

ACTIVE INGREDIENT	By Wt
*Clethodim	
OTHER INGREDIENTS	87.4%
TOTAL	100.0%

Contains Petroleum Distillates

*(E)..2..[1 -[[(3-chloro-2-propenyl)oxyjimino]propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one Contains 0.97 lbs. Clethodim per gal.

KEEP OUT OF REACH OF CHILDREN CAUTION

F 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.
	 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.
F 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 immediately for advice.
F 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.
F INHALED:	Move person to fresh air.
	• If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
	Call a poison control center or doctor for further treatment advice.
	HOT LINE NUMBER
	el with you when calling a poison control center or doctor, or going for treatment. You may also contact (800) 424-
	rgency medical treatment information.
	of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause
	mucosal damage may contraindicate the use of gastric lavage. May pose an aspiration pneumonia hazard.
Contains petroleum distillate.	ET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND COMPLETE DIRECTIONS FOR USE.

AD 102715

EPA Reg. No. 5905-578
EPA Est. No.: First letters of product batch code indicate producing establishment:

5905-AR-1=WA • 5905-GA-1=CG • 5905-IA-1=DI • 5905-CA-1=KC

NET CONTENTS: ☐ 1 Gallon (3.785 L) □ 2.5 Gallons (9.46 L)

Manufactured For: **Helena Chemical Company** 225 Schilling Boulevard, Suite 300 Collierville, TN 38017

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

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

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 and protective eyewear.

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

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not 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 13 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.

READ ENTIRE LABEL AND PAMPHLET. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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 over short-sleeved shirt and short pants, chemical-resistant gloves such as barrier laminate or viton ≥14 mils and 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 all unprotected persons out of operating areas, or vicinity where there may be drift. Do not enter treated areas without protective clothing until sprays have dried.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

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

CONTAINER DISPOSAL: Non-refillable containers (1, 2.5, 30 & 55 gallon): Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Non-Refillable (<5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 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. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Non-Refillable (>5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Refillable Container (250 gallon & bulk): Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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.

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THE FOLLOWING STATEMENT ON CHEMIGATION WILL BE USED ONLY IF A SUPPLEMENTAL LABEL IS CREATED.

CHEMIGATION

May be applied to onions and garlic by sprinkler irrigation systems. Do not apply by chemigation to any other crop, or to this crop using any other type of irrigation system.

PRODUCT INFORMATION

FOR USE ON: Alfalfa, Asparagus, Artichoke (Globe), Bean (dry) and Pea (shelled)¹, Bean and Pea (succulent shelled)², Broccoli, Bushberry³, Cabbage, Caneberry⁴, Canola*, Carrot, Cauliflower (and other Head and Stem Brassica Vegetables)⁵, Celery, Clover (grown in Idaho, Oregon and Washington only), Conifers, Cotton, Cranberry, Cucumber, Eggplant (and other Fruiting Vegetables)⁶, Fallow Land (and other non-producing agricultural areas), Field Corn**, Flax*, Garden Beet, Garlic, Herbs⁵, Hops, Horseradish (and other Root Vegetables)⁶, Legume Vegetables (edible podded)⁶, Lettuce, Head and Leaf (and other Leafy Greens)¹⁰, Melons (including Cantaloupe and Watermelon)¹¹, Mint, Mustard Greens (and other Leafy Brassica Greens)¹² Mustard Seed*, Non-Bearing Food Crops, Non-Crop or Non-Planted Areas, Onions (dry bulb and green), Ornamentals, Peach, Peanut (including perennial), Peppers (bell and non-bell), Potato, Radish, Rhubarb (and other Leaf Petioles)¹³, Safflower, Sesame, Shallot (dry bulb), Soybean, Squash (including Pumpkin)¹¹, Strawberry, Sugar Beet, Sunflower, Sweet Potato, Turnip Greens, Tomato and Yam (and other Tuberous and Corm Vegetables)¹⁴.

*Not for use in California

- **Not for use in California and New York
- Other Bean (dry) and Pea (shelled) crops approved for use with TAPOUT® include: Bean (Lupinus spp.), grain lupin, sweet lupin, white lupin and white sweet lupin; Bean (Phaseolus spp.), field, kidney, lima (dry), navy, pinto and tepary; Bean (Vigna spp.), 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 and lentil; Pea (Pisum spp.), field and pigeon.
- Other Bean & Pea (succulent shelled) crops approve for use with TAPOUT® include: Bean (*Phaseolus* spp.), broad bean (succulent), lima bean (green); Bean (*Vigna* spp.), black-eyed pea, cowpea, Southern pea; Pea (*Pisum* spp.), English pea, garden pea, green pea and pigeon pea.
- ³ Bushberry approved for use with TAPOUT® include: Aronia Berry, Blueberry, Highbush; Chilean Guava, Cranberry, Highbush; Currant, Black; Currant, Buffalo; Currant, Native; Currant, Red; Elderberry, European Barberry, Gooseberry, Honeysuckle, Edible, Huckleberry, Jostaberry, Juneberry, Saskatoon Berry, Salal, Sea Buckthorn, Cultivars, varieties and/or hybrids of these.
- ⁴ Caneberry approved for use with TAPOUT® include Blackberry, Loganberry, Raspberry, Black Raspberry, Red Raspberry, Wild Cultivars, varieties and/or hybrids of these.
- ⁵ Other head and stem brassica vegetables approved for use with TAPOUT® include: Chinese broccoli, Brussels sprouts, Chinese (napa) cabbage, Chinese mustard, cavalo broccolo and kohlrabi.
- ⁶ Other Fruiting Vegetables (except tomato) approved for use with TAPOUT® include: eggplant, groundcherry, pepino, peppers (all) and tomatillo.
- Other Herb crops approved for use with TAPOUT® include: angelica, balm, basil, borage, burnet, camomile, catnip, chervil (dried), chive, Chinese chive, clary, coriander (leaf), costmary, culantro (leaf), curry (leaf), dill (dillweed), horehound, hyssop, lavender, lovage (leaf), marigold, maqoram (*Origanum* spp.), nasturtium, parsley (dried), pennyroyal, rosemary, rue, sage and savory, summer and winter.
- 8 Other root vegetables approved for use with TAPOUT® include: burdock, edible; celeriac; chervil; turnip-rooted; chicory; ginseng; parsley, turnip-rooted; parsnip; radish, Oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret and turnip.

- ⁹ Other Edible Podded Legume Vegetable crops approved for use with TAPOUT® include: Bean *(Phaseolus* spp.), runner, snap and wax; Bean *(Vigna* spp.), asparagus, Chinese longbean, moth, yardlong, jackbean; Pea *(Pisum* spp.), dwarf, edible-pod, snow, sugar snap, pigeon and sword bean.
- Other Leafy Greens crops approved for use with TAPOUT® include: amaranth (Chinese spinach, leafy amaranth and tampala), arugula (roquette), chervil, chrysanthemum (edible-leaved and garland), corn salad, cress (garden, yellow rock and winter), dandelion, dock (sorrel), endive (escarole), lettuce (head and leaf), orach, parsley, purslane (garden and winter), radicchio (red chicory), spinach, spinach (New Zealand and Vine [Indian and Malabar]).
- ¹¹ Other cucurbit crops approved for use with TAPOUT® include: Chayote (fruit), Chinese wax gourd, citron melon, edible gourd, gherkin and Muskmelons (all) including honeydew melon.
- 12 Other leafy brassica greens approved for use with TAPOUT® include: broccoli raab, Chinese (bok choy) cabbage, collards, kale, mizuna, mustard greens, mustard spinach, rape greens.
- 13 Other leaf petiole crops approved for use with TAPOUT® include: cardoon, celtuce, Chinese celery, Florence fennel, and Swiss chard.
- 14 Other tuber and corm vegetables approved for use with TAPOUT® include: arracacha, arrowroot, Chinese artichoke, Jerusalem artichoke, edible canna, bitter and sweet cassava, chayote (root), chufa, dasheen (taro), ginger, leren, tanier, turmeric; yam, bean and yam, true.

TAPOUT® is a selective postemergence herbicide for control of annual and perennial grasses. TAPOUT® does not control sedges or broadleaf weeds.

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 generally be observed in 7 to 14 days after application, depending on grass species treated and environmental conditions.

APPLICATION INFORMATION

Timing of Applications

Apply TAPOUT® postemergence to actively growing grasses according to rate table recommendations. Applications made to grass plants stressed by insufficient moisture, hot or cold temperatures, or to grass plants exceeding specified growth stages may result in unsatisfactory control. Do not apply under these conditions.

In arid regions where irrigation is used to supplement limited rainfall, TAPOUT® should be applied, as soon as possible, after irrigation (within 7 days). In arid regions, a second application of TAPOUT® will generally 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 TAPOUT® may reduce weed control.

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. Spray pressures should reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle. Do not use flood nozzles.

Applications to garlic, onions (dry bulb and green) or shallots (dry bulb and green) should be made 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 garlic, onions (dry bulbs and green) or shallots (dry bulb and green): When applying by air do not exceed 16 fl. oz./A in a single application. In California, air applications to garlic, onion or shallot should be made in a minimum of 20 gals. of spray solution per acre. In states other than California, air application to garlic, onion or shallot should be made in a minimum of 10 gals. of spray solution.

NOTE: Crop injury may occur when TAPOUT® is applied to garlic, onion or shallot with aerial equipment.

Spot Treatment

When using hand sprayers or high volume sprayers utilizing hand guns, mix 1/3 to 2/3% (0.44 oz. to 0.85 oz. per gal.) TAPOUT® 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 nonionic surfactant, include non-ionic surfactant at 1/4% (0.33 oz. per gal.) by volume.

NOTE: If TAPOUT® is applied as a spot treatment care should be taken to not exceed the maximum rate allowed on a "per acre" basis or crop injury may occur.

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

Do not apply TAPOUT® by chemigation in the states of Idaho, Montana, Oregon and Washington.

Apply TAPOUT® at the high rate specified for annual grasses (32 fl. oz./A) when the grass height is at the high 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 or non-ionic surfactant with at least 80% active ingredient at 0.25% v/v of total spray solution.

Apply TAPOUT® 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 may result in decreased product performance by removing the chemical from the zone of effectiveness. Use a metering device to inject the TAPOUT® 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 may be injected into the lines to mark the end of the application period.

It is not recommended that TAPOUT® be applied 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 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 may result from non-uniform distribution of treated water.
- 3. If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- 4. A person knowledgeable of chemigation system and responsible for its operation or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- 5. 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.
- 6. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 7. 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.
- 8. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 9. 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.
- 10. 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.

RESTRICTIONS AND LIMITATIONS

ALL USES

- 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.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Do not apply if rain is expected within 1 hour of application, as control may be unsatisfactory.
- Do not plant rotational crops until 30 days after application of TAPOUT® unless crop is listed on TAPOUT® label.
- Do not apply a postemergence broadleaf herbicide within one day following application of TAPOUT® or reduced grass control may result.
- TAPOUT® is not recommended for use on vegetable crops being grown for seed production unless specific use directions are provided.
- Do not apply under conditions of stress. Applying TAPOUT® 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 TAPOUT®
 effectively, and will be less susceptible to herbicide activity.
- Application on Long Island, New York, is restricted to no more than 32 fl. oz. of TAPOUT® (0.25 lb. a.i.) per acre per year.

Optimal perennial grass control can be obtained if rhizomes or stolons are cut up by preplant tillage practices (disking, 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, no fewer than two TAPOUT® applications per season per year are recommended at the appropriate weed-growth stage rate under continuous no-till conditions.

Grass crops such as corn, rice, small grains, sorghum or turf, etc. are highly sensitive to TAPOUT®.

While all the vegetable crops on this label have been tested and are tolerant to TAPOUT®, not all specialty varieties of these crops have been tested. It is advised that, before applying TAPOUT® 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 rotation and other crop restrictions.

