16 fl oz/A per application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
White Sweet Bean (<i>Phaseolus</i>			For repeat applications make on a minimum of a 14-day interval.
spp.): Field, Kidney, Lima (dry), Navy, Pinto, Tepary			The addition of AMS has shown improved grass control for difficult to control species including quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
Bean (<i>Vigna</i> spp.):			The Preharvest Interval (PHI) is 30 days,
Adzuki Bean, Black- eyed pea, Catjang Cowpea, Crowder pea, Moth Bean, Mung Bean, Rice bean, Southern Pea, Urd Bean, Broad			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
(dry), Chickpea (garbanzo) Guar, Lablab Bean, Lentil			

Bean, Succulent Including:	6-8	1 at by ground or 1 % v/v (but not less	Do not apply more than one (1) application per acre per season.
Bean (<i>Phaseolus</i> spp.): Broad bean (succulent) Lima bean (green),		than 1 pt/A) by air. ⁽⁵⁾	The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, rhizome Johnsongrass, red rice, wild oats, volunteer cereals and volunteer corn.
Bean (<i>Vigna</i> spp.), Black-eyed pea ,			The Preharvest Interval (PHI) is 21 days.
Cowpea, Southern pea			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Beet, Garden	6-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
			For repeat applications make on a minimum of a 14-day interval.
			The Preharvest Interval (PHI) is 30 days.
	_		Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Bushberry including: Aronia berry, Blueberry,	4-8	1 % v/v (but not less than 1 pt/A	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
highbush, Chilean			The Preharvest Interval (PHI) is 14 days.
guava, Cranberry highbush, Currant black, Currant			For repeat applications make on a minimum of a 14-day interval.
buffalo, Currant native, Currant red, Elderberry, European barberry,			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Gooseberry, Honeysuckle, edible Huckleberry,			See Use Directions for Bushberry, Caneberry and Peach.
Jostaberry,			
Juneberry,			
Saskatoon berry, Salal, Sea buckhorn,			
cultivars, varieties			
and/or hybrids of these			
Caneberry including: Blackberry,	4-8	1 % v/v (but not less than 1 pt/A)	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
Loganberry, Raspberry, black, Raspberry, red,			For repeat applications make on a minimum of a 14-day interval.
Raspberry, wild			The Preharvest Interval (PHI) is 7 days.
Cultivars, varieties and/or hybrids of these			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
			See Use Directions for Bushberry, Caneberry and Peach.

Canola*	4- 6	1% v/v in the finished	Do not apply after crop has begun bolting. Crop
*Not for use in California unless		spray volume	injury can occur when Arrow 2EC Herbicide is applied during the bloom period.
accompanied by supplemental labeling allowing use			Do not apply more than 6 fl oz/A in a single application. Do not apply more than 6 fl oz/A (0.09 lb ai/A) in a season.
in California			The Preharvest Interval (PHI) is 70 days.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Carrot	6-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
			For repeat applications make on a minimum of a 14-day interval.
		·	The Preharvest Interval (PHI) is 30 days.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Clover (Idaho, Oregon, and	6-16	1% v/v in the finished spray volume	For use on clover grown in the states of Idaho, Oregon, and Washington only.
Washington only)			Do not exceed 16 fl oz/A (0.25 lb ai/A) in a single application or in a season.
			The Preharvest Interval (PHI) is 15-days before grazing, feeding, or harvesting (cutting) for forage or hay.
			In Oregon, for use on clover grown for seed, use 6-8 fl oz/A for annual grass control and 8-10 fl oz/A for perennial grass control.
Corn, Field ⁽⁷⁾	3	Do not use COC on field corn. Use NIS at	Do not make more than 1 application per season.
		0.25% v/v	Do not apply more than 3 fl oz/A per season.
			To control existing stand, replant no sooner than 6 days after application.
	0.40		The Preharvest Interval (PHI) is 90 days.
Cotton	6-16	1 qt by ground or 1.0% v/v (but not less than 1 pt/A) by air) ⁽⁵⁾	Do not apply more than 16 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
			For repeat applications make on a minimum of a 14-day interval.
,			Do not graze treated fields or feed treated forage or hay to livestock.
			The addition of AMS has shown improved grass control for difficult to control species including quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
			The Preharvest Interval (PHI) is 60 days.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.

Cranberry	6-8	1% v/v in the finished	Do not apply more than 8 fl oz/A in a single
Cranberry	0-0	spray volume	application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
			For repeat applications make on a minimum of a 14-day interval.
			Do not apply between the "hook" stage and full fruit set.
			The Preharvest Interval (PHI) is 30 days.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Cucurbits including: Chayote (fruit),	6-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
Chinese Wax Gourd, Citron Melon, Cucumber, Gherkin,			For repeat applications make on a minimum of a 14-day interval.
Gourd,(Edible),			The Preharvest Interval (PHI) is 14 days.
Muskmelons (all) including: Cantaloupes, Honeydew Melon Pumpkin, Squash			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
(all), Watermelon Fallow Land, Conifer Trees (and other non-	6-16	1% v/v (but not less than 1 pt/A) in the finished spray volume	Do not apply more than 16 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
producing agricultural areas)		using a crop oil concentrate containing at least 15% emulsifier.	For repeat applications make on a minimum of a 14-day interval.
Non-Crop or Non- Planted Areas			Do not plant any crop for 30-days after application unless Arrow 2EC Herbicide is registered for use in that crop.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Flax* *Not for use in California unless	6-8	1% v/v in the finished spray volume	Apply prior to bloom. Crop injury can occur when Arrow 2EC Herbicide is applied during the bloom period.
accompanied by supplemental labeling allowing use			Do not apply more than 8 fl oz/A in a single application. Do not exceed 16 fl oz/A (0.25 lb ai/A) in a season.
in California			For repeat applications make on a minimum of a 14-day interval.
			The Preharvest Interval (PHI) is 60 days.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.

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Fruiting Vegetables (except Tomato) including:	6-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
Eggplant, Groundcherry, Pepino, Peppers			For repeat applications make on a minimum of a 14-day interval.
(all), Tomatillo			The Preharvest Interval (PHI) is 20 days.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Head and Stem Brassica Vegetables	6-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
including: Broccoli, Cabbage, Cauliflower, Brussels			For repeat applications make on a minimum of a 14-day interval.
Sprouts Chinese			The Preharvest Interval (PHI) is 30 days.
broccoli, Chinese (Napa) cabbage, Chinese mustard, Cavalo broccoli, and Kohlrabi			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Herbs including: Angelica, Balm, Basil, Borage, Burnet, Chamomile, Catnip, Chervil	6-8	1% v/v in the finished spray volume	Arrow 2EC Herbicide has not been tested on all herbs, and herb varieties. It is the responsibility of the user to test Arrow 2EC Herbicide on a small portion of the crop to be treated before treating the entire field.
(dried), Chive, Chive, (Chinese), Clary, Coriander (leaf), Costmary, Culantro (leaf), Curry (leaf), Dill (dillweed), Horehound, Hyssop, Lavender, Lovage (leaf), Marigold, Marjoram (<i>Origanum</i>			Verify the crop tolerance to Arrow 2EC Herbicide on a small area of the herb crop, at the desired Arrow 2EC Herbicide rate and with the same crop oil concentrate that will be used on the herb field. If no crop response is evident seven (7) days after treatment, Arrow 2EC Herbicide can be used on the entire field at the rate tested and with the same crop oil used in the tolerance test.
spp.), Nasturtium, Parsley (dried), Pennyroyal,			Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
Rosemary, Rue, Sage, Savory (Summer and			For repeat applications, make on a minimum of a 14-day interval.
Winter),			The Preharvest Interval (PHI) is 14 days.
Sweet Bay, Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Hops	6-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
			For repeat applications make on a minimum of a 14-day interval.
			The Preharvest Interval (PHI) is 21 days.
			Refer to appropriate table for reduced rate

			specifications for the control of small annual grasses.
Leafy Greens Including: Amaranth, Chinese spinach, Leafy Amaranth, Tampala, Arugula (roquette), Chervil, Chrysanthemum (Edible leaved), Chrysanthemum (Garland), Corn salad, Cress (garden, upland [yellow rock and winter]), Dandelion, Dock (sorrel), Endive (escarole), Lettuce (Head and Leaf), Orach, Parsley, Purslane (garden, winter), Radicchio (red chicory), Spinach, Spinach (Leafy Amaranth), Spinach (New Zealand), Spinach	6-8	1% v/v in the finished spray volume	grasses. Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season. For repeat applications make on a minimum of a 14-day interval. The Preharvest Interval (PHI) is 14 days. Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
(Vine [Indian and			
Malabar]) Leaf Petioles including: Cardoon, Celery,	6-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
Celtuce, Chinese Celery, Fennel, Florence (finochio),			For repeat applications make on a minimum of a 14-day interval.
Rhubarb, Swiss			The Preharvest Interval (PHI) is 30 days.
Chard			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Leafy Brassica Greens including: Broccoli raab;	6-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
Cabbage, Chinese (Bok choy); Collards; Kale; Mizuna;			For repeat applications make on a minimum of a 14 day interval.
Mustard Greens;			The Preharvest Interval (PHI) is 14 days.
Mustard Spinach; Rape Green; Turnip Greens	·		Refer to appropriate table for reduced rate specifications for the control of small annual grasses.

		T	T
Legume	6-8	1 qt by ground or 1%	Do not apply more than 8 fl oz/A in a single
Vegetables, Edible		v/v (but not less than	application.
Podded including:		1 pt per acre) by air ⁽⁵⁾	Do not apply more one application per acre per
Bean (Phaseolus			season.
spp.):			
Runner,		1	For peas, apply before bloom, but no later than
Snap,			21- days before harvest.
Wax			
Bean (Vigna spp.):			The addition of AMS has shown improved grass
Asparagus,			control for difficult to control species including:
Chinese			Quackgrass, rhizome johnsongrass, red rice,
Longbean,			wild oats, volunteer cereals, and volunteer corn.
Moth,	}	}	The Preharvest Interval (PHI) is 21 days.Refer
Yardlong, Jackbean	Ĭ	1	to appropriate table for reduced rate
ł			specifications for the control of small annual
Pea (<i>Pisum</i> spp.): Dwarf,			grasses.
Edible-pod,			
Snow,			
Silow, Sugar Snap,			
Pigeon,			•
Sword Bean			
Mint	6-16 ⁽⁴⁾	1 qt by ground or	Do not apply more than 16 fl oz/A in a single
1011111		1.0% v/v (but not less	application. Do not apply more than 32 fl oz/A
		than 1 pt per acre by	(0.5 lb ai/A) per season.
		air)	
			For repeat applications make on a minimum of a
			14-day interval.
			The Preharvest Interval (PHI) is 21 days.
			Refer to appropriate table for reduced rate
			specifications for the control of small annual
Manager of Canada		40//. in the finished	grasses.
Mustard Seed*		1% v/v in the finished	Do not apply after crop has begun bolting. Crop
*Not for use in		spray volume	injury can occur when Arrow 2EC Herbicide is
California unless			applied during the bloom period.
accompanied by			Do not apply more than 6 fl oz/A in a single
supplemental	•		application. Do not exceed 6 fl oz/A (0.09 lb
labeling allowing use			ai/A) in a season.
in California			The Preharvest Interval (PHI) is 75 days.
' 			Refer to appropriate table for reduced rate
			specifications for the control of small annual
			grasses.
Onions (Dry Bulbs	6-16 ^{(9),(10)}	1% v/v in the finished	Do not apply more than 16 fl oz/A per
Only),	0-10	spray volume	application. Do not apply more than 32 fl oz/A
Garlic,		opiay volunic	(0.5 lb ai/A) per season.
Shallots (Dry Bulbs			
Only)			Minimum of 20 gals/A spray volume by ground
~···J/			in entire U.S.
			Minimum of 20 gals/A spray volume by air in
			California ⁽⁹⁾
		,	
			In states other than California, make air
			applications to onions, garlic or shallots in a
			minimum of 10 gals per acre.
			For repeat applications make on a minimum of a
			14 day interval.

