

BEAN* (FIELD) HERBICIDE PERFORMANCE RATINGS

- E** EXCELLENT (≥91%)
- G** GOOD (81-90%)
- F** FAIR (65-80%)
- P** POOR (<65%)
- N** NONE
- U** UNKNOWN
- NL** NOT LABELED

CROPS LABELED

GRASSES

	Dry/Field Beans	Snap Beans	Garbanzo/Chickpea	Lentil	Lupine	CROP TOLERANCE	SITE OF ACTION	Barnyardgrass	Crabgrass	Fall panicum	Foxtail, gi/gr	Foxtail, yellow	Quackgrass	Sandbur	Shattercane/Sorghum	Volunteer barley	Volunteer wheat	Wild oat	Wild proso millet	Yellow nutsedge
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PREPLANT

Aim EC ¹ (carfentrazone)	L	NL	L	L	NL	E	14	N	N	N	N	N	N	N	N	N	N	N	N	N	
Charger MAX/Dual II Magnum (s-metolachlor) or Outlook (dimethenamid-p)	L	NL	L	L ³	NL	G	15	E	E	E	E	E	P	P	F	P	P	P	F	G	
Charger MAX/Dual II Magnum (s-metolachlor) or Outlook (dimethenamid-p) + Sonalan (ethalfluralin)	L	NL	L	NL	NL	G	15,3	E	E	E	E	E	P	E	G	F	F	F	F	F	
Charger MAX/Dual II Magnum (s-metolachlor) or Outlook (dimethenamid-p) + Trust (trifluralin)	L	NL	NL	NL	NL	G	15,3	E	E	E	E	E	P	E	G	P	F	F	F	G	
Eptam (EPTC)	L	L	NL	NL	NL	E	8	E	E	E	E	E	F	G	F	G	G	G	F	G	
Eptam (EPTC) + Trust (trifluralin) or Sonalan (ethalfluralin)	L	NL	NL	NL	NL	E	8,15	E	E	E	E	E	F	G	E	G	G	G	F	G	
Framework/Prowl H2O (pendimethalin)	L	L	L	L	L	E	3	E	E	E	E	E	P	G	G	P	F	F	F	P	
Framework/Prowl H2O (pendimethalin) + Eptam (EPTC)	L	L	NL	NL	NL	E	3,8	E	E	E	E	E	F	E	G	G	G	G	F	G	
Pursuit ^R (imazethapyr)	L	L	L	L	L	G	2	P	F	P	P	F ^R	F ^R	P	P	E ^R	P	P	P	P	
Reflex/Agent 1.88 ⁶ (fomesafen)	L	L	NL	NL	NL	F	G	14	N	N	N	N	N	N	N	N	N	N	N	N	
Sharpen ^R (safinufenil) ¹	NL	NL	L	NL	NL	E	14	N	N	N	N	N	N	N	N	N	N	N	N	P	
Sonalan (ethalfluralin)	L	NL	L	L ²	NL	E	3	E	E	E	E	E	P	E	G	F	F	F	F	P	
Spartan Charge (carfentrazone + sulfentrazone)	L ⁸	NL	L	NL	NL	E	14,14	P	N	N	P	F	P	F	N	N	N	P	P	P	G
Trust/Treflan HFP (trifluralin)	L	L	NL	L	NL	E	3	E	E	E	E	E	P	E	G	P	F	P	F	P	
Vida ¹ (pyraflufen)	L	NL	L	L	NL	E	14	N	N	N	N	N	N	N	N	N	N	N	N	N	

PREEMERGENCE

BroadAxe XC/Spartan Elite (sulfentrazone + s-metolachlor)	L	NL	L	NL	NL	E	14,3	E	E	E	E	E	P	P	F	P	P	U	P	F	G
Charger MAX/Dual II Magnum (s-metolachlor)	L	L	L	L ³	L	G	15	E	E	E	E	E	P	P	F	P	P	P	P	F	F
Herbivore/Permit ^R (halosulfuron)	L	NL	NL	NL	NL	F	2	N	N	N	N	N	N	N	N	N	N	N	N	F	
OpTill ^R (safinufenil + imazethapyr)	NL	NL	L	NL	NL	E	14,2	E	E	E	E	E	N	P	F	P	P	P	P	F	F
Outlook (dimethenamid-p)	L	NL	L	L	NL	G	15	E	E	E	E	E	P	P	F	P	P	P	P	F	F
Spartan Charge (carfentrazone + sulfentrazone)	L ⁸	NL	L	NL	NL	E	14,14	P	N	N	P	F	P	F	N	N	N	P	P	P	G

^A Site of action, described on page 759.

^R No control of herbicide resistant weed biotypes. See the list of known resistant weeds on the second page of the technical section.

^B G/E with Basagran.

¹ Burndown ratings.

² Sonalan 10G FALL for lentil in ND and MT.

³ Charger Basic/Dual Magnum and Outlook are labeled on lentil. Dual II Magnum and Charger Max are not.

⁴ Beyond only for Clearfield lentil. Raptor for dry bean.

⁵ Seedling only.

⁶ Preplant surface or preemergence.

⁷ See label of pigweed species controlled.

⁸ 24c label.

* Includes dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red), snap beans (snaps, succulents), garbanzo/chickpea, lentil, lupine (phaseolus spp.: grain, white, sweet and white sweet lupine). Efficiency ratings do not imply a product is labeled for all crops.

BEAN* (FIELD) HERBICIDE PERFORMANCE RATINGS

BROADLEAVES

	Bindweed, field	Buffalobur	Canada thistle	Cocklebur	Jimsonweed	Knotweed	Kochia	Lambsquarters, common	Morningglory, annual	Mustard, wild	Nightshade, black	Nightshade, hairy	Pigweed ⁷	Purslane	Ragweed, common	Ragweed, giant	Russian thistle	Smartweed	Sunflower	Velvetleaf	Wild buckwheat		
	U	U	P	P	F	F	FG	GE	GE	FG	P	GE	U	GE	P	F	P	P	P	F	E	P	● Aim EC ¹
	P	F	P	P	P	F	P	F	P	P	G	F	G	F	P	P	P	P	P	P	P	P	● Charger MAX/Dual II Magnum or Outlook
	P	F	P	P	P	G	G	G	P	P	G	F	G	E	P	P	FG	P	P	P	P	P	● Charger MAX/Dual II Magnum or Outlook + Sonalan
	P	F	P	P	P	F	G	G	P	P	G	F	G	E	P	P	FG	P	P	P	P	P	● Charger MAX/Dual II Magnum or Outlook + Trust
	P	G	P	P	P	F	F	F	FG	P	FG	FG	F	G	F	P	P	P	P	P	F	P	● Eptam
	P	G	P	P	P	G	G	G	F	P	FG	FG	G	E	F	P	F	P	P	P	F	P	● Eptam + Trust or Sonalan
	P	P	P	P	P	G	G	E	P	P	P	P	G	E	P	P	FG	P	P	P	P	P	● Framework/Prowl H2O
	P	G	P	P	P	G	G	G	F	P	G	FG	G	E	F	P	FG	P	P	P	F	P	● Framework/Prowl H2O + Eptam
	P	U	P	P	G	U	G ^R	P	P	E ^R	G ^R	P	F	G ^R	U	P	P	P	P	P	F	P	● Pursuit ^R
	P	N	N	P	P	U	P	F	G	F	E	E	F	E	F	G	F	P	FG	F	P	P	● Reflex/Agent 1.88
	F	F	G ⁵	E	G	G ¹	E	E	G	E	E	G	E	G	G	G	E	E	G	G	E	E	● Sharpen ^{1R}
	P	P	P	P	P	G	GE	E	P	P	F	F	E	E	P	P	FG	P	P	P	P	FG	● Sonalan
	F	U	P	F	GE	PF	E	E	GE	F	E	P	E	F	F	P	GE	G	P	F	E	U	● Spartan Charge
	P	P	P	P	P	G	G	G	P	P	P	P	G	E	P	P	FG	P	P	P	P	P	● Trust/Treflan HFP
	U	U	P	P	F	F	FG	GE	GE	FG	P	GE	U	GE	P	F	P	P	P	F	E	P	● Vida ¹
	PREEMERGENCE																						
	P	F	P	P	G	U	E	E	G	P	E	P	F	E	U	P	P	G	G	N	G	F	● BroadAxe XC/Spartan Elite
	P	F	P	P	P	F	P	F	P	P	G	F	G	F	P	P	P	P	P	P	P	F	● ChargerMAX/Dual II Magnum
	N	P	N	G ^R	F	U	P	F	F ^R	N	E ^R	P	N	E ^R	P	FG	U	P	P	G ^R	G	P	● Herbivore/Permit ^R
	P	F	P	G	F	U	E	E	F	E	F	U	E	U	G ^R	G	F	E	E	E	F	● OpTill ^R	
	P	F	P	P	P	F	P	F	P	P	G	F	G	F	P	P	P	P	P	P	P	F	● Outlook
	F	U	P	F	P	PF	E	E	GE	F	E	P	E	F	F	P	GE	G	P	F	E	U	● Spartan Charge

BEAN WEEDS

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- P** POOR (<65%)
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CROPS LABELED

GRASSES

- Dry/Field Beans
- Snap Beans
- Garbanzo/Chickpea
- Lentil
- Lupine
- CROP TOLERANCE
- SITE OF ACTION^A
- Barnyardgrass
- Crabgrass
- Fall panicum
- Foxtail, gi/gr
- Foxtail, yellow
- Quackgrass
- Sandbur
- Shattercane/Sorghum
- Volunteer barley
- Volunteer wheat
- Wild oat
- Wild proso millet
- Yellow nutsedge

POSTEMERGENCE

Herbicide	Dry/Field Beans	Snap Beans	Garbanzo/Chickpea	Lentil	Lupine	CROP TOLERANCE	SITE OF ACTION ^A	Barnyardgrass	Crabgrass	Fall panicum	Foxtail, gi/gr	Foxtail, yellow	Quackgrass	Sandbur	Shattercane/Sorghum	Volunteer barley	Volunteer wheat	Wild oat	Wild proso millet	Yellow nutsedge	
Assure II/Targa ^R (quizalofop)	L	L	L	L	NL	E	1	E	E ^R	E	E ^R	G	E	E	E	E	E	E	E	E	P
Basagran/Basagran 5L (bentazon)	L	L	NL	NL	NL	E	6	P	P	P	P	P	P	P	P	P	P	P	P	P	G
Poast ^R (sethoxydim)	L	L	L	L	NL	E	1	E	E ^R	E	E ^R	E	F	E	E	G	G	E ^R	E	P	
Pursuit ^R (imazethapyr)	L	L	NL	NL	NL	G	2	F	F ^R	F	F ^R	F ^R	F ^R	P	P	E ^R	P	F	F ^R	F	P
Pursuit ^R (imazethapyr) + Basagran (bentazon)	L	L	NL	NL	NL	G	2,6	F	F ^R	F	F ^R	F ^R	F ^R	P	P	E ^R	P	F	F ^R	F	G
Raptor/Beyond ^R (imazamox)	L ⁴	NL	NL	L ⁴	NL	G	2	F	G	E ^R	E ^R	G	F	F	G ^R	G	F	G ^R	G	F	
Reflex/Agent 1.88 ^R (fomesafen)	L	L	NL	NL	NL	F	G	14	P	P	P	P	P	P	P	P	P	P	P	P	P
Section Three/Select 2 EC/Cleanse ^R (clethodim)	L	L	NL	L	NL	E	1	E	E ^R	E	E ^R	E	G	E	E	E	E	E ^R	E	P	

HARVEST AID

Gramoxone SL/SL 2.0 (paraquat), Defol 750 (sodium chlorate)	L	L	L	L	L	N	22	G	G	G	G	G	P	G	G	G	G	G	G	G	F
Valor ^R (flumioxazin)	L	NL	NL	NL	NL	N	14	P	P	P	P	P	P	P	P	P	P	P	F	P	