Tank mixes of TAPOUT® and broadleaf herbicides may result in reduced grass control. If grass regrowth occurs, an additional application of TAPOUT® may be necessary.

SPRAY DRIFT MANAGEMENT

- 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 apply when conditions are favorable for drift (high temperatures, drought and low relative humidity), especially when sensitive plants are located nearby.
- 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.
- Do not apply when a temperature inversion exists. If inversion conditions are suspected, consult with local weather services before making an
 application.
- Do not allow TAPOUT® to come in contact with desirable grass crops such as corn, rice, small grains, sorghum, or turf, as these and other grass crops will be injured or killed.

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.
- Orienting nozzles straight back with the windstream, 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. Application height and boom length should be set 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 plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

RESISTANCE MANAGEMENT

TAPOUT® is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to TAPOUT® 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 TAPOUT® or other Group 1 herbicides. Repeated use of TAPOUT® (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:

- Avoiding the consecutive use of TAPOUT® or other target site of action Group I herbicides that have similar target site of action, on the same weed species.
- 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.
- Basing herbicide use on a comprehensive IPM program.

- Monitoring treated weed populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors, and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

Table 1. CROP SPECIFIC USE DIRECTIONS, RESTRICTIONS AND LIMITATIONS FOR TAPOUT®

Table 1. CROP SPI			ESTRICTION	S AND LIMITATIONS FO	IN TAPOUT®	
Crop ⁽¹⁾	Minimum Time from Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Recommendation ⁽³⁾ (Use a CPDA Certified adjuvant when possible)	Ammonium Sulfate Recommendation ⁽⁴⁾	Special Use Instructions And Restrictions
Alfalfa, Seedling	15 days before grazing, feeding or harvesting (cutting) for forage or hay	9 to 16 fl. oz.	12 to 32 fl. oz.	NIS at 0.25% v/v or COC/MSO at 1 qt./A or 1% v/v See tank mix label for specific adjuvant recommendations.	2.5 to 4 lbs./A	Do not apply more than 32 fl. oz./A per application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Alfalfa, Established including: Sainfoin Holy clover Birdsfoot trefoil	15 days before grazing, feeding or harvesting (cutting) for forage or hay	12 to 16 fl. oz.	12 to 32 fl. oz.	NIS at 0.25% v/v or COC/MSO at 1 qt./A or 1% v/v See tank mix label for specific adjuvant recommendations. (Use a CPDA Certified adjuvant when possible)	2.5 to 4 lbs./A	Do not apply more than 32 fl. oz./A per application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Artichoke, Globe	5 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v	None	Do not apply more than 16 fl. oz./A in a single application. For repeat applications make on a minimum of a 14 day interval. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year.
Asparagus	1 day	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. For repeat applications make on a minimum of a 14 day interval. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year.
Bean, Dry including: Bean (Lupinus spp.) Grain Sweet White White Sweet Bean (Phaseolus spp.) Field Kidney	30 days	9 to 16 fl. oz. ⁽⁵⁾	12 to 32 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 32 fl. oz./A per application. For repeat applications make on a minimum of a 14 day interval. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year.

Lima (dry) Navy Pinto Tepary Bean (Vigna spp.) 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, Succulent Shelled including: Bean (Phaseolus spp.) Broad Bean (succulent) Lima Bean (green) Bean (Vigna spp.) Black-eyed Pea Cowpea Southern Pea	21 days	9 to 16 fl. oz. ⁽⁵⁾	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than one (1) application per acre per year.
Beet, Garden	30 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Brassica Vegetables, Head and Stem ⁽⁶⁾ including: Broccoli Cabbage Cauliflower Brussels sprouts	30 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Bushberry including: Aronia Berry Blueberry, Highbush Chilean Guava	14 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v		Do not apply more than 16 fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. ai/A) per year. For repeat applications make on a minimum of a 14 day

Cranberry, Highbush Currant, Black Currant, Buffalo Currant, Red Elderberry European Barberry Gooseberry Honeysuckle Edible Huckleberry Jostaberry Juneberry, Saskatoon Berry Salal Sea Buckthorn Cultivars, varieties and/or hybrids of these Caneberry including:	7 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v	None	interval. Apply TAPOUT® postemergence to actively growing grasses according to rate table. Crop injury to bushberry can occur if TAPOUT® is improperly applied. TAPOUT® should not be applied directly over the top of these plant types. Instead spray should be directed at the base of the plant where grassy weeds are growing near the ground. Do not apply TAPOUT® to Bushberry grown for root stock. Non-bearing fruit crops are plants which will not bear fruit or nuts for at least one year following TAPOUT® application. Do not apply more than 16 fl. oz./A in a single application.
Blackberry Loganberry Raspberry, Black Raspberry, Wild Cultivars, varieties and/or hybrids of these						Do not apply more than 64 fl. oz./A (0.5 lb. ai/A) per year. For repeat applications make on a minimum of a 14 day interval. Apply TAPOUT® postemergence to actively growing grasses according to rate table. Crop injury to caneberry can occur if TAPOUT® is improperly applied. TAPOUT® should not be applied directly over the top of these plant types. Instead spray should be directed at the base of the plant where grassy weeds are growing near the ground. Do not apply TAPOUT® to Caneberry grown for root stock. Non-bearing fruit crops are plants which will not bear fruit or nuts for at least one year following TAPOUT® application.
Canola (Not for use in California)	70 days	9 to 12 fl. oz. ⁽⁵⁾	12 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply after crop has begun bolting. Crop injury may occur when TAPOUT® is applied during the bloom period. Do not apply more than 12 fl. oz./A in a single

						application. Do not apply more than 12 fl. oz./A per year.
Carrot	30 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% V/V (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Clover	15 days before grazing, feeding or harvesting (cutting) for forage or hay	9 to 16 fl. oz.	12 to 32 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	2.5 to 4 lbs./A	For use on clover grown in the states of Idaho, Oregon and Washington only. Do not more than 32 fl. oz. in a year. For repeat applications make on a minimum of a 14 day interval.
Cotton	60 days	9 to 16 fl. oz.	12 to 32 fl. oz.	NIS at 0.25% v/v or COC/MSO at 1 qt./A or 1% v/v See tank mix label for specific adjuvant recommendations. (Use a CPDA Certified adjuvant when possible)	2.5 to 4 lbs./A	Do not graze treated fields or feed treated forage or hay to livestock. Do not apply more than 32 fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Cranberry	30 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. Do not apply between the "hook" stage and full fruit set. For repeat applications make on a minimum of a 14 day interval.
Cucurbits including: Cantaloupes (all) Cucumber Gherkin Honeydew Melon Muskmelons (all) Pumpkin Squash (all) Watermelon	14 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Fallow Land Conifer Trees (and other non- producing	N/A	9 to 16 fl. oz.	12 to 32 fl. oz.	NIS at 0.25% v/v or COC/MSO at 1 qt./A or	2.5 to 4 lbs./A	Do not plant any crop for 30 days after application unless Clethodim is registered for use in that crop.

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agricultural areas)				1% V/V		Do not apply more than 32
				(Use a CPDA Certified adjuvant		fl. oz./A per application.
Non-Crop or				when possible)		Do not apply more than 64
Non-Planted						fl. oz./A (0.5 lb. a.i./A) per
Areas						year.
						For repeat applications
						make on a minimum of a 14
						day interval.
Field Corn(5)	90 days	6 fl. oz.	-	NIS at 0.25% v/v plus	2.5 to 4 lbs./A	Do not make more than 1
(Not for use in	-			AMS		application per season.
California and				Do not use COC or MSO		Do not apply more than 6
New York)				with TAPOUT® in this		oz./A per year.
				use pattern		To control existing stand,
				·		replant no sooner than 6
						days after application.
Flax	60 days	9 to 16	12 to 16	NIS at 0.25% v/v	None	Apply prior to bloom. Crop
(Not for use in	,	fl. oz. ⁽⁵⁾	fl. oz.	(Use a CPDA Certified adjuvant		injury may occur when
California)				when possible)		TAPOUT® is applied during
						the bloom period.
						Do not apply more than 16
						fl. oz./A per application.
						Do not apply more than 32
						fl. oz. in a year.
						For repeat applications
						make on a minimum of a 14
						day interval.
Fruiting	20 days	9 to 16	12 to 16	NIS at 0.25% v/v	None	Do not apply more than 16
Vegetable	20 days	fl. oz.	fl. oz.	(Use a CPDA Certified adjuvant	None	fl. oz./A in a single
(except Tomato)		11. 02.	11. 02.	when possible)		
				when possible)		application.
including:						Do not apply more than 64
Eggplant						fl. oz./A (0.5 lb. a.i./A) per
Groundcherry						year.
Pepino						For repeat applications
Peppers (all)						make on a minimum of a 14
Tomatillo		21.12	101 100			day interval.
Herbs	14 days	9 to 16	12 to 16 fl.	NIS at 0.25% v/v	None	TAPOUT® has not been
including:		fl. oz.	OZ.	(Use a CPDA Certified adjuvant		tested on all herbs, and herb
Angelica				when possible)		varieties. It is the
Balm						responsibility of the user to
Basil						test TAPOUT® on a small
Borage						portion of the crop to be
Burnet						treated before treating the
Camomile						entire field.
Catnip			1			Crop tolerance should be
Chervil (dried)			1			verified to TAPOUT® on a
Chive						small area of the herb crop,
Chive, Chinese			1			at the desired TAPOUT®
Clary						rate and with the same crop
Coriander (leaf)	_		1			oil concentrate that will be
Costmary			1			used on the herb field. If no
Culantro (leaf)			1			crop response is evident
Curry (leaf)						seven (7) days after
Dill (dillweed)			1			treatment, TAPOUT® may
Horehound						be used on the entire field at
Hyssop			1			the rate tested and with the
Lavender			1			same crop oil used in the
Lovage (leaf)						tolerance test.
Marigold						Do not apply more than 16
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Marjoram (Origanum spp.) Nasturtium Parsley (dried) Pennyroyal Rosemary Rue Sage Savory, Summer and Winter Sweet Bay Tansy Tarragon Thyme Wintergreen Woodruff Wormwood						fl. oz./A in a single application. For repeat applications make on a minimum of a 14 day interval. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year.
Hops	21 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. For repeat application make on a minimum of a 14 day interval. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year.
Leaf Lettuce	14 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Leafy Brassica Greens including: Broccoli Raab Cabbage, Chinese (bok choy) Collards Kale Mizuna Mustard Greens Mustard Spinach Rape Greens	14 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat application make on a minimum of a 14 day interval.
Leaf Petioles including: Cardoon Celery Celtuce Chinese Celery Fennel, Florence (finochio) Rhubarb Swiss Chard	30 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. For repeat applications make on a minimum of a 14 day interval. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year.