			The Deskey and leaves at (DUI) 1. 45. I
			The Preharvest Interval (PHI) is 45 days.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Onions, Green including Leeks, Scallions, or Spring	6-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
Onions, Japanese Bunching Onions, Green Shallots,			For repeat applications make on a minimum of a 14-day interval.
Green Eschalots			The Preharvest Interval (PHI) is 14 days.
			Minimum of 20 gals/A spray volume by air in California. ⁽⁸⁾
			In states other than California, make air applications to onions, garlic or shallots in a minimum of 10 gals per acre.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Ornamentals	6-16	Do not use crop oil	Add a non-ionic surfactant containing at least
Non-Bearing Food Crops	6-8	concentrate since it can injure flowers	80% active ingredient at the rate of 1 pt per 50 gals (0.25%v/v).
	and foliage. See Special Use Instructions.		Sugar maples cannot be tapped for syrup within one year of Arrow 2EC Herbicide application. Do not apply more than 8 fl oz per acre in a single application to non-bearing food crops. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
			For repeat applications make on a minimum of a 14-day interval.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Pea, Dry Shelled including:	6-8	1 qt by ground or 1% v/v (but not less than	Do not apply more than 8 fl oz/A per application.
Pea (<i>Pisum</i> spp.) Field,		1 pt per acre) by air. ⁽⁵⁾	Do not apply more than one (1) application per acre per season.
Pigeon			Apply before bloom but not later than 30 days prior to harvest. (11)
			The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
			The Preharvest Interval (PHI) is 30 days. Refer to appropriate table for reduced rate specifications for the control of small annual grasses.

Pea, Succulent	6-8	1 qt by ground or 1%	Do not apply more than 8 fl oz/A per application.
including: Pea (<i>Pisum</i> spp.): English pea,		v/v (but not less than 1 pt per acre) by air.	Do not apply more than one (1) application per acre per season.
Garden pea, Green pea,			Apply before bloom but not later than 21 days prior to harvest. (11)
Pigeon pea			The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals and volunteer corn.
	•		The Preharvest Interval (PHI) is 21 days.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Peach	6-8	1% v/v (but not less than 1 pt per acre)	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
	·		For repeat applications make on a minimum of 14-day intervals.
	:		The Preharvest Interval (PHI) is 14 days. Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
			See Use Directions for Bushberry, Caneberry and Peach
Peanuts (including Perennial)* *Not registered for use in CA unless	6-16	1 qt by ground or 1.0% v/v (but not less than 1 pt/A) by air ⁽⁵⁾	The addition of AMS has shown improved grass control for difficult to control species including quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
accompanied by a supplemental label			Do not apply more than 16 fl oz/A in a single application. Do not apply more 32 fl oz/A (0.5 lb ai/A per season, except in Florida where the limit is 32 fl oz/A per year (perennial peanuts only).
			For repeat applications make on a minimum of a 14-day interval.
			The Preharvest Interval (PHI) is 40 days.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.

Potato	6-16	1 qt by ground or 1.0% v/v (but not less than 1 pt/A) by air ⁽⁵⁾	The addition of AMS has shown improved grass control for difficult to control species including quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
			Do not apply more than 16 fl oz/A in a single application. Do not apply more 32 fl oz/A (0.5 lb ai/A) per season, except in Florida where the limit is 32 fl oz/A per year (perennial peanuts only).
			For repeat applications make on a minimum of a 14-day interval.
			The Preharvest Interval (PHI) is 30 days.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Radish	6-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 16 fl oz (0.25 lb ai/A) per acre in a season.
			For repeat applications make on a minimum of a 14-day interval.
			The Preharvest Interval (PHI) is 15 days. Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Root Vegetables (except Radish) including:	6-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai) in a season.
Chicory, Ginseng, Horseradish, Turnip Burdock (Edible),			For repeat applications make on a minimum of a 14-day interval.
Celeriac, Chervil			The Preharvest Interval (PHI) is 30 days.
(Turnip-Rooted), Parsley (Turnip- Rooted), Parsnip, Radish (Oriental),			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Rutabaga, Salsify, Salsify (Black), Salsify (Spanish), Skirret			
Safflower	6-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) in a season.
			For repeat applications make on a minimum of a 14-day interval.
			The Preharvest Interval (PHI) is 70 days.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.

Sesame	6-8	1% v/v in the finished	Do not apply during flowering.
Ocsame	0-0	spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A
]		(0.5 lb ai/A) in a season.
	·		For repeat applications make on a minimum of a 14-day interval.
			The Preharvest Interval (PHI) is 14 days.
Soybean	6-16	1 qt by ground or	Refer to appropriate table for reduced rate specifications for the control of small annual grasses. Do not graze treated fields or feed treated
Soybean	0-10	1.0% v/v (but not less	forage or hay to livestock.
		than 1 pt/A) by air ⁽⁵⁾	Do not apply more than 16 fl oz/A per application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
			The Preharvest Interval (PHI) is 60 days.
			The addition of AMS has shown improved grass control for difficult to control species including quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Strawberry	6-8	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
			For repeat applications make on a minimum of a 14-day interval.
		!	The Preharvest Interval (PHI) is 4 days.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Sugarbeet	6-16	1 qt by ground or 1.0% v/v (but not less than 1 pt/A) by air ⁽⁵⁾	Do not apply more than 16 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
	i		For repeat applications make on a minimum of a 14-day interval.
			The Preharvest Interval (PHI) is 40 days.
			The addition of AMS has shown improved grass control for difficult to control species including quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.



Sunflower	6-16	1 qt by ground or 1.0% v/v (but not less than 1 pt/A) by air ⁽⁵⁾	Do not apply more than 16 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
			For repeat applications make on a minimum of a 14-day interval.
			The Preharvest Interval (PHI) is 70 days. The addition of AMS has shown improved grass control for difficult to control species including quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
·			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Tuberous and corm vegetables (except potato)	6-16	1% v/v in the finished spray volume	Do not apply more than 16 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
Arracacha, Arrowroot.			The Preharvest Interval (PHI) is 30 days.
Chinese Artichoke, Jerusalem Artichoke.		·	The addition of AMS has shown improved grass control for difficult to control species including: Quackgrass, rhizome johnsongrass, red rice, wild oats, volunteer cereals and volunteer corn.
Edible Burdock, Edible Canna, Cassava, Bitter And Sweet		;	Refer to appropriate table for reduced rate specifications for the control of small annual grasses.
Chayote (Root), Chufa, Dasheen (Taro), Ginger,			
Leren, Sweet Potato, Tanier, Turmeric, Bean Yam, True Yam,			
Yam			
Tomato	6-16	1% v/v in the finished spray volume	Do not apply more than 16 fl oz/A in a single application. Do not apply more than 32 fl oz/A (0.5 lb ai/A) per season.
	;		For repeat applications make on a minimum of a 14-day interval.
			The Preharvest Interval (PHI) is 20 days.
			Refer to appropriate table for reduced rate specifications for the control of small annual grasses.

N/A= Not Applicable Do not use Arrow 2EC Herbicide on vegetable crops being grown for seed production unless specific use directions are provided.

Acceptable crop oil concentrates would be those which contain a minimum of 80% oils and 15% emulsifier. A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all the following criteria: be non-phytotoxic, contain only EPA-exempt ingredients, provide good mixing quality, and be successful in local experience. Highly refined vegetable oils have proven more satisfactory than unrefined

vegetable oils. See the ADDITION OF ADJUVANT AND CROP OIL CONCENTRATE section for further information.

Arrow 2EC Herbicide can be applied to seedling or established alfalfa grown for seed, hay, silage, green chop, or direct grazing.

(4) For weed control in established alfalfa and mint, the minimum use rate is 10 fl oz per acre.

⁽⁵⁾ 1 to 2 qts/A of liquid fertilizer (10-34-0, 28%N or 32%N), or an equivalent amount (2.5 to 4.0 lbs/A) of spray grade ammonium sulfate (AMS) can be added to Arrow 2EC Herbicide applications in addition to the specified rate of crop oil concentrate.

Do not apply Arrow 2EC Herbicide and 2,4-DB as a tank mix to alfalfa unless the 60 day feeding, grazing, and

harvesting restriction on the 2,4-DB label can be observed.

- For burndown of an existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn prior to replanting field corn. See **DIRECTIONS FOR USE IN ROUNDUP READ FIELD CORN (BURNDOWN)** table.
- (8) For ground applications to garlic or shallots, do not exceed 8 fl oz/A in a single application. For air applications to onions, garlic, or shallots, do not exceed 8 fl oz/A in a single application. For garlic and shallots, do not exceed 2 applications per season. In California for air applications to onions, do not exceed 2 applications per season.

If Arrow 2EC Herbicide is applied as a spot treatment to onions, garlic, shallots, or non-bearing food crops,

take care not to exceed the maximum rate allowed on a PER ACRE basis or crop injury can occur.

(10) In California, do not apply Arrow 2EC Herbicide to onions, garlic, or shallots until crop has at least two full leaves. In California, use 14-day spray intervals between the application of Arrow 2EC Herbicide and Liquid Nitrogen or other herbicide applications. Injury to crop can occur when shorter intervals are observed.

Applications of Arrow 2EC Herbicide to peas during the bloom period could result in severe crop injury,

including loss of yield and delayed maturity.

IMPORTANT: Plant tolerance to Arrow 2EC Herbicide at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species, crop growth stage, environmental conditions, and application techniques, determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of Arrow 2EC Herbicide have investigated the safety factor to plants not listed on the label.

NON-BEARING FOOD CROPS

DO NOT APPLY ARROW 2EC HERBICIDE TO NON-BEARING FRUIT OR NUT CROPS WHICH ARE GROWN FOR ROOT STOCK.

Crop injury to non-bearing fruit and nut crops can occur if Arrow 2EC Herbicide is improperly applied. Do not apply Arrow 2EC Herbicide directly over the top of these plant types. Instead, direct the spray at the base of the plant where grassy weeds are growing near the ground.

Non-bearing fruit and nut crops are plants which will not bear fruit or nuts for at least one year following Arrow 2EC Herbicide application.

COMMON NAME	SCIENTIFIC NAME		
Apples	Malus spp.		
Berries	Vaccinium spp.		
	Rubus spp.		
Cherry, Sweet	Prunus avium		
Citrus Fruits	Citrus spp.		
Grapes	Vitis spp.		
Olives	Olea spp.		
Peach	Prunus persica		
Pears	Pyrus communis		
Prunes	Prunus spp.		
Stone Fruits	Prunus spp.		
Strawberries	Fragaria spp.		

COMMON NAME	SCIENTIFIC NAME	
Tree Nuts:		
Almonds	Prunus dulcis	
Filbert	Corylus maxima	
Pecan	Carya illinoinensis	
Pistachio	Pistacia vera	
Walnut	Juglans spp.	

CONIFER TREES

Arrow 2EC Herbicide can be used to control labeled grasses in Christmas tree farms, conifer nurseries, and

conifer plantations (but not in forests).

COMMON NAME	SCIENTIFIC NAME		
Arborvitae, American	Thuja occidentalis		
Cedars	Cedrus spp.		
Cypress	Taxodium spp.		
Douglas Fir	Pseudotsuga menziesii		
Firs	Abies spp.		
Hemlock, Canadian	Tsuga canadensis		
Hemlock, Western	Tsuga heterophylla		
Pines	Pinus spp.		
Spruces	Picea spp.		
Yew	Taxus spp.		

NON-CROP OR NON-PLANTED AREAS

The following areas are considered non-crop or non-planted areas: rights-of-way including railroads, highways, roads, dividers, medians, pipelines, public utility lines, pumping stations, transformer stations and substations, around airports, electric utilities, commercial buildings, manufacturing plants, storage yards, rail yards, fence lines, parkways, and post-harvest croplands, also beneath greenhouse benches and around golf courses.

DIRECTIONS FOR ANNUAL GRASSES (EXCEPT IN ESTABLISHED ALFALFA AND MINT)

- Apply only to actively growing grasses at specified weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the specified growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.
- Do not apply more than 8 fl oz/A of Arrow 2EC Herbicide per application to the following crops: asparagus, carrot, cranberry, cucurbits, flax, fruiting vegetables, (except tomato), garden beets, green onion, head and stem brassica vegetables, herbs, hops, leaf petioles, leafy brassica greens, leafy greens, non-bearing food crops, root vegetables, safflower, sesame and strawberry. Do not apply more than 6 fl oz per acre of Arrow 2EC Herbicide per application to canola or mustard seed.