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BROADLEAVES

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	POSTEMERGENCE																							
—	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	● Assure II/Targa ^R		
· · ·	P	F	N	G	E	E	N	F	F	F	E	P	G	P	F	F	G	P	F	E	G	E	● Basagran/Basagran 5L	
—	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	● Poast ^R	
—	P	F	P	G ^R	G	F	G ^R	P ^R	F	E ^R	E ^R	F	G	E ^R	N	P ^R	P	P	F	G ^R	F	G	● Pursuit ^R	
· · ·	P	F	F	G	E	E	F	G	F	F	E	E ^R	G	E ^R	G	F	G	P	F	P	E	G	E	● Pursuit ^R + Basagran
—	P	F	P	E ^R	E	F	G ^R	F ^R	G	E ^R	E ^R	G	E ^R	G	F	G ^R	F	G ^R	E ^R	E	E	F	● Raptor/Beyond ^R	
—	F	F	P	P	F	G	U	F	P	F	P	E	G	F	E	U	G ^R	F	G	P	G	F	● Reflex/Agent 1.88 ^R	
· · ·	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	● Section Three/Select 2 EC/Cleanse ^R	
	HARVEST AID																							
—	P	U	P	F	P	G	F	G	G	E	F	F	F	G	U	G	G	E	G	F	G	F	● Gramoxone SL/SL 2.0, Defol 750	
· · ·	F	P	P	F	F	F	F	F	G	G	G	G	F	G	F	G ^R	F	G	G	F	E	E	● Valor ^R	

BEAN WEEDS

BEAN (FIELD) HERBICIDE APPLICATION TIMING AND RESTRICTIONS

Herbicide	Application Timing**	Labeled Crops*	Comments/Restrictions	GPA ¹		Rainfast (hrs)	Aerial Application	Intervals** (Days)		
				Ground	Aerial			Feeding Forage	Grazing Animals	Harvest
Agent 1.88	PP PRE POST	D, S	PP or PRE in Regions 1-4 to emerged broadleaves. Before crop emerges. PHI 30 days for snaps, 45 days for dry beans.	10	5	1	Y	NO	NO	45,30
Aim EC	PP PRE	D, S, G, L	To emerged weeds until 1 day after planting.	10	3	6-8	Y	NR	NR	3
Assure II	POST	D, S, G, L	Apply to young actively growing grass. PHI 30 for D, 15 for S, 60 for G and L.	10-15	3	1	Y	NO	NO	15-60
Basagran/Basagran 5L	POST	D, S	Beans must have at least 1st trifoliolate leaf expanded.	10-20	5	4	Y	NR	NR	30
Beyond	POST	L	Clearfield lentil only, 2-6 leaf stage crop.	10		1		NR	NR	NR
BroadAxe XC/Spartan Elite	PP PRE	G	FALL after harvest or fallow. Apply when <55° F and falling. Apply up to 3 days after planting. PPI 2".	10	5		Y	60, 120	60, 120	NR
Charger Basic/Dual Magnum	PP PRE POST	D, S, G, L, U	FALL in certain areas, may incorporate. PPI 2" up to 14 days before planting. PRE before crop and weed emergence. 24c TN (exp. 2/2021) after 3rd trifoliolate.	10	2		Y	60	NR	NR
Charger Max/Dual II Magnum	PP PRE	D, S, G, U	FALL in certain areas, may incorporate. PPI 2" up to 14 days before planting. PRE before crop and weed emergence.	10	2		Y	60	NR	NR
Cobra	PRE	S	Apply after planting, no later than 48 hours following planting.	10	7-10		Y			55
Command 3ME	PRE	S	Certain varieties may have potential for injury or loss when using this product; consult qualified crop advisers.	10	-	-	NO	NL	NL	45
Cornerstone Plus/Tomahawk 4 or Cornerstone 5 Plus/Tomahawk 5	PP PRE	D, S, G, L, U	Apply PP or PRE prior to crop emergence to emerged weeds.	3-40	3-15	S	Y	56	56	56
Defol 750	PH	D	Defoliant to facilitate harvest.	10-20	5-10	24	Y	NR	NR	7-10
Dimetric EXT/Metriclude	PRE POST	G, L	PRE before crop emergence. Incorporate 1-2" by equipment or rain. POST to lentils before 6" tall. ^B Air only for lentils, 20 GPA ground POST for lentils. NR for dry bean harvest.	10 ^B	5 ^B	6-8	Y	40	40	75 ^B
Durango DMA/Duramax	PP PRE PH	D, S, G, L, U	Apply PP or PRE prior to crop emergence to emerged weeds. Apply at hard dough (≤ 30% moisture). PHI 7 for dry bean.	3-40	3-15	S	Y	56	56	56
Eptam 7E	PP	D, S	PPI FALL in MN, ND. PP apply just before or after planting or at lay-by and incorporate.	10-50	NL		NL	45	45	NR
Eptam 20G	PP	D, S	PPI FALL in MN, ND. PP apply just before or after planting or at lay-by and incorporate.		NL		NL	45	45	NR
Far-Go EC or 10G	PP PRE	G, L	Apply just before or after seeding and incorporate.	10	NL		NL	NR	NO	NR
Framework or Prowl H2O	PP PRE	D, S, G, L, U	PPI 1-2" up to 60 days before planting. PRE for sweet lupines up to 2 days after planting.	10	5		Y	NO	NO	NR
Fusilade DX	POST	D	Apply up to 60 day PHI.	5-40	5	1	Y	NR	NR	60
GoalTender	PRE	G	Prior to weed or crop emergence in AZ, CA.	20			NL	NO	NO	
Gramoxone SL/SL 2.0	PP PRE PH	D, S, G, L, U	Apply PP or PRE prior to crop emergence to emerged weeds. PH when crop is mature and ≥80% of pods are yellowing and mostly ripe with no more than 30-40% of leaves still green.	10	5	0.5	Y	NR	NR	7
Herbivore/Permit	PRE POST	D, S	After planting but prior to soil cracking. Snap/succulent Herbivore only. Row middle/furrow, avoid contact with planted crop. 24c for Herbivore on dry beans in MN, NE (exp. date not provided): 1-3 trifoliolates but before flowering.	10-20	3-15	4	Y	NR	NR	NR
Outlook	PP PRE POST	D, G, L	PP up to 45 days before planting. PPI 1-2" up to 14 days before planting. PRE before crop emergence. POST from 1st to 3rd trifoliolate and before weeds emerge. Do not use PPI or POST on garbanzo or lentil.	5	2		Y	NR	NR	70
Optify	PGR	D, S, G, L	Plant Growth Regulator. Soil applications can begin prior to planting and continue while plants are in vegetative stage. Formulate with liquid fertilizer and/or through irrigation system. Foliar applications may begin when plants ≥ 4-leaf stage of development. Best to apply before leaf hardening.	5 ^{foliar}	NO		NO	NL	NL	0
OpTill	PP PRE	G	Apply preplant, maximum of 30 days before planting in Region 2 for no-till or minimum tillage systems. PPI all regions within 1 week of planting. Up to 3 days after planting - Region 1 or 3; or before crop emergence in Region 2.	5	3	1	Y	65	65	NR

BEAN WEEDS

BEAN (FIELD) HERBICIDE APPLICATION TIMING AND RESTRICTIONS

Herbicide	Application Timing**	Labeled Crops*	Comments/Restrictions	GPA ¹		Rainfast (hrs)	Aerial Application	Intervals** (Days)			
				Ground	Aerial			Feeding Forage	Grazing Animals	Harvest	
Permit			See Herbivore								
Poast	POST	D, S, G, L	Apply to young actively growing grass. PHI 30 for beans and peas, 15 for S, 50 for L.	5-20	5	1	Y	NR	NR	15,30	
Prowl H2O			See Framework								
Pursuit 2L	PP	D, S, G, L, U	PPI up to 7 days before planting.	10	5	1	Y	NR	NR	30,60	
	PRE		PRE up to 3 days after planting.								
	POST	D, S	POST- do not apply until beans have at least 1 fully expanded trifoliolate or peas are 3" high. Kidney beans POST only. PHI 30 days for lima and snap beans. Ground only for snaps and red kidney beans. See label for state restrictions.								
Pursuit Plus	PP	D, G, L	PPI within 1 week before planting. Certain states only.		NL		NL	NO	NO	60	
Raptor	POST	D	Apply to dry beans with at least one fully expanded trifoliolate and prior to bloom.	10	5	1	Y	NR	NR	C	
Reflex	PP	D, S	PP or PRE in Regions 1-4 to emerged broadleaves. 24c in OR (exp. 12/2020) for snap beans and succulent soybean.	10	5	1	Y	NO	NO	45,30	
	PRE		Before crop emerges.								
	POST		PHI 30 days for snaps, 45 days for dry beans.								
Roundup PowerMAX/ WeatherMax	PP	D, S, G, L, U	Apply for control of emerged weeds prior to crop emergence.	3-40	3-15	5	Y	56	56	56	
	PRE		Before crop emerges.								
Section Three/Select 2 EC/Cleanse	POST	D, S, G, L	Apply to young actively growing grass.	10	3	1	Y	NR	NR	30	
Select Max	POST	D, S, G, L, U	Apply to young actively growing grass.	10-40	5	1	Y	NR	NR	30	
Sequence	PP	D, S, G, U	Apply up to 30 days before planting.	10-40	3-15	5	Y	120	NR	NR	
	PRE		PRE before crop emergence.								
Sharpen	PP	G	Apply as burndown or PPI.	5	3	1	Y	65	65	NR	
	PRE		Before crop emergence or cracking stage.								
	PH	D	Apply at physiological maturity.								
Sonalan HFP	PP	D, G	FALL with fertilizer. Fall appl. from Oct. 1-Dec. 31. Incorporate 2-3" within 2 days. Spring-incorporate any time after January 1.	5	NL		NL	NO	NO	NR	
Sonalan 10G	PP	D, G, L	Apply within 21 days of planting and incorp. 2-3" within 2 days. Fall appl. from Oct. 1-Dec. 31. 24c in ND (exp. 12/2020), MT (exp. not given) for FALL lentils.	NA	NL		NL	NO	NO	NR	
Spartan Charge	PP	D, G	PP FALL or spring or PRE up to 3 days after planting. Supplemental labels for dry bean in MN, ND.	10	5	1	Y	NR	NR	NR	
	PRE										
Spartan Elite			See BroadAxe XC.								
Targa	POST	D, S, L	Apply to young actively growing grass. PHI 30 for D, 15 for S, 60 for G and L.	10-15	3-5	1	Y	NL	NL	15-60	
Treflan TR-10	PP	D, S, L	FALL or spring, incorporate 2-3" within 24 hr. Fall for dry bean only.				Y	NR	NR	NR	
Trust/Treflan HFP or 10G	PP	D, S, L	Apply and incorporate before planting.	5-40	5-10		Y	NR	NR	NR	
	PRE	G	Apply within 2 days after planting.								
Valor	PP	G	PP or PRE up to 2 days after planting in ID, OR, WA.	15-30	7-10	1	Y	NO	NO	5	
	PP	D	PP or PRE up to 2 days after planting in CO, OR, WA.								
	PH	D	PH when crop is mature and ≥80% of pods are yellowing and mostly ripe with no more than 30-40% of leaves still green.								
Varisto	POST	D, S	Before bloom stage but after at least one fully expanded trifoliolate leaf to actively growing weeds. Use may lead to crop injury, loss, or damage: Test product to determine its suitability. Weed control at cool temperatures improves by delaying application for 48 hours from the time temperature is >55° F if it was <55° F for ≥10 hours.	10-20	5	4	Y	NL	NL	30	
Vida	PP	D, S, G, L, U	Burndown: Apply up to 1 day before planting.	10	5	1	Y	NL	NL	NL	

*D – dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red), S – snap beans (snaps, succulents), G – garbanzo/chickpea, L – lentil, U – lupine (phaseolus spp.: grain, white, sweet and white sweet lupine).

**Application Timing and Intervals

PP - Preplant surface, unless otherwise specified

PPI - Preplant incorporated

PRE - Preemergence

POST - Postemergence

PGR - Plant growth regulator

PH - Preharvest

NA - Not applicable

NL - No related information on label

NR - No restrictions

NO - Not permitted

Delay-M - Delay until maturity.

S - Heavy rainfall soon after application may require retreatment.

¹ Includes labeled minimum or range.