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, New Zealand Vine (Indian and Malabar)	14 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. For repeat applications make on a minimum of a 14 day interval. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year.
Legume Vegetables, Edible Podded including: Bean (Phaseolus spp.) Runner Snap Wax Bean (Vigna spp.) Asparagus Chinese Longbean Moth Yardlong Jackbean Pea (Pisum spp.) Dwarf Edible-pod Snow Sugar Snap Pigeon Sword Bean	21 days	9 to 16 fl. oz. ⁽⁵⁾	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. Do not apply more than one (1) application per acre per year. For peas apply before bloom, but no later than 21 days before harvest.
Mint	21 days	9 to 16 fl. oz.	12 to 32 fl. oz.	NIS at 0.25% v/v or	2.5 to 4 lbs./A	Do not apply more than 32 fl. oz./A in a single

				COC/MSO at 1 qt./A		application. Do not apply more than 64
				1% v/v (Use a CPDA Certified adjuvant when possible)		fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Mustard Seed (Not for use in California)	75 days	9 to 12 fl. oz.	12 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply after crop has begun bolting. Crop injury may occur when TAPOUT® is applied during the bloom period. Do not apply more than 12 fl. oz./A per year. For repeat applications make on a minimum of 14 day interval.
Onions (Dry Bulbs Only) ^(7,8) Garlic ^(7,8) Shallots (Dry Bulbs Only) ^(7,8)	45 days	9 to 16 fl. oz.	12 to 32 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 32 fl. oz./A per application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval. Minimum of 20 gals./A spray volume by ground in entire U.S. Minimum of 20 gals./A spray volume by air in California. In states other than California, air applications to onions, garlic or shallots should be made in a minimum of 10 gals./A.
Onions, Green ^(7,8) including: Leeks Scallions or Spring Onions Japanese Bunching Onions Green Shallots Green Eschalots (Not for use in California)	14 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval. Air applications to onions, garlic or shallots should be made in a minimum of 10 gals./A.(7)
Ornamentals Non-Bearing Food Crops(7)	N/A N/A	9 to 16 fl. oz. 9 to 16 fl. oz.	12 to 32 fl. oz. 12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval. Sugar maples cannot be tapped for syrup within one year of TAPOUT® application.

						Do not apply more than 16 fl. oz./A in a single application to non-bearing food crops.
Pea, Shelled (Pisum spp.) Field Pigeon	30 days	9 to 16 fl. oz. ⁽⁵⁾	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A per application. Do not apply more than one (1) application per acre per year. Apply before bloom but not later than 30 days prior to harvest.(9)
Pea, Succulent Shelled (Pisum spp.) English Pea Garden Pea Green Pea Pigeon Pea	21 days	9 to 16 fl. oz. ⁽⁵⁾	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A per application. Do not apply more than one (1) application per acre per year. Apply before bloom but not later than 21 days prior to harvest.(9)
Peach	14 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v	None	Do not apply more than 16 fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. ai/A) per year. For repeat applications make on a minimum of a 14 day interval. Crop injury to peach can occur if TAPOUT® is improperly applied. TAPOUT® should not be applied directly over the top of these plant types. Instead spray should be directed at the base of the plant where grassy weeds are growing near the ground. Do not apply TAPOUT® to Peach grown for root stock. Non-bearing fruit crops are plants which will not bear fruit or nuts for at least one year following TAPOUT® application.
Peanut (including perennial)	40 days	9 to 16 fl. oz.	12 to 32 fl. oz.	NIS at 0.25% v/v or COC/MSO at 1 qt./A or 1% v/v (Use a CPDA Certified adjuvant when possible)	2.5 to 4 lbs./A	Do not apply more than 32 V fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year, except in Florida where the limit is 64 fl. oz./A per year (perennial peanuts only). For repeat applications make on a minimum of a 14 day interval.
Potato	30 days	9 to 16 fl. oz.	12 to 32 fl. oz.	NIS at 0.25% v/v or	2.5 to 4 lbs./A	Do not apply more than 32 fl. oz./A in a single

				COC/MSO at 1 qt./A or 1% v/v (Use a CPDA Certified adjuvant when possible)		application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Radish	15 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% V/V (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. Do not apply more than 32 fl. oz. (0.25 lb. a.i.) per acre in a year. For repeat applications make on a minimum of a 14 day interval.
Root Vegetables (except radish) ⁽¹⁰⁾	30 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per V year. For repeat applications make on a minimum of a 14 day interval.
Safflower	70 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. For repeat applications make on a minimum of a 14 day interval. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year.
Sesame	14 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply during flowering. Do not apply more than 16 fl. oz./A in a single application. For repeat applications make on a minimum of a 14 day interval. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year.
Soybean	60 days	9 to 16 fl. oz. ⁽⁵⁾	12 to 32 fl. oz.	NIS at 0.25% v/v or COC/MSO at 1 qt./A or 1% v/v See tank mix label for specific adjuvant recommendations. (Use a CPDA Certified adjuvant when possible)	2.5 to 4 lbs./A	Do not apply more than 32 fl. oz./A per application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. 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.
Strawberry	4 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant	None	Do not apply more than 16 fl. oz./A in a single

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				when possible)		application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Sugar Beet	40 days	9 to 16 fl. oz. ⁽⁵⁾	12 to 32 fl. oz.	NIS at 0.25% v/v or COC/MSO at 1 qt./A or 1% v/v See tank mix label for specific adjuvant recommendations. (Use a CPDA Certified adjuvant when possible)	2.5 to 4 lbs./A	Do not apply more than 32 fl. oz./A per application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Sunflower	70 days	9 to 16 fl. oz. ⁽⁵⁾	12 to 32 fl. oz.	NIS at 0.25% v/v or COC/MSO at 1 qt./A or 1% v/v See tank mix label for specific adjuvant recommendations. (Use a CPDA Certified adjuvant when possible)	2.5 to 4 lbs./A	Do not apply more than 32 fl. oz./A per application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Sweet Potato Yam and other tuberous and corm vegetables (except potato)(12)	30 days	9 to 16 fl. oz.	12 to 32 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 32 fl. oz./A per application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Tomato	20 days	9 to 16 fl. oz.	12 to 32 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 32 fl. oz./A per application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat applications make on a minimum of a 14 day interval.
Turnip Greens	14 days	9 to 16 fl. oz.	12 to 16 fl. oz.	NIS at 0.25% v/v (Use a CPDA Certified adjuvant when possible)	None	Do not apply more than 16 fl. oz./A in a single application. Do not apply more than 64 fl. oz./A (0.5 lb. a.i./A) per year. For repeat application make on a minimum of a 14 day interval.

N/A = Not Applicable

⁽¹⁾ TAPOUT® is not specified for use on vegetable crops being grown for seed production unless specific use directions are provided.

⁽²⁾ See annual and perennial grass control tables for specific use rate recommendations.

⁽³⁾ Non-ionic surfactant (NIS) in this case refers to an adjuvant containing at least 80% non-ionic surfactant. Crop oil concentrate in this case refers to both crop oil concentrate and crop oil concentrate blends. Acceptable crop oil concentrates would be those that contain a minimum of 80% oils and 15% emulsifier. Acceptable crop oil concentrate blends would be those that contain a minimum of 60% oils and 25-40% surfactants and emulsifiers. 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. Use a CPDA Certified Adjuvant when possible.
- (4) If Ammonium Sulfate is going to be used it must be spray grade ammonium sulfate. The use of ammonium sulfate or Ammonium Sulfate Replacement products does not take the place of the required adjuvant.
- (5) See DIRECTIONS FOR REDUCED RATE USE TO CONTROL SMALL ANNUAL GRASSES table.
- (6) Other head and stem brassica vegetables approved include: Chinese broccoli; Brussels sprouts; Chinese (napa) cabbage; Chinese mustard; cavalo broccolo; and kohlrabi.
- (7) If TAPOUT® is applied as a spot treatment to garlic, onion, shallot or non-bearing food crops care should be taken to not exceed the maximum rate allowed on a "per acre" basis or crop injury may occur.
- (8) In California, do not apply TAPOUT® to garlic, onions or shallots until crop has at least two full leaves. In California, 14 days spray intervals are recommended between the application of TAPOUT® and liquid nitrogen and other herbicide applications. Injury to crop may occur when shorter intervals are observed.
- (9) Applications of TAPOUT® to peas during the bloom period could result in severe crop injury, including loss of yield and delayed maturity.
- (10)Other root vegetables approved for use with TAPOUT® include: burdock, edible; celeriac; chervil, turnip-rooted; chicory; ginseng; parsley, turnip-rooted; parsnip; radish, Oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret and turnip.
- (11) See TAPOUT® TANK MIX WITH BROADLEAF HERBICIDES FOR THE CONTROL OF VOLUNTEER CORN (INCLUDING ROUNDUP READY®) IN SOYBEAN.
- (12)Other tuber and corm vegetables approved for use with TAPOUT® include: arracacha, arrowroot, Chinese artichoke, Jerusalem artichoke, edible canna, cassava, bitter and sweet chayote (root), chufa, dasheen (taro), ginger, leren, tariier, turmeric and bean yam.

DIRECTIONS FOR ANNUAL GRASSES (ALL CROPS)

- 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.

RESTRICTION

 Do not exceed the maximum per application rate listed in Table 1, CROP SPECIFIC USE DIRECTIONS, RESTRICTIONS AND LIMITATIONS FOR TAPOUT®

		WEED HEIGHT	APPLICA	TION RATES
GRASS SPECIES	SCIENTIFIC NAME	(inches)	MINIMUM RATE FI. Oz./A	MAXIMUM RATE ⁽¹⁾ FI. Oz./A
Barnyardgrass	Echinochloa crus-galli	2 to 8	9	16
Broadleaf Signalgrass	Brachiaria platyphylla	2 to 6	9	16
Brome				•
California	Bromus carinatus	2 to 6	9	16
Cheat	Bromus secalinus	2 to 6	9	16
Downy	Bromus tectorum	2 to 6	9	16
Ripgut	Bromus diandrus	2 to 6	9	16
Canarygrass	Phalaris canariensis	1 to 4	9	16
Crabgrass				
Hairy	Digitaria adscendens	2 to 6**	9	16
Large	Digitaria sanguinalis	2 to 6**	9	16
Smooth	Digitaria ischaemum	2 to 6**	9	16
Southern	Digitaria ciliaris	2 to 6**	9	16
Crowfootgrass	Dactyloctenium aegyptium	2 to 6**	9	16
Fall Panicum	Panicum dichotomiflor	2 to 8	9	16
Field Sandbur	Cenchrus incertus	2 to 6	9	16
Foxtail				
Giant	Setaria faberi	2 to 12	9	16
Green	Setaria virdis	2 to 8	9	16
Yellow	Setaria glauca	2 to 8	9	16
Goosegrass	Eleusine indica	2 to 6**	9	16
Itchgrass	Rottboellia conchinchinensis	2 to 6	9	16
Junglerice	Echinochloa colona	2 to 6	9	16
Lovegrass (Stinkgrass)	Eragrostis cillanensis	2 to 6	9	16
Rabbitsfootgrass	Polypogon monspeliensis	1 to 4	9	16
Red Rice	Oryza sativa	1 to 3	9	16
Ryegrass				
Hardy	Lolium remotum	2 to 6	9	16

Italian	Lolium multiflorum	2 to 6	9	16
Seedling Johnsongrass	Sorghum halepense	4 to 10	9	16
Shattercane	Sorghum bicolor	6 to 18	9	16
Southwestern Cupgrass	Eriochloa gracilis	2 to 6	9	16
Sprangletop				
Amazon	Leptochloa panicoides	2 to 6	9	16
Bearded	Leptochloa fascicularis	2 to 6	9	16
Mexican	Leptochloa uninervia	2 to 6	9	16
Red	Leptochloa filiformis	2 to 6	9	16
Texas Panicum	Panicum texanum	2 to 6	9	16
Volunteer Cereals(3)				
Barley	Hordeum vulgare	2 to 6	9	16
Oats	Avena sativa	2 to 6	9	16
Rye	Secale cereale	2 to 6	9	16
Wheat ⁽²⁾	Triticum aestivum	2 to 6	9	16
Volunteer Corn ^(2,3)	Zea mays	Up to 12	6	12
Volunteer Corn ⁽³⁾	Zea mays	Up to 24	9	14
Volunteer Corn ^(2,3)	Zea mays	Up to 36	12	16
Volunteer Grain Sorghum	Sorghum bicolor	8 to 12	9	16
Wild Oats	Avena fatua	2 to 6	9	16
Wild Proso Millet	Pancium miliaceum	2 to 10	9	16
Witchgrass	Panicum capillare	2 to 8	9	16
Woolly Cupgrass	Erichhloa villosa	2 to 8	9	16

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

⁽³⁾ Includes Roundup Ready, Liberty Link® and IMI-CORN® volunteer corn; however not Sethoxydim-Resistant volunteer corn.