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT*	RATE FL OZ/ACRE	HIGH RATE
Barnyardgrass	Echinochloa crus-galli	2 to 8	6	8
Broadleaf Signalgrass	Brachiaria platyphylla	2 to 6	6	8
Brome				
California	Bromus carinatus	2 to 6	6	8
Cheat	Bromus secalinus	2 to 6	6	8
Downy	Bromus tectorum	2 to 6	6	8
Ripgut	Bromus diandrus	2 to 6	6	8
Canarygrass	Phalaris canariensis	1 to 4	6	8
Crabgrass				
Hairy	Digitaria adscendens	2 to 6**	6	8
Large	Digitaria sanguinalis	2 to 6**	6	8
Smooth	Digitaria ischaemum	2 to 6**	6	8
Southern	Digitaria ciliaris	2 to 6**	6	8
Crowfootgrass	Dactyloctenium aegyptium	2 to 6**	6	8
Fall Panicum	Panicum dichotomiflorum	2 to 8	6	8
Field Sandbur	Cenchrus incertus	2 to 6	6	8

Foxtail		<u></u>		1 .
Giant	Setaria faberi	2 to 12	6	8
Green	Setaria viridis	2 to 8	6	8
Yellow	Setaria glauca	2 to 8	6	8
Goosegrass	Eleusine indica	2 to 6**	6	8
Itchgrass	Rottboellia cochinchinensis	2 to 6	6	8
Junglerice	Echinochloa colona	2 to 6	6	8
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2 to 6	6	8
Rabbitsfootgrass	Polypogon monspeliensis	1 to 4	6	8
Red Rice	Oryza sativa	1 to 3	6	8
Ryegrass				
Hardy	Lolium remotum	2 to 6	6	8
Italian	Lolium multiflorum	2 to 6	6	8
Seedling Johnsongrass	Sorghum halepense	4 to 10	6	8
Shattercane	Sorghum bicolor	6 to 18	6	8
Southwestern Cupgrass	Eriochloa gracilis	2 to 6	6	8
Sprangletop				
Amazon	Leptochloa panicoides	2 to 6	6	8
Bearded	Leptochloa fascicularis	2 to 6	6	8
Mexican	Leptochloa uninervia	2 to 6	6	8
Red	Leptochloa filiformis	2 to 6	6	8
Texas Panicum	Panicum texanum	2 to 6	6	8
Volunteer Cereals (2)				
Barley	Hordeum vulgare	2 to 6	6	8
Oats	Avena sativa	2 to 6	6	8
Rye	Secale cereale	2 to 6	6	8
Wheat	Triticum aestivum	2 to 6	6	8
Volunteer Corn (3)	Zea mays	4 to 12	4	6
Volunteer Corn (3)	Zea mays	12 to 24	6	8
Volunteer Corn S.R. (4)	Zea mays	4 to 12	8 suppre	ssion only
Volunteer Grain Sorghum	Sorghum bicolor	8 to 12	6	8
Wild Oats	Avena fatua	2 to 6	6	8
Wild Proso Millet	Panicum miliaceum	2 to 10	6	8
Witchgrass	Panicum capillare	2 to 8	6	8
Woolly Cupgrass	Eriochloa villosa	2 to 8	6	8

^{*}Occurs between 3-leaf stage and tillering

Sethoxydim-resistant volunteer corn.

^{**}Length of lateral growth

Rates higher than 8 fl oz/A can be applied in certain geographic areas, cropping situations, or environmental conditions where experience has shown that higher rates are needed for satisfactory control of annual grasses. In these situations, rates from 8 to 16 fl oz/A can be applied. Do not apply more than 8 fl oz/A of Arrow 2EC Herbicide per application to the following crops: asparagus, carrot, cranberry, cucurbits, flax, fruiting vegetables (except tomato), garden beet, green onion, head and stem brassica vegetables, herbs, hops, leaf petioles, leafy brassica greens, leafy greens, non-bearing food crops, root vegetables, safflower, sesame and strawberry. Do not apply more than 6 fl oz per acre of Arrow 2EC Herbicide to canola or mustard

When a cereal grain crop (such as wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment, the minimum Arrow 2EC Herbicide use rate for control is 8 fl oz/A. Includes Roundup Ready[®], Liberty Link[®], and IMI-CORN[®] VOLUNTEER CORN.



DIRECTIONS FOR ANNUAL & PERENNIAL GRASS CONTROL IN ESTABLISHED ALFALFA AND MINT WITH ARROW 2EC HERBICIDE

GRASS SPECIES	WEED STAGE	RATE FL OZ ACRE	HIGH RATE
Annual & Perennial Grasses Listed in Grass Table	See Table	10	16

Mowing: The best control of annual grasses can be achieved by applying Arrow 2EC Herbicide before grass weeds are mowed. Once a grass is mowed it becomes tougher to control as much of the available leaf surface has been removed. In areas without a killing frost, some annuals can over-winter after having been mowed multiple times. These grasses form large crowns and may contain many viable buds. These grasses, even though they may be an annual grass, may require repeated applications of Arrow 2EC Herbicide for partial or complete control.

Irrigated Alfalfa and Mint: Irrigation practices can be very critical to the successful use of Arrow 2EC Herbicide in established alfalfa and mint and may be necessary to initiate active growth of the weeds prior to application. Applications 2 to 4 days after an irrigation are most effective. Irrigation made shortly after application (2 days) can be effective, but more consistent grass control occurs when the irrigation is made before the application.

Aerial Application: Apply Arrow 2EC Herbicide in a minimum of 10 GPA in established alfalfa and mint when applying by air.

Annual Grass Control: Apply Arrow 2EC Herbicide at the grass sizes indicated in the DIRECTIONS FOR ANNUAL GRASS TABLE and rates indicated. If a grass has been cut, apply Arrow 2EC Herbicide after active growth has resumed and regrowth has reached the minimum height and before it reaches the maximum height indicated. Apply before the alfalfa/mint canopy covers the grasses and interferes with the spray coverage. Some annual grasses are spring- and summer-germinating plants, while others are fall-germinating plants, and the time they are actively growing and most susceptible to Arrow 2EC Herbicide may vary from region to region.

Also some annuals germinate over an extended period of time, and because control of small grasses is desired, applications after each weed flush may be required. As a rule, spray spring- and summer-germinating grasses as early in the season as possible, after initial green-up. Spray fall-germinating weeds in the fall soon after they begin growing but before any damage is done due to frost. Late fall applications can be less effective due to environmental conditions such as frost, slower plant growth, or the onset of flowering.

Perennial Grass Control: Arrow 2EC Herbicide effectively controls perennial grasses such as bermudagrass, johnsongrass, quackgrass, wirestem muhly, tall fescue, foxtail barley, and orchardgrass. Due in part to lack of tillage, perennial grasses are more difficult to control in a perennial crop such as established alfalfa or mint. A program of repeated applications is usually necessary for best results. The best way to control perennial grasses is to do so in the year of stand establishment before rhizomes and stolons become large and difficult to kill. Use the high rate under heavy grass pressure and/or when grasses are at or near maximum height.

Always add a crop oil concentrate at 1 qt/A by ground or 1% v/v (but not less than 1 pt/A) to the finished spray volume by air.

DIRECTIONS FOR ANNUAL BLUEGRASS CONTROL WITH ARROW 2EC HERBICIDE

GRASS SPECIES	WEEDSTAGE	RATE FL OZ ACKE	HIGH RATE
Annual Bluegrass (Poa annua)	to 4-leaf	6*	16
Apply under favorable soil moisture and humidity	which exists within a fe	ew days after rainfall or wit	hin 7 days after
irrigation. Grass needs to be actively growing at	time of application(s).		
Apply at weed stage indicated on the label, a	as reduced control can	be expected with more	mature annual
hluegrass			

Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature.

Always add a crop oil concentrate at 1 qt/A by ground to the finished spray volume.

* Use a minimum of 10 fl oz per acre to control annual bluegrass in seedling and established alfalfa and mint.

DIRECTIONS FOR REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES IN CANOLA, DRY SHELLED BEAN AND PEA (INCLUDING SOYBEAN), EDIBLE PODDED LEGUME VEGETABLES, FLAX, MUSTARD SEED, SUCCULENT BEAN AND PEA AND SUGARBEET (REDUCED RATE SPECIFICIATIONS NOT FOR USE IN CALIFORNIA)

- Apply only to actively growing grasses at specified weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the specified growth stage for treatment.
- Regrowth by tillering can occur if application is made when plants are stressed by lack of moisture, excessive
 moisture, low or high temperatures, and/or under very low humidity.

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GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT (INCHES)	RATE FL OZ/ACRE ⁽¹⁾	
Barnyardgrass	Echinochloa crus-galli	1 to 4	4	
Broadleaf Signalgrass	Brachiaria platyphylla	1 to 4	5	
Crabgrass				
Large	Digitaria sanguinalis	1 to 3*	4	
Large	Digitaria sanguinalis	1 to 4*	5	
Smooth	Digitaria ischaemum	1 to 3*	4	
Smooth	Digitaria ischaemum	1 to 4*	5	
Southern	Digitaria ciliaris	1 to 4*	5	
Fall Panicum	Panicum dichotomiflorum	1 to 4	4	
Foxtail				
Giant	Setaria faberi	1 to 4	4	
Green	Setaria viridis	1 to 4	4	
Millet	Setaria italica	1 to 4	5	
Yellow	Setaria glauca	1 to 4	4	
Seedling Johnsongrass Sorghum halepense		1 to 6	5	
Shattercane	Sorghum bicolor	4 to 10	4	
Texas Panicum	Panicum texanum	1 to 4	5	
Volunteer Cereals				
Barley	Hordeum vulgare	1 to 4	5	
Oats	Avena sativa	1 to 4	5	
Wheat	Triticum aestivum	1 to 4	5	
Volunteer Corn**	Zea mays	4 to 12	4	
Wild Proso Millet	Panicum miliaceum	1 to 6	4	
Wild Oats	Avena fatua	1 to 4	5	

^{*}Length of lateral growth

DIRECTIONS FOR PERENNIAL GRASSES

- Apply only to actively growing grasses at specified weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the specified growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at a maximum height.
- Do not apply more than 8 fl oz/A of Arrow 2EC Herbicide per application to the following crops: asparagus, carrot, cranberry, cucurbits, flax, fruiting vegetables (except tomato), garden beet, green onion, head & stem brassica vegetables, herbs, hops, leaf petioles, leafy brassica greens, leafy greens, nonbearing food crops, root vegetables, safflower, sesame and strawberry. Do not apply more than 6 fl oz per acre of MANA 2EC Herbicide per application to canola, flax, or mustard seed.

GRASS SPECIES	WEED HEIGHT (INCHES)	RATE FL OZ/ACRE	HIGH RATE
Bermudagrass (Cynodon dactylon)			
First Application	3 (or up to 6" runners)	8	16
Repeat Application(s) (if regrowth occurs)	3 (or up to 6" runners)	8	16
Fescue, tall (Festuca arundinacea)			
First Application	4 to 8	8	16
Repeat Application(s) (if regrowth occurs)	4 to 8	8	16
Foxtail Barley (Hordeum jubatum)			
First Application	2 to 6	8	16
Repeat Application(s) (if regrowth occurs)	2 to 6	8	16
Orchardgrass (Dactylis glomerata)			
First Application	4 to 8	8	16
Repeat Application(s) (if regrowth occurs)	4 to 8	8	16
Quackgrass* (Elytrigia repens)			
First Application	4 to 12	8	16

^{**}Not S. R. Corn

⁽¹⁾ Always add a crop oil concentrate at 1 qt/A by ground application to the finished spray volume.

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Repeat Application(s) (if regrowth occurs)	4 to 12	8	16
Rhizome Johnsongrass (Sorghum halepense)			
First Application	12 to 24	8	16
Repeat Application(s) (if regrowth occurs)	6 to 18	6	8
Wirestem Muhly (Muhlenbergia frondosa)			
First Application	4 to 8	8	16
Repeat Application(s) (if regrowth occurs)	4 to 8	8	16
Perennial Bluegrass* ([Roughstalk (Poatrivialis)][Kentucky (Poa prante	nsis)]	
First Application	2 to 4	8	16
Repeat Application(s) (if regrowth occurs)	2 to 4	8	16
Bentgrass* (Agrostis spp.)			
First Application	2 to 4	-	16
Repeat Application(s) (if regrowth occurs)	2 to 4	-	16

^{*}Control of quackgrass and perennial bluegrass and bentgrass with Arrow 2EC Herbicide can be enhanced by adding AMS at 2.5 to 4.0 lbs/A.

DIRECTIONS FOR USE IN ROUNDUP READY FIELD CORN (BURNDOWN)

DIRECTIONS OF THE PROPERTY OF						
GRASS SPECIES	WEED STAGE	RATE FL OZ ACRE				
Field corn (Zea mays)	Up to 12 inches	3				

Rate when applied alone or with glyphosate.

For control of existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn prior to replanting field corn.

Care must be taken to avoid in-field boom (spray) overlaps or excessive crop injury may occur.

Replant no sooner than 6-days after application.

Adjuvants: NIS at 0.25% v/v plus AMS at 2.5 to 4 lbs/A (do not use a COC or MSO with Arrow 2EC Herbicide in this use pattern.