BEAN (FIELD) WEED CONTROL

Preplant or Preemergence Herbicides

Herbicide	Labeled Crops*	Rate/Acre			Comments/Restrictions
		Coarse**	Medium	Fine	
AIM EC	D, S, G, L	Up to 2 fl oz + 0.5 gal HSOC-MSO or HSOC-COC ¹ or 2 pt NIS/100 gal			PP or PRE. Apply no later than 1 day after planting and up to <4" weeds. Burndown. Add Aim to tank before other herbicides.
BROADAXE XC/ SPARTAN ELITE	G	Do not use	<1.5% O.M. 19-26 fl oz 1.5-3% O.M. 21-32 fl oz >3% O.M. 26-32 fl oz	19-26 fl oz 26-32 fl oz 32-38.7 fl oz	PP, PRE, or PPI. 24c in MN, expires 12/31/18. FALL after harvest or fallow fields when soil temperature is 55° F and falling. See label for timing and geographic restrictions. Apply up to 3 days before planting. PPI 2". Maximum 38.7 fl oz/A/crop year. For soils with pH > 7.2, use lowest rate for OM and texture. Do not use on soils with <1% OM.
CHARGER MAX/ DUAL II MAGNUM or CHARGER BASIC/ DUAL MAGNUM	D, S, G, L, U	1-1.33 pt	1.33-1.67 pt	1.33-2 pt	PPI or PRE. Shallow incorporation within 14 days will improve performance and reduce crop injury. Only Charger Basic/Dual Magnum is labeled on lentils. See label for FALL application. Note 10.
CHARGER MAX/ DUAL II MAGNUM or CHARGER BASIC/ DUAL MAGNUM + TRUST/TREFLAN HFP	D, S, G	1-2 pt + 1-2 pt			PPI up to 14 days before planting.
COBRA	S	8-16 fl oz			2ee label for use in OR and TN. Use 8-12 fl oz in OR and 10-16 fl oz in TN. Use higher rate on coarse texture soils. Do not apply on soils with high sand content.
COMMAND 3ME	S	0.4-0.67 pt			Use lower rate on coarse soils and higher rate on fine soils. See label.
CORNERSTONE PLUS/ TOMAHAWK 4 or CORNERSTONE 5 PLUS TOMAHAWK 5	D, S, G, L, U	Up to 48 fl oz or Up to 36 fl oz + 8.5-17 lb AMS/100 gal ^a			PP, PRE or at-planting. Apply for control of emerged weeds prior to crop emergence. See label for perennial rates. ^a Include NIS or WC+NIS ² as needed.
DIMETRIC EXT/ METRICLUDE EXT	G, L	0.25-0.5 lb			PRE. Incorporation by rain or mechanical is essential. May incorporate after PRE application. Lentils in ID, OR, and WA only; garbanzo in CA, ID, OR, and WA. Do not apply to Estin variety.
DURANGO DMA/ DURAMAX	D, S, G, L, U	Up to 48 fl oz + 8.5-17 lb AMS/100 gal ^a			PP, PRE or at-planting. Apply for control of emerged weeds prior to crop emergence. See label for perennial rates. ^a Or WC+NIS ² .
EPTAM 7E	D, S	3.5 pt 4.5 pt	3.5-4.5 pt 5.25 pt	3.5-4.5 pt 5.25 pt	PPI. Apply just before planting and incorporate at once, or meter into irrigation water before or immediately after planting; or apply as directed spray at last cultivation. Notes 1, 2, 3, 5. FALL in MN, ND only. Apply after Oct. 15 until soil freeze-up, and incorporate. Notes 2, 3, 5.
EPTAM 20G	D, S	15-20 lb 20 lb	15-20 lb 22.5 lb	15-20 lb 22.5 lb	PPI. Apply just before or immediately after planting, or at last cultivation. Incorporate immediately after application. Notes 1, 5. FALL in MN, ND only. Incorporate immediately after application. Note 5.
EPTAM 7E + FRAMEWORK or SONALAN or TRUST/TREFLAN HFP	D D D, S	2.5-4.5 pt + 1.2-2.4 pt 1.25-2 pt 1-1.5 pt	3-4.5 pt + 1.8-3.6 pt 1.75-2.5 pt 1.5 pt	3-4.5 pt + 2.4-3.6 pt 2.25-3 pt 1.5 pt	PPI. Make application just before planting and incorporate immediately. Notes 2, 3, 5. Notes 3, 4, 5, 7. With Sonalan use 2.5-4.5 pt/A (2.5-3.5 pt/A Eptam MN, ND, SD only). Notes 3, 7. With Trust, use only 2.5-3.5 pt/A Eptam. Notes 3, 5, 6.

* D – dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red), S – snap beans (snaps, succulents), G – garbanzo/chickpea, L – lentil, U – lupine (phaseolus spp.: grain, white, sweet and white sweet lupine).

SEE NOTES AT END OF SECTION.

**Coarse – Sand, loamy sand, sandy loam.

Medium – Loam, silt, silt loam.

Fine – Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay.

O.M. – Soils with low organic matter - use lower rate, with high organic matter – use higher rate within the range.

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

² Class Act NG or Flex, Alliance, or Ultra-Lite may be used where herbicides require NIS and AMS or a water conditioner.

BEAN (FIELD) WEED CONTROL

Preplant or Preemergence Herbicides (continued)					
Herbicide	Labeled Crops*	Rate/Acre			Comments/Restrictions
		Coarse**	Medium	Fine	
EPTAM 7E + DUAL II MAGNUM/ DUAL MAGNUM	D	2.5-3.5 pt + 0.8-1 pt	3.5-4.5 pt + 1-1.33 pt	3.5-4.5 pt + 1.33-1.67 pt	PPI. Apply just before planting and incorporate at once. Notes 2, 3, 5, 10.
EPTAM 7E	D	2-3 pt			PPI. Apply just before planting and incorporate at once. Notes 2, 3, 5.
FAR-GO EC or 10G	G, L	1.25 pt or 12.5-15 lb			PPI or PRE inc. Incorporate twice. Apply just before or after seeding. Use lower rates on light soils.
FRAMEWORK or PROWL H2O	D, S, G, L, U	Northern States <3% O.M. 2.4 pt 3 pt 3.6 pt 2 pt 2.5 pt 3 pt Northern States >3% O.M. 2.4 pt 3.6 pt 3.6 pt 2 pt 3 pt 3 pt Southern States or Lentils 1.8 pt 2.4 pt 3.6 pt 1.5 pt 2 pt 3 pt			PPI. For ID, MN, MT, ND, OR, SD, WA and WY. Apply before planting and incorporate to the top 1-2 inches prior to planting and within 7 days of application. Can be applied up to 60 days prior to planting. Do not use on peat or muck soils. See label for FALL PP rates in ID, MN, MT, ND, OR, SD, WA and WY. Apply PRE up to 2 days after planting for sweet lupines. Do not feed bean hay, vines, or forage or graze livestock in treated bean fields. May be tank mixed with Dual or Eptam. May be applied in chickpeas in conventional tillage systems as post-plant PRE up to 2 days after planting in ID, OR, and WA. Up to 1.5 pt. Additional post-plant PRE for dry beans in CO, ID, KS, MT, NE, MI, and WY. Apply up to 2 pt within 1 day of planting. Supplemental label 11/1/2014 for application of Prowl H2O up to 30 days before planting in no-till and minimum till chickpeas and lentils at 1-3 pt/A depending on soil texture in ID, MT, ND, OR, and WA.
GOALTENDER	G	0.5 pt			PRE before crop or weed emergence in AZ and CA only. See label for precautions.
GRAMOXONE SL/SL 2.0	D, S, G, L, U	1.5-4 pt + 1 pt NIS/100 gal			PP or PRE prior to crop emergence.
HERBIVORE/PERMIT	D, S	0.5-0.67 oz			PRE. Apply after planting but prior to soil cracking. Can be applied POST at 0.5-1 oz between rows. Avoid contact with the crop. Snap/succulent bean Herbivore only.
OPTILL	G	1.5 fl oz + 0.75 pt HSOC-MSO ¹ + 8.5-17 lb AMS or 1.25-2.5 gal UAN/100 gal			PP or PRE. Apply preplant; maximum of 30 days in Region 2 for minimum tillage or no-till systems. PPI within 1 week before planting. PRE before cracking stage or crop emergence.
OPTIFY	D, S, G, L	5-12 fl oz			At planting: Apply 5 fl oz/A with liquid fertilizer. Broadcast, side or top dress 8-12 fl oz/A. Best results when applied with nutrients. Repeat application ≥7 days. Do not apply >24 oz/A/season.
OUTLOOK	D, G, L	12-18 fl oz	14-21 fl oz	14-21 fl oz	PP, PPI shallow or PRE. 12 fl oz maximum for dry beans PRE if O.M. <1.5%. PP surface or PRE only for garbanzo and lentil. May be tank mixed with Eptam, Prowl H2O, Sonalan or Treflan. See tank mix partner for crops labeled.
PURSUIT PLUS	D, G, L	1.25 or 1.88 pt			PPI within 1 week before planting. See supplemental label for regional, variety, and soil restrictions. Only for lima, navy, great northern, red kidney, black turtle, pinto, cranberry, and small white dry beans. Use in IL, IA, MI, MN, ND, SD, and WI only.
PURSUIT 2L	D, S, G, L, U	Up to 3 fl oz			PPI or PRE. User accepts crop risks and consequences. Consult label for states and other specific crop and use rates. PHI 30-60 days.
REFLEX/AGENT 1.88	D, S	1-1.5 pt/1-1.6 pt			PP or PRE to emerged broadleaves in Region 1-4. Soil moisture required for soil residual activity. 24c for Reflex in OR (exp. 12/2020) in specified counties for snap bean, PP, PRE 1 pt/A, total not >0.25 lb a.i./A fomesafen products; for WI (indemnified; exp. 12/2021) for weed control in lima beans. Note 2.
ROUNDUP POWERMAX/ WEATHERMAX***	D, S, G, L, U	22-32 fl oz + 8.5-17 lb AMS/100 gal ²			PP, PRE or at-planting. Apply for control of emerged weeds prior to crop emergence. See label for perennial rates. ² Or WC+NIS ² .
SEQUENCE	D, S, G, U	2.5-4 pt + 8.5-17 lb AMS/100 gal			PP or PRE. Apply up to 30 days before planting and before crop emergence. Soil type and location restrictions apply. PHI is 120 days for hay. Do not apply more than once per crop.

*D – dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red), S – snap beans (snaps, succulents), G – garbanzo/chickpea, L – lentil, U – lupine (phaseolus spp.: grain, white, sweet and white sweet lupine).

***May use other glyphosate herbicides: Roundup brands; Cornerstone/Tomahawk brands, Durango DMA/Duramax at labeled rate.

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

² Class Act NG or Flex, Alliance, or Ultra-Lite may be used where herbicides require NIS and AMS or a water conditioner.

SEE NOTES AT END OF SECTION.