DIRECTIONS FOR ANNUAL & PERENNIAL GRASS CONTROL				
	IN ESTABLISHED ALFALFA AND MINT WITH TAPOUT®			
GRASS SPECIES WEED SPECIES APPLICATION RATES AND SIZE				
Annual & Perennial Grasses Listed in Grass Tables See Tables See Table 1, CROP SPECIFIC USE DIRECTIONS, RESTRICTION AND LIMITATIONS FOR TAPOUT®				

Mowing: The best control of annual grasses can be achieved by applying TAPOUT® 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 TAPOUT® for partial or complete control.

Irrigated Alfalfa and Mint: Irrigation practices can be very critical to the successful use of TAPOUT® in established alfalfa and mint and may be necessary to initiate active growth of the weeds prior to application. Generally applications 2 to 4 days after 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 TAPOUT® in a minimum of 10 GPA in established alfalfa and mint when applying by air.

Annual Grass Control: Apply TAPOUT® at the grass sizes indicated in the Recommendation for Annual Grass Table and rates indicated. If a grass has been cut, apply TAPOUT® 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 TAPOUT® 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 general 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 may be less effective due to environmental conditions, such as frost, slower plant growth or the onset of flowering.

^{**}Length of lateral growth.

⁽¹⁾ Rates higher than 16 fl. oz./A may 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 16 to 32 fl. oz./A may be applied. DO NOT apply more than 16 fl. oz./A of TAPOUT® per application to the following crops: garden beets, broccoli, cabbage, carrot, cauliflower (and other head and stem brassica vegetables), celery, cranberry, cucurbits, flax, fruiting vegetables (except tomato), green onion, leaf lettuce, radish (and other root vegetables), rhubarb (and other leaf petioles), strawberry and non-bearing food crops. DO NOT apply more than 12 fl. oz./A of TAPOUT® per application to canola or mustard seed.

⁽²⁾ 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 TAPOUT® use rate for control is 12 fl. oz./A.

Perennial Grass Control: TAPOUT® 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.

DIRECTIONS FOR REDUCED RATE USE TO CONTROL SMALL ANNUAL GRASSES, CANOLA, FLAX, LEGUME VEGETABLES (DRY AND SUCCULENT), MUSTARD SEED, SOYBEAN, SUGARBEET AND SUNFLOWER (REDUCED RATE RECOMMENDATIONS 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 may 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.

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT (inches)	RATE FL. OZ/ACRE ⁽¹⁾
Barnyardgrass	Echinochloa crus-galli	1 to 4	6
Broadleaf Signalgrass	Brachiaria platyphylla	1 to 4	8
Crabgrass			
Large	Digitaria sanguinalis	1 to 3*	6
Large	Digitaria sanguinalis	1 to 4*	8
Smooth	Digitaris ischaemum	1 to 3*	6
Smooth	Digitaris ischaemum	1 to 4*	8
Southern	Digitaris char	1 to 4*	8
Fall Panicum	Panicum dichotomiflorum	1 to 4	6
Foxtail			
Giant	Setaria faberi	1 to 4	6
Green	Setaria virdis	1 to 4	6
Millet	Setaria italica	1 to 4	6
Yellow	Setaria glauca	1 to 4	6
Seedling Johnsongrass	Sorghum halepense	1 to 6	8
Shattercane	Sorghum bicolor	4 to 10	6
Texas Panicum	Panicum texanum	1 to 4	8
Volunteer Cereals			
Barley	Hordeum vulgare	1 to 4	8
Oats	Avena sativa	1 to 4	8
Wheat	Triticum asetivum	1 to 4	8
Volunteer Corn**	Zea mays	4 to 12	6
Wild Proso Millet	Panicum miliaceum	1 to 6	6
Wild Oats	Avenua tatua	1 to 4	8

^{*}Length of lateral growth.

DIRECTIONS FOR PERENNIAL GRASSES (ALL CROPS)

- 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 exceed the maximum per application rate listed in Table 1, CROP SPECIFIC USE DIRECTIONS, RESTRICTIONS AND LIMITATIONS FOR TAPOUT®.

		APPLICATION RATES		
GRASS SPECIES	WEED HEIGHT (inches)	MINIMUM RATE	MAXIMUM RATE	
		FI. Oz./A	FI. Oz./A	
Bermudagrass (Cynodon dactylon)				

^{**}Not S.R. Corn

⁽¹⁾ Always add a non-ionic surfactant at 0.25% v/v total spray volume unless crop specific restrictions and limitations advise otherwise.

First Application	3 (or up to 6" runners)	12	32
Repeat Application(s) (if regrowth occurs)	3 (or up to 6" runners)	12	32
Fescue, Tall (Festuca arundinacea)			
First Application	4 to 8	12	32
Repeat Application(s) (if regrowth occurs)	4 to 8	12	32
Foxtail Barley (Hordeum jubatum)			
First Application	2 to 6	12	32
Repeat Application(s) (if regrowth occurs)	2 to 6	12	32
Orchardgrass (Dactylis glomerata)			
First Application	4 to 8	12	32
Repeat Application(s) (if regrowth occurs)	4 to 8	12	32
Quackgrass (Elytrigia repens)			
First Application	4 to 12	12	32
Repeat Application(s) (if regrowth occurs)	4 to 12	12	32
Rhizome Johnsongrass (Sorghum halepense)			
First Application	12 to 24	12	32
Repeat Application(s) (if regrowth occurs)	6 to 18	12	32
Wirestem Muhly (Muhlenbergia frondosa)			
First Application	4 to 8	12	32
Repeat Application(s) (if regrowth occurs)	4 to 8	9	24
Perennial Bluegrass			
[Roughstalk (Poa trivialis)]			
[Kentucky (Poa prantensis)]			
First Application	2 to 4	12	32
Repeat Application(s) (if regrowth occurs)	2 to 4	12	32
Bentgrass (Agrostis spp.)			
First Application	2 to 4	-	32
Repeat Application(s) (if regrowth occurs)	2 to 4	-	32

DIRECTIONS FOR ANNUAL BLUEGRASS CONTROL WITH TAPOUT®					
(ALL CROPS)					
GRASS SPECIES WEED STAGE APPLICATION RATES					
Annual Bluegrass (Poa annua)	to 4-leaf	MINIMUM RATE FI. Oz./A	Maximum rate FI. Oz./A		
Allilual bluegrass (Foa allilua)	to 4-leal	12*	**		

Apply under favorable soil moisture and humidity, which exists within a few days after rainfall or within 7 days after irrigation. Grass needs to be actively growing at time of application(s).

Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.

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

See Table 1 for crop specific adjuvant recommendations.

*Use a minimum of 17 fl. oz./A to control annual bluegrass in seedling and established alfalfa and mint.

**See Special Use Instructions and Restrictions in Table 1, CROP SPECIFIC USE DIRECTIONS, RESTRICTIONS AND LIMITATIONS FOR TAPOUT®, for maximum application rates.

DIRECTIONS FOR USE IN ROUNDUP READY FIELD CORN (BURNDOWN)

(Not for Use in California and New York)

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

GRASS SPECIES	WEED SIZE	APPLICATION RATES		
GRASS SPECIES	(inches)	Rate when applied alone or with glyphosate		
Field Corn	Up to 12	6 fl. oz./A		
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	, , , , , , , , , , , , , , , , , , , ,			

lant no sooner than 6 days after application.

Adjuvant recommendations: NIS at 0.25% v/v plus AMS at 2.5 to 4 lbs./A.

Restriction: Do not use a COC or MSO with TAPOUT® in this use pattern.

TANK MIXES PRODUCT INFORMATION

The labels for each of the herbicides listed for tank mixing with TAPOUT® are unique to the characteristics of those products and contain restrictions and limitations that may be more restrictive than the TAPOUT® label in certain considerations. Those concerns may 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 TAPOUT® 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 may 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 TAPOUT®, as specified in the respective size and rate tables.
- Do not tank mix TAPOUT® 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 TAPOUT®. Agitation should create a rippling or rolling action on the water surface.
- 3. If tank mixing TAPOUT® 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 operation.
- 4. Add any required adjuvants (crop oil concentrate, non-ionic surfactant and/or nitrogen solution).
- 5. Fill spray tank to desired level with water. Agitation should continue until all spray solution has been applied.

Failure to agitate the spray solution may result in improper mixing of the herbicides and unsatisfactory weed control. Mixing and compatibility qualities should be verified by a jar test.

INFORMATION ON ANTAGONISM

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

ALFALFA Table 2. TAPOUT® TANK MIXES WITH BROADLEAF HERBICIDES FOR ALFALFA

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

	APPLICATION RATES/ACRE ⁽²⁾		SPRAY ADDITIVES			
PRODUCT ⁽¹⁾	ANNUAL PERENNIAL		GROUND APPLICATION		AIR APPLICATION	
PRODUCT	GRASSES	GRASSES	Adjuvant Recommendation	AMS	Adjuvant Recommendation	AMS
TAPOUT® + 2,4-DB ⁽³⁾	12 to 32 fl. oz. Refer to 2,4-DB label	16 to 32 fl. oz. Refer to 2,4-DB label	NIS at 0.25% v/v	AMS at 2.5 lbs./A	NIS at 0.25% v/v	17 lbs./100 gals. of spray solution
TAPOUT® +	12 to 32 fl. oz. +	-	NIS at 0.25% v/v	AMS at 2.5 lbs./A	NIS at 0.25% v/v	17 lbs./100 gals. of spray

PURSUIT® DG ⁽⁴⁾ or PURSUIT ⁽⁴⁾	1.08 to 2.16 oz. or 3 to 6 fl. oz.					solution
TAPOUT® + BUCTRIL® 2L ⁽⁵⁾ or BUCTRIL GEL ^(5,6)	12 to 32 fl. oz. + 1.0 to 1.5 pts. or 0.5 to 0.75 pt.	-	NIS at 0.25% v/v	AMS at 2.5 lbs./A	NIS at 0.25% v/v	17 lbs./100 gals. of spray solution
TAPOUT® + RAPTOR®	12 to 32 fl. oz. + 4 to 6 fl. oz.	-	NIS at 0.25% v/v	AMS at 2.5 lbs./A	NIS at 0.25% v/v	17 lbs./100 gals. of spray solution

- (1) Broadleaf weed control maybe reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not specified in these situations.
- (2) If grass regrowth occurs or an additional flush of new grass emerges, make a second application of TAPOUT® alone (without a tank mix herbicide), according to the appropriate size and rate recommendations.
- (3) TAPOUT® plus 2,4-DB may increase the severity of crop injury when tank mixed. Alfalfa plants will generally outgrow this temporary crop injury within a few weeks.
- (4) 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.
- (5) 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 TAPOUT® plus BUCTRIL or BUCTRIL GEL 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 may occur to alfalfa seedlings less than the 2 trifoliate leaf stage. TAPOUT® plus BUCTRIL or BUCTRIL GEL 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 leafburn, unacceptable crop injury may occur to alfalfa in the 2 trifoliate or smaller stage of growth. TAPOUT® plus BUCTRIL or BUCTRIL GEL applications made when temperatures are expected to exceed 70°F at and 3 days following application can result in unacceptable crop injury. Crop leaf bum can occur following TAPOUT® plus BUCTRIL or BUCTRIL GEL application. Warm, humid conditions may enhance leaf bum. New crop growth will not be affected.
- (6) Do not apply when alfalfa is under moisture, temperature, insect or disease stress or has been stressed by other pesticide carryover or application.
- (7) Always use a CPDA Certified Adjuvant when possible.

