

GRASSES GROWN FOR SEED WEED CONTROL

Preplant, Preemergence, or Postemergence Herbicides

Herbicide	Rate/Acre	Comments/Restrictions
AIM EC	up to 2 fl oz	POST. Include NIS, MSO, or COC and UAN or AMS ^{1,2} . Notes 3, 4.
ASSURE II	10 fl oz	Quizalofop-tolerant perennial ryegrass only: Apply at boot stage in spring of second year to suppress quackgrass growth and prevent quackgrass seed contamination during ryegrass harvest. See label for additional timing recommendations.
BANVEL/DICAMBA MAX 4	0.5-4 pt	POST. Apply 0.5-1 pt/A to seedling grass after 3-5-lf and up to 2 pt/A to established grass. Do not apply after it begins to joint. PHI lactating dairy: up to 1 pt/A- 7 days grazing, 37 days hay; up to 2 pt/A- 21 days grazing, 51 days hay. PHI 0 days non-lactating animals. Note 3.
BISON	1-2 pt	POST. Supplemental label (exp. date not given): Apply before boot stage to new and established grasses. Notes 3, 5.
BRASH	up to 4 pt	POST. Do not apply after jointing stage. PHI 7 days grazing for lactating dairy, 37 days for hay or silage. Note 3.
CALLISTO/ INCINERATE	3-6 fl oz	PRE or POST. PRE at 6 fl oz/A to newly seeded crop prior to crop or weed emergence. POST at 3-6 fl oz/A. Include NIS or HSOC-COC ¹ plus UAN/AMS. Do not harvest seed for 60 days. PHI grazing or feeding is 14 days after harvest and 74 days after application. 24c OR (exp. 5/2018) Callisto for aerial application to bluegrass, tall fescue and annual/perennial ryegrass grown for seed. 2ee ID, OR, WA (exp. date not given) Callisto for control/suppression of specific weeds in bluegrass, perennial ryegrass and tall fescue grown for seed.
CHARGER BASIC/ DUAL MAGNUM	1-1.33 pt	PRE. ID, OR, and WA only. Apply to established stands just before, during, or immediately following first fall rains or just before or during a late summer or early fall irrigation, but before target grasses emerge. Use 1 pt/A for fine fescue and perennial ryegrass and 1-1.33 pt/A for orchardgrass, bentgrass, tall fescue, and Kentucky bluegrass. PHI 60 or 150 days for grazing, anytime between seed harvest and before next application for hay.
CORNERSTONE PLUS/ TOMAHAWK 4 or CORNERSTONE 5 PLUS/ TOMAHAWK 5	See label + 8.5-17 lb AMS/100 gal ³	PP or PRE to emerged weeds prior to crop emergence. Rate depends on weed species. PHI grazing or feed 8 weeks. ³ Include NIS or WC+NIS ² as needed.
CURTAIL	2-4 pt	POST. Established grass only. Apply to established grass before boot stage. PHI 14 days grazing for dairy, 7 days for hay or forage. Note 3.
CURTAIL M	1.75-3.5 pt	POST. Apply to established grass before boot stage. Potential for grass injury. PHI 7 days for grazing.
DICAMBA MAX 4	SEE BANVEL	
DIMETRIC EXT/ METRICLUDE EXT	0.2-0.75 lb	POST. For WA, WY, MT and parts of OR. Apply to established grasses at least one year old and harvested for seed once. Volunteer grasses should be 1-2 leaf following rainfall or irrigation and before active spring growth. PHI 120 days for seed and 28 days for feed. Use rates depend on grass species and state.
DIREX 4L or KARMEX XP	1.6 qt or 2 lb	PRE. Apply in FALL to established tall fescue on soils with ≥ 1% O.M. Do not apply the same fall fescue was planted. For best results, 0.5-1" rain is needed within 2 weeks of application.
DUAL II MAGNUM	1-1.33 pt	PRE. Apply to established stands for preemergent control of weeds. Use 1 pt on fine fescues and perennial ryegrass. Apply once per crop year. ID, OR, and WA only. See label for forage and grazing restrictions.
DURANGO DMA/ DURAMAX	4-12 fl oz	POST. Supplemental label for Durango DMA and Duramax (exp. date not given): Apply to glyphosate tolerant tall and fine fescues for seed; to new seedlings 6 weeks after germination; to established stands after growth resumes in the fall and in spring after dormancy break; PHI 60 days.
ELEVORE	1 fl oz	PP burndown to actively growing weeds up to 14 days before planting rye grasses. Use with MSO.
ENGENIA	6.4-12.8 fl oz	Apply when weeds are <4" high and rosettes <2" across. Apply to seedling grasses after crop reaches 3- to 5-leaf stage.
EVEREST 2.0	1 fl oz + 1 qt NIS/100 gal	24c OR, (exp. 12/20210) and MN (exp. date not given) for application during year of establishment to Kentucky bluegrass grown for seed only. Do not use in annual bluegrass seed production systems. See label for all restrictions. Note 5.
EXPRESS	0.25-0.5 oz	POST. In ID, OR, or WA, and UT, use 0.25 oz/A for annual ryegrass, orchardgrass, tall fescue and fine fescue after the 4-lf stage. For bentgrass, use 0.25 oz/A after 3-5" stolons. For bluegrass, use 0.25-0.5 oz/A after the 4-lf stage. In MN, use 0.25 oz/A after 4-5-lf timothy (include 0.5 lb 2,4-D), and 0.15-0.375 oz/A after 4-lf bluegrass. For perennial ryegrass, use 0.25 oz/A (0.15 oz/A in MN) after 5-6 lf stage. Use 0.25-0.5 oz/A (0.15-0.375 oz/A in MN) for established stands prior to jointing. Include 2,4-D, dicamba or liquid nitrogen. Supplemental label (exp. date not given) for ID, OR, WA, and UT. Notes 3,4.