BEAN (FIELD) WEED CONTROL

Preplant or Preemergence Herbicides (continued)

Herbicide	Labeled Crops*	Rate/Acre			Comments/Restrictions
		Coarse**	Medium	Fine	
SHARPEN	G, L	1 fl oz + 0.75 pt HSOC-MSO ¹ + 8.5-17 lb AMS or 1.25-2.5 gal UAN/100 gal			PP or PRE. Apply as a burndown or before crop emergence or cracking stage. Do not apply with or within 30 days of flumioxazin or sulfentrazone.
SONALAN HFP or 10G	D, G, L	1.5-2 pt 5.5-7.5 lb	2-2.5 pt 7.5-9.5 lb	2.5-3 pt 9.5-11.5 lb	PPI. Apply within 21 days of planting and incorporate 2-3" within 2 days. PPI FALL from Oct. 1-Dec. 31. See label for higher rates on nightshade or groundcherry. 24c in ND (exp. 12/2020) and MT (exp. date not given): For FALL lentils at 5.5-7.5 lb/A. Not for use in CA.
SONALAN HFP + DUAL II MAGNUM	D, G D, G	1.25-2 pt + 1-1.33 pt	1.75-2.5 pt + 1.33-1.67 pt	2.25-3 pt + 1.33-2 pt	PPI. Apply within 21 days of planting and incorporate 2-3" within 2 days. PPI Oct. 1 – Dec. 1 in MN, ND, or SD. Notes 3, 7.
SPARTAN CHARGE	D, G	3-3.75 fl oz 3.75-5.75 fl oz 5-7.75 fl oz	<1.5% O.M. 3.75-5.75 fl oz 1.5-3% O.M. 5-7.75 fl oz >3% O.M. 5.75-8.5 fl oz	3.75-5.75 fl oz 5.75-7.75 fl oz 6.5-10.2 fl oz	PP FALL or SPRING or PRE up to 3 days after planting for dry chickpea only. Use lower rates in the range for pH over 7.0. Read vegetable disclaimer for dry field pea. Apply to dry beans in MN and ND PP or PRE before planting. Spartan Charge contains carfentrazone for added burndown of small broadleaf weeds in combination with glyphosate. Requires WC+NIS ² or AMS if tank-mixed with glyphosate or HSOC-MSO ¹ if applied alone. 24c MN, ND (exp. 1/2020) for soil pH-dependent rates on dry shelled beans. 24c AK (specific counties; exp. date not given) and MS (exp. 12/2018) for soil-texture dependent rates on dried cowpeas. 24c DE (certain counties; 9/2012) for lima beans.
SPARTAN ELITE		See BroadAxe XC.			
TREFLAN TR-10	D, S, L	5 lb 5 lb	Beans - dry or fresh 5-7.5 lb Snap and Lima bean 5 lb	7.5-10 lb 7.5 lb	PPI FALL or SPRING 2-3" within 24 hours. Spring applications only for lima and snapbean. Second pass needed ≤5 days later for TR-10. For beans use 7.5 lb/A on coarse or medium soils with 2-5% O.M. Apply in FALL from Sept. 1-Dec. 31 in CA, MN, ND, and SD and Oct. 15- Dec. 31 in other states. Organic matter influences application rate.
TRUST/TREFLAN HFP or 10G	D, S, L	1 pt 5 lb 1 pt 5 lb	Beans - dry or fresh 1-1.5 pt 5-7.5 lb Snap and lima beans 1 pt 5 lb	1.5-2 pt 7.5-10 lb 1.5 pt 7.5 lb	PPI. For beans use 1.5 pt/7.5 lb per acre on coarse or medium soils with 2-5% O.M. Dry beans in FALL: Oct. 15-Dec. 31, except in MN, ND, SD, and CA - Sept. 1-Dec. 31.
VALOR	D, G	1.5 oz			PP or PRE. Supplemental labels. Apply to garbanzo beans in ID, OR, or WA or dry beans in CO, OR, or WA before planting within 2 days after planting but before beans emerge or have begun to crack.
VIDA	D, S, G, L, U	0.5-2 fl oz + 0.5 gal HSOC-MSO or HSOC-COC ¹ or 2 pt NIS/100 gal			Apply no later than 1 day before planting.

*D – dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red), S – snap beans (snaps, succulents), G – garbanzo/chickpea, L – lentil, U – lupine (phaseolus spp.: grain, white, sweet and white sweet lupine). SEE NOTES AT END OF SECTION.

***May use other glyphosate herbicides: Roundup brands; Cornerstone/Tomahawk brands, Durango DMA/Duramax at labeled rate.

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

² Class Act NG or Flex, Alliance, or Ultra-Lite may be used where herbicides require NIS and AMS or a water conditioner.

BEAN (FIELD) WEED CONTROL

Postemergence Herbicides			
Herbicide	Labeled Crops*	Rate/Acre	Comments/Restrictions
ASSURE II	D,S,G,L	6-10 fl oz/acre + 0.5 gal HSOC-COC ¹ /100 gal	Use 10 oz for quackgrass, 6 oz for wild proso millet and 8 oz for other annual grasses. Increase Assure rate 2 oz when tank mixing with Basagran. 30 day PHI for D, 15 for S, 60 for G and L. Note 4.
BASAGRAN/BASAGRAN 5L	D,S	1-2 pt/0.8-1.6 + 0.5-1 pt HSOC-COC ¹	Apply to actively growing weeds at sizes and rates indicated on label. Use low rate on Adzuki beans. Beans must have at least 1st trifoliolate leaf expanded. 30 day PHI. COC on snap bean may increase injury.
BEYOND	L	4-6 oz + 1 qt NIS/100 gal + 2.5 gal UAN or 12-15 lb AMS/100 gal ²	For Clearfield lentil only. Apply at 2-6 leaf stage of lentil. NIS and a nitrogen based fertilizer must be added for optimum weed control.
DIMETRIC EXT/ METRICLUDE EXT	L	0.17-0.33 lb	POST. Apply before crop is 6" tall. Crop injury may occur. Do not apply to Estin variety. For ID, OR, and WA. PHI 75 days.
DUAL MAGNUM	S	0.5-.075 pt	24c TN (exp. 2/2021) after 3rd trifoliolate of snap, lima and southern pea (cowpea). PHI 50 days. Not all cultivars have been tested for tolerance. Only water as carrier.
FUSILADE DX	D	Up to 24 fl oz + 1-2 qt HSOC-COC ¹ or 1-2 qt NIS/100 gal	Maximum 48 fl oz/A/year. Minimum 14 days between applications. PHI 60 days.
HERBIVORE/PERMIT	D,S	0.5-1 oz + 1 qt NIS/100 gal	Snap/succulent bean Herbivore only. Row middle/furrow, avoid contact with planted crop. 24c for Herbivore on dry beans in MN,NE (exp. date not provided), NE (exp. 12/2017): Apply when beans have 1-3 trifoliolates but before flowering.
OUTLOOK	D	12-21 fl oz	Apply from 1st to 3rd trifoliolate and before weeds emerge.
OPTIFY	D,S,G,L	8-12 fl oz	Broadcast, side or top dress. Via irrigation: Apply 8 fl oz/A. Best results when applied with nutrients. Foliar: Apply directly to foliage of actively growing plants ≥6 fl oz/A in minimum 5 GPA. Repeat application ≥7 days. Do not apply >24 oz/A/season.
PERMIT		See Herbivore	
POAST	D,S,G,L	8-40 fl oz + 1 pt HSOC-COC ¹	In Midwest, use 8-24 oz for annuals and 16-24 oz for perennials. In PNW, use 24-32 oz for perennials. 30 day PHI for dry beans and pea, 15 days for succulent beans and 50 days for lentil. Note 8.
PURSUIT 2L	D,S,G,L,U	Up to 3 fl oz + 2 pt NIS/100 gal	Use rate and restrictions vary by bean type, variety and soil. Crop tolerance is marginal. 60 day PHI. Do not apply until beans have one fully expanded trifoliolate. See label for specific crops and states.
RAPTOR	D	4 fl oz + 1 qt NIS/100 gal	POST: Apply when at least one fully expanded trifoliolate is present. COC and AMS or liquid N can be used with Raptor for enhanced weed control when 6-16 oz/A Basagran is used as a safener. Do not apply to garbanzo beans, snap, chickpea, or lentil. Maximum use rate is 4 oz/A/season. PHI 0 days, apply before bloom. Supplemental label for snaps in DE, ID, IN, IL, IA, MD, MI, MN, NY, OR, PA, VA, WA and WI and succulent lima beans in AR, DE, IL, IN, IA, KY, MD, MN, MO (boot heel), TN, VA and WI. See label for specific crops and states.
REFLEX/AGENT 1.88	D,S	0.75-1.5 pt/0.75-1.6 pt + 1-2 qt NIS or 0.25-0.5 gal HSOC-COC ¹ /100 gal	Use rates and seasonal use patterns vary by region, see label. Do not use liquid nitrogen as an adjuvant. Use a minimum of 10-20 GPA by ground and 5 GPA by air. Do not chemigate. Do not graze or harvest for forage or hay. Include adjuvants at or after 4 trifoliolate dry or 1 trifoliolate snap beans growth stage. 24(c) for use up to 1 pt/A in CO counties where D are grown under irrigation. Only apply in alternate years. Expires 12/31/19. Note 2.
SECTION THREE	D,S,G,L	4-10.67 fl oz + 1 pt HSOC-COC ¹ or HSOC-MSO ¹ or WC+NIS ² 2.5-5 gal/100 gal	30 day PHI. Maintain a 14 day interval for repeat application.
SELECT 2 EC/CLEANSE	D,S,L	6-16 fl oz + 0.5 gal HSOC-COC ¹ /100 gal	See label for rates for specific grass heights. PHI 30 days dry, 21 snap. Use Superb HC ¹ at 0.5 qt/A by ground or 1% v/v (but not less than 0.5 pt/A) by air.

*D – dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red),

SEE NOTES AT END OF SECTION.

S – snap beans (snaps, succulents), G – garbanzo/chickpea, L – lentil,

U – lupine (Phaseolus spp.: grain, white, sweet and white sweet lupine).

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

² Class Act NG or Flex, Alliance, or Ultra-Lite may be used where herbicides require NIS and AMS or a water conditioner.

BEAN (FIELD) WEED CONTROL

Postemergence Herbicides (continued)

Herbicide	Labeled Crops*	Rate/Acre	Comments/Restrictions
SELECT MAX	D, S, G, L, U	9-32 fl oz: D, G, L, U (dry) 9-16 fl oz: S (succulent) + 1 qt NIS/100 gal	AMS should be added. PHI 30 days dry (D, G, L, U) and 21 days succulent (S) and edible podded. If tank mixing, follow adjuvant recommendations of tank mix partner.
VARISTO	D, S	16-21 fl oz	After one fully-expanded trifoliolate leaf but before bloom stage to actively growing weeds at heights specified on label. Adjuvant and nitrogen fertilizer must be used. In MN, MO, ND, SD and WY use 11 fl oz/A mixed with 16 fl oz/A Basagran 5L and a graminicide to control volunteer canola and mustard species weeds.
Harvest Aid			
DEFOL 750	D	3.2 qt + 1 pt HSOC-COC ¹ or 1 qt NIS	Apply in 5-10 gal of water by air or 10-20 by ground. Thorough coverage is essential. Apply 7-10 days before harvest.
DURANGO DMA/ DURAMAX	D, G, L	Up to 19 fl oz: G, L Up to 24.75 fl oz: D + 8.5-17 lb AMS/100 gal ^a	Apply at hard dough (≤ 30% moisture). PHI 14 days for garbanzo and lupines, 7 days for dry beans. Supplemental for up to 24 fl oz in lentil and chick pea in ID, MN, MT, NE, ND, OR, SD, and WA. ^a Include WC+NIS ² as needed.
GRAMOXONE SL/SL 2.0	D, S, G, L, U	1.2-2 pt + 1 pt NIS/100 gal	Apply when at least 80% of pods are yellowing and no more than 30-40% of leaves are still green. Not labeled in CA. 7 day PHI. 2 pt NIS by air.
GLYPHOSATE	D, G, L	See label	Apply in 3-20 GPA water when crop is physiologically mature - hard dough and ≤30% moisture. Main label of Roundup PowerMax/WeatherMAX, RT3. Supplemental labels for: dry beans – Roundup WeatherMAX, Original Max, and Durango DMA/Duramax; dry pea, lentil, chickpea – Original Max, WeatherMAX, and Durango DMA/Duramax in ID, MN, MT, NE, ND, OR, SD, and WA. PHI from 7-14 days.
SHARPEN	D, L	1-2 fl oz + 0.75 pt HSOC-MSO ¹ + 8.5-17 lb AMS or 1.25-2.5 gal UAN/100 gal	Apply when dry edible beans (Phaseolus spp only) have reached physiological maturity, at least 80% yellow/brown pods and no more than 30% green leaves for vine type beans and no more than 40% green leaves for both type beans. PHI 2 days. May be mixed with glyphosate. Use ≥ 10 GPA by ground or ≥ 5 GPA by air. Do not use on seed production beans. May do sequential, but maximum of 2 fl oz/A/season. Note 4.
VALOR	D	1.5-3 oz	Apply when the crop is mature and pods are yellow and no more than 30-40% of leaves are green. Apply in ≥ 15 GPA. Include 1 qt/A MSO. 1-2 qt UAN/A or 2-2.5 lb AMS/A may improve deisication. PHI 5 days. See label for tank mixes with Gramoxone SL/SL 2.0 or Roundup PowerMAX in CO, ID, MI, MN, ND, NE, NM, OR, PA, SD, WA and WY.

*D – dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red), S – snap beans (snaps, succulents), G – garbanzo/chickpea, L – lentil, U – lupine (Phaseolus spp.: grain, white, sweet and white sweet lupine).

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

² Class Act NG or Flex, Alliance, or Ultra-Lite may be used where herbicides require NIS and AMS or a water conditioner.

Note 1: Do not feed or pasture vines to livestock for 45 days. No harmful soil residues should remain after harvest.