TANK MIXES PRODUCT INFORMATION

The labels for each of the herbicides specified for tank mixing with Arrow 2EC Herbicide are unique to the characteristics of those products and contain restrictions and limitations that can be more restrictive than the Arrow 2EC Herbicide label in certain considerations. Those concerns can include, but are not limited to:

- 1. Geographic restrictions-all products are not registered for use in all areas and rates may vary from one region of labeled use to another;
- 2. Crop rotation restrictions;
- 3. Applicator certification requirements;
- 4. Worker safety rules (e.g. protective clothing, reentry time, posting);
- 5. Soil type or soil characteristics (e.g. pH, OM);
- 6. Maximum dosage or number of applications per season;
- 7. Rain free period required; or
- 8. Application timing (e.g. pre-harvest interval);
- 9. Do not exceed the total season rates.

THE MOST RESTRICTIVE LABELING OF ANY PRODUCT USED IN A TANK MIX MUST BE FOLLOWED.

TANK MIX APPLICATION OF ARROW 2EC HERBICIDE AND BROADLEAF HERBICIDES FOR CONTROL OF GRASSES AND BROADLEAF WEEDS

- Apply only to actively growing grass and broadleaf weeds at specified height or growth stage listed on each label
- Apply when the first grass or broadleaf weed species in a mixed population reaches the specified height or growth stage for treatment.
- Apply under favorable soil moisture and humidity that exist a few days after rainfall or within seven days after irrigation.
- Always add the appropriate adjuvant to the spray mix at the rate specified for each specific tank mix combination.
- Tank mix applications can sometimes result in reduced grass control and possible increases in crop injury as compared to either product used alone. If regrowth occurs, or an additional flush of new grass emerges, make a second application of Arrow 2EC Herbicide, as specified in the respective size and rate tables.
- Do not tank mix Arrow 2EC Herbicide when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage.

MIXING INSTRUCTIONS

- 1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
- 2. While agitating, add the correct amount of Arrow 2EC Herbicide. During agitation create a rippling or rolling action of the water surface.
- 3. If tank mixing, Arrow 2EC Herbicide with other labeled herbicides, add water soluble bags first, followed by dry formulations, flowables, emulsifiable concentrates, and then solutions. Prepare no more spray mixture than is required for the immediate spray operations.
- 4. Add any required adjuvants (crop oil concentrates, non-ionic surfactant and/or nitrogen solution).
- 5. Fill spray tank to desired level with water. Continue agitation until all spray solution has been applied.

Failure to agitate the spray solution can result in improper mixing of the herbicides and unsatisfactory weed control. Verify mixing and compatibility qualities by a jar test.

INFORMATION ON ANTAGONISM

Tank mixes of Arrow 2EC Herbicide with postemergence broadleaf herbicides have shown some reduction or failure to control certain grass species, which would have otherwise been controlled when Arrow 2EC Herbicide is applied alone. Activity of the postemergence broadleaf herbicide in the tank mix is not affected.

ALFALFA TABLE 1. ARROW 2EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES FOR ALFALFA

(Refer to the specific tables above for specific grasses and growth stages.)

PRODUCT (2)	APPLICATION	RATES/ ACRE (1)	CROP OIL CONCE	NTRATE (3) (V/V)
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR
Arrow 2EC + 2,4-DB (4)	10 to 16 fl oz + Refer to 2,4-DB label	10 to 16 fl oz + Refer to 2,4-DB label	1%	1%
Arrow 2EC + Pursuit DG ⁽⁵⁾ or Pursuit ⁽⁵⁾	10 to 16 fl oz + 1.08 to 2.16 oz or 3 to 6 fl oz		1%	1%
Arrow 2EC + Buctril® 2L ⁽⁶⁾⁽⁷⁾ Or Buctril Gel ⁽⁶⁾⁽⁷⁾	10 to 16 fl oz + 1.0 to 1.5 pts or 0.5 to 0.75 pts		0.5%	0.5%
Arrow 2EC + Raptor	10 to 16 fl oz + 4 to 6 fl oz		1%	1%

(1) If grass regrowth occurs or an additional flush of new grass emerges, make a second application of Arrow 2EC Herbicide alone (without a tank mix herbicide), according to the appropriate size and rate specifications.

(2) Broadleaf weed control can be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Do not tank mix in these situations.

(3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt/A) in the finished spray volume.

(4) Arrow 2EC Herbicide plus 2,4-DB can increase the severity of crop injury when tank mixed. Alfalfa plants will outgrow this temporary crop injury within a few weeks.

(5) Before using this tank mix, read and understand the Pursuit or Pursuit DG labels for geographical restrictions and restrictions regarding alfalfa growth stage and type. Failure to do so can result in crop injury to alfalfa. Do not feed, graze, or harvest alfalfa for 30 days following an application of Pursuit to alfalfa.

(6) In the states of Washington, Oregon, Idaho, Montana, Wyoming, Colorado, Utah, Nevada and the western halves of North Dakota, South Dakota, Nebraska, and Kansas: The Arrow 2EC Herbicide plus Buctril tank mix must be applied in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 2 trifoliates. Unacceptable crop injury can occur to alfalfa seedlings less than the 2 trifoliate leaf stage. Arrow 2EC Herbicide plus Buctril applications made when temperatures are expected to exceed 80° F at (and 3 days following) application can result in unacceptable crop injury. In the states not listed above, apply in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 4 trifoliate leaves. When alfalfa stand is uneven and conditions favor leaf burn, unacceptable crop injury can occur to alfalfa in the 2 trifoliate or smaller stage of growth. Arrow 2EC Herbicide plus Buctril applications made when temperatures are expected to exceed 70°F at (and 3 days following) application can result in unacceptable crop injury. Crop leaf burn can occur following Arrow 2EC Herbicide plus Buctril application. Warm, humid conditions can enhance leaf burn. New crop growth will not be affected.

⁽⁷⁾Do not apply when alfalfa is under moisture, temperature, insect or disease stress or has been stressed by other pesticide carryover or application.

USE DIRECTIONS FOR BUSHBERRY, CANEBERRY AND PEACH

Apply Arrow 2EC Herbicide postemergence to actively growing grasses according to rate table. Crop injury to bushberry, caneberry and peach can occur if Arrow 2EC Herbicide is improperly applied. Arrow 2EC Herbicide must not be applied directly over the top of these plant types. Instead, direct spray at the base of the plant where grassy weeds are growing near the ground.

Do not apply Arrow 2EC Herbicide to bushberry, caneberry or peach grown for root stock.

CANOLA

TABLE 2. REDUCED RATE ARROW 2EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES FOR

CANOLA (Refer to the specific tables above for specific grasses and growth stages).

PRODUCT	APPLICATION RATES/ ACRE		CROP OIL CONC. ⁽⁴⁾ V/V	AMMONIUM SU	JLFATE
	ANNUAL GRASSES (1)	PERENNIAL GRASSES	GROUND	GROUND	AIR
Arrow 2EC (2) + Liberty (3)	4 to 5 fl oz + 34 fl oz			3.0 lbs	3.0 lbs
Arrow 2EC (2) + Stinger	4 to 5 fl oz + 0.33 pts		1%		

⁽¹⁾ Annual grasses and sizes controlled with these tank mixtures are those that are identified in the **DIRECTIONS** FOR REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES.

(3) For use only on LibertLink® canola.

COTTON
TABLE 3. ARROW 2EC HERBICIDE TANK MIXED WITH COBRA® HERBICIDE AND MSMA APPLIED POST DIRECTED TO COTTON

APPLICATION	CROP OIL CONC. ⁽³⁾ V/V	COMMENTS	
ANNUAL GRASSES	PERENNIAL GRASSES	GROUND]
6 to 8 fl oz	8 to 16 fl oz	1%	Reduce
			broadcast rate in
		proportion to	
height and species contro		the band area	
limitations for cotton. Re	treated.		
	ANNUAL GRASSES 6 to 8 fl oz See Cobra label for rates limitations for cotton. Re height and species control See MSMA label for rate limitations for cotton. Re	6 to 8 fl oz See Cobra label for rates to control broadleaf weeds limitations for cotton. Refer to the Arrow 2EC Herbici height and species controlled. See MSMA label for rates to control broadleaf weeds	CONC. (3) V/V ANNUAL GRASSES PERENNIAL GRASSES GROUND 6 to 8 fl oz 8 to 16 fl oz 1% See Cobra label for rates to control broadleaf weeds and height limitations for cotton. Refer to the Arrow 2EC Herbicide label for weed height and species controlled. See MSMA label for rates to control broadleaf weeds and height limitations for cotton. Refer to the Arrow 2EC Herbicide label for weed

¹⁾ If grass regrowth occurs or an additional flush of new grass emerges, make a second application of Arrow 2EC Herbicide alone (without a tank mix herbicide), according to the appropriate size and rate specifications.

(3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt/A) in the finished spray volume.

⁽²⁾ Do not apply Arrow 2EC Herbicide tank mix during or after bolting or flowering or crop injury can occur.

⁽⁴⁾ Always use a crop oil concentrate at the listed rate (but not less than 1 pt/A) in the finished spray volume.

Broadleaf weed control can be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Do not tank mix in these situations.

⁽⁴⁾ If, at the time of application, grass height is so tall that post-directed applications cannot get good coverage over the top of the grassy weeds, then poor control can result and a second (non-post directed) application of Arrow 2EC Herbicide may be necessary.

TABLE 4. ARROW 2EC HERBICIDE TANK MIXED WITH BUCTRIL® 4EC HERBICIDE TO CONTROL EMERGED WEEDS IN BXN COTTON AS A BROADCAST APPLICATION

PRODUCT (2)	APPLICATION RATES/ACRE (1)	CROP OIL CONC.	COMMENTS
	ANNUAL GRASSES	PER ACRE (3)	(7)
Arrow 2EC +	8 to 16 fl oz	1 qt/A	See charts for
Buctril 4 EC (4,5,6)	See Buctril 4 EC label for rates to	7	grasses
	control broadleaf weeds and height	·	controlled.
	limitations for cotton.		

- (1) If grass regrowth occurs or an additional flush of new grass emerges, make a second application of Arrow 2EC Herbicide at the specified rate with the appropriate amount of crop oil concentrate in a non-Buctril tank mix
- (2) Broadleaf weed control can be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage.
- (3) Always add a crop oil concentrate at 1 gt/A by ground in the finished spray solution.
- ⁽⁴⁾ Applications of Buctril 4 EC can be made only to cotton that has been genetically modified for crop tolerance to postemergence over-the-top applications of bromoxynil.
- (5) Do not apply the Arrow 2EC Herbicide plus Buctril tank mix within 75 days of harvest.
- (6) Do not exceed two applications of Buctril before cotton is 12-inches tall and one application after 12-inches tall.
- (7) Use a minimum of 10 gals of spray solution per acre.

TABLE 5. ARROW 2EC HERBICIDE TANK MIXED WITH GLYPHOSATE TO CONTROL EMERGED GRASSES IN COTTON AS A BROADCAST APPLICATION.

PRODUCT	APPLICATION R	APPLICATION RATE/ACRE (1)		VANT	COMMENTS
	ANNUAL GRASSES	PERENNIAL GRASSES	Glyphosate formulation with built in adjuvant	Glyphosate formulation without built in adjuvant	
Arrow 2EC + Glyphosate	6 to 8 fl oz See glyphosate label for rates to control broadleaf weeds and height limitations for cotton	8 to 16 fl oz See glyphosate label for rates to control broadleaf weeds and height limitations for cotton	Non-ionic surfactant @ 0.125 to 0.25% v/v plus ammonium sulfate @ 8.5 to 17 lbs per 100 gals of carrier	Crop oil concentrate @ 1 pt /A plus ammonium sulfate @ 8.5 to 17 lbs per 100 gals of carrier	See charts for grasses controlled. Use a minimum of 10 gals of spray solution per acre.

⁽¹⁾ If grass regrowth occurs or an additional flush of new grass emerges, make a second application of Arrow 2EC Herbicide at the specified rate with the appropriate amount of crop oil concentrate.

DRY SHELLED AND SUCCULENT BEANS

TABLE 6. ARROW 2EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES FOR DRY SHELLED AND SUCCULENT BEANS (Refer to the specific tables above for specific grasses and growth stages).