SEE NOTES AT END OF SECTION.

¹ Between and Superb HC (COC) and Succeed/Ultra and Destiny HC (MSO) are HSOC adjuvants, generally used at half standard COC or MSO rates.

GRASSES GROWN FOR SEED WEED CONTROL

Preplant, Preemergence, or Postemergence Herbicides (continued)

Herbicide	Rate/Acre	Comments/Restrictions
FACET L	22-32 fl oz	POST-HARVEST. Apply after grass seed harvest and hay removal; before first killing frost. Add 1 pt HSOC-COC ¹ or 0.5-1 pt HSOC-MSO ¹ /A. WC+NIS ² or a UAN can be added for better efficacy. In ID, MT, NV, OR, UT, WA, WY wheat may be planted 6 months after application.
FUSILADE DX	8-16 fl oz	POST. 24c for fine fescues grown for seed use only: ID - fall only (exp. 12/2019); OR (exp. 12/2021); WA (exp. 12/2020). See label for rates and weeds. Apply before seedhead develops in the boot.
GOAL 2XL	8-24 fl oz + 0.5-2 qt NIS/100 gal	POST. ID, OR, WA only. For established Kentucky bluegrass, tall fescue, orchardgrass, bentgrass, and perennial ryegrass. Do not graze. 24c WA (exp. 12/2018) in established perennial grasses grown for seed.
GRAMOXONE SL/SL 2.0	2-4 pt + 1 pt NIS/100 gal	PP and PRE. Prepare the seedbed and allow weeds to germinate. Apply to 3-5 leaf weeds. Note 5.
HI-DEP	1-4 pt	POST. Do not apply from early boot to milk stage. Seedlings after 5-lf stage with 0.75-1 pt. PHI 7 days dairy grazing, 30 days for hay. Note 3.
INCINERATE	SEE CALLISTO	
MCPA AMINE or PHENOXY	1-2 pt	POST. Apply to established grass before the head comes into boot and to seedlings after tillering (after 5-lf for Phenoxy). Note 3.
MOXY	1-2 pt	POST. Apply before boot stage to new and established grasses. Notes 3,5.
OPTIFY	5-12 fl oz	Plant Growth Regulator. At planting: 5 fl oz/A apply with liquid fertilizer. Broadcast, side or top dress: 8-12 fl oz/A. Via irrigation: 8 fl oz/A. Foliar: Apply ≥6 fl oz/A in minimum 5 GPA directly to foliage of actively growing plants. Best results when applied with nutrients. Repeat application ≥7 days. Do not apply >24 oz/A/season.
OUTLOOK	14-21 fl oz	PRE. Established stands of perennial grasses one year old or harvested at least once for seed. Apply in the FALL post-harvest prior to the emergence of weeds in warm and cool-season grasses, during winter dormancy in warm season grasses, or in spring to cool-season grasses. Note 5.
PALISADE 2EC	Single application: 5.5-30.5 fl oz Split application: 2.75-15 fl oz	POST. Plant growth regulator. Apply before or during stem elongation (Feekes 5-8/Zadoks 30-37). For split application, apply 7-10 days after first application. PHI 35 days. Do not graze or feed for 49 days after application. May be applied through irrigation systems.
PASTUREGARD HL	Up to 2 qt	POST. Do not apply until seedlings are well established (tillering- usually 4 true leaves, and development of secondary root system). Do not use from early boot to milk stage. Do not graze lactating dairy. PHI 14 days hay. Note 3.
PROWL H2O	4.2-6.3 pt	PRE. For established Kentucky bluegrass, tall fescue, orchardgrass, perennial ryegrass, bentgrass, fine fescue, or basin wild rye. Apply to grass crop with 6 or more tillers per plant at the beginning of significant fall rain and prior to weed germination. PHI 1 year grazing or hay.
RELY 280	Up to 10 fl oz: fall 16.5-20 fl oz: spring	POST. 24c OR (exp. 12/2020): Weed control in grass grown for seed production (grass tolerance varies, see label); apply in fall, after 1st tiller, not exceeding 10 fl oz/A; for established grass, with a minimum of 4 tillers, use up to 16.5 fl oz/A; do not apply after Dec 1; in spring, use 16.5-20 fl oz/A on 4-6 tiller grass before April 1. Shielded sprayers may be used.
ROUNDUP POWERMAX/ WEATHERMAX	see label + 8.5-17 lb AMS/100 gal ^a	PP or PRE to emerged weeds prior to crop emergence. Rate depends on weed species. PHI grazing or feed 8 weeks. ^a Include WC+NIS ² or Alliance as needed.
SHARPEN	1-2 fl oz + 0.75 pt HSOC-MSO ¹	POST for emerged broadleaf weeds. Apply until 1 week before the boot stage.
SHREDDER E-99	SEE 2,4-D	
SINBAR WDG	0.5-1 lb	POST. Grass must be established for at least one growing season. 1-1.9% OM apply 0.5 lb/A Sinbar in tall fescue. 1.5-1.9% OM apply 0.5-0.75 a.i. lb/A Sinbar to Kentucky bluegrass. Use lower end of rate range on coarse soils.
STARANE NXT	14-27.4 fl oz	POST. Apply to seedling grasses from the 2-leaf crop growth stage up to early boot stage for control of labeled broadleaf weeds. Seedling grasses tolerant include Kentucky bluegrass, fescue, orchardgrass and perennial rye grass. Starane NXT may also be applied to established grasses prior to the early boot stage. Established grasses tolerant include bluegrass, fescue, ryegrass and bermudagrass. Note 5.
STARANE ULTRA	0.3-0.4 pt	POST. Apply to established grasses in the spring when weeds are actively growing and before weeds are 8" tall. New plantings of grass crops may be treated from the 2 true leaf stage of growth prior to early boot stage. Do not apply during boot, flowering, or seed development stage of growth if grass crop is to be harvested for seed. PHI 7 days hay or silage. Note 5.

SEE NOTES AT END OF SECTION.

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GRASSES GROWN FOR SEED WEED CONTROL

Preplant, Preemergence, or Postemergence Herbicides (continued)