Note 2: May be applied through sprinkler irrigation systems.

Note 3: May be applied in fluid fertilizers.

Note 4: Do not graze or feed forage from treated fields to livestock.

Note 5: Do not use on Adzuki beans, cowpeas (blackeye peas, blackeye beans), soybeans, lima beans, Mung beans, Garbanzo beans, or other flat-podded beans except Romano.

Note 6: Do not plant oats or sorghum for 12 months. If less than 20" of water was used to produce crop, wait 18 months.



Note 7: See label for interval for planting sugarbeets.

Note 8: For certain weeds, the addition of UAN or AMS may be beneficial (see herbicide label).

Note 10: Do not cut for hay within 120 days of application.

BEAN (FIELD) INSECT CONTROL

Insect Treatment Guidelines

Insecticide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions	
APHID						ET: one or more colony of 30+ aphids per plant. Cruiser and Gaucho seed treatments provide early season protection.
ADMIRE PRO	D, S, G, L, U	7-10.5 fl oz	21	–	In-furrow spray at planting directed on or below seed or in a narrow band over seed incorporated 1-1.5" and followed by irrigation within 24 hours. May also be applied in a band directly below the eventual seed row in a bedding operation 7 or fewer days before planting. Apply at 1.2 fl oz foliar; PHI 7 days.	
ADVISE FOUR	D, S, G, L, U	8-12 fl oz	21	–	Soil application in-furrow, narrow band over row, or chemigation into root zone. Use 1.4 fl oz/A foliar. PHI 7 days foliar.	
ASANA XL	D, S, G, L	5.8-9.6 fl oz	3, 21	NO	Pea aphid and soybean aphid (except CA). PHI 3 days for snap, 21 days for other beans. Notes 1, 7.	
ASSAIL 30SG	S	2.5-5.3 oz	7	–	Control varies with aphid species.	
BAYTHROID XL	D, G, L, U	3.2 fl oz	7	NO	Suppression only. Maximum of 6.4 fl oz/A/season. Note 1.	
BESIEGE	D, S, G, L, U	6-9 fl oz	7, 21	NO	PHI 7 days edible and succulent and 21 days dried.	
BRIGADIER	D, S, G, L, U	3.8-5.6 fl oz	14	–	Note 1.	
DECLARE	D, S, G, L, U	1.02-1.54 fl oz	7-21	–	PHI 7 days for edible podded and succulent shelled, 21 days for dried shelled. Do not graze succulent and dried shelled peas and bean. Timing and frequency should be based on locally-determined economic thresholds. Apply in minimum 2 GPA by air.	
DIMATE 4E/DIMETHOATE 4E	D, S, G, L	0.5-1 pt	0, 14	NO	Do not apply if crop or weeds in treated area are in bloom. PHI 14 days lentil. 0.25-1 pt in WA only. Note 1.	
FASTAC EC/CS	D, S, G, L, U	3.2-3.8 fl oz	1, 21	–	PHI 1 for succulent and 21 days for dried. Aphid control may be variable.	
GRIZZLY TOO	D, S, G, L, U	1.28-1.92 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.	
HERO	D, S, G, L, U	4-10.3 fl oz	3, 21	–	PHI 3 days succulent beans and 21 days dried beans. Note 1.	
KARATE Z/WARRIOR II	D, S, G, L, U	1.28-1.92 fl oz or	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.	
LANNATE LV or SP	D, S, G, U	1.5-3 pt or 0.5-1 lb	1, 3, 14	3, 7, 14	See label for chemigation use rates in ID, MT, NV, OR, UT, WA. Notes 1 (for Lannate LV on D, S), 10.	
LEVERAGE 360	D, G, L, U	2.4-2.8 fl oz	7	NO	Note 1.	
MOVENTO/MOVENTO HL	D, S, G, L, U	4-5 fl oz/2-2.5 fl oz	1, 7	–	PHI 1 day edible podded and succulent, 7 days dry shelled. Must be applied with an adjuvant with spreading and penetrating properties. Note 1.	
MUSTANG MAXX	D, S, G, L, U	3.2-4 fl oz	1, 21	–	PHI 1 day succulent shelled or edible podded, 21 days dried shelled. Note 1.	
ONAGER	D, S	10-24 pt	15	NO	Western U.S only (see label for geography). For application prior to adult mite buildup (will not control adults). No more than 1 application/year.	
PARADIGM/LAMBDA-CY AG	D, S, G, L, U	2.56-3.84 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.	
SIVANTO PRIME	D, S, G, L, U	7-10.5 fl oz	7	7	Note 11.	
STEED	D, S, G, U	3.5-4.7 fl oz	21	–	PHI 3 days for succulent shelled or edible - podded peas or beans. Coverage is essential. Note 1.	
THIMET 20G	D	4.5-7 oz/1000' row	60	NO	Edible beans only. Drill granules to the side of seed. Do not place in direct contact with seed.	
TRANSFORM WG	D, S, G, U	0.75-1 oz	7	–	Do not apply this product until after petal fall. Note 12.	
TUNDRA/BRIGADE 2EC/ BIFEN 2 AG GOLD	D, S, G, L, U	2.1-6.4 fl oz	3, 14	–	Do not exceed 12.8 fl oz/season. PHI 3 days snap beans. Notes 1, 5.	
VOLIAM XPRESS	D, S, G, L, U	6-9 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans.	
ARMYWORM						ET: treat when > 25-30% of the foliage is destroyed or if significant injury to the pods is evident.
AGREE WG	D	0.5-2 lb	0	–	Labeled on beans. Treat when larvae are small, and repeat as necessary at 3 to 7 day intervals. Note 1.	
ASANA XL	D, S, G, L	5.8-9.6 fl oz	3, 21	NO	Beet armyworm suppression. Repeat as needed to maintain control. PHI 3 days for snap, 21 days for other beans. Notes 1, 7.	
BAYTHROID XL	D, G, L, U	2.4-3.2 fl oz	7	NO	Controls 1st and 2nd instar beet, fall, and yellow-striped armyworm. Maximum of 6.4 fl oz/A/season. Note 1.	
BESIEGE	D, S, G, L, U	6-9 fl oz	7, 21	NO	PHI 7 days edible and succulent and 21 days dried. Apply 9 fl oz/A for suppression of beet armyworm.	

PHI – preharvest interval days. G/F – grazing and feeding interval days. NO – do not graze or feed.

SEE NOTES AT END OF SECTION.


*D – dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red),

S – snap beans (snaps, succulents), G – garbanzo/chickpea,

L – lentil, U – lupine (Phaseolus spp.: grain, white, sweet and white sweet lupine).

BEAN (FIELD) INSECT CONTROL

Insect Treatment Guidelines (continued)

Insecticide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions
ARMYWORM (continued)					
BLACKHAWK	D,S,G,L,U	2.2-3.3 fl oz	3,28	NO	PHI 3 days for harvest as succulent or 28 days as dry. 5 day minimum interval between applications. Max. 6 applications per year.
BRIGADIER	D,S,G,L,U	5.6 fl oz	14	–	Excludes beet armyworm. Note 1.
CAPTURE LFR	D,S,G,L	3.4-6.8 fl oz	–	–	Band rate 0.2-0.39 fl oz/1000' row. Do not exceed 12.8 fl oz/season. Notes 1,5.
CORAGEN	D,S,G,L,U	3.5-5 fl oz	1	–	Beet and fall.
DECLARE	D,S,G,L,U	1.02-1.54 fl oz	7-21	–	PHI 7 days for edible podded and succulent shelled, 21 days for dried shelled. Do not graze succulent and dried shelled peas and bean. Timing and frequency should be based on locally-determined economic thresholds. Apply in minimum 2 GPA by air.
DIPEL ES	D,L	2-4 pt	0	–	First and second instars.
ENTRUST SC	D,S,G,L,U	4-6 fl oz	3,28	–	Use higher rate for heavy infestation or large insects. PHI 3 days succulent, 28 days dry. Notes 1,9.
FASTAC EC/CS	D,S,G,L,U	2.7-3.8 fl oz	1,21	–	PHI 1 for succulent and 21 days for dried. Aphid control may be variable.
GRIZZLY TOO	D,S,G,L,U	1.28-1.92 fl oz	7,21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
HERO	D,S,G,L,U	4-10.3 fl oz	3,21	–	PHI 3 days succulent beans and 21 days dried beans. Note 1.
INTREPID 2F	D,S,G,L,U	4-16 fl oz	7	–	Use 4-8 fl oz early season and 8-16 fl oz mid-to-late season. See label for types of armyworms controlled. Note 1.
KARATE Z/WARRIOR II	D,S,G,L,U	1.28-1.92 fl oz or	7,21	NO	Use 1.92 or 3.84 fl oz for beet armyworm suppression. PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
LANNATE LV or SP	D,S,G,L,U	1.5-3 pt or 0.5-1 lb	1,3,14	3,7,14	Use 1.5 pt or 0.5 lb for fall armyworm, 1.5-3 pt or 0.5-1 lb for beet, and yellow striped (inc. western). Western yellow striped labeled for lentil. See label for chemigation use rates in ID,MT,NV,OR,UT,WA. Notes 1 (for Lannate LV on D,S), 10.
LEVERAGE 360	D,G,L,U	2.4-2.8 fl oz	7	NO	First and second instars. Note 1.
MUSTANG MAXX	D,S,G,L,U	2.72-4 fl oz	1,21	–	PHI 1 day succulent shelled or edible podded, 21 days dried shelled. Use 3.2-4 fl oz on beet and fall armyworm. Note 1.
PARADIGM/LAMBDA-CY AG	D,S,G,L,U	2.56-3.84 fl oz	7,21	NO	Use 1.92 or 3.84 fl oz for beet armyworm suppression. PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1
RADIANT SC	D,S,G,L,U	4-8 fl oz	3,28	–	Not for yellow- or western-striped. PHI 3 days succulent, 28 days dry. Note 1.
SEVIN XLR PLUS	D,S,G,L,U	1-1.5 qt	3,21	14	PHI 3 for edible podded, 21 for dried, seed, or hay. Notes 1,3.
STEED	D,S,G,U	3.5-4.7 fl oz	21	–	PHI 3 days for succulent shelled or edible - podded peas or beans. For control of fall armyworm coverage is essential. Note 1.
TUNDRA/BRIGADE 2EC/ BIFEN 2 AG GOLD	D,S,G,L	2.1-6.4 fl oz	3,14	–	Do not exceed 12.8 oz/season. PHI 3 days snap beans. Notes 1,5.
VOLIAM XPRESS	D,S,G,L,U	6-9 fl oz	7,21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans.
XENTARI	D,L	0.5-2 lb	0	–	Bt. Use to control small worms. Note 1.
BEAN LEAF BEETLE					ET: treatment is suggested if 50% defoliation of seedlings or 25% defoliation during pod set or filling.
ASSAIL 30SG	S	2.5-5.3 oz	7	–	
BAYTHROID XL	D,G,L,U	2.4-3.2 fl oz	7	NO	Maximum of 6.4 fl oz/A/season. Note 1.
BESIEGE	D,S,G,L,U	6-9 fl oz	7,21	NO	PHI 7 days edible and succulent and 21 days dried.
BRIGADIER	D,S,G,L,U	5.6 fl oz	14	–	Note 1.
DECLARE	D,S,G,L,U	1.02-1.54 fl oz	7-21	–	PHI 7 days for edible podded and succulent shelled, 21 days for dried shelled. Do not graze succulent and dried shelled peas and bean. Timing and frequency should be based on locally-determined economic thresholds. Apply in minimum 2 GPA by air.
DIMATE 4E/DIMETHOATE 4E	D,S	0.5-1 pt	0,14	NO	Do not apply if crop or weeds in treated area are in bloom. Note 1.
FASTAC EC/CS	D,S,G,L,U	2.7-3.8 fl oz	1,21	–	PHI 1 for succulent and 21 days for dried.
GRIZZLY TOO	D,S,G,L,U	1.28-1.92 fl oz	7,21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
HERO	D,S,G,L,U	4-10.3 fl oz	3,21	–	PHI 3 days succulent beans and 21 days dried beans. Note 1.
KARATE Z/WARRIOR II	D,S,G,L,U	1.28-1.92 fl oz or	7,21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.

PHI – preharvest interval days. G/F – grazing and feeding interval days. NO – do not graze or feed.