PRODUCT (2)	APPLICATION RATES PER/ACRE (1)		CROP OIL CO	ONCENTRATE (3) (V/V)
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR
Arrow 2EC +	8 to 10 fl oz +	10 to 16 fl oz+	1%	1%
Basagran [®]	1.0 to 2.0 pts	1 to 2 pts		
Arrow 2EC +	8 to 10 fl oz +		1%	1%
Raptor	4 fl oz			

⁽¹⁾ If grass regrowth occurs or an additional flush of new grass emerges, make a second application of Arrow 2EC Herbicide alone (without a tank mix herbicide), according to the appropriate size and rate specifications.

⁽²⁾ Broadleaf weed control can be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Do not tank mix in these situations.

⁽³⁾ Always use a crop oil concentrate at the listed rate (but not less than 1 pt/A) in the finished spray volume.

FLAX

TABLE 7. REDUCED RATE ARROW 2EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES FOR FLAX. (Refer to the specific tables above for specific grasses and growth stages).

PRODUCT	APPLICATION	RATES PER/ACRE	CROP OII	CONCENTRATE
	ANNUAL GRASSES (1)	PERENNIAL GRASSES	GROUND	AIR
Arrow 2EC + Bronate Advanced™ ^(2,3)	4 to 5 fl oz + 11. 4 fl oz		1 pt	1 pt
Arrow 2EC + Bronate ® (2,3)	4 to 5 fl oz + 0.9 pt		1 pt	1 pt
Arrow 2EC + Buctril (2,3)	4 to 5 fl oz + 1.0 pt		1 pt	1 pt
Arrow 2EC + Rhonox ^{® (2,3)}	4 to 5 fl oz + 0.25 to 0.5 pt		1 pt	1pt
Arrow + MCPA ^(2,3)	4 to 5 fl oz + 0.25 to 0.5 pt		1 pt	1 pt
Arrow + Curtail M ^(2,3)	4 to 5 fl oz + 0.85 pt		1 pt	1 pt

(1) Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES.

(2) Do not apply Arrow 2EC Herbicide tank mix during or after the bud stage or to ornamental flax or crop injury can occur.

(3) Do not apply tank mixes if temperatures are expected to exceed 85°F at (or 3 days following) application or crop injury can occur.

SOYBEANS

TABLE 8. ARROW 2EC HERBICIDE TANK MIXES (3) TO CONTROL ANNUAL GRASSES WHEN USED AS A BURNDOWN IN NO-TILL SOYBEANS

PRODUCT	PRODUCT ACRE RATE (1)	GRASS HEIGHT	CROP OIL CONC. (2)	28%N OR 32%N QTS/A OR 2.5 TO 4.0 LBS AMS
Arrow 2EC + 2,4-D Ester* (3)	3 floz	Foxtail 1 to 3" Fall Panicum 1 to 3"	1 qt/A	1 to 2 qts/A or 2.5 to 4.0 lbs AMS
	4 fl oz	Foxtail 1 to 4" Fall Panicum 1 to 4"	1 qt/A	1 to 2 qts/A or 2.5 to 4.0 lbs AMS
	6 to 8 fl oz + 0.5 lb ai	(See Grass Chart for grasses claimed)	1 qt/A	1 to 2 qts/A or 2.5 to 4.0 lbs AMS

*Do not use 2,4-D Ester where drift-sensitive crops can be grown.

(1) If regrowth occurs or an additional flush of new grass emerges, make a second application of Arrow 2EC Herbicide according to the appropriate size and rate specifications.

(2) Always use a crop oil concentrate at the listed rate in the finished spray volume.

The following products can be tank mixed with Arrow 2EC Herbicide plus 2,4-D Ester: Valor[®], Authority[®] Broadleaf, Canopy XL[®], Dual 8 E[®], Dual II[®], Dual Magnum[®], Prowl[®], Sencor[®], and Sencor plus the Dual products and Turbo[®].

TABLE 9. Arrow 2EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES FOR SOYBEANS

(Refer to the specific tables above for specific grasses and growth stages)

	APPLICATION RATES/ACRE (1)							
PRODUCT (2)	ANNUAL GRASSES	PERENNIAL GRASSES	CROP OIL CONC. (3) (V/V)					
			GROUND	AIR				
Arrow 2EC +	6 to 8 fl oz +	8 to 16 fl oz +	1 qt/A	1%				
Cobra [®] Herbicide	6 to 12.5 fl oz	6 to 12.5 fl oz						
Arrow 2EC +	6 to 8 fl oz +	8 to 16 fl oz +	1 qt/A	1%				
Basagran® 4 SL	1 to 2 pts	1 to 2 pts						
Arrow 2EC +	6 to 8 fl oz+	8 to 16 fl oz+	1 qt/A ⁽⁴⁾	1% ⁽⁴⁾				
Glyphosate (For use on	0.75 to 1.5 lb ae	0.75 to 1.5 lb ae						
Roundup Ready								

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soybean only)				<u> </u>
Arrow 2EC +	6 to 8 fl oz +	8 to 16 fl oz +	1 qt/A	1%
Ultra Blazer®	0.5 to 1.5 pts	0.5 to 1.5 pts	•	
Arrow 2EC +	6 to 8 fl oz +	8 to 16 fl oz +	1 qt/A	1%
Flexstar® HL Herbicide	Refer to the Flexstar HL	Refer to the Flexstar HL		
(5)	Herbicide label for	Herbicide label for specific		ļ
	specific application rates	application rates		
Arrow 2EC +	6-8 fl oz +	8 to 16 fl oz +	1 qt/A	1%
Classic [®] 25 DG	0.5 to 0.75 oz	0.5 to 0.75 oz	,	
Arrow 2EC ⁽⁴⁾ +	6 to 8 fl oz +	8 to 16 fl oz +	1 qt/A	1%
Pursuit ® 70 DG ⁽⁵⁾	1.44 fl oz	1.44 fl oz	1 9071	'/
Arrow 2EC	6-8 fl oz	8 to 16 fl oz	1 qt/A	1%
+	+	+	. 40.	
Cobra Herbicide	6 to 12.5 fl oz	6 to 12.5 fl oz		
+	+	+		
Classic 25 DG ⁽⁵⁾	0.38 to 0.5 oz	0.38 to 0.5 oz		}
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+	+	+	1 907	170
Cobra Herbicide	6 to 10 fl oz	6 to 10 fl oz		
+	+	+		
Basagran 4 SL	1 to 2 pts	1 to 2 pts		
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+	+	+	1 9071	1 /
Cobra Herbicide	6 to 10 fl oz	6 to 10 fl oz		
+	+	+		
Pursuit 70 DG ⁽⁵⁾	1.44 fl oz	1.44 fl oz		
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+	+	+	1 4071	''
Cobra Herbicide	6 fl oz	6 fl oz		
+	+	+		
Resource Herbicide ⁽⁵⁾	4 fl oz	4 fl oz		
Arrow 2EC (5)	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
*	+	+	, 407	1 /0
FirstRate ^{®(5)}	0.3 oz	0.3 oz		
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%-
+	+	+	7 9071	1,70
Cobra Herbicide	6 to 8 fl oz	6 to 8 fl oz		
+	+	+		
FirstRate ⁽⁵⁾	0.3 oz	0.3 oz		
Arrow 2EC (5)	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%-
+	+	+	, 40, ,	','
Raptor [®] (1 AS) ⁽⁵⁾	4 to 5 fl oz	4 to 5 fl oz		
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 -4/5	-1%
			1 qt/A	-1%
t Cabra Harbiaida	+ 6 to 8 fl oz	+ 6 to 8 fl oz		
Cobra Herbicide	0 10 8 11 02			
Fontor (1 AS) (5)	4 to 5 fl oz	+ 4 to 5 fl o-		
Raptor (1 AS) (5)		4 to 5 fl oz	4 = 4/4	407
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%-
+ Synchrony [®] STS™ ⁽⁵⁾ or	+ 0.25.07/A.o.	+		
Synchrony SIS "Cor	0.25 oz/A or	0.25 oz/A or		
Synchrony XP ⁽⁵⁾	0.375 oz	0.375 oz	4 -4/4	40/
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+ ® 0.70 Tu(5)	+	+		
Synchrony [®] STS™ ⁽⁵⁾ or	0.5 oz/A or	0.5 oz/A or		
Synchrony XP ⁽⁵⁾	0.75 oz	0.75 oz		
(STS SOYBEANS				
ONLY				

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Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+ Cobra Herbicide	+ 4 to 8 fl oz	+ 4 to 8 fl oz		
+	+	+ 10 8 11 02		
Synchrony STS ⁽⁵⁾	0.5 oz	0.5 oz		
Arrow 2EC (5)	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+	+	+	•	
Resource Herbicide ⁽⁵⁾	4 to 12 fl oz	4 to 12 fl oz		
Arrow 2EC 6 to 8 fl oz		8 to 16 fl oz	1 qt/A	1%
+ Frontrow™	Refer to Frontrow label	+ Refer to Frontrow label for		
TIOIILIOW	for use rates	use rates		
Arrow 2EC	6 to 8 fl oz +	8 to 16 fl oz +	1 qt/A	1%
+	0.3 oz +	0.3 oz	. 4 ,	
Firstrate (5)	Refer to the Flexstar HL	+		
+ (5)	label for specific	Refer to the Flexstar HL		
Flexstar HL (5)	application rates.	label for specific application		
Arrow 2EC	6 to 8 fl oz	rates	1 + / A	40/
+	6 to 6 ii 0z	8 to 16 fl oz	1 qt/A	1%
Phoenix	6 to 12.5 fl oz	6 to 12.5 fl oz		
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+	+	+	•	
Phoenix	6 to 12.5 fl oz	6 to 12.5 fl oz		
+ (5)	+	+		
FirstRate ⁽⁵⁾ Arrow 2EC	0.3 oz 6 to 8 fl oz	0.3 oz 8 to 16 fl oz	4	1%
+	+	+	1 qt/A	1%
Phoenix	6 to 12.5 fl oz	6 to 12.5 fl oz		
+	+	+		
Pursuit 70 DG (5)	1.44 fl oz	1.44 fl oz		
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%-
+ Dhamain	+	+		
Phoenix +	6 to 12.5 fl oz	6 to 12.5 fl oz		
Raptor (1 AS) ⁽⁵⁾	4 to 5 fl oz	4 to 5 fl oz		
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+	+	+	. 4	. , ,
Cobra Herbicide	6 to 8 fl oz	6 to 8 fl oz		
+	+	+		
Harmony GT XP (5)	0.042 oz	0.042 oz	4 1/0	40/
Arrow 2EC	6 to 8 fl oz +	8 to 16 fl oz +	1 qt/A	1%
Phoenix	6 to 12.5 fl oz	6 to 12.5 fl oz		
+	+	+		II.
Resource Herbicide ⁽⁵⁾	4 to 6 fl oz	4 to 6 fl oz		
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+	+	+		
Pursuit 50 DG (5)	1.44 oz	1.44 oz		
+ Resource Herbicide ⁽⁵⁾	+ 4 fl oz	+ 4 fl oz		
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+	+	+	1 40/3	1 /0
Cobra	6 to 12.5 fl oz	6 to 12.5 fl oz		
+	+	+		
Resource Herbicide ⁽⁵⁾	4 to 6 fl oz	4 to 6 fl oz		ľ
+ (6)	+	+		
Firstrate ⁽⁶⁾	0.3 oz	0.3 oz		

Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+	+	+	,	l
Phoenix	6 to 12.5 fl oz	6 to 12.5 fl oz		
+	+	+		
Resource Herbicide ⁽⁵⁾	4 to 6 fl oz	4 to 6 fl oz		
+	+	+		
Firstrate ⁽⁶⁾	0.3 oz	0.3 oz		
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+	+	+		
Cobra	6 to 12 fl oz	6 to 12 fl oz		
+	+	+		
Synchrony [®] STS ^{™ (5)}	0.25 oz/A	0.25 oz/A	Ì	
or (5)	or	or		
Synchrony XP ⁽⁵⁾	0.375 oz	0.375 oz		
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+ (+	+		
Cobra	6 to 12 fl oz	6 to 12 fl oz		
+	+	+		
Synchrony® STS™ (5)	0.5 oz/A	0.5 oz/A		
or	or	or		
Synchrony XP ⁽⁶⁾	0.75 oz	0.75 oz	-	
(STS SOYBEANS				
ONLY)				
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+	+	+		
Phoenix	6 to 12 fl oz	6 to 12 fl oz		
+	+	+		
Synchrony [®] STS™ ⁽⁵⁾	0.25 oz/A	0.25 oz/A		
or	or	or		
Synchrony XP ⁽⁵⁾	0.375 oz	0.375 oz		
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz	1 qt/A	1%
+	+	+		
Phoenix	6 to 12 fl oz	6 to 12 fl oz		
+	+	+		
Synchrony [®] STS™ ⁽⁵⁾	0.5 oz/A	0.5 oz/A		
or (C)	or	or		
Synchrony XP ⁽⁵⁾	0.75 oz	0.75 oz		
(STS SOYBEANS				
ONLY)				

If grass regrowth occurs or an additional flush of new grass emerges, make a second application of Arrow 2EC Herbicide alone (without a tank mix herbicide) according to the appropriate size and rate specificiations.