Herbicide	Rate/Acre	Comments/Restrictions
STERLING BLUE/ CLARIFIER/CLARITY	0.5-2 pt	POST. Apply 0.5-1 pt to seedling grass after 3-5-lf and up to 2 pt to established grass. Do not apply after it begins to joint. Same PHIs as Banve/Dicamba Max 4l. Note 3.
STINGER	0.25-0.67 pt	POST. Established grass only. Apply to established grasses before the boot stage. Notes 3,4.
SURMOUNT	Up to 3 qt	POST. Do not apply until seedlings are well established (tillering- usually 4 true leaves, and development of secondary root system). Do not use from early boot to milk stage. Dairy: do not graze lactating dairy, PHI 14 days forage. PHI 7 days hay. Note 3.
TARGA	10 fl oz	Quizalofop-tolerant perennial ryegrass only: Apply at boot stage in spring of second year to suppress quackgrass growth and prevent quackgrass seed contamination during ryegrass harvest. See label for additional timing recommendations.
TREFLAN TR-10	20 lb	POST. 24c AZ, CA (exp. 12/2021) for weed control in established bermudagrass.
WIDEMATCH	1-1.33 pt	POST. Supplemental label (exp. date not given): Apply to new grass from 2 true leaf to just before early boot stage and to established grass in the spring from tiller to prior to early boot stage. PHI 7 days for hay or silage, 0 days for grazing. Note 3.
2,4-D AMINE 4 or LV 4 or LV 6 or SHREDDER E-99	1-4 pt 1-3 pt 0.67-2 pt 0.5-2.67 pt	POST. Use 1-1.5 pt Amine 4 or LV 4, 0.67-1 pt LV 6 or 0.5-0.67 pt E-99 on seedling grass. LV 4, LV 6, Amine 4: apply to established grass before the head comes into boot. LV 4, LV 6: apply to seedlings in the spring after tillering (at least 5-lf stage) but before boot stage. Amine 4: apply to seedlings in the spring after at least 5-lf stage but before boot stage. E-99: apply to seedling grass at 5-lf or later, do not apply in the early boot to milk stage. Note 2.

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Note 2: Not labeled in CA.
Note 3: No PHI restrictions.

Note 4: No grazing or forage restrictions.
Note 5: Grazing or foraging is not allowed.

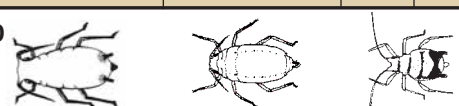



Also, see Pasture section.

GRASSES GROWN FOR SEED INSECT CONTROL

Labeled Insecticides															
INSECT	INSECTICIDE	GRASS FOR SEED													
		Baythroid XL	Besiege	Blackhawk	Brigade 2EC	Declare	Dimate 4E/Dimethoate 4E	Entrust SC	Grizzly Too	Lorsban Advanced	Mustang Maxx	Renounce	Sevin XLR Plus	Warrior II	Yuma
Aphid			●		●	●			●	●				●	
Armyworm		●	●	●	●	●		●	●		●	●	●	●	●
Army Cutworm		●	●	●		●								●	
Billbugs			S		●	●			S ³	●				S	2
Crane fly			●			●			●				●	●	1
Cutworms		●	●		●	●			●	●				●	●
Garden Symphylan															
Grasshopper		●	●		●	●			●		●	●		●	●
Meadow Plant Bug					●	●					●				
Sod Webworm		●	●	●	●				●		●			●	●
Thrips		●	●			●	●		●			●	●	●	●
Winter Grain Mite			●				●								●





S - Suppression.
¹ European crane fly larvae only.
² Adults only.
³ Larvae only.