SEE NOTES AT END OF SECTION.



*D – dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red),

S – snap beans (snaps, succulents), G – garbanzo/chickpea,

L – lentil, U – lupine (Phaseolus spp.: grain, white, sweet and white sweet lupine).

BEAN (FIELD) INSECT CONTROL

Insect Treatment Guidelines (continued)

Insecticide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions
BEAN LEAF BEETLE (continued)					
LEVERAGE 360	D, G, L, U	2.4-2.8 fl oz	7	NO	First and second instars. Note 1.
MUSTANG MAXX	D, S, G, L, U	2.72-4 fl oz	1, 21	–	PHI 1 day succulent shelled or edible podded, 21 days dried shelled. Note 1.
PARADIGM/LAMBDA-CY AG	D, S, G, L, U	2.56-3.84 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
SEVIN XLR PLUS	D, G, S, L, U	0.5-1 qt	3, 21	14	PHI 3 for edible podded, 21 for dried, seed, or hay. Notes 1, 3.
STEED	D, S, G, U	3.5-4.7 fl oz	21	–	PHI 3 days for succulent shelled or edible-podded peas or beans. Note 1.
TUNDRA/BRIGADE 2EC/ BIFEN 2 AG GOLD	D, S	2.1-6.4 fl oz	3, 14	–	Do not exceed 12.8 fl oz/A/season. PHI 3 days snap beans. Notes 1, 5.
VOLIAM XPRESS	D, S, G, L, U	6-9 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans.
CUTWORM 					ET: treat when one cutworm or more is found per 3' of row and the larvae are small (less than 3/4" long).
ASANA XL	D, S, G, L	5.8-9.6 fl oz	3, 21	NO	Repeat as needed to maintain control. PHI 3 days for snap, 21 days for other beans. Notes 1, 7.
BAYTHROID XL	D, G, L, U	0.8-1.6 fl oz	7	NO	Maximum of 6.4 fl oz/A/season. Note 1.
BESIEGE	D, S, G, L, U	5-8 fl oz	7, 21	NO	PHI 7 days edible and succulent and 21 days dried.
BRIGADIER	D, S, G, L, U	5.6 fl oz	14	–	Note 1.
CAPTURE LFR	D, S, G, L	3.4-6.8 fl oz	–	–	Controls cutworm and army cutworm. Do not exceed 12.8 fl oz/A/season. Notes 1, 5.
DECLARE	D, S, G, L, U	0.77-1.28 fl oz	7	–	Edible podded only. Timing and frequency should be based on locally-determined economic thresholds. Apply in minimum 2 GPA by air.
FASTAC EC/CS	D, S, G, L, U	1.3-3.8 fl oz	1, 21	–	PHI 1 for succulent and 21 days for dried.
GRIZZLY TOO	D, S, G, L, U	0.96-1.6 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
HERO	D, S, G, L, U	4-10.3 fl oz	3, 21	–	PHI 3 days succulent beans and 21 days dried beans. Note 1.
KARATE Z/WARRIOR II	D, S, G, L, U	0.96-1.60 fl oz or	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
LANNATE LV or SP	D, S, G, U	1.5 pt or 0.5 lb	1, 3, 14	3, 7, 14	Variegated cutworm. See label for chemigation use rates in ID, MT, NV, OR, UT, WA. Notes 1 (for Lannate LV on D, S), 10.
LEVERAGE 360	D, G, L, U	2.4-2.8 fl oz	7	NO	Note 1.
MUSTANG MAXX	D, S, G, L, U	1.28-4 fl oz	1, 21	–	PHI 1 day succulent shelled or edible podded, 21 days dried shelled. May apply Mustang Maxx in 5-7" band at 4 fl oz/A. Note 1.
PARADIGM/LAMBDA-CY AG	D, S, G, L, U	1.92-3.2 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
SEVIN XLR PLUS	D, G, S, L	1-1.5 qt	3, 21	14	PHI 3 for edible podded, 21 for dried, seed, or hay. Most effective on foliage feeding cutworms. Notes 1, 3.
STEED	D, S, G, U	3.5-4.7 fl oz	21	–	PHI 3 days for succulent shelled or edible - podded peas or beans. Note 1.
TUNDRA/BRIGADE 2EC/ BIFEN 2 AG GOLD	D, S, G, L	2.1-6.4 fl oz	3, 14	–	Do not exceed 12.8 fl oz/A/season. PHI 3 days snap beans. Notes 1, 5.
VOLIAM XPRESS	D, S, G, L, U	5-8 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans.
EUROPEAN CORN BORER or CORN EARWORM 					
AGREE WG	D	0.5-2 lb	0	–	Labeled on beans. Treat when larvae are small, and repeat as necessary at 3 to 7 day intervals. Note 1.
ASANA XL	D, S, G, L	5.8-9.6 fl oz	3, 21	NO	Repeat as needed to maintain control. PHI 3 days for snap, 21 days for other beans. Notes 1, 7.
AVAUNT	D, G, L, U	3.5-6 oz	7	–	No more than 4 applications per crop and the minimal interval between sprays is 7 days.
BAYTHROID XL	D, G, L, U	2.4-3.2 fl oz	7	NO	Maximum of 6.4 fl oz/A/season. Note 1.
BESIEGE	D, S, G, L, U	6-9 fl oz	7, 21	NO	PHI 7 days edible and succulent and 21 days dried.
BLACKHAWK	D, S, G, L, U	1.7-3.3 fl oz	3, 28	NO	Use a minimum of 2.2 oz/A for corn earworm. PHI 3 days for harvest succulent or 28 days dry. 5 day minimum interval between applications. Max. 6 applications per year.
BRIGADIER	D, S, G, L, U	5.6 fl oz	14	–	Note 1.

PHI – preharvest interval days. G/F – grazing and feeding interval days. NO – do not graze or feed.

SEE NOTES AT END OF SECTION.


*D – dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red),

S – snap beans (snaps, succulents), G – garbanzo/chickpea,

L – lentil, U – lupine (Phaseolus spp.: grain, white, sweet and white sweet lupine).

BEAN (FIELD) INSECT CONTROL

Insect Treatment Guidelines (continued)

Insecticide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions
EUROPEAN CORN BORER or CORN EARWORM (continued)					
CAPTURE LFR	D, S, G, L	3.4-6.8 fl oz	–	–	Band rate 0.2-0.39 fl oz/1000'. Do not exceed 12.8 fl oz/A/season. Notes 1, 5.
CORAGEN	D, S, G, L, U	3.5-5 fl oz	1	–	
DECLARE	D, S, G, L, U	1.02-1.54 fl oz	7-21	–	PHI 7 days for edible podded and succulent shelled, 21 days for dried shelled. Timing and frequency should be based on locally-determined economic thresholds. Apply in minimum 2 GPA by air.
ENTRUST SC	D, S, G, L, U	3-6 fl oz	3, 28	–	3-6 fl oz for ECB eggs and larva, 4-6 fl oz/A for corn earworm. Use higher rate for heavy infestation or large insects. PHI 3 days succulent, 28 days dry. Notes 1, 9.
FASTAC EC/CS	D, S, G, L, U	2.7-3.8 fl oz	1, 21	–	PHI 1 for succulent and 21 days for dried. Aphid control may be variable.
GRIZZLY TOO	D, S, G, L, U	1.28-1.92 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
HERO	D, S, G, L, U	4-10.3 fl oz	3, 21	–	PHI 3 days succulent beans and 21 days dried beans. Note 1.
INTREPID 2F	D, S, G, L, U	4-16 fl oz	7	–	Use 4-8 fl oz early season and 8-16 fl oz mid-to-late season. Use 10-16 fl oz/A for suppression of earworm. Note 1.
KARATE Z/WARRIOR II	D, S, G, L, U	1.28-1.92 fl oz or	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
LANNATE LV or SP	D, S, G, U	1.5-3 pt or 0.5-1 lb	1, 3, 14	3, 7, 14	Notes 1 (for Lannate LV on D, S), 10.
LEVERAGE 360	D, G, L, U	2.4-2.8 fl oz	7	NO	Note 1.
MUSTANG MAXX	D, S, G, L, U	2.72-4 fl oz	1, 21	–	PHI 1 day succulent shelled or edible podded, 21 days dried shelled. Note 1.
PARADIGM/LAMBDA-CY AG	D, S, G, L, U	2.56-3.84 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
RADIANT SC	D, S, G, L, U	3-8 fl oz	3, 28	–	3-8 fl oz/A for ECB eggs and larva, 4-8 fl oz/A for corn earworm. PHI 3 days succulent, 28 days dry. Note 1.
SEVIN XLR PLUS	D, G, S, L, U	1-1.5 qt	3, 21	14	PHI 3 for edible podded, 21 for dried, seed, or hay. Use 0.5-1 qt/A for earworm. Notes 1, 3.
STEED	D, S, G, U	3.5-4.7 fl oz	21	–	PHI 3 days for succulent shelled or edible - podded peas or beans. Coverage is essential. Note 1.
	D, G, L, U	6.7-11.3 fl oz	7	–	No more than 4 applications per crop and the minimal interval between sprays is 7 days.
STEWARD EC	D, G, L, U	6.7-11.3 fl oz	7	–	No more than 4 applications per crop and the minimal interval between sprays is 7 days.
TUNDRA/BRIGADE 2EC	D, S, G, L	2.1-6.4 fl oz	3, 14	–	Do not exceed 12.8 oz/season. PHI 3 days snap beans. Notes 1, 5.
BIFEN 2 AG GOLD					
VOLIAM XPRESS	D, S, G, L, U	6-9 fl oz	7, 21	NO	Suppression. PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans.
GRASSHOPPER					ET: treat when 20 or more adults per square yard in field margins or 8-14 per square yard are occurring in the crop.
ASANA XL	D, S, G, L	5.8-9.6 fl oz	3, 21	NO	PHI 3 days for snap, 21 days for other beans. Notes 1, 7.
BAYTHROID XL	D, S, G, L	2.4-3.2 fl oz	7	NO	Maximum of 6.4 fl oz/A/season. Note 1.
BESIEGE	D, S, G, L, U	6-9 fl oz	7, 21	NO	PHI 7 days edible and succulent and 21 days dried.
BRIGADIER	D, S, G, L, U	3.8-5.6 fl oz	14	–	Note 1.
DECLARE	D, S, G, L, U	1.02-1.54 fl oz	7-21	–	PHI 7 days for edible podded and succulent shelled, 21 days for dried shelled. Timing and frequency should be based on locally-determined economic thresholds. Apply in minimum 2 GPA by air.
DIMATE 4E/DIMETHOATE 4E	D, S, G	0.5-1 pt	0	NO	Do not apply if crop or weeds in treated area are in bloom. Note 1.
FASTAC EC/CS	D, S, G, L, U	3.2-3.8 fl oz	1, 21	–	PHI 1 for succulent and 21 days for dried.
GRIZZLY TOO	D, S, G, L, U	1.28-1.92 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
HERO	D, S, G, L, U	4-10.3 fl oz	3, 21	–	PHI 3 days succulent beans and 21 days dried beans. Note 1.
KARATE Z/WARRIOR II	D, S, G, L, U	1.28-1.92 fl oz or	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
LEVERAGE 360	D, G, L, U	2.4-2.8 fl oz	7	NO	Note 1.
MUSTANG MAXX	D, S, G, L, U	3.2-4 fl oz	1, 21	–	PHI 1 day succulent shelled or edible podded, 21 days dried shelled. Note 1.
PARADIGM/LAMBDA-CY AG	D, S, G, L, U	2.56-3.84 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
STEED	D, S, G, U	3.5-4.7 fl oz	21	–	PHI 3 days for succulent shelled or edible - podded peas or beans. Note 1.
TUNDRA/BRIGADE 2EC	D, S, G, L	1.6-6.4 fl oz	3, 14	–	Do not exceed 12.8 fl oz/A/season. PHI 3 days snap beans. Notes 1, 5.
BIFEN 2 AG GOLD					

PHI – preharvest interval days. G/F – grazing and feeding interval days. NO – do not graze or feed.

SEE NOTES AT END OF SECTION.



*D – dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red),

S – snap beans (snaps, succulents), G – garbanzo/chickpea,

L – lentil, U – lupine (Phaseolus spp.: grain, white, sweet and white sweet lupine).