CANOLA (Not for Use in California)

Table 3. REDUCED RATE TAPOUT® TANK MIXES WITH BROADLEAF HERBICIDES FOR CANOLA

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

PDODUCT	APPLICATION RATES/ACRE	ADJUVANT	AMMONIUM SULFATE		
PRODUCT	ANNUAL GRASSES ⁽¹⁾	RECOMMENDATIONS	GROUND	AIR	
TAPOUT®(2)	8 to 10 fl.				
+	+				
LIBERTY®(3)	28 to 34 fl. oz.	NIS at 0.25% v/v	2 lba /A	2 lba /A	
TAPOUT®	8 to 10 fl. oz.	NIS at 0.25% V/V	3 lbs./A 3 lbs./A	3 IDS./A	
+					
STINGER®(4)	0.33 pts./A				

- (1) Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE TO CONTROL SMALL ANNUAL GRASSES table.
- (2) Do not apply TAPOUT® tank mix during or after bolting or flowering or crop injury will occur.
- (3) For use only on LIBERTY LINK® Canola.
- (4) See STINGER label for weeds controlled.
- (5) Always use a CPDA Certified Adjuvant when possible.

COTTON

Table 4. TAPOUT® TANK MIXED WITH COBRA AND MSMA APPLIED POST DIRECTED TO COTTON

PRODUCT (1)	APPLICATION RATES/ACRE(2)		CROP OIL CONCENTRATE ⁽³⁾	COMMENTS	
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND		
TAPOUT®	12 to 16 fl. oz.	16 to 32 fl. oz.	1%	Reduce broadcast rate in	
+	See COBRA label for rates to	proportion to the band			
COBRA	Refer to the TAPOUT® label	area actually treated.			

+ MSMA (4 lbs./gal.)	See MSMA label for rates to control broadleaf weeds and height limitations for cotton. Refer to the TAPOUT® label for weed height and species controlled.	
or		
MSMA		
(6.6 lbs./gal.)		

⁽¹⁾ Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not specified in these situations.

Table 5. TAPOUT® TANK MIXED WITH GLYPHOSATE TO CONTROL EMERGED GRASSES IN COTTON AS A BROADCAST APPLICATION

	APPLICATION	RATE/ACRE(1)	ADJU	IVANT	
PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	Glyphosate formulation with built-in adjuvant	Glyphosate formulation without built-in adjuvant	COMMENTS
TAPOUT®	9 to 16 fl. oz.	12 to 32 fl. oz.	Ammonium sulfate at	Ammonium sulfate at	See charts for
+	See glyphosate label for	r rates to control	8.5 to 17 lbs. per 100	8.5 to 17 lbs. per 100	grasses controlled.
GLYPHOSATE	broadleaf weeds and he	eight limitations for	gals. of carrier plus	gals. of carrier plus	
	cotton.		glyphosate label	NIS at 0.25% v/v.	Use a minimum of 10
			adjuvant		gals. of spray solution
			recommendation.		per acre.

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

DRY AND SUCCULENT SHELLED BEANS

Table 6. TAPOUT® TANK MIXES WITH BROADLEAF HERBICIDES FOR DRY AND SUCCULENT SHELLED BEANS

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

PRODUCT ⁽¹⁾	APPLICATION	RATES/ACRE ⁽²⁾	ADJUVANT ⁽⁴⁾		
PRODUCTO	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR	
TAPOUT®	9 to 12 fl. oz.	12 to 24 fl. oz.	COC at 1% v/v	COC at 1% v/v	
+	+	+	+	+	
BASAGRAN®(3)	1 to 2 pts.	1 to 2 pts.	AMS at 2.5 lbs./A	AMS at 17	
		·		lbs./100 gal. v/v	
TAPOUT®	9 to 12 fl. oz.	-	NIS at 0.25%	NIS at 0.25%	
+	+		v/v	v/v	
RAPTOR(3)	4 fl. oz.		+	+	
			AMS at 2.5 lbs./A	AMS at 17 lbs./100 gal.	

⁽¹⁾ Broadleaf weed control may be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not specified in these situations.

FLAX (Not for Use in California)

Table 7. REDUCED RATE TAPOUT® TANK MIXES WITH BROADLEAF HERBICIDES FOR FLAX

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

DDODUCT	APPLICATION RATES/ACRE	ADJUVANT		
PRODUCT	ANNUAL GRASSES(1)	GROUND	AIR	
TAPOUT®	6 to 9 fl. oz.	AMS at 2.4 to 4.0 lbs./A	AMS at 2.5 to 4.0 lbs./A	
+	+	+	AIVIS at 2.3 to 4.0 lbs./A	
BRONATE ADVANCED™ (2,3)	11.4 fl. oz.	NIS at 0.125% v/v		

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

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

⁽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 may result and a second (non-post directed) application of TAPOUT® may be necessary.

⁽⁵⁾ Always use a CPDA Certified Adjuvant when possible.

⁽²⁾ Always use a CPDA Certified Adjuvant when possible.

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

⁽³⁾ Always read and follow label directions for all tank mix products before using. The most restrictive labeling of any tank mix product must be followed.

⁽⁴⁾ Always use a CPDA Certified Adjuvant when possible.

TAPOUT®	6 to 9 fl. oz.	AMS at 2.4 to 4.0 lbs./A	AMS at 2.5 to 4.0 lbs./A
+	+	+	AWO & 2.3 to 4.0 lbs./A
BRONATE®(2,3)	0.9 pt.	NIS at 0.125% v/v	
TAPOUT®	6 to 9 fl. oz.	AMS at 2.4 to 4.0 lbs./A	
+	+	+	AMS at 2.5 to 4.0 lbs./A
BUCTRIL(2,3)	0.125 lb. a.i./A	NIS at 0.125% v/v	
TAPOUT®	8 to 10 fl. oz.	AMS at 2.4 to 4.0 lbs./A	
+	+	+	AMS at 2.5 to 4.0 lbs./A
MCPA23	0.25 to 0.5 pt.	NIS at 0.125% v/v	
TAPOUT®	6 to 9 fl. oz.	AMS at 2.4 to 4.0 lbs./A	
+	+	+	AMS at 2.5 to 4.0 lbs./A
CURTAIL® M(2,3)	1.33 to 1.75 pt./A	NIS at 0.125% v/v	

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

PEANUT Table 8. TAPOUT® TANK MIXES WITH BROADLEAF HERBICIDES FOR PEANUT (Refer to the recommendation tables above for specific grasses and growth stages.

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PRODUCT ⁽¹⁾	APPLICATION RATES/ACRE(2)	ADJUVANT RECOMMENDATIONS				
PRODUCTO	ANNUAL GRASSES	GROUND	AIR			
TAPOUT®	9 to 16 fl. oz.	COC at 1% v/v	COC at 1% v/v			
+	+	+	+			
BASAGRAN	1 to 2 pts.	AMS at 2.5 lbs./A	AMS at 17 lbs./100 gals.			
TAPOUT®	9 to 16 fl. oz.	COC at 1% v/v	COC at 1% v/v			
+	+	+	+			
ULTRA BLAZER®	0.5 to 1.5 pts.	AMS at 2.5 lbs./A	AMS at 17 lbs./100 gals.			
TAPOUT®	9 to 16 fl. oz.	COC at 1% v/v	COC at 1% v/v			
+	+	+	+			
STORM®	1.5 pts.	AMS at 2.5 lbs./A	AMS at 17 lbs./100 gals.			

⁽¹⁾ Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not specified in these situations.

DIRECTIONS FOR GRASS SUPPRESSION FOR HARVEST EFFICIENCY IN PEANUT WITH TAPOUT®

	APPLICATION RATES				
GRASS SPECIES	WEED STAGE	MINIMUM RATE	MAXIMUM RATE		
		Fl. Oz./A	Fl. Oz./A		
Annual and perennial grasses that exceed height claimed for control on height charts "RECOMMENDATIONS FOR ANNUAL GRASSES" and "RECOMMENDATIONS FOR PERENNIAL GRASSES"	Up to and including grasses in the seed-head stage	32	64		

- Do not apply as part of a tank mix when applying TAPOUT® for grass suppression.
- Add a crop oil concentrate at 1 gal. /A by ground to the finished spray volume.
- Always use a CPDA Certified Adjuvant when possible.

⁽²⁾ Do not apply TAPOUT® tank mix during or after the bud stage or to ornamental flax or crop injury may occur.

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

⁽⁴⁾ Always use a CPDA Certified Adjuvant when possible.

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

⁽³⁾ Always use a CPDA Certified Adjuvant when possible.

SOYBEAN

Table 9. TAPOUT® TANK MIX WITH BROADLEAF HERBICIDES FOR THE CONTROL OF VOLUNTEER CORN (INCLUDING ROUNDUP READY) IN SOYBEAN

(Refer to the recommendation tables above for specific volunteer corn sizes and use rates.)

		O APPLICATION TES		SPRAY A	DDITIVES		
PRODUCT	VOLUNTEER TAPOUT®		GROUND AI	GROUND APPLICATION		AIR APPLICATION	
	CORN HEIGHT (inches)	RATES/ACRE	NIS	AMS	NIS	AMS	
TAPOUT® + glyphosate(1,2,3) 1 to 3 lbs. a.i./A (ROUNDUP READY soybeans only)	Up to 12 Up to 24 Up to 36	6 fl. oz. 9 fl. oz. 12 fl. oz.	Adjuvant Loaded Glyphosate: None Required Adjuvant Unloaded Glyphosate: NIS at 0.25% v/v	8.5 to 17 lbs./100 gals. of spray solution	Adjuvant Loaded Glyphosate: None Required Adjuvant Unloaded Glyphosate: NIS at 0.25% v/v	8.5 to 17 lbs./100 gals. of spray solution	
TAPOUT® + FIRSTRATE® 0.3 oz./A	Up to 12 Up to 24 Up to 36	6 fl. oz. 9 fl. oz. 12 fl. oz.	NIS at 0.25% v/v	AMS at 2.5 lbs./A	NIS at 0.25% v/v	17 lbs./100 gals. of spray solution	
TAPOUT® + PURSUIT 70 DG 1.44 oz./A	Up to 12 Up to 24 Up to 36	6 fl. oz. 9 fl. oz. 12 fl. oz.	NIS at 0.25% v/v	AMS at 2.5 lbs./A	NIS at V 0.25% v/v	17 lbs./100 gals. of spray solution	
TAPOUT® + RAPTOR 4 to 5 fl. oz./A	Up to 12 Up to 24 Up to 36	6 fl. oz. 9 fl. oz. 12 fl. oz.	NIS at 0.25% v/v	AMS at 2.5 lbs./A	NIS at 0.25% v/v	17 lbs./100 gals. of spray solutions	

⁽¹⁾ This tank mix may be applied postemergence to ROUNDUP Ready soybeans up through the full flowering stage. Do not apply less than 60 days before harvest.
(2) 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 plant

injury or death will result.

(4) Always use a CPDA Certified Adjuvant when possible.

Table 10. TAPOUT® TANK MIXES WITH BROADLEAF HERBICIDES FOR SOYBEAN (Refer to the recommendation tables above for specific grasses and growth stages.)

PRODUCT	APPLICATION RATES/ACRE ⁽²⁾	YPRAY ADDITIVE RECOMMENDATIONS			
PRODUCT	ANNUAL	GROUND APP	LICATION	AIR APPI	LICATION
	GRASSES(3)	COC/NIS(4)	AMS	COC/NIS(4)	AMS
TAPOUT® + COBRA	9 to 20 fl. oz. + 6 to 12 fl. oz.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1 to 2 pts./A	AMS at 2.5 lbs./A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC 1% v/v (but not less than 1 pt./A)	17 lbs./l00 gals. of spray solution
TAPOUT® + FIRSTRATE ⁽⁵⁾	9 to 20 fl. oz. + 0.3 oz.	NIS at 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs./A	NIS at 0.25% v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution
TAPOUT® +	9 to 20 fl. oz. +	NIS at 0.25% v/v plus COC at	AMS at 2.5 lbs./A	NIS at 0.25% plus COC at	17 lbs./100 gals. of spray solution

⁽³⁾ Do not allow the TAPOUT® plus glyphosate 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 wilt result in fine particles (mist) that are likely to drift.