Insect Treatment Guidelines					
Insecticide	Rate/Acre	PHI	G/F	Comments/Restrictions	
APHID 				Seedling plants are most susceptible to damage. All aphid species can vector barley yellow dwarf virus (BYDV). ET: Treat when heads begin to form during boot stage and aphid populations are 10-20 per stem. ET Bird-cherry oat aphid: Treat when there are more than 10 aphids per 2- to 6-leaf seedling and population is increasing. Best control is obtained before insects roll leaves.	
BESIEGE	6-9 fl oz	-	7	Bird Cherry-oat, English grain, Greenbug, Sugarcane aphids. PHI 7 days for straw, hay, and seed for feed. Regrowth may be used for grazing, forage, or hay.	
BRIGADE 2EC	6.4 fl oz	-	30	ID, OR, WA only. Supplemental label. PHI 30 days for forage and hay.	
DIMATE 4E/DIMETHOATE 4E	0.5-0.66 pt	14	-	ID, OR, WA only. Do not apply to seed bermudagrass.	
GRIZZLY TOO	1.28-1.92 fl oz	-	7	Bird cherry-oat, English grain, Russian wheat, sugarcane aphids. PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.	
LORSBAN ADVANCED	1-2 pt	-	NO	24c NV (exp. date not given) for insect control in perennial grass seed crops, and ID (exp. date not given) for perennial grass seed crops during year of establishment. 24c OR (exp. 12/2018) for insect control in perennial grass grown for seed. Treat before heading as colonies form. Maximum 3 applications/year.	
MUSTANG MAXX	2.24-4 fl oz	7	0, ≥17	PHI 0 days forage and hay, not less than 17 days straw and seed screenings.	
WARRIOR II	1.28-1.92 fl oz	-	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season. Not labeled for Russian wheat aphid.	
ARMYWORM				Most armyworm damage occurs in late summer to early fall and are cyclical. Outbreaks can occur very rapidly and create extensive damage. Scout in late July to early August every 5 to 7 days. Treat when 5 to 10 armyworm larvae per square foot are observed and populations are increasing. Control is most effective on small larvae (<1/4").	
BAYTHROID XL	1.6-1.9 fl oz	0	0	Apply 1.6-1.9 fl oz/A for true armyworm and 2.6-2.8 fl oz/A for 1st and 2nd instar of beet, fall, southern, western yellowstriped, and yellowstriped armyworms. Maximum 11.3 fl oz/A/crop season.	
BESIEGE	6-9 fl oz	-	7	Beet, fall, southern, true, yellowstriped. PHI 7 days for straw, hay, and seed for feed. Regrowth may be used for grazing, forage, or hay.	
BRIGADE 2EC	6.4 fl oz	-	30	Fall, southern, true, yellowstriped. ID, OR, WA only. Supplemental label. PHI 30 days for forage and hay.	
BLACKHAWK	1.1-2.2 oz	-	3	Beet, fall, southern, true. PHI 3 days hay or fodder. Maximum 6 applications/season.	
DECLARE	1.02-1.54 fl oz	7	0	Do not apply >4.6 fl oz/A. Minimum 7 GPA by ground, 2 GPA by air.	

PHI – preharvest interval days. G/F – grazing and feeding interval days. NO – do not graze or feed. SEE NOTES AT END OF SECTION.

GRASSES GROWN FOR SEED INSECT CONTROL

Insect Treatment Guidelines (continued)

Insecticide	Rate/Acre	PHI	G/F	Comments/Restrictions
ARMYWORM (continued)				
ENTRUST SC	2-4 fl oz	–	3	Beet, fall, southern, true. PHI 3 days hay or fodder. Maximum 6 applications/season.
GRIZZLY TOO	1.28-1.92 fl oz	–	7	Beet, fall, southern, true, yellowstriped. PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