BEAN (FIELD) INSECT CONTROL

Insect Treatment Guidelines (continued)

Insecticide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions
GRASSHOPPER (continued)					
VOLIAM XPRESS	D, S, G, L, U	6-9 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans.
GREEN CLOVERWORM					
					
The only larva to wiggle violently when touched. ET: >25% defoliation or if there are >15 larvae at green pod stage.					
AGREE WG	D	0.5-2 lb	0	–	Labeled on beans. Treat when larvae are small, and repeat as necessary at 3 to 7 day intervals. Note 1.
ASANA XL	D, S, G, L	5.8-9.6 fl oz	3, 21	NO	Repeat as needed to maintain control. PHI 3 days for snap, 21 days for other beans. Notes 1, 7.
BAYTHROID XL	D, G, L, U	2.4-3.2 fl oz	7	NO	Maximum of 6.4 fl oz/A/season. Note 1.
DECLARE	D, S, G, L, U	0.77-1.28 fl oz	7-21	–	Edible podded only. Timing and frequency should be based on locally-determined economic thresholds. Apply in minimum 2 GPA by air.
DIPEL ES	D, L	1-2 pt	0	–	Bt.
FASTAC EC/CS	D, S, G, L, U	2.7-3.8 fl oz	1, 21	–	PHI 1 for succulent and 21 days for dried.
GRIZZLY TOO	D, S, G, L, U	0.96-1.6 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
HERO	D, S, G, L, U	4-10.3 fl oz	3, 21	–	PHI 3 days succulent beans and 21 days dried beans. Note 1.
KARATE Z/WARRIOR II	D, S, G, L, U	0.96-1.60 fl oz or	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
LEVERAGE 360	D, G, L, U	2.4-2.8 fl oz	7	NO	Note 1.
MUSTANG MAXX	D, S, G, L, U	2.72-4 fl oz	1, 21	–	PHI 1 day succulent shelled or edible podded, 21 days dried shelled. Note 1.
PARADIGM/LAMBDA-CY AG	D, S, G, L, U	1.92-3.2 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
SEVIN XLR PLUS	D, G, S, L, U	0.5-1 qt	3, 21	14	PHI 3 for edible podded, 21 for dried, seed, or hay. Use 0.5-1 qt/A for earworm. Notes 1, 3.
STEED	D, S, G, U	3.5-4.7 fl oz	21	–	PHI 3 days for succulent shelled or edible - podded peas or beans. Note 1.
TUNDRA/BRIGADE 2EC/ BIFEN 2 AG GOLD	D, S, G, L	2.1-6.4 fl oz	3, 14	–	Do not exceed 12.8 fl oz/A/season. PHI 3 days snap beans. Notes 1, 5.
VOLIAM XPRESS	D, S, G, L, U	5-8 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans.
XENTARI	D, L	0.5-1.5 lb	0	–	Bt. Note 1.
LEAFHOPPER					
					
Early season protection is provided by Cruiser seed treatment. ET: treat when there is an average of one or more leafhopper per trifoliolate or 0.5-1 adult/sweep or 1 nymph/10 leaves.					
ADMIRE PRO	D, S, G, L, U	7-10.5 fl oz	21	–	In-furrow spray at planting directed on or below seed or in a narrow band over seed incorporated 1-1.5" and followed by irrigation within 24 hours. May also be applied in a band directly below the eventual seed row in a bedding operation 7 or fewer days before planting. Apply 1.2 fl oz foliar; PHI 7 days.
ADVISE FOUR	D, S, G, L, U	8-12 fl oz	21, 7	–	Soil application in-furrow, narrow band over row, or chemigation into root zone. Use 1.4 fl oz/A foliar. PHI 7 days foliar.
ASANA XL	D, S, G, L	2.9-9.6 fl oz	3, 21	NO	Repeat as needed to maintain control. PHI 3 days for snap, 21 days for other beans. Notes 1, 7.
ASSAIL 30SG	S	2.5-5.3 oz	7	–	
BAYTHROID XL	D, G, L, U	0.8-1.6 fl oz	7	NO	Maximum of 6.4 fl oz/A/season. Note 1.
BESIEGE	D, S, G, L, U	6-9 fl oz	7, 21	NO	PHI 7 days edible and succulent and 21 days dried.
BRIGADIER	D, S, G, L, U	3.8-5.6 fl oz	14	–	Note 1.
DECLARE	D, S, G, L, U	1.02-1.54 fl oz	7-21	–	PHI 7 days for edible podded and succulent shelled, 21 days for dried shelled. Timing and frequency should be based on locally-determined economic thresholds. Apply in minimum 2 GPA by air.
DIMATE 4E/DIMETHOATE 4E	D, S, G	0.5-1 pt	0	NO	Do not apply if crop or weeds in treated area are in bloom. Note 1.
FASTAC EC/CS	D, S, G, L, U	2.7-3.8 fl oz	1, 21	–	PHI 1 for succulent and 21 days for dried.
GRIZZLY TOO	D, S, G, L, U	1.28-1.92 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
HERO	D, S, G, L, U	4-10.3 fl oz	3, 21	–	PHI 3 days succulent beans and 21 days dried beans. Note 1.
KARATE Z/WARRIOR II	D, S, G, L, U	1.28-1.92 fl oz or	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
LANNATE LV or SP	D, S, G, U	0.75-3 pt or 0.25-1 lb	1, 3, 14	3, 7, 14	Notes 1 (for Lannate LV on D, S), 10.

PHI – preharvest interval days. G/F – grazing and feeding interval days. NO – do not graze or feed.

SEE NOTES AT END OF SECTION.



*D – dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red),

S – snap beans (snaps, succulents), G – garbanzo/chickpea,

L – lentil, U – lupine (Phaseolus spp.: grain, white, sweet and white sweet lupine).

BEAN (FIELD) INSECT CONTROL

Insect Treatment Guidelines (continued)

Insecticide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions
LEAFHOPPER (continued)					
LEVERAGE 360	D, G, L, U	2.4-2.8 fl oz	7	NO	Note 1.
MSR	D	2 pt	21	21	For lima beans only. Note 1.
MUSTANG MAXX	D, S, G, L, U	2.72-4 fl oz	1, 21	–	PHI 1 day succulent shelled or edible podded, 21 days dried shelled. Note 1.
PARADIGM/LAMBDA-CY AG	D, S, G, L, U	2.56-3.84 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
SEVIN XLR PLUS	D, G, S, L, U	1 qt	3, 21	14	PHI 3 for edible podded, 21 for dried, seed, or hay. Use 0.5-1 qt/A for earworm. Notes 1, 3.
STEED	D, S, G, U	3.5-4.7 fl oz	21	–	PHI 3 days for succulent shelled or edible - podded peas or beans. Note 1.
SIVANTO PRIME	D, S, G, L, U	7-10.5 fl oz	7	7	Note 11.
THIMET 20G	D	4.5-7 oz/1000' row	60	NO	Edible beans only. Drill granules to the side of seed. Do not place in direct contact with seed (30" rows).
TUNDRA/BRIGADE 2EC	D, S, G, L	1.6-6.4 fl oz	3, 14	–	Do not exceed 12.8 fl oz/A/season. PHI 3 days snap beans. Notes 1, 5.
BIFEN 2 AG GOLD					
VOLIAM XPRESS	D, S, G, L, U	6-9 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans.
MEXICAN BEAN BEETLE				ET: control of first generation needs to be considered if defoliation reaches 40-50%. Control of second generation should be attempted at 1 larvae/plant or if defoliation exceeds 10-20%.	
ASANA XL	D, S, G, L	2.9-5.8 fl oz	3, 21	NO	Repeat as needed to maintain control. PHI 3 days for snap, 21 days for other beans. Notes 1, 7.
ASSAIL 30SG	S	2.5-5.3 oz	7	–	
BAYTHROID XL	D, G, L, U	2.4-3.2 fl oz	7	NO	Maximum of 6.4 fl oz/A/season. Note 1.
BRIGADIER	D, S, G, L, U	5.6 fl oz	14	–	Note 1.
DECLARE	D, S, G, L, U	0.77-1.28 fl oz	7	–	Edible podded only. Timing and frequency should be based on locally-determined economic thresholds. Apply in minimum 2 GPA by air.
DIMATE 4E/DIMETHOATE 4E	D, S	0.5-1 pt	0, 14	NO	Do not apply if crop or weeds in treated area are in bloom. PHI 14 days lentil. Note 1.
FASTAC EC/CS	D, S, G, L, U	2.7-3.8 fl oz	1, 21	–	PHI 1 for succulent and 21 days for dried.
GRIZZLY TOO	D, S, G, L, U	0.96-1.6 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
HERO	D, S, G, L, U	4-10.3 fl oz	3, 21	–	PHI 3 days succulent beans and 21 days dried beans. Note 1.
KARATE Z/WARRIOR II	D, S, G, L, U	0.96-1.60 fl oz or	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
LANNATE LV or SP	D, S, G, U	1.5-3 pt or 0.5-1 lb	1, 3, 14	3, 7, 14	Notes 1 (for Lannate LV on D, S), 10.
LEVERAGE 360	D, G, L, U	2.4-2.8 fl oz	7	NO	Note 1.
MUSTANG MAXX	D, S, G, L, U	2.72-4 fl oz	1, 21	–	PHI 1 day succulent shelled or edible podded, 21 days dried shelled. Note 1.
PARADIGM/LAMBDA-CY AG	D, S, G, L, U	1.92-3.2 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
THIMET 20G	D	4.9-9.4 oz/1000' row	60	NO	Edible beans only. Drill granules to the side of seed. Do not place in direct contact with seed. (30" rows)
SEVIN XLR PLUS	D, G, S, L, U	0.5-1 qt	3, 21	14	PHI 3 for edible podded, 21 for dried, seed, or hay. Use 0.5-1 qt/A for earworm. Notes 1, 3.
STEED	D, S, G, U	3.5-4.7 fl oz	21	–	PHI 3 days for succulent shelled or edible - podded peas or beans. Note 1.
TUNDRA/BRIGADE 2EC	D, G, L	2.1-6.4 fl oz	14	–	Do not exceed 12.8 fl oz/A/season. Notes 1, 5.
BIFEN 2 AG GOLD					
VOLIAM XPRESS	D, S, G, L, U	5-8 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans.

PHI – preharvest interval days. G/F – grazing and feeding interval days. NO – do not graze or feed.

SEE NOTES AT END OF SECTION.


*D – dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red),

S – snap beans (snaps, succulents), G – garbanzo/chickpea,

L – lentil, U – lupine (Phaseolus spp.: grain, white, sweet and white sweet lupine).

BEAN (FIELD) INSECT CONTROL

Insect Treatment Guidelines (continued)

Insecticide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions
WESTERN BEAN CUTWORM					Scout for larvae in the evening because they hide in the soil during the day. If a field has been or is going to receive a foliar treatment for Mexican bean beetle, it is unlikely that it will need to be treated for Western bean cutworm. ET: in irrigated beans 2 larvae/row foot and in dryland, 1 larva/2 feet of row or treat when about 4-8% of pods show feeding.
ASANA XL	D, S, G, L	5.8-9.6 fl oz	21	NO	Repeat as needed to maintain control. PHI 3 days for snap, 21 days for other beans. Notes 1, 7.
BAYTHROID XL	D, G, L, U	0.8-1.6 fl oz	7	NO	Maximum of 6.4 fl oz/A/season. Note 1.
BESIEGE	D, S, G, L, U	6-9 fl oz	7, 21	NO	PHI 7 days edible and succulent and 21 days dried.
DECLARE	D, S, G, L, U	1.02-1.54 fl oz	7-21	-	PHI 7 days for edible podded and succulent shelled, 21 days for dried shelled. Timing and frequency should be based on locally-determined economic thresholds. Apply in minimum 2 GPA by air.
FASTAC EC/CS	D, S, G, L, U	1.3-3.8 fl oz	1, 21	-	PHI 1 for succulent and 21 days for dried. Aphid control may be variable.
GRIZZLY TOO	D, S, G, L, U	1.28-1.92 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
HERO	D, S, G, L, U	4-10.3 fl oz	3, 21	-	PHI 3 days succulent beans and 21 days dried beans. Note 1.
KARATE Z/WARRIOR II	D, S, G, L, U	1.28-1.92 fl oz or	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
PARADIGM/LAMBDA-CY AG	D, S, G, L, U	2.56-3.84 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans. Note 1.
SEVIN XLR PLUS	D, G, S, L, U	1 qt	3, 21	14	PHI 3 for edible podded, 21 for dried, seed, or hay. Notes 1, 3.
STEED	D, S, G, U	3.5-4.7 fl oz	21	-	PHI 3 days for succulent shelled or edible - podded peas or beans. Note 1.
TUNDRA/BRIGADE 2EC BIFEN 2 AG GOLD	D, S, G, L	2.1-6.4 fl oz	3, 14	-	Do not exceed 12.8 fl oz/A/season. PHI 3 days snap beans. Notes 1, 5.
VOLIAM XPRESS	D, S, G, L, U	6-9 fl oz	7, 21	NO	PHI 7 days for edible podded and shelled beans and 21 days for dried shelled beans.