FLEXSTAR® HL ⁽⁵⁾	Refer to the FLEXSTAR HL label for specific	0.25% v/v or COC at 1 to 2 pts./A		0.25% v/v or COC at 1% v/v	
	application rates.			(but not less than 1 pt./A)	
TAPOUT®	9 to 20 fl. oz. +	NIS at 0.25% v/v		NIS at 0.25% v/v or	17 lbs./100 gals. of
+ FRONTROW™(5)	Refer to FRONTROW label for use rates	or COC at 1 pt./A	AMS at 2.5 lbs./A	COC at 1% v/v (but not less than 1 pt./A)	spray solution
TAPOUT® +	9 to 12 fl. oz. +	NIS at 0.125 to 0.25% v/v	AMS at 2.5 lbs./A		
Harmony® GT XP ⁽⁵⁾	0.042 to 0.083 oz.			NIS at 0.25% plus	
TAPOUT® + PHOENIX™	9 to 20 fl. oz. +	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v	AMS at 2.5 lbs./A	COC at 0.25% v/v or	17 lbs./100 gals. of spray solution
	6 to 12.5 fl. oz.	or COC at 1 pt./A		COC at 1% v/v (but not less than 1 pt./A)	opray column
TAPOUT®	12 to 20 fl. oz.	NIS at 0.25% v/v		NIS at 0.25% v/v or	17 lbs./100 gals. of
PURSUIT 70 DG ⁽⁵⁾	+ 1.44 oz.	or COC at 1 pt./A	AMS at 2.5 lbs./A	COC at 1% v/v (but not less than 1 pt./A)	spray solution
TAPOUT®	12 to 20 fl. oz.	NIS at 0.25% v/v		NIS at 0.25% v/v or	17 lbs./100 gals. of
RAPTOR(1 AS) ⁽⁵⁾	+ 4 to 5 fl. oz.	or COC at 1 pt./A	AMS at 2.5 lbs./A	COC at 1% v/v (but not less than 1 pt./A)	spray solution
TAPOUT®	9 to 20 fl. oz.	NIS at 0.25% v/v plus COC at			
RESOURCE®	4 to 12 fl. oz.	0.25% v/v or COC at 1 to 2 pts./A	AMS at 2.5 lbs./A	-	-
TAPOUT®	9 to 20 fl. oz.	NIS at 0.25%		NIS at 0.25% v/v plus COC at	
+ COBRA	6 to 12.5 fl. oz.	v/v plus COC at 0.25% v/v	AMS at 2.5 lbs./A	0.25% v/v or	17 lbs./100 gals. of spray solution
FIRSTRATE(5)	0.3 oz.	or COC at 1 to 2 pts./A		COC at 1% v/v (but not less than 1 pt./A)	opray collaion
TAPOUT® +	9 to 12 fl. oz.	NIS at 0.125 to			
COBRA +	6 to 8 fl. oz.	0.25% v/v plus COC at 0.125%	AMS at 2.5 lbs./A	-	-
HARMONY GT XP(5)	0.042. oz.	v/v		NIS at 0.25% v/v	
TAPOUT®	12 to 20 fl. oz.	NIS at 0.25% v/v plus COC at		plus COC at 0.25% v/v	
COBRA	6 to 12.5 fl. oz.	0.25% v/v or	AMS at 2.5 lbs./A	or COC at 1% v/v	17 lbs./100 gals. of spray solution
PURSUIT 70 DG(5)	1.44 oz.	COC at 1 to 2 pts./A		(but not less than 1 pt./A)	
TAPOUT® + COBRA +	12 to 20 fl. oz. + 6 to 12.5 fl. oz. +	NIS at 0.25% v/v plus COC at 0.25% v/v or	AMS at 2.5 lbs./A	NIS at 0.25% v/v plus COC at 0.25% v/v or	17 lbs./100 gals. of spray solution

RAPTOR (1 AS)(5)	4 to 5 fl. oz.	COC at 1 to 2		COC at 1% v/v	
RAPTOR (TAS)	4 (0 5 11. 02.	pts./A		(but not less than 1 pt./A)	
TAPOUT®	9 to 20 fl. oz.	NIS at 0.25%		,	
COBRA	+ 6 to 12.5 fl. oz.	v/v plus COC at 0.25% v/v	AMS at 2.5 lbs./A	-	-
+ RESOURCE	4 to 6 fl. oz.	or COC at I to 2 pts./A			
NEGOTIOL	9 to 20 fl. oz.	NIS at 0.25%			
TAPOUT® +	+ 0.3 oz.	v/v plus COC at 0.25% v/v or		NIS at 0.25% v/v plus COC at 0.25% v/v	17 lbs./100 gals. of
FIRSTRATE	Refer to the	Equivalent	AMS at 2.5 lbs./A	or	spray solution
+ FLEXSTAR HL ⁽⁵⁾	FLEXSTAR HL label	blended product		COC at 1% v/v (but not less than	
FLEXSTAR FIL®	for specific	or	————————————————————————————————————	1 pt./A)	
	application rates.	COC at 1 to 2 pts./A			
TAPOUT® +	12 to 20 fl. oz.	NIS at 0.25% v/v plus COC at		NIS at 0.25% v/v plus COC at 0.25% v/v	
PHOENIX	6 to 12.5 fl. oz.	0.125 to 0.25%	AMS at 2.5 lbs./A	or	17 lbs./100 gals. of
+	+	v/v or		COC at 1% v/v	spray solution
FIRSTRATE(5)	0.3 oz.	COC at 1 pt./A		(but not less than	
				1 pt./A) NIS at 0.25% v/v	
TAPOUT®	16 to 20 fl. oz.	NIS at 0.25% v/v plus COC		plus COC at 0.25%	
+	+	at 0.125 to		V/V	17 lbs /100 male of
PHOENIX	6 to 12.5 fl. oz.	0.25% v/v	AMS at 2.5 lbs./A	or	17 lbs./100 gals. of spray solution
+	+	or		COC at 1% v/v	Spray Solution
PURSUIT 70 DG(5)	1.44 oz.	COC at 1 pt./A		(but not less than 1 pt./A)	
				NIS at 0.25% v/v	
TAPOUT®	12 to 20 fl. oz.	NIS at 0.25%		plus COC at	
+	+	v/v plus COC at		0.25% v/v	17 lbs./100 gals. of
PHOENIX	6 to 12.5 fl. oz.	0.125 to 0.25% v/v	AMS at 2.5 lbs./A	or	spray solution
RAPTOR(1 AS) ⁽⁵⁾	4 to 5 fl. oz.	or COC at 1 pt./A		COC at % v/v (but not less than	, ,
TAI TOR(TAO)	4 to 5 ii. 62.	000 at 1 pt.//A		1 pt./A)	
TAPOUT®	9 to 20 fl. oz.	NIS at 0.25%		, ,	
+	+	v/v plus COC at			
PHOENIX	6 to 12.5 fl. oz.	0.125 to 0.25% v/v	AMS at 2.5 lbs./A	-	-
+	+	or			
RESOURCE	4 to 6 fl. oz.	COC at 1 pt./A			
TAPOUT®	12 to 20 fl. oz.	NIS at 0.25%			
†	+	v/v plus COC at			
RESOURCE	4 fl. oz.	0.25% v/v or	AMS at 2.5 lbs./A	-	
+	+	COC at 1 to 2			
PURSUIT 70 DG(5)	1.44 oz.	pts./A			
TAPOUT®	12 to 20 fl. oz.	NIS at 0.25%		NIS at 0.25% v/v	
+ SYNCHRONY® STS(5)	+ 0.25 oz.	v/v	AMS at 2.5 lbs./A	or COC at 1% v/v	17 lbs./100 gals. of
or	0.25 02. Or	or	AIVIO at 2.0 IDS./A	(but not less than	spray solution
SYNCHRONY XP (mp)(5)	0.375 oz.	COC at 1 pt./A		1 pt./A)	
TAPOUT®	12 to 20 fl. oz.	NIS at 0.25%		NIS at 0.25% v/v	
+	+	v/v or	AMS at 2.5 lbs./A	or	17 lbs./100 gals. of
SYNCHRONY STS(5)	0.5 oz.	COC at 1 pt./A		COC at 1% v/v (but not less than	spray solution
or	or	<u> </u>		(מענ ווטנ ופסט נוומוו	

SYNCHRONY XP (mp) ⁽⁵⁾	0.75 oz.			1 pt./A)	
(STS Soybeans Only)					
TAPOUT®	9 to 12 fl. oz.	NUO 100501			
+	+	NIS at 0.25%			
COBRA	6 to 12.5 fl. oz.	v/v plus COC at	AAAO 40511 /A		
+	+	0.25% v/v	AMS at 2.5 lbs./A	-	-
RESOURCE	4 to 6 fl. oz.	OC -+ 1 +- 0+- /A			
+ FIRSTRATE(5)	+ 0.3 oz.	COC at 1 to 2 pts./A			
TAPOUT®	12 to 20 fl. oz.			NIS at 0.25% v/v	
TAPOOT	12 (0 20 11. 02.			plus COC at	
COBRA	6 to 12 fl. oz.	NIS at 0.25%		0.25% v/v	
+	0 to 12 ii. 02.	v/v plus COC at 0.25% v/v	AMS at 2.5 lbs./A	0.25% V/V	17 lbs./100 gals. of
SYNCHRONY STS(5)	0.25 oz.	or	AIVIO dt 2.3 103./A	COC at 1% v/v	spray solution
or	0.23 02. Or	COC at it 1 to 2 pts./A		(but not less than	
SYNCHRONY XP (mp) ⁽⁵⁾	0.375 oz.			1 pt./A)	
TAPOUT®					V
+	12 to 20 fl. oz.	NUO 100501		NIS at 0.25% v/v	
COBRA	+	NIS at 0.25%		plus COC at 0.25%	
+	6 to 12 fl. oz.	v/v plus COC at	ANAO 10511 (A	v/v	17 lbs./100 gals. of
SYNCHRONY STS(5)	+ 0	0.25% v/v	AMS at 2.5 lbs./A	or	spray solution
or	0.5 oz.	OC at 1 to 2 mts /A		COC at 1% v/v	' '
SYNCHRONY XP (mp)(5)	or 0.75.a-	COC at 1 to 2 pts./A		(but not less than	
(STS Soybeans Only)	0.75 oz.			1 pt./A)	
TAPOUT®	9 to 20 fl. oz.	NIS at 0.25%			
+	+	v/v plus COC at			
PHOENIX	6 to 12.5 fl. oz.	0.125 to 0.25%			
+	+	V/V	AMS at 2.5 lbs./A	-	-
RESOURCE	4 to 6 fl. oz.	or			
+	+	COC at 1 pt./A			
FIRSTRATE(5)	0.3 oz.	occur, puint		NIIO 10050/ /	
TAPOUT®	12 to 20 fl. oz.	NIS at 0.25%		NIS at 0.25% v/v	
+ DUOFNIV	+ C+= 10 fl ==	v/v plus COC at		plus COC at 0.25%	
PHOENIX	6 to 12 fl. oz.	0.125 to 0.25%	AMC at 2 F lba /A	v/v	17 lbs./100 gals. of
+ SYNCHRONY STS ⁽⁵⁾	+ 0.25 oz.	v/v	AMS at 2.5 lbs./A	Or COC at 1% v/v (but	spray solution
	0.25 0Z. Or	or		COC at 1% v/v (but not less than 1	
or SYNCHRONY XP (mp) ⁽⁵⁾	0.375	COC at 1 pt./A		pt./A)	
TAPOUT®				• •	
+ +	12 to 20 fl. oz.	NIS at 0.25%		NIS at 0.25% v/v	
PHOENIX	T T	v/v plus COC at		plus COC at 0.25%	
+	6 to 12 fl. oz.				17 lbs./100 gals_of
SYNCHRONY STS(5)	+		AMS at 2.5 lbs./A	or	
SYNCHRONY XP (mp)(5)					
1	U./5 OZ.	·		1 pt./A)	
SYNCHRONY STS(5) or	6 to 12 fl. oz. + 0.5 oz. or 0.75 oz.	0.125 to 0.25% v/v or COC at 1 pt./A	AMS at 2.5 lbs./A	v/v or COC at 1% v/v (but not less than 1 pt./A)	17 lbs./100 gals. of spray solution

⁽¹⁾ Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not specified in these situations.