MUSTANG MAXX	2.8-4 fl oz	7	0, ≥17	PHI 0 days forage and hay, not less than 17 days straw and seed screenings.
RENOUCE	2-2.5 oz	0	0	1st and 2nd instar. Maximum 14.1 oz/A/crop season.
SEVIN XLR PLUS	1-1.5 qt	14	14	Maximum 3 qt/A/year.
WARRIOR II	1.28-1.92 fl oz	–	7	Beet, fall, southern, true, yellowstriped. PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
YUMA	1 qt	–	–	Supplemental label.
ARMY CUTWORM				Scout for larvae in fall or winter if defoliation is observed.
BAYTHROID XL	1.6-1.9 fl oz	0	0	Maximum 11.3 fl oz/A/crop season.
BESIEGE	5-8 fl oz	–	7	PHI 7 days for straw, hay, and seed for feed. Regrowth may be used for grazing, forage, or hay.
BLACKHAWK	1.1-2.2 oz	–	3	PHI 3 days hay or fodder. Maximum 6 applications/season.
DECLARE	1.02-1.54 fl oz	7	0	Do not apply >4.6 fl oz/A. Minimum 7 GPA by ground, 2 GPA by air.
GRIZZLY TOO	0.96-1.6 fl oz	–	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
WARRIOR II	0.96-1.6 fl oz	–	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
BILLBUGS				Scout for billbugs from late March to early April and again from mid-October to early November by inspecting crowns or using pitfall traps. No economic threshold has been established, but it is recommended to treat when adult feeding damage is present in 5-10% of crowns.
BESIEGE	6-9 fl oz	–	7	Suppression only.
BRIGADE 2EC	6.4 fl oz	–	30	Hunting bill bug. ID, OR, WA only. Supplemental label. PHI 30 days for forage and hay.
DECLARE	1.02-1.54 fl oz	7	0	Do not apply >4.6 fl oz/A. Minimum 7 GPA by ground, 2 GPA by air.
GRIZZLY TOO	1.28-1.92 fl oz	–	7	Suppression only. PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
LORSBAN ADVANCED	1 qt	–	NO	24c NV (exp. date not given) for perennial grass seed crops, and ID (exp. date not given) for perennial grass seed crops during year of establishment. 24c OR (exp. 12/2018) for insect control in perennial grass grown for seed. Apply when adults are active. Maximum 3 applications/season.
WARRIOR II	1.28-1.92 fl oz	–	7	Suppression only. PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
YUMA	1-2 qt	–	–	Supplemental label.
CRANEFLY				Crane fly larvae damage grass roots and crowns after emerging in the fall and again in spring. Damage can result in stand loss. Incidence of crane fly larvae increase with heavy rainfall and wet conditions. Research has suggested that control is best when larvae are targeted with insecticide treatments when 5-10 larvae are present per square foot.
BESIEGE	6-9 fl oz	–	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay.
DECLARE	1.02-1.54 fl oz	7	0	Do not apply >4.6 fl oz/A. Minimum 7 GPA by ground, 2 GPA by air.
GRIZZLY TOO	1.28-1.92 fl oz	–	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
SEVIN XLR PLUS	1-1.5 qt	14	14	Range crane fly. Maximum 3 qt/A/year.
WARRIOR II	1.28-1.92 fl oz	–	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
YUMA	1 qt	–	–	European crane fly larvae. Supplemental label.
CUTWORMS				Damage occurs from spring through fall and may occur in the same parts of the field each year. Larvae mainly feed on leaves and crowns and damage appears as circular patches of dead grass. Treat when cutworms first appear.
BAYTHROID XL	1.6-1.9 fl oz	0	0	Maximum 11.3 fl oz/A/crop season.