Broadleaf weed control can be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Do not tank mix in these situations.

(4) The addition of 2.5 lb of ammonium sulfate is required when product is tank mixed with glyphosate. If the glyphosate formulation has a stand alone built in adjuvant, add 0.125% V/V non-ionic surfactant in place of crop oil concentrate. If the glyphosate formulation does not have a built adjuvant system, add 0.5 to 1.0 % crop oil concentrate for ground application and 1.0% V/V for aerial application.

(5) Refer to label for geographic and rotational restrictions.

Always use a crop oil concentrate at the listed rate (but not less than 1 pt/A) in the finished spray volume. Add 1 to 2 qts per acre of liquid fertilizer (10-34-0, 28%N, or 32%N) when Arrow 2EC Herbicide is tank mixed with Pursuit, Resource, Storm, Firstrate, Synchrony, Raptor, Frontrow, Cobra plus Classic, Cobra plus Basagran, Cobra plus Pursuit, Cobra plus Firstrate, Cobra plus Synchrony, and Cobra plus Raptor. An equivalent amount (2.5 to 4.0 lbs/acre) of spray grade ammonium sulfate (AMS) can be added in place of liquid fertilizer. Fertilizer adjuvants are to be added in addition to the crop oil concentrate.

TABLE 10. REDUCED RATE ARROW 2EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES FOR SOYBEAN (Refer to table for reduced rate use in canola, dry shelled bean & pea, edible podded legume vegetables, flax, mustard seed, soybean, succulent bean & pea and sugarbeet specifications for small annual grasses for specific grasses and growth stages)

APPLICATION RATES/ACRE (1) CROP OIL CONCENTRATE (3,4) (V/V) **PRODUCT** ANNUAL GRASSES PERENNIAL GROUND AIR **GRASSES** Arrow 2EC + 4 to 8 fl oz + 1 at/A 1% Firstrate 0.3 oz Arrow 2EC + 4 to 6 fl oz + 1 at/A 1% Pursuit 70 DG 1.44 oz

(1) If grass regrowth occurs or an additional flush of new grass emerges, make a second application of Arrow 2EC Herbicide alone (without a tank mix herbicide), according to the appropriate size and rate specifications.

(2) Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES.

(3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt per acre) in the finished spray volume.

⁽⁴⁾ The addition of 1 to 2 qts per acre of liquid fertilizer (10-34-0, 28% N, or 32%N) is required when Arrow 2EC Herbicide is tank mixed at reduced rates. An equivalent amount (2.5 to 4.0 lbs/A) of spray grade ammonium sulfate (AMS) can be added in place of liquid fertilizer. Fertilizer adjuvants are to be added in addition to the crop oil concentrate.

PEANUT (INCLUDING PERENNIAL)

TABLE 11. ARROW 2EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES FOR PEANUT

(Refer to the specific tables above for specific grasses and growth stages.)

PRODUCT (2)	APPLICATION	ON RATES/ACRE(1)	CROP OIL CONCENTRATE (3) (V/V)		
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR	
Arrow 2EC + Basagran	8 to 10 fl oz + 1.5 to 2.0 pts		1 qt/A	1%	
Arrow 2EC + Ultra Blazer	8 to 10 fl oz + 1 to 1.5 pts		1 qt/A	1%	
Arrow 2EC + Storm	8 to 10 fl oz + 1.5 pts		1 qt/A	1%	

(1) If grass regrowth occurs or an additional flush of new grass emerges, make a second application of Arrow 2EC Herbicide alone (without a tank mix herbicide), according to the appropriate size and rate specifications.

⁽²⁾ Broadleaf weed control can be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Do not tank mix in these situations.

(3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt/A) in the finished spray volume.

GRASS SPECIES	WEED STAGE	RATE FL OZ / ACRE	HIGH RATE
Annual and perennial grasses that exceed height claimed for control on height charts "DIRECTIONS FOR ANNUAL GRASSES" and "DIRECTIONS FOR PERENNIAL GRASSES"	Up to and including grasses in the seed head stage.	16	32

SUGARBEETS

TABLE 12. ARROW 2EC HERBICIDE TANK MIXED WITH STINGER® HERBICIDE APPLIED TO

	SOGNIDEE 19 (Veletifi	o the specific tables above for specific	
:[APPLICATION RATES/AC	CROP OIL CONC. (3)
٠	PRODUCT ⁽²⁾	ANNUAL GRASSES PERE	NNIAL GRASSES GROUND AIR
- [Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz 1% v/v.
	± Balandala salam vila	See Stinger Herbicide label for rates.	
i þ	Stinger Herbicide	Was the transfer of the state of the state of	

If grass regrowth occurs or an additional flush of new grass emerges, make a second application of Arrow 2EC Herbicide alone (without a tank mix herbicide) according to the appropriate size and rate specifications.

Broadleaf weed control can be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Do not tank mix in these situations.

Always use a crop oil concentrate at the listed rate (but not less than 1 pt/A) in the finished spray volume.

TABLE 13. ARROW 2EC HERBICIDE TANK MIXED WITH BETAMIX® OR BETANEX® APPLIED TO

MODOWINDER LOW WAR THE	and the first of the state of the first of the state of	MARKET ME DATA A PROPERTY OF	
PRODUCT ⁽²⁾	WEEDS CO	ONTROLLED	WEED HEIGHT APPLICATION
	Common Name	Scientific Name	RATE/ACRE ⁽¹⁾
Arrow 2EC ⁽³⁾	Barnyardgrass	Echinochloa crùs-galli	1 to 3" 8 fl oz
	Foxtail	Setaria spp.	[N A 1 to 3" 10
Betamix	Foxtail Millet	Setaria italica	1 to 3"
Detailix	Wild Oat	Avena fatua	1 to 3" \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
or	Wild Proso Millet	Panicum miliaceum	1 to 3"
Betanex			See Betamix label for rates to control
			broadleaf weeds. Do not put
(Corine William)			additives in the tank mix.
Progress			See Betanex label for rates to control
			broadleaf weeds. Do not put
The constant of the constant o			additives in the tank mix.
			See Progress label for rates to control
And the second of the second			broadleaf weeds. Do not put
			additives in the tank mix.

Do not use crop oil concentrate. Do not put additives in the tank mix if Betamix, Betanex, or Progress is in the tank

(2) Broadleaf weed control can be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Do not tank mix in these situations.

3 If grass regrowth occurs or an additional flush of new grass emerges, make a second application of Arrow 2EC Herbicide at full label rate with appropriate rate of crop oil concentrate.

TABLE 14. ARROW 2EC HERBICIDE PLUS BETANEX OR BETAMIX TANK MIX FOR THREE SEQUENTIAL APPLICATIONS FOR ANNUAL GRASS CONTROL (MICRO-RATE APPLICATION).

PRODUCT	APPLICATION RATE	S/ACRE (1)	METHYLATED SEED OIL (2)(V/V)
	ANNUAL GRASSES	GRASSES CONTROLLED (inches)	GROUND
Arrow 2EC + Betanex	2 to 3 fl oz + 8 to 12 fl oz ⁽³⁾	Green Foxtail (1-2) Yellow Foxtail (1-2)	1:5%
or Betamix	or 8 to 12 fl oz ⁽³⁾	Barnyardgrass (1-2) Wild Oat (1-2)	
or Progress	or Refer to label	Volunteer Cereals (1-2)	
or Stinger	or Refer to label		3
or Upbeet	or Refer to label		

Description of the spray pattern and prevent them from receiving complete coverage. Do not tank mix in these situations.

²⁾ Always use a methylated seed oil at the listed rate (but not less than 1 pt/A) in the finished spray volume

(3) Use 8 fl oz/A rate when sugarbeets are in the cotyledon to 4 leaf stage. Rate can be increased up to 12 fl oz/A when the smallest sugarbeet plants in the field are in the 4 true leaf stage.

Directions for Use for Micro-Rate Applications to Sugarbeet Product Information

Multiple micro-rate applications of Arrow 2EC Herbicide in tank mixtures with reduced rates of Betanex or Betamix and methylated seed oils can be applied by air or ground equipment to sugarbeet to control early germinating annual grasses listed above. The rate of Betanex or Betamix must not exceed 0.12 lb ai/A (broadcast application) when in combination with these spray adjuvants. Note that maximum rate allowed varies depending on crop growth stage. The use of wetting agents or spray adjuvants with conventional rates (0.73 to 1.22 lb ai/A) or multiple low rate (0.24 to 0.73 lb ai /A) applications of Betanex or Betamix is prohibited on the Betanex and Betamix master label. Favorable climatic conditions (good conditions for plant growth and development) are essential for adequate weed control. All use precautions and restrictions on the Betanex and Betamix master labels must be followed.

Directions for Using Micro-Rate Multiple Applications of Arrow 2EC HerbicideTank Mixes

Apply Arrow 2EC Herbicide in broadcast applications only at a rate of 2 to 3 fl oz/A in tank mixture with either Betanex or Betamix following the directions for use on the tank mix partner label. Use a minimum of three sequential applications of 2 fl oz/A or a minimum of 2 sequential applications of 3 fl oz/A for Arrow 2EC Herbicide tank mixtures. Use a minimum of 3 sequential applications of Betamix or Betanex. Accurate timing is essential; make initial application immediately after weeds emerge, and make repeat applications on 5 to 7 days intervals. If weed control is not adequate due to climatic conditions, spray coverage or other factors, return to conventional application rates of Arrow 2EC Herbicide (6 to 8 fl oz/A) and add rates of Betanex or Betamix as directed on their label. When using conventional rates of Betanex or Betamix in tank mixtures with Arrow 2EC Herbicide, do not use a spray adjuvant.

Use Precautions for Micro-Rate Applications: (See Arrow 2EC Herbicide, Betanex, and Betamix master label for further use precautions.)

Not all weeds will be adequately controlled, even with favorable climatic conditions. Conventional rates of Arrow 2EC Herbicide, Betanex, or Betamix and/or hand labor may be required if multiple micro-rate applications do not adequately control weeds. Plugging of spray nozzles can be encountered due to the potential for formation of a precipitate in the spray solution that is often associated with micro-rate applications. Maktheshim Agan of North America, Inc. will not be responsible for any nozzle plugging that can occur with the use of multiple micro-rate applications. Methylated seed oils must not be added if the Betanex or Betamix rate exceeds 0.12 lb ai/A broadcast, as the addition of methylated seed oils could increase the possibility of crop injury at dosage rates greater than 0.12 lb ai/A.

GROUND APPLICATION

Use of sufficient spray volumes and pressure is essential to ensure complete coverage. Use a minimum of 10 gals and a maximum of 20 gals of spray solution per acre. Set spray pressures at a minimum of 30 psi and a maximum of 60 psi at the nozzle. Do not use flood nozzles.

AERIAL APPLICATION

Use of sufficient spray volumes is essential to ensure complete coverage. Use a minimum of 5 gals and a maximum of 15 gals of spray solution per acre.

TABLE 15. TANK MIX APPLICATION OF ARROW 2EC HERBICIDE AND FUNGICIDES FOR CONTROL OF GRASS WEEDS AND DISEASES IN SUGARBEET.

PRODUCT (2)	APPLICATION RATES	CROP OIL	
	Annual Grasses Perennial Gr		CONCENTRATE (3) (V/V)
Arrow 2EC +	6 to 8 fl oz +	8 to 16 fl oz +	1%
Eminent®	13 fl oz	13 fl oz	
Arrow 2EC +	6 to 8 fl oz +	8 to 16 fl oz +	1%
Headline	Refer to label	Refer to label	
Arrow 2EC +	6 to 8 fl oz +	8 to 16 fl oz +	1%
Gem	Refer to label	Refer to label	

(1) If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of Arrow 2EC Herbicide alone (without a tank mix fungicide) according to the appropriate size and rate specifications.

(2) Refer to Arrow 2EC Herbicide and fungicide label for rates and weeds and diseases controlled.

(3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt/A) in the finished spray volume.