(2) If grass regrowth occurs or an additional flush of new grass emerges, make a second application of TAPOUT® alone (without a tank mix herbicide), according to

the appropriate size and rate recommendations.

⁽³⁾ Annual grasses and sizes controlled with these tank mixtures are those that are identified in the RECOMMENDATIONS FOR ANNUAL GRASSES table.

⁽⁴⁾ Contact local Helena Chemical Company representative for proper COC/NIS adjuvant selection.

⁽⁵⁾ Refer to FIRSTRATE, FLEXSTAR HL, FRONTROW, HARMONY GT XP, PURSUIT DG, RAPTOR, SYNCHRONY STS and SYNCHRONY XP (mp) for geographic and rotational restrictions.

⁽⁶⁾ Always use a CPDA Certified Adjuvant when possible.

SUGAR BEET

Table 11. TAPOUT® TANK MIXED WITH BROADLEAF SUGAR BEET HERBICIDES

PRODUCTS	APPLICATION RATES/A	ADJUVANT INFORMATION		
TAPOUT®	9 to 12 fl. oz.			
+				
BETAMIX®	See label for rate information.	None required		
or				
BETANEX®	See label for rate information.	None required		
or				
PROGRESS®	See label for rate information.	None required		
and/or				
STINGER	See label for rate information.	See below		
and/or				
UPBEET®	See label for rate information.	See below		
NIS at 0.25% unless BETAMIX, BETANEX or PROGRESS is in the tank, then use no adjuvant.				

Table 12. TAPOUT® PLUS BETANEX OR BETAMIX TANK MIX FOR THREE SEQUENTIAL APPLICATIONS FOR ANNUAL GRASS CONTROL (MICRO RATE APPLICATION)

PRODUCT	APPLICATION RATES/ACRE ⁽¹⁾	GRASSES CONTROLLED	METHYLATE	ED SEED OIL(2)
	ANNUAL GRASSES	(inches)	GROUND	AIR
TAPOUT®	3 to 6 fl. oz.	Green Foxtail(1 to 2)	1.5% v/v	1.5% v/v
+	+	Yellow Foxtail(1 to 2)		
BETANEX	Refer to label	Barnyardgrass ^(1 to 2)		
or		Wild Oat(1 to 2)		
BETAMIX	Refer to label	Volunteer Cereals(1 to 2)		
or				
PROGRESS	Refer to label			
or				
STINGER	Refer to label			
or				
UPBEET	Refer to label			

⁽¹⁾ Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not specified in these situations.

Directions for Use for Micro-Rate Applications to Sugar Beet

Multiple micro-rate applications of TAPOUT® in tank mixtures with reduced rates of BETANEX or BETAMIX and methylated seed oils may be applied by air or ground equipment to sugar beet to control early germinating annual grasses listed above. All use precautions and restrictions on the BETANEX and BETAMIX master labels must be followed.

Table 13. TANK MIX APPLICATION OF TAPOUT® AND FUNGICIDES FOR CONTROL OF GRASS WEEDS AND DISEASES IN SUGAR BEET

PRODUCT ⁽¹⁾	APPLICATION	APPLICATION RATES/ACRE(2)	
PRODUCTO	ANNUAL GRASSES	PERENNIAL GRASSES	ADJUVANT
TAPOUT®	9 to 12 fl. oz.	12 to 24 fl. oz.	NIS at 0.25% v/v
+	+	+	
EMINENT®	Refer to label	Refer to label	
TAPOUT®	9 to 12 fl. oz.	12 to 24 fl. oz.	NIS at 0.25% v/v
+	+	+	
HEADLINE®	Refer to label	Refer to label	
TAPOUT®	9 to 12 fl. oz.	12 to 24 fl. oz.	NIS at 0.25% v/v
+	+	+	
GEM™	Refer to label	Refer to label	

⁽¹⁾ Refer to TAPOUT® and fungicide label for rates and weeds and diseases controlled.

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

⁽³⁾ Always use a CPDA Certified Adjuvant when possible.

- (2) If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of TAPOUT® alone (without a tank mix fungicide) according to the appropriate size and rate recommendations.
- (3) Always use a CPDA Certified Adjuvant when possible.

Table 14. TANK MIX APPLICATION OF TAPOUT® AND INSECTICIDES FOR CONTROL OF GRASS WEEDS AND INSECTS IN ALFALFA, COTTON, MINT, PEANUT (INCLUDING PERENNIAL), SOYBEAN AND SUNFLOWER

7.2.7.2.7.4, 00110114	APPLICATION	RATES/ACRE ⁽²⁾	7.1.7.1.1.B GGIII 20112.K			CRO)PS		
PRODUCT ⁽¹⁾	ANNUAL GRASSES	PERENNIAL GRASSES	ADJUVANT RECOMMENDATION	Alfalfa ⁽³⁾	Cotton	Mint ^(3,4)	Peanut	Soybean	Sunflower
TAPOUT®	9 to 12 fl. oz.	12 to 24 fl. oz.	NIS at 0.25% v/v					Χ	Χ
+	+	+	+						
Asana® XL	Refer to Asana XL label	Refer to Asana XL label	AMS at 2.5 lbs./A						
TAPOUT®	9 to 12 fl. oz.	12 to 24 fl. oz.	NIS at 0.25% v/v	X				Χ	
+	+	+	+						
Baythroid®	Refer to Baythroid label	Refer to Baythroid label	AMS at 2.5 lbs./A						
TAPOUT®	9 to 12 fl. oz.	12 to 24 fl. oz.	NIS at 0.25% v/v		Χ		Χ		
+	+	+	+						
Danitol® 2.4 EC	10 2/3 to 16 fl. oz.	10 2/3 to 16 fl. oz.	AMS at 2.5 lbs./A						
TAPOUT®	9 to 12 fl. oz.	12 to 24 fl. oz.	NIS at 0.25% v/v	Χ				Χ	
+	+	+	+						
Dimethoate	Refer to Dimethoate label	Refer to Dimethoate label	AMS at 2.5 lbs./A						
TAPOUT®	9 to 12 fl. oz.	12 to 24 fl. oz.	NIS at 0.25% v/v	Χ				Χ	
+	+	+	+						
Lorsban®	Refer to Lorsban label	Refer to Lorsban label	AMS at 2.5 lbs./A						
TAPOUT®	9 to 12 fl. oz.	12 to 24 fl. oz.			Χ	Χ	Χ	Χ	
+	+	+	NIS at 0.25% v/v						
Orthene® 75 S	0.33 to 1.33 lbs.	0.33 to 1.33 lbs.	+						
or	or	or	AMS at 2.5 lbs./A						
Orthene 97	0.25 to 1 lb.	0.25 to 1 lb.							
TAPOUT®	9 to 12 fl. oz.	12 to 24 fl. oz.	NIS at 0.25% v/v		Χ	Χ	Χ	Χ	
+	+	+	+						
Orthene 90 S	0.25 to 1 lb.	0.25 to 1 lb.	AMS at 2.5 lbs./A						
TAPOUT®	9 to 12 fl. oz.	12 to 24 fl. oz.	NIS at 0.25% v/v	Х		Χ			
+	+	+	+						
Pounce®	Refer to Pounce label	Refer to Pounce label	AMS at 2.5 lbs./A						
TAPOUT®.	9 to 12 fl. oz.	12 to 24 fl. oz.	NIS at 025% v/v			Χ	Χ		
+	T	+	+						
Warrior®	Refer to Warrior label	Refer to Warrior label	AMS at 2.5 lbs./A						

⁽¹⁾ Refer to TAPOUT® and insecticide label for rates and weeds and insects controlled.

FALLOW LAND

DIRECTIONS FOR USE

TAPOUT® may 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 TAPOUT® at 12 to 16 fl. oz./A for annual grasses and 16 to 32 fl. oz./A for perennial grasses. When both grass and broadleaf weeds are the target pest, TAPOUT® may be tank mixed with 2,4-D ester or BANVEL® SGF for broad spectrum control. When both annual and perennial grasses occur in the same field, use a minimum of 16 fl. oz./A TAPOUT® rate.

⁽²⁾ If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of TAPOUT® alone (without a tank mix insecticide) according to the appropriate size arid rate recommendations.

⁽³⁾ Certain insecticides may 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.

⁽⁴⁾ The TAPOUT® rate should be 9 to 12 fl. oz./A for annual grass control in baby mint, minimum of 12 fl. oz./A for annual grass control in established mint and 16 to 32 fl. oz./A for perennial grass control.

⁽⁵⁾ Always use a CPDA Certified Adjuvant when possible.

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 that emerge after the TAPOUT® application will not be controlled, and a second application may be necessary.
- The control of perennial grasses may require more than 1 application in non-tilled areas.
- 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 2 weeks prior to or after the TAPOUT® application.

Table 15. TAPOUT® IN TANK MIXES TO CONTROL ANNUAL AND PERENNIAL GRASSES IN FALLOW LAND

DDODLICT	PRODUCT APPLICATION RATES/ACRE(1)		ADJUVANT RECOMMENDATION		
PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR	
TAPOUT®	12 to 16 fl. oz.	16 to 32 fl. oz.			
TAPOUT®	+	+	NIS at 0.25% v/v or	NIS at 0.25% v/v or	
2.4-D ester	0.5 lb./A	0.5 lb./A	COC at 1%	COC at 1%	
2,4-D estel	or	or	+	+	
BANVEL SGF	See BANVEL SGF	See BANVEL SGF	AMS at 2.5 lbs./A	AMS at 17 lbs./100 gals.	
BAINVEL 3GI	label for rates.	label for rates.			

⁽¹⁾ Refer to TAPOUT® label for weed height and species controll. Review BANVEL SGF and 2,4-D labels for crop restrictions, use rates and weeds controlled.

DIRECTIONS FOR GRASS SUPPRESSION IN NON-CROP AREAS WITH TAPOUT®

		APPLICATI	ON RATES
GRASS SPECIES	WEED STAGE	MINIMUM RATE	MAXIMUM RATE
		FI. Oz/A	FI. Oz./A
Annual and perennial grasses that exceed height claimed for control on height chart above	Up to and including grasses in the seed head stage	24	32

- Do not apply as part of a tank mix when applying TAPOUT® for grass suppression.
- Add a crop oil concentrate at 1 qt./A by ground to the finished spray volume.
- Always use a CPDA Certified Adjuvant when possible.

TABLE 16. TAPOUT® FOR THE CONTROL AND/OR SUPPRESSION OF TALL FESCUE IN NATIVE PRAIRIE WARM-SEASON GRASS RESTORATION PROJECTS

PRODUCT	PRODUCT RATE	GRASS WEEDS CONTROLLED/SUPPRESSED		WEED STAGE	
PRODUCT	PRODUCTRATE	Common Name	Scientific Name	WEED STAGE	
TAPOUT®	12 to 16 fl. oz./A	Tall Fescue	Festuca arundinacea	4 to 6 inches tall	
				(40 to 60% green-up)	

Adjuvant: TAPOUT® must be applied with non-ionic surfactant at 0.25% v/v, plus a spray grade ammonium sulfate at 2.5 to 4 lbs./A. Recommended Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, add TAPOUT®, then add non-ionic surfactant. Always use a CPDA Certified Adjuvant when possible.