PHI – preharvest interval days.





G/F – grazing and feeding interval days.

NO – do not graze or feed.

SEE NOTES AT END OF SECTION.

GRASSES GROWN FOR SEED INSECT CONTROL

Insect Treatment Guidelines (continued)

Insecticide	Rate/Acre	PHI	G/F	Comments/Restrictions
CUTWORMS (continued)				
BESIEGE	5-8 fl oz	-	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay.
BRIGADE 2EC	6.4 fl oz	-	30	ID, OR, WA only. Supplemental label. PHI 30 days for forage and hay.
DECLARE	1.02-1.54 fl oz	7	0	Do not apply >4.6 fl oz/A. Minimum 7 GPA by ground, 2 GPA by air.
GRIZZLY TOO	0.96-1.6 fl oz	-	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
LORSBAN ADVANCED	1 qt	-	NO	24c NV (exp. date not given) for perennial grass seed crops, and ID (exp. date not given) for perennial grass seed crops during year of establishment. 24c OR (exp. 12/2018) for insect control in perennial grass grown for seed. Apply in spring or fall when larvae first appear. Maximum 3 applications/season.
MUSTANG MAXX	2.24-4 oz	7	0, ≥17	PHI 0 days forage and hay, not less than 17 days straw and seed screenings.
WARRIOR II	0.96-1.6 fl oz	-	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
YUMA	1 qt	-	-	Supplemental label.
GRASSHOPPER				Young and adults feed on leaves, stems, and seed heads, preventing seed from reaching maturity. Grasshoppers are easier to control when they are small.
BAYTHROID XL	2.6-2.8 fl oz	0	0	Maximum 11.3 fl oz/A/crop season.
BESIEGE	6-9 fl oz	-	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay.
BRIGADE 2EC	6.4 fl oz	-	30	ID, OR, WA only. Supplemental label. PHI 30 days for forage and hay.
DECLARE	1.02-1.54 fl oz	7	0	Do not apply >4.6 fl oz/A. Minimum 7 GPA by ground, 2 GPA by air.
GRIZZLY TOO	1.28-1.92 fl oz	-	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
MUSTANG MAXX	2.8-4 fl oz	7	0, ≥17	PHI 0 days forage and hay, not less than 17 days straw and seed screenings.
RENOUCE	3.2-3.5 fl oz	0	0	Maximum 14.1 oz/A/crop season.
WARRIOR II	1.28-1.92 fl oz	-	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
YUMA	1 qt	-	-	Supplemental label.
MEADOW PLANT BUG				Produces silver top effect and a rank odor.
BRIGADE 2EC	6.4 fl oz	-	30	ID, OR, WA only. Supplemental label. PHI 30 days for forage and hay.
DIMATE 4E/DIMETHOATE 4E	0.5-0.66 pt	14	-	ID, OR, WA only. Do not apply to seed bermudagrass.
MUSTANG MAXX	2.8-4 fl oz	7	0, ≥17	PHI 0 days forage and hay, not less than 17 days straw and seed screenings.
SOD WEBWORM				Larvae feed from late June through October on crowns and roots, damaging established stands. Scout for larvae in the early fall when 2-6 per crown are observed.
BAYTHROID XL	2.6-2.8 fl oz	0	0	Maximum 11.3 fl oz/A/crop season.