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ALFALFA, COTTON, MINT, PEANUT (INCLUDING PERENNIAL), SOYBEANS, AND SUNFLOWER TABLE 16. TANK MIX APPLICATION OF ARROW 2EC HERBICIDE AND INSECTICIDES FOR CONTROL OF GRASS WEEDS AND INSECTS IN ALFALFA, COTTON, MINT, PEANUT (INCLUDING PERENNIAL), SOYBEANS, AND SUNFLOWER

APPLICATION CROP		CROP	CROP						
PRODUCT ⁽²⁾		/ACRE ⁽¹⁾	OIL						
	ANNUAL GRASSES	PERENNIAL GRASSES	CONC.	Alfalfa	Cotton	Mint (4,5)	Peanut	Soybean	Sunflower
Arrow 2EC	6 to 8 fl oz +	8 to 16 fl oz +	1%		Х	X	Х	Х	
+ Orthene [®] 75 S	0.33 to								
Or	1.33 lbs	0.33 to 1.33 lbs							
	or	or	ļ						
Orthene 97	0.25 to 1.0 lb	0.25 to 1.0 lb.							
Arrow 2EC	6 to 8 fl oz +	8 to 16 fl oz	1%		Х	Х	Х	х	
Orthene 90 S	0.25 to 1.0 lb	0.25 to 1.0 lb					,		
Arrow 2EC	6 to 8 fl oz +	8 to 16 fl oz	1%		Х		Х		
Danitol® 2.4 EC	10 % to 16 fl oz	10 ⅔ to 16 fl oz							
Arrow 2EC	6 to	8 to 16 fl oz	1%		+			X	Х
+	8 fl oz +	+	1 70					^	^
Asana XL®	Refer to	Refer to						1	
Asalla ALW	Asana XL label	Asana XL label	1				ı		
Arrow 2EC	6 to 8 fl oz	8 to 16 fl oz + Refer to	1%					X	Х
+ Warrior®	Refer to Warrior label	Warrior label		:					
Arrow 2EC	10 to	10 to	1%	Х				****	
+	16 fl	16 fl oz	- 70	, ,					
Warrior	oz ⁽⁷⁾	+							
	+	Refer to	,					İ	
	Refer to	Warrior							
	Warrior label	label							
Arrow 2EC	10 to	10 to	1%	Х				X	
+	16 fl oz ⁽⁷⁾ +	16 fl oz +							
Baythroid®	Refer to	Refer to							
•	Baythroid	Baythroid						1	
	labei	label							
Arrow 2EC	10 to	10 to	1%	X				Х	
+	16 fl oz ⁽⁷⁾ +	16. fl oz +							
Dimethoate®	Refer to	Refer to							
	Dimetho-	Dimethoate							
	ate label	label						<u> </u>	
Arrow 2EC	10 to	10 to	1 to	X				Х	
+	16 fl oz ⁽⁷⁾ +	16 fl oz +	2 pt ⁽⁸⁾						
Lorsban®	Refer to	Refer to							
	Lorsban labei	Lorsban label							
	Ianei	เลยยา			1	L		L	

Arrow 2EC	10 to	10 to	1%	Х			X	
+	16 fl oz (7) +	16 fl oz +				ì		
Pounce®	Refer to	Refer to						
	Pounce	Pounce			i . [
	label	label						

If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of Arrow 2EC Herbicide alone (without a tank mix insecticide) according to the appropriate size and rate specifications.

(2) Refer to the Arrow 2EC Herbicide and insecticide label for rates, weeds, and insects controlled.

(3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt/A) in the finished spray volume.

Certain insecticides can cause temporary phytotoxic symptoms on alfalfa and mint foliage. Refer to the insecticide label for further information. It is suggested that prior to using any of these insecticide/herbicide tank mixtures, that a small area of the field be treated first and observations for crop injury be made prior to treating the whole field.

Use a rate of 6 to 8 fl oz /A Arrow 2EC Herbicide for annual grass control in baby mint, minimum of 8 fl oz/A Arrow 2EC Herbicide for annual grass control in established mint and 8 to 16 fl oz/A Arrow 2EC Herbicide for perennial grass control. Add Crop oil concentrate at the rate of 1.0 to 2.0 pts/A Arrow 2EC Herbicide

(6) Insecticide tank mix use with Orthene 90S in soybeans is permitted only in a state having an approved Section 24(c) registration for Orthene 90S use in soybeans.

(7) Use a rate of 6 to 8 fl oz /A Arrow 2EC Herbicide for annual grass control in seedling alfalfa.

(8) For the Arrow 2EC Herbicide plus Lorsban tank mix, reduce the adjuvant rate down to 1.0 pt /A when the Lorsban rate is 1.0 pt /A or higher.

TABLE 17. DIRECTIONS FOR ROUNDUP READY® VOLUNTEER CORN CONTROL IN ROUNDUP READY SOYBEANS WITH ARROW 2EC HERBICIDE TANK MIX

Roundup Ready Volunteer Corn Height (inches)	ARROW 2EC Rate fl oz / A	Glyphosate ⁽¹⁾ rate for formulations <u>with</u> built in adjuvant	Adjuvant
< 12 12 to 18	4 5	1.0 to 2.0 lb ai./A (Approximately equivalent	Non-ionic surfactant @ 0.125 to 0.25% v/v plus
18 to 24	6	to 22 to 44 fl oz/A of Roundup Weather Max)	ammonium sulfate @ 8.5 to 17 lbs per 100 gals / of carrier
Roundup Ready Volunteer Corn Height (inches)	ARROW 2EC Rate fl oz / A	Glyphosate ⁽¹⁾ rate for formulations <u>without</u> built in adjuvant	Adjuvant
< 12	4	Up to 2.0 lb ai./A	Crop oil concentrate @ 1
12 to 18	5	(Equivalent to 32 to 64 fl	pt/A plus ammonium
18 to 24	6	oz/A of Roundup Original)	sulfate @ 8.5 to 17 lbs per 100 gals of carrier

⁽¹⁾ Glyphosate formulation must be labeled for use on Roundup Ready soybean.

THE MOST RESTRICTIVE LABELING OF ANY PRODUCT USED IN A TANK MIX MUST BE FOLLOWED.

- Apply only to actively growing grass and broadleaf weeds at specified height or growth stage listed on each label.
- Apply under favorable soil moisture and humidity which exist a few days after rainfall or within seven days after irrigation.
- Tank mix applications can sometimes result in reduced grass control. If regrowth occurs or an additional flush
 of new grass emerges, make a second application of Arrow 2EC Herbicide as specified in the respective size
 and rate tables.
- Do not tank mix Arrow 2EC Herbicide when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage.
- This tank mix can be applied postemergence to Roundup Ready soybeans up through the full flowering stage. Do not apply less than 60 days before harvest.
- Avoid contact with foliage, green stems, or fruit crops, or any desirable plants and trees, other than soybeans
 with the Roundup Ready gene as severe injury or destruction will result.
- Do not allow the Arrow 2EC Herbicide plus Roundup to mist, drip, drift, or splash onto desirable vegetation as
 minute quantities of the tank mix can cause severe damage or destruction to the crops, plants, or other areas
 on which treatment was not intended. The likelihood of injury occurring from drift of this product is greatest
 when winds are gusty or in excess of 5 miles per hour. Even under lesser wind velocities, avoid conditions

that allow spray drift to occur such as combinations of spray pressure and nozzle type that will result in fine particles (mist) that are likely to drift.

FALLOW LAND DIRECTIONS FOR USE

Arrow 2EC Herbicide can be used to control annual and perennial grasses in land that has been left fallow the previous year and other non-producing agricultural areas. Apply Arrow 2EC Herbicide at 6 to 8 fl oz/A for annual grasses and 8 to 16 fl oz/A for perennial grasses. When both grass and broadleaf weeds are the target pest, Arrow 2EC Herbicide can be tank mixed with 2,4-D Ester or Banvel SGF Herbicide for broad spectrum control. When both annual and perennial grasses occur in the same field, use a minimum of 8 fl oz/A Arrow 2EC Herbicide.

PRODUCT INFORMATION

- Use a minimum spray volume of 5 gals/A for aerial applications and 15 gals/A for ground applications.
- Apply only to actively growing grasses when the first grass reaches the specified weed height as specified by the DIRECTIONS FOR ANNUAL AND PERENNIAL GRASSES section of this label.
- Annual grasses which emerge after the Arrow 2EC Herbicide application will not be controlled and a second
 application may be necessary.
- The control of perennial grasses may require more than one application in non-tilled areas.
- Do not plant any crop for 30 days after application unless Arrow 2EC Herbicide is registered for use in that crop.
- Do not apply to grasses that have tillered, formed seedheads, or exceeded specified growth stage.
- Do not use flood jet nozzles.
- Do not apply to drought-stressed grasses.
- Do not mow area for two weeks prior to or after the Arrow 2EC Herbicide application.

ARROW 2EC HERBICIDE IN TANK MIXES TO CONTROL ANNUAL AND PERENNIAL GRASSES IN FALLOW LAND

PRODUCT	APPLICATION RATES/ACRE(1)		CROP OIL CONCENTRATE	
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR
Arrow 2EC	6 to 8 fl oz 8 to 16 fl oz		1% v/v	
+	+			
2,4-D Ester	0.5 lb per acre			
or	or			
Banvel SGF	See Banvel SGF label for rates.			

Refer to Arrow 2EC Herbicide label for weed height and species control. Review Banvel SGF Herbicide and 2.4-D labels for crop restrictions, use rates, and weeds controlled.

Always use a crop oil concentrate or methylated seed oil containing at least 15% emulsifier at the listed rate (but not less than 1 pt/A) in the finished spray volume.

GRASS SPECIES	WEED STAGE	RATE FL OZ /ACRE	HIGH RATE
Annual and perennial grasses that exceed height claimed for control on height chart above.	Up to and including grasses in the seed head stage.	12	16
Do not apply as part of a tank mix when Add a crop oil concentrate at 1 qt/A. by o	applying Arrow 2EC Herbicide for grass suppr ground to the finished spray volume.	ession.	

ARROW 2EC HERBICIDE FOR THE CONTROL AND/OR SUPPRESSION OF TALL FESCUE IN NATIVE PRAIRIE WARM-SEASON GRASS RESTORATION PROJECTS

		GRASS WEEDS CONTROLLED/SUPPRESSED		
PRODUCT	PRODUCT RATE	COMMON NAME	SCIENTIFIC NAME	WEED STAGE
Arrow 2EC	10 to 12 fl oz/A	Tall Fescue	Festuca arundinacea	4 to 6 in. (40 to 60% green-up)

Adjuvant: Arrow 2EC Herbicide must be applied with crop oil concentrate at 1 qt/A, plus a spray grade ammonium sulfate at 2.5 to 4 lbs/A.

Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, add Arrow 2EC Herbicide, then add crop oil concentrate.

SPECIAL APPLICATION INSTRUCTIONS/PRECAUTIONS

- Burn or mow fields a minimum of 3 weeks prior to application to remove excess crop residue. Apply in the spring, at 40 to 60% tall fescue green-up, prior to emergence of warm-season grasses. Do not mow area for 2 weeks after the Arrow 2EC Herbicide application.
- Apply in a minimum of 15 to 20 gals of water per acre at a spray pressure of 40 to 60 psi at the nozzle. Apply using flat fan or hollow cone nozzles. Do not use flood jet nozzles.
- Apply only to fields that have warm-season grasses established for two years. Applications of Arrow 2EC
 Herbicide to emerged warm-season grasses can cause injury. Do not apply to warm-season grasses grown
 for seed.
- Do not graze treated fields or feed treated forage and/or hay to livestock.
- Do not plant any crop for 30 days after application unless Arrow 2EC Herbicide is registered for use in that crop.

NOTE: Arrow 2EC Herbicide applications are most effective if applied when average nighttime temperatures are consistently greater than or equal to 47 degrees Fahrenheit.

ARROW 2EC HERBICIDE FOR THE SUPPRESSION OF TALL FESCUE SEEDHEADS IN NON-PRODUCING AGRICULTURAL AREAS

PRODUCT	PRODUCT RATE	SUPPRESSION	APPLICATION TIMING
Arrow 2EC	1½ to 2 fl oz/A	Tall Fescue SeedHeads	(50 to 90%Tall Fescue
		(Festuca arundinacea)	green-up)

Adjuvant: Arrow 2EC Herbicide must be applied with crop oil concentrate at 1 qt/A plus a spray grade ammonium sulfate at 2.5 to 4 lbs/A.

Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, add Arrow 2EC Herbicide, then add crop oil concentrate.

SPECIAL APPLICATION INSTRUCTIONS/PRECAUTIONS

Apply at 50 to 90% tall fescue green-up.

Use the higher Arrow 2EC Herbicide rate if less tall fescue green matter is present.