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 TAPOUT® 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 2 years. Applications of TAPOUT® to emerged warm-season grasses may cause injury. Do not apply to warm-season grasses grown for seed.

Restriction: Do not graze treated fields or feed treated forage and or hay to livestock.

NOTE: TAPOUT® applications are most effective if applied when average nighttime temperatures are consistently greater than or equal to 47 degrees Fahrenheit.

⁽²⁾ Always use a CPDA Certified Adjuvant when possible.

Table 17. TAPOUT® FOR THE SUPPRESSION OF TALL FESCUE SEED-HEADS IN NON-PRODUCING AGRICULTURAL AREAS

PRODUCT	PRODUCT RATES	SUPPRESSION	APPLICATION TIMING
TAPOUT®	3 to 4 fl. oz./A	Tall Fescue Seed-Heads (Festuca arundinacea)	(50 to 90% Tall Fescue green-up in the spring) or 3 weeks prior to dormancy in the fall.

ADJUVANT: TAPOUT® must be applied with crop oil concentrate at 1 qt./A, plus a spray grade ammonium sulfate at 2.5 to 4 lbs./A.

Recommended Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, add TAPOUT®, then add crop oil concentrate. Note: Use crop oil concentrate at 2 pts./A with fall applications.

SPECIAL APPLICATION INSTRUCTIONS/PRECAUTIONS

- Apply at 50 to 90% tall fescue green-up.
- Use the higher TAPOUT® rate if less tall fescue green matter is present.
- 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, TORDON® 22K, GRAZON® P+D or CROSSBOW® may be added to this tank mix for broadleaf control (see 2,4-D ester label for weeds controlled).

Restrictions:

- Do not mow area for 2 weeks after the TAPOUT® application.
- Do not graze treated fields or feed treated forage and or hay to livestock.

DIRECTIONS FOR USE IN ORNAMENTALS

For ornamental plant uses, TAPOUT® 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

TAPOUT® successfully controls weeds in newly transplanted and established non-grassy ornamentals. Plant tolerance to TAPOUT® 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, it is recommended that the user determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of TAPOUT® has investigated the safety factor to ornamental plants not listed on the label.

The following plants have shown a tolerance for TAPOUT® applications:

ORNAMENTAL TREES

COMMON NAME	SCIENTIFIC NAME
Alder, Red	Alnus rubra
Ash	Fraxinus spp.
Basswood	Tiia 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	Labumum anagyroides
Maples	Acer spp.
Mulberry, White	Morus alba
Oaks	Quercus spp.
Olive, Wild	Elaeagnus angustifolia
Redbud, Eastern	Cercis canadensis
Sweet Gum, American	Liquidambar styraciflua

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 juburan
Mondo Grass, Dwarf	Ophiopogon japonicus
Periwinkle, Lesser	Vinca minor

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	Potentila spp.
Coleus	Coleus spp.
Coralbells	Heuchera san guinea
Cranesbill	Geranium spp.
Dahlia	Dahlia spp.
Daisy, Trailing African	Osteospermum fruticosum
Daylily	Hemerocallis spp.
Dusty Miller	Seneclo 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	Aacorus gramineus
Tickseed	Coreopsis grandiflora
Touch-Me-Not	Impatiens spp.
Verbena	Verbena spp.
Violet	Viola spp.
Yarrow, Common	Achillea millefolium
Zinnia	Zinnia elecans

Zinnia
*Slight foliage or flower speckling has been observed on these species.

SHRUBS

COMMON NAME	SCIENTIFIC NAME
Abelia	Abelia spp.
Anise, Purple	liicium 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 sempetvirens
Camellia, Common	Camellia japonica
Candytuft	Iberis sempeivirens
Cleyera	Cleyera japonica
Coralberry	Ardisia crenata
Crape Myrtle	Lagerstroemia indica
Coyote Brush	Baccharis pilularis
Fig, Creeping	Ficus pumila
Gardenia	Gardenia spp.
Holly	<i>llex</i> spp.
Honeysuckle	Lonicera spp.
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 Phadagadaga	Pyracantha spp.
Rhododendron	Rhododendron spp.
Rose	Rosa spp.
Spirea Siyest Olive	Spiraea bumalda
Sweet Olive	Osmanthus fragrans Viburnum thus
Viburnum Wisteria	
111010110	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 stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

			APPLICATION RATES	
GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT* (inches)	MINIMUM RATE	MAXIMUM RATE
			FI. Oz./A ⁽¹⁾	FI. Oz./A ⁽²⁾
Barnyardgrass	Echinochloa crus-galli	2 to 8	12	32
Broadleaf Signalgrass	Brachiaria platyphylla	2 to 6	12	32
Brome	, ,,			
California	Bromus carinatus	2 to 6	12	32
Cheat	Bromus secalinus	2 to 6	12	32

Downy	Bromus tectorum	2 to 6	12	32
Ripgut	Bromus diandrus	2 to 6	12	32
Canarygrass	Phalaris canariensis	1 to 4	12	32
Crabgrass				
Hairy	Digit aria adscendens	2 to 6**	12	32
Large	Digitaria sanguinalis	2 to 6**	12	32
Smooth	Digitaria ischaemum	2 to 6**	12	32
Southern	Digitaria ciliaris	2 to 6**	12	32
Crowfootgrass	Dactyloctenium aegyptium	2 to 6**	12	32
Fall Panicum	Panicum dichotomiflorum	2 to 8	12	32
Field Sandbur	Cenchrus incertus	2 to 6	12	32
Foxtail	Conormas mostas	2.00	12	02
Giant	Setaria faberi	2 to 12	12	32
Green	Setaria viridis	2 to 8	12	32
Yellow	Setaria glauca	2 to 8	12	32
Goosegrass	Eleusine indica	2 to 6**	12	32
•	Rottboellia cochina	2 to 6	12	32
Itchgrass	Echinochloa colona	2 to 6	12	32 32
Junglerice			12	32 32
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2 to 6		32 32
Rabbitsfootgrass	Polypogon monspeliensis	1 to 4	12	
Red Rice	Oryza sativa	1 to 3	12	32
Ryegrass		0.1.0	40	00
Hardy	Lolium remotum	2 to 6	12	32
Italian	Lolium multiflorum	2 to 6	12	32
Seedling Johnsongrass	Sorghum halepense	4 to 10	12	32
Shattercane	Sorghum bicolor	6 to 18	12	32
Southwestern Cupgrass	Eriochloa gracilis	2 to 6	12	32
Sprangletop				
Amazon	Lepthochloa panicoides	2 to 6	12	32
Bearded	Leptochloa fascicularis	2 to 6	12	32
Mexican	Leptochloa uninervia	2 to 6	12	32
Red	Leptochloa fihiformis	2 to 6	12	32
Texas Panicum	Panicum texanum	2 to 6	12	32
Volunteer Cereals				
Barley	Hordeum vulgare	2 to 6	12	32
Oats	Avena sativa	2 to 6	12	32
Rye	Secale cereale	2 to 6	12	32
Wheat	Trificum aestivum	2 to 6	12	32
Volunteer Corn	Zea mays	4 to 12	12	16
Volunteer Corn	Zea mays	12 to 24	12	32
Volunteer Grain Sorghum	Sorghum bicolor	8 to 12	12	32
Wild Oats	Avena fatua	2 to 6	12	32
Wild Proso Millet	Panicum miliaceum	2 to 10	12	32
Witchgrass	Panicum capilare	2 to 8	12	32
Woolly Cupgrass	Eriochloa villosa	2 to 8	12	32
*Congrally acquire between 2 leef of			12	UZ

^{*}Generally occurs between 3-leaf stage and tillering.
**Length of lateral growth.

Add non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v). Always use a CPDA Certified Adjuvant when possible.

DIRECTIONS FOR ANNUAL BLUEGRASS CONTROL WITH TAPOUT® IN ORNAMENTALS			
		APPLICAT	ION RATES
GRASS SPECIES	WEED STAGE	MINIMUM RATE	MAXIMUM RATE
		FI. Oz./A	FI. Oz./A
Annual Bluegrass (Poa annua)	to 4-leaf	12	32

Apply under favorable soil moisture and humidity that exists within a few days after rainfall or within 7 days after irrigation. Grass needs to be actively growing at time of application(s).

^{(1) 16} fl. oz./A = approximately 0.4 fl. oz./1000 sq. ft. (2) 32 fl. oz./A = approximately 0.8 fl. oz./1000 sq. ft.

Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.

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

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

DIRECTIONS FOR PERENNIAL 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 stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

		APPLICATION	ON RATES
GRASS SPECIES	WEED HEIGHT (inches)	MINIMUM RATE FI. Oz./A ⁽¹⁾	MAXIMUM RATE ⁽²⁾ FI. Oz./A
Bermudagrass (Cynodon dactylon)			
First Application	3 (or up to 6' runners)	12	32
Repeat Application(s) (if regrowth occurs)	3 (or up to 6' runners)	12	32
Foxtail Barley (Hordeum jubatum)			
First Application	2 to 6	12	32
Repeat Application(s) (if regrowth occurs)	2 to 6	12	32
Quackgrass (Elytrigia repens)			
First Application	4 to 8	12	32
Repeat Application(s) (if regrowth occurs)	4 to 8	12	32
Trepeat Application(s) (in regrowth occurs)	4 10 0	12	52
Rhizome Johnsongrass (Sorghum halepense) First			
Application	12 to 24	2	32
Repeat Application(s) (if regrowth occurs)	6 to 18	9	16
Maria de la Maria de Caractería (constante de			
Wirestem Muhly (Muhienbergia frondosa)	4450	40	20
First Application	4 to 8	12	32
Repeat Application(s) (if regrowth occurs)	4 to 8	12	32

^{(1) 16} fl. oz./A = approximately 0.3 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). Always use a CPDA Certified Adjuvant when possible.

IMPORTANT

Plant tolerance to TAPOUT® 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, it is recommended that the user determine if the herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of TAPOUT® have investigated the safety factor to plants not listed on the label.

NON-BEARING FOOD CROPS

TAPOUT® SHOULD NOT BE APPLIED 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 TAPOUT® is improperly applied. TAPOUT® should not be applied directly over the top of these plant types. Instead spray should be directed 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 TAPOUT® application.

Non-bearing truit and flut crops are plants which will not bear truit of fluts for at least one year following TAT OUT * application.		
COMMON NAME	SCIENTIFIC NAME	
Apples	Milus spp.	
Berries	<i>Vaccinium</i> spp.	
	Rubus spp.	
Cherry, Sweet	Prunus avium	
Citrus Fruits	Citrus spp.	
Grapes	<i>Vitis</i> spp.	

^{(2) 32} fl. oz./A = approximately 0.8 fl. oz./1000 sq. ft.

Olives	Olea spp.
Peach	Prunus persica
Pears	Pyrus communis
Prunes	Prunus spp.
Stone Fruits	Prunus spp.
Strawberries	Fragaria spp.
Tree Nuts	
Almond	Prunus triloba
Filbert	Coryluss maxima
Pecan	Carya illiinoinensis
Pistachio	Pistacia vera
Walnut	Juglans spp.

CONIFER TREES

TAPOUT® 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.
Fir, Douglas	Pseudotsuga menziesll
Firs	Abies spp.
Hemlock, Canadian/Eastern	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.

CONDITIONS OF SALE-LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale–Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

- 1. Refund of the purchase price paid by buyer or user for product bought, or
- 2. Replacement of the product used

To the extent consistent with applicable law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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