BESIEGE	6-9 fl oz	-	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay.
BLACKHAWK	1.1-2.2 oz	-	3	PHI 3 days hay or fodder. Maximum 6 applications/season.
BRIGADE 2EC	6.4 fl oz	-	30	ID, OR, WA only. Supplemental label. PHI 30 days for forage and hay.
DECLARE	1.02-1.54 fl oz	7	0	Do not apply >4.6 fl oz/A. Minimum 7 GPA by ground, 2 GPA by air.
GRIZZLY TOO	1.28-1.92 fl oz	-	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
MUSTANG MAXX	2.24-4 fl oz	7	0, ≥17	PHI 0 days forage and hay, not less than 17 days straw and seed screenings.
WARRIOR II	1.28-1.92 fl oz	-	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
YUMA	1 qt	-	-	Supplemental label.
THRIPS				Thrips damage causes grass foliage to turn white or rusty colored and causes silver top effect. Susceptibility varies by variety. Scout seed heads when plants approach boot stage. Treatment is justified when 25 or more thrips are present per head.
BAYTHROID XL	2.6-2.8 fl oz	0	0	Maximum 11.3 fl oz/A/crop season.

PHI – preharvest interval days.


G/F – grazing and feeding interval days.

NO – do not graze or feed.

SEE NOTES AT END OF SECTION.

GRASSES GROWN FOR SEED INSECT CONTROL

Insect Treatment Guidelines

Insecticide	Rate/Acre	PHI	G/F	Comments/Restrictions
THRIPS (continued)				
BESIEGE	6-9 fl oz	–	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay.
DECLARE	1.02-1.54 fl oz	7	0	Do not apply >4.6 fl oz/A. Minimum 7 GPA by ground, 2 GPA by air.
DIMATE 4E/DIMETHOATE 4E	0.5-0.66 pt	14	–	ID, OR, WA only. Do not apply to seed bermudagrass.
GRIZZLY TOO	1.28-1.92 fl oz	–	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
RENOUNCE	3.2-3.5 fl oz	0	0	Maximum 14.1 oz/A/crop season.
SEVIN XLR PLUS	1-1.5 qt	14	14	Use high spray pressure to improve penetration into boot. Maximum 3 qt/A/year.
WARRIOR II	1.28-1.92 fl oz	–	7	PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay. Maximum 5.76 fl oz/A/season.
WINTER GRAIN MITE				Fields take on a gray to silver cast from October to May when infested. Extreme infestations can lead to plant death. Scout fields in October and November and again in late winter at dawn or dusk on cool and overcast days. Treat when visible leaf symptoms and several mites per plant are present.
BESIEGE	6-9 fl oz	–	7	Suppression only. PHI 7 days for straw, hay, and mature seed for feed. Regrowth may be used for grazing, forage, or hay.
DECLARE	1.02-1.54 fl oz	7	0	Do not apply >4.6 fl oz/A. Minimum 7 GPA by ground, 2 GPA by air.
DIMATE 4E/DIMETHOATE 4E	0.5-0.66 pt	14	–	ID, OR, WA only. Do not apply to seed bermudagrass.
YUMA	1 qt	–	–	Supplemental label.

PHI – preharvest interval days.

G/F – grazing and feeding interval days.

NO – do not graze or feed.

SEE NOTES AT END OF SECTION.