Do not mow area for 2 weeks after the Arrow 2EC Herbicide application.

Apply in a minimum of 15 to 20 gals of water per acre at a spray pressure of 40 to 60 psi at the nozzle. Apply using flat fan or hollow cone nozzles. Do not use flood nozzles.

2.4-D Ester can be added to this tank mix for broadleaf control (see 2,4-D Ester label for weeds controlled).

Do not graze treated fields or feed treated forage and/or hay to livestock. Do not plant any crop for 30 days after application, unless Arrow 2EC is registered for use in that crop.

DIRECTIONS FOR USE IN ORNAMENTALS

For ornamental plant uses, Arrow 2EC Herbicide can be used to control labeled grass weeds in greenhouses, lathhouses, shadehouses, and around outdoor ornamentals, including nurseries, parks, roadside plantings, and structure landscapes.

IMPORTANT: Arrow 2EC Herbicide controls weeds in newly transplanted and established non-grassy ornamentals. Plant tolerance to Arrow 2EC Herbicide at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species, crop growth stage, environmental conditions, and application techniques, determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of Arrow 2EC Herbicide has investigated the safety factor to ornamental plants not listed on the label.

The following plants have shown a tolerance for Arrow 2EC Herbicide applications:

ORNAMENTAL TREES

COMMON NAME	SCIENTIFIC NAME		
Alder, Red	Alnus rubra		
Ash	Fraxinus spp.		
Basswood	Tilia spp.		
Birch, European White	Betula pendula		
Birch, River	Betula nigra		
Birch, White	Betula papyrifera		
Crabapple, Flowering	Malus halliana		
Dogwood, Flowering	Cornus florida		
Golden Chain Tree	Laburnum anagyroides		
Maples	Acer spp.		
Mulberry, White	Morus alba		
Oaks	Quercus spp.		
Olive, Wild	Elaeagnus angustifolia		
Redbud, Eastern	Cercis canadensis		
Sweet Gum, American	Liquidambar styraciflua		

GARDEN FLOWERS AND PLANTS

GARDEN FLOWERS AND PLANTS			
COMMON NAME	SCIENTIFIC NAME		
Ageratum	Ageratum spp.		
Alyssum*, Sweet	Lobularia maritima		
Asparagus Fern	Asparagus setaceus		
Bleeding Heart	Dicentra spectabilis		
Cast Iron Plant	Aspidistra elatior		
Chrysanthemum	Chrysanthemum spp.		
Cinquefoil	Potentilla spp.		
Coleus	Coleus spp.		
Coralbells	Heuchera sanguinea		
Cranesbill	Geranium spp.		
Dahlia	Dahlia spp.		
Daisy, African	Osteospermum fruticosum		
Daylily	Hemerocallis spp.		
Dusty Miller	Senecio cineraria		
Euonymus	Euonymus spp.		
Gazania	Gazania spp.		
Geranium, House	Pelargonium hortorum		
Heather, False	Cuphea hyssopifolia		
Hosta	Hosta fortunei		
Iris	Iris spp.		
Jasmine Tobacco	Nicotiana alata		
Loosestrife	Lythrum salicaria		
Marigold	Tagetes spp.		
Partridgeberry	Mitchella repens		
Petunia*	Petunia hybrida		
Phlox	Phlox spp.		
Pinks	Dianthus spp.		
Portulaca	Portulaca grandiflora		
Salvia	Salvia spp.		
Saxifrage	Saxifraga spp.		
Sedum	Sedum spp.		
Selloum	Philodendron selloum		
Snapdragon*	Antirrhinum majus		
Sweet Flag	Acorus gramineus		
Tickseed	Coreopsis grandiflora		
Touch-Me-Not	Impatiens spp.		

Verbena	Verbena spp.	
Violet	Viola spp.	
Yarrow, Common	Achillea millefolium	
Zinnia	Zinnia elegans	

^{*}Slight foliage or flower speckling has been observed on these species.

GROUND COVERS

COMMON NAME	SCIENTIFIC NAME
Bugleweed, Carpet	Ajuga reptans
Ivy, English	Hedera helix
Japanese Spurge	Pachysandra terminalis
Lilyturf	Liriope muscari
Moneywort	Lysimachia nummularia
Mondo Grass, White	Ophiopogon jaburan
Mondo Grass, Dwarf	Ophiopogon japonicus
Periwinkle, Lesser	Vinca minor

SHRUBS			
COMMON NAME	SCIENTIFIC NAME		
Abelia	Abelia spp.		
Anise, Purple	Illicium floridanum		
Aucuba	Aucuba spp.		
Azalea*	Rhododendron spp.		
Bamboo	Bambusa spp.		
Barberry, Japanese	Berberis thunbergii		
Barberry, Magellan	Berberis buxifolia		
Bayberry	Myrica pensylvanica		
Bottlebrush	Callistemon citrinus		
Boxwood, Common	Buxus sempervirens		
Camellia, Common	Camellia japonica		
Candytuft	Iberis sempervirens		
Cleyera	Cleyera japonica		
Coralberry	Ardisia crenata		
Crape Myrtle	Lagerstroemia indica		
Coyote Brush	Baccharis pilularis		
Fig, Creeping	Ficus pumila		
Gardenia	Gardenia spp.		
Holly	llex spp.		
Honeysucike	Lonicera pileata		
Indian Hawthorn	Raphiolepis indica		
Jasmine	Jasminum spp.		
Jasmine, Asiatic	Trachelospermum asiaticum		
Jasmine, Star	Trachelospermum jasminoides		
Juniper	Juniperus spp.		
Lantana	Lantana spp		
Nandina* Bamboo, Heavenly	Nandinia domestica		
Oleander, Common	Nerium oleander		
Oregon Grape	Mahonia aquifolium		
Photinia	Photinia spp.		
Pittosporum	Pittosporum spp.		
Podocarpus	Podocarpus spp.		
Privet	Ligustrum spp.		
Pyracantha	Pyracantha spp.		
Rhododendron	Rhododendron spp.		
Rose	Rosa spp.		
Spirea	Spiraea bumalda		
Sweet Olive	Osmanthus fragrans		
Tea Olive	Osmanthus fragrans		
100 011	- Comandido nagrano		

Viburnum	Viburnum tinus	China Car
Wisteria	Wisteria spp.	
Yellow Sage/Shrub Verbena	Lantana camara	

^{*}Slight foliage or flower speckling has been observed on these species.

DIRECTIONS FOR ANNUAL GRASSES IN ORNAMENTALS

- Apply only to actively growing grasses at specified weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the specified growth state
 for treatment. Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

GRASS SPECIES	SCIENTIFIC NAME	WEED* HEIGHT INCHES	RATE FL OZ/ACRE (1)	HIGH RATE ⁽²⁾
Barnyardgrass	Echinochloa crus-galli	2 to 8	8	16
Broadleaf Signalgrass	Brachiaria platyphylla	2 to 6	8	16
Brome				
California	Bromus carinatus	2 to 6	8	16
Cheatgrass	Bromus secalinus	2 to 6	8	16
Downy	Bromus tectorum	2 to 6	8	16
Ripgut	Bromus diandrus	2 to 6	8	16
Canarygrass	Phalaris canariensis	1 to 4	8	16
Crabgrass				
Hairy	Digitaria adscendens	2 to 6**	8	16
Large	Digitaria sanguinalis	2 to 6**	8	16
Smooth	Digitaria ischaemum	2 to 6**	8	16
Southern	Digitaria ciliaris	2 to 6**	8	16
Crowfootgrass	Dactyloctenium aegyptium	2 to 6**	8	16
Fall Panicum	Panicum dichotomiflorum	2 to 8	8	16
Field Sandbur	Cenchrus incertus	2 to 6	8	16
Foxtail				Bronk Figure
Giant	Setaria faberi	2 to 12	8	16
Green	Setaria viridis	2 to 8	8	16
Yellow	Setaria glauca	2 to 8	8	16
Foxtail Barley	Hordeum jubatum	2 to 6	8	16
Goosegrass	Eleusine indica	2 to 6**	8	16
Itchgrass	Rottboellia exaltata	2 to 6	8	16
Junglerice	Echinochloa colona	2 to 6	8	16
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2 to 6	8	16
Rabbitsfootgrass	Polypogon monspeliensis	1 to 4	8	16
Red Rice	Oryza sativa	1 to 3	8	16
Ryegrass				FI WITH T
Hardy	Lolium remotum	2 to 6	8	16
Italian	Lolium multiflorum	2 to 6	8	16
Seedling Johnsongrass	Sorghum halepense	4 to 10	8	16
Shattercane	Sorghum bicolor	6 to 18	8	16
Southwestern Cupgrass	Eriochloa gracilis	2 to 6	8	16
Sprangletop		1979) (73)	THE WAY TO SERVE TO	
Amazon	Leptochloa panicoides	2 to 6	8	16
Bearded	Leptochloa fascicularis	2 to 6	8	16
Mexican	Leptochloa uninervia	2 to 6	8	16
Red	Leptochloa filiformis	2 to 6	8	16
Texas Panicum	Panicum texanum	2 to 6	8	16
Volunteer Cereals	, amount toxunum			10
Barley	Hordeum vulgare	2 to 6	8	16
Oats	Avena sativa	2 to 6	8	16
Rye	Secale cereale	2 to 6	8	16
Wheat	Triticum aestivum	2 to 6	8	16
Volunteer Corn	Zea mays	4 to 12	6	8
Volunteer Corn	Zea mays Zea mays	12 to 24	8	16

Volunteer Grain Sorghum	Sorghum bicolor	8 to 12	8	16
Wild Oats	Avena fatua	2 to 6	8	16
Wild Proso Millet	Panicum miliaceum	2 to 10	8	16
Witchgrass	Panicum capillare	2 to 8	. 8	16
Woolly Cupgrass	Eriochloa villosa	2 to 8	8	16

^{*}Occurs between 3-leaf stage and tillering.

Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt per 50 gals (0.25% v/v).

DIRECTIONS FOR ANNUAL BLUEGRASS CONTROL WITH ARROW 2EC HERBICIDE IN ORNAMENTALS

DIRECTIONS ON ANNUAL DESCRIPTION SONT INC. THE PROPERTY OF THE CHARACTER AND CONTRACT THE CONTRA					
GRASS SPECIES	WEED STAGE	RATE FL OZ ACRE	HIGH RATE		
ANNUAL BLUEGRASS (Poa annua)	to 4-leaf	6	16		
Apply under favorable soil moisture and humid irrigation. Grass needs to be actively growing apply at weed stage indicated on the label, bluegrass.	at time of application(s).	•	·		
Use the high rate under heavy grass pressure			(0.2E9/ .//.)		

DIRECTIONS FOR PERENNIAL GRASSES

- Apply only to actively growing grasses at specified weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the specified growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

GRASS SPECIES	WEED HEIGHT INCHES	RATE FL OZ/ACRE ⁽¹⁾	HIGH RATE (2)
Bermudagrass (Cynodon dactylon)			
First Application	3 (or up to 6" runners)	8	16
Repeat Application(s) (if regrowth occurs)	3 (or up to 6" runners)	8	16
Foxtail Barley (Hordeum jubatum)			
First Application	2 to 6	8	16
Repeat Application(s) (if regrowth occurs)	2 to 6	8	16
Quackgrass (Agropyron repens)			
First Application	4 to 8	8	16
Repeat Application(s) (if regrowth occurs)	4 to 8	8	16
Rhizome Johnsongrass (Sorghum halepens	se)		
First Application	12 to 24	8	16
Repeat Application(s) (if regrowth occurs)	6 to 18	6	8
Wirestem Muhly (Muhlenbergia frondosa)			
First Application	4 to 8	8	16
Repeat Application(s) (if regrowth occurs)	4 to 8	8	16

⁸ fl oz/A=approximately 0.2 fl oz/1000 sq ft

Add non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt per 50 gals (0.25% v/v).

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Open dumping is prohibited.

STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in cool, dry place. Do not store diluted spray.

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

CONTAINER HANDLING:

Nonrefillable Container (five gallons or less): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining

^{**}Length of lateral growth.

^{(1) 8} fl oz/A=approximately 0.2 fl oz/1000 sq ft

^{(2) 16} fl oz/A=approximately 0.4 fl oz/1000 sq ft

^{(2) 16} fl oz/A=approximately 0.4 fl oz/1000 sq ft

contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ 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.

Nonrefillable Container (greater than five gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ½ 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.

Refillable Container (greater than 55 gallons): Refillable container. Refill this container with clethodim only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. For final disposal, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

LIMITATION OF WARRANTY AND LIABILITY

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

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

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

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