PHI – preharvest interval days. G/F – grazing and feeding interval days.
NO – do not graze or feed.

*D – dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red), S – snap beans (snaps, succulents), G – garbanzo/chickpea, L – lentil, U – lupine (Phaseolus spp.: grain, white, sweet and white sweet lupine).

Note 1: May be applied through sprinkler irrigation systems (see label).

Note 2: Do not exceed 2.125 lb/A/season.

Note 3: Observe bee precautions on label. Do not apply to wet foliage or in rain or high humidity.

Note 4: To avoid injuring bees, do not apply during the period from 7 days prior to first bloom through peak bloom. After this time, apply to beans as long as bees are not actively visiting the area.

Note 5: Bracket/Orthene: ≥2 GPA by air and 20-100 GPA by ground.

Tundra/Brigade 2EC/Bifen 2 AG Gold: ≥2 GPA by air or 10 GPA by ground.

Note 6: Do not apply within 14 days of grazing or harvest for forage or within 3 days of harvest of fresh beans or peas, or within 21 days of harvest of dried beans or peas, seed or hay.

Note 7: Do not exceed 0.2 lb a.i. season.

Note 8: PHI 3 days for succulent beans and pea. Do not apply more than a total of 20 oz (0.45 lb ai spinosad)/A/season. PHI 28 days in dried beans or peas. Do not apply more than a total of 8.3 oz (0.188 lb ai spinosad)/A/season.

Note 9: Do not feed forage or hay to meat or dairy animals.

Note 10: PHI succulent – 1 day for ≤ 1.5 pt, 3 days for > 1.5 pt, 3 days vines, 7 days hay. PHI dry – 14 days harvest, vines, or hay.

Note 11: Sivanto prime: Minimal application interval 10 days. Maximum per year: 28 fl oz/A. Minimum application volume ground 10 GPA, air 2 GPA. Check label. Not labeled in all states.

Note 12: Do not apply within 7 days of harvest. Do not make applications <14 days apart. Do not make >4 applications/crop nor >2 consecutive applications/crop. Do not apply >8.5 oz/A/year (0.266 lb ai sulfoxaflor/A/year). If blooming vegetation is present 12' out from downwind edge of field, a downwind 12' on-field buffer must be observed. Do not use on soybeans.

BEAN (FIELD) DISEASE CONTROL

Labeled Fungicides

FIELD BEAN	DISEASE*	FUNGICIDE																					
		Approach	Aprovia Top	Badge SC/ Badge X2	BIO-TAM	Blocker 10G	Blocker 4F	Bona Ultra/WeatherStik/Bona Q/Priz	Cannonball WP/WG	Cerobin	Confine Extra	Contans WG	Cuprofix Ultra-40 Dispers	Delaro 325 SC	Endura	Fontelis	Forum ²	Headline SC	Inspire Super	Kocide 2000/3000	Microthiol Dispers	Omega 500F	Onset 3.6L
Dry/Field Beans (D)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Snap Beans (S)				✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓			✓		
Garbanzo/Chickpea (G)		✓	✓	✓	✓			✓	✓	✓	✓	✓		✓	✓			✓	✓				
Lentil (L)		✓	✓	✓	✓						✓	✓		✓	✓			✓					
Lupine (U)		✓	✓	✓	✓			✓	✓	✓		✓			✓			✓				✓	
Alternaria Blight		●	●													●		●	●				
Alternaria Leaf Spot		●														●		●	●				
Anthraxnose		●	●	●			●	●					●		●			●	●				
Ascochyta Blight		●	●				●						●	●	●			●	●				
Ascochyta Leaf and Pod Spot																		●	●				
Ascochyta Leaf Spot		●													●			●					
Botrytis Gray Mold							● ³	●	●				●	●				●				●	
Brown Spot				●								●								●			
Common Blight				●								●								●			
Downy Mildew		●		●			●			●		●					●	●					
Halo Blight				●								●								●			
Mycosphaerella Blight		●	●															●					
Powdery Mildew		●	●							●						●		●	● ⁶		●		
Pythium					●																		
Rhizoctonia Root Rot					●	●	●			●						●							
Rust		●					●					●		●	●			●					●
Southern Blight																							
Web Blight																							
White Mold (Sclerotinia)		●			●	● ⁴		●	●		●		●	●	●						●		

* Many other diseases may be controlled, see label.

S - Suppression only.

So - soil applied.

¹Dry bean only.

²Lima bean, succulent seed only.

³Snap bean only; Ultrex and WeatherStik only.

⁴Dry or snap bean only (not succulent).

⁵24c, 2ee or Supplemental label.

⁶Garbanzo/Chickpea only.



See Fungicide Resistance Management in the TECHNICAL INFORMATION section.

BEAN (FIELD) DISEASE CONTROL

Labeled Fungicides (continued)

FIELD BEAN	DISEASE*	FUNGICIDE																	
		Previsto	Priaxor	Proline	Propulse	Quadris Opti	Quadris Top	Quit/Quit Xcel	Rally 40WSP	Ridomil Gold Copper	Ridomil Gold PC	Rovral 4F	Serenade ASO	Switch	Tetranban	Tilt	Topsin M 70WP/MSB	Uniform	Xanthion
Dry/Field Beans (D)		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Snap Beans (S)			✓					✓	✓	✓		✓	✓	✓	✓	✓	✓		
Garbanzo/Chickpea (G)		✓	✓	✓	✓		✓				✓	✓	✓	✓	✓	✓	✓	✓	✓
Lentil (L)		✓	✓	✓		✓						✓		✓	✓	✓	✓	✓	✓
Lupine (U)		✓	✓	✓	✓		✓				✓	✓	✓	✓	✓	✓	✓	✓	✓
Alternaria Blight						●	●							●	●				●
Alternaria Leaf Spot			●			●	●							●	●				●
Anthraxnose			●		●	●	●							●	●	●			●
Ascochyta Blight			●	●	●		●	●						●	●				●
Ascochyta Leaf and Pod Spot						●	●							●	●				
Ascochyta Leaf Spot							●							●	●				●
Botrytis Gray Mold			●								●					●			
Brown Spot			●																
Common Blight			●																
Downy Mildew			●	●					●										
Halo Blight			●																
Mycosphaerella Blight			●		●														
Powdery Mildew			●																●
Pythium									●	So	So						So	So, S ⁵	
Rhizoctonia Root Rot										So	So			So			So		
Rust			●	● ¹		●		●	●			●	●	●					●
Southern Blight								●						●	●				
Web Blight								●						●	●				
White Mold (Sclerotinia)			S	●	●					●	●	●				●			●

* Many other diseases may be controlled, see label.

S - Suppression only.



See Fungicide Resistance Management in the TECHNICAL INFORMATION section.

So - soil applied.

¹Dry bean only.

²Lima bean, succulent seed only.

³Snap bean only; Ultrex and WeatherStik only.

⁴Dry or snap bean only (not succulent).

⁵24c, 2ee or Supplemental label.

⁶Garbanzo/Chickpea only.

Disease Treatment Guidelines

Fungicide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions
Soil Application					
BLOCKER 10G	S	1 lb/1000' row (bush) 1-2 lb/1000' row (pole)	-	NO	Apply in furrow as 12-15" band over seed at planting time and immediately cover soil.
BLOCKER 4F	D,S	1.5-3 pt (root rot) 4 pt (white mold)	-	NO	Based on 36" row spacing. Avoid application directly to seed. Do not exceed 10 lb a.i./A per season. Root rot: Apply in seed furrow and to the covering soil at planting. 1.5-2 pt/A in AZ, CA. 2-3 pt/A all other states. White mold: Spray on 8" band centered on row immediately after or at time of planting. Not for use in CA on dry or snap beans for control of White Mold.
FONTELIS		1.2-1.6 fl oz	0	-	Apply at-plant, in-furrow or transplant seedling application.
RIDOMIL GOLD PC GR	D	12 oz/1000' row	-	NO	Apply at planting.
SERENADE ASO	D,S,G,L,U	2-6 qt	-	-	Supplemental label (exp. date not given): Bacillus subtilis is a biological fungicide. Drench at planting or at any stage of growth; shanked-in and injected; in-furrow. See supplemental label for additional information.

PHI - preharvest interval days.

G/F - grazing and feeding interval days.

NO - do not graze or feed.

SEE NOTES AT END OF SECTION.

BEAN (FIELD) DISEASE CONTROL

Disease Treatment Guidelines (continued)					
Fungicide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions
Soil Application (continued)					
TETRABAN	D, S, G, L, U	0.4-0.8 fl oz/1000' row	0, 14	–	PHI 14 days for dry bean and dry pea seeds, 0 days for succulent beans and peas. See label for application instructions and in-furrow or banded rates.
UNIFORM	D, S, G, L, U	0.34 fl oz/1000' row			Apply in-furrow in a 7" band.
XANTHION		0.6-1.8 fl oz Component A; 3-9 fl oz Component B			Supplemental label (exp. 7/2019): Dried shelled peas; rate based on row spacing (see label); apply in-furrow.
Foliar					
APPROACH	D, G, L, U	6-12 fl oz	14, 0	–	PHI 14 days for seed, 0 days for vine and hay. Apply prior to disease development, continue on 7-14 day interval. 8-12 fl oz/A for white mold. Notes 1, 2.
APROVIA TOP	D, G, L, U	10.5-11 fl oz	14	–	For control of diseases in dried shelled beans only. No more than 2 applications on a 7-day interval. All other applications must be applied no closer than a 14 day interval. No more than 22 fl oz/A/year. See label for annual a.i. restrictions.
BADGE SC OR BADGE X2	D, S	0.5-2 pt or 0.5-2 lb	0	NR	For protective sprays make first application when plants are 6" high. Higher rates when disease pressure is high. Badge X2 is OMRI listed.
BIO-TAM	D, S, G, L, U	2.5-5 lb	–	–	Can be applied in-furrow (1.5-3 oz/1000 row') and banded (2.5-3 lb/A). Broadcast apply at sowing, restart of vegetative growth and before the infection risk period. Note 2.
BRAVO WEATHER STIK/ PRAIZ or ULTREX or ZN	D, S, G, L, U	1.375-2 pt or 1.25-1.8 lb or 2-2.75 pt	7, 14	NO	Use up to 3 pt/A, 3.6 lb/A, or 1.25-2.7 pt/A for snap beans. Use sufficient water to obtain coverage. Repeat at 7-10 day intervals. PHI 7 days for snaps. Notes 1, 2.
CANNONBALL WP/WG	D, S, G, U	7 oz	7	–	Begin prior to onset of disease development and repeat at 7 days. For white mold, apply the first time at 10-20% bloom. Maximum 2 sequential and 28 oz/A total. Notes 1, 2.
CERCOBIN	D, S, G, U	21.8-43.6 fl oz	14 ^A , 28 ^A	–	Apply 32.7-43.6 fl oz/A as a single application when 100% plants have 1 open bloom. Apply 21.8-32.7 fl oz/A in first application when 10% plants have 1 open bloom make second application 4-7 days later. ^A CA: PHI 14 succulent, 28 days dry and lima. All other states: PHI 14 for succulent and lima, 28 for dry.
CONFINE EXTRA	D, G, L	1-4 qt	0	–	Apply 1-3 qt/A through foliar in minimum 20 GPA and through aerial in minimum 10 GPA. Apply 2-4 qt/A through irrigation.
CONTANS WG	D, S, G, L, U	1-4 lb	0	–	Apply prior to planting, at planting, or after crop emergence. Incorporate into soil to 2". Make 2 applications, but no more than 8, for maximum efficacy. Note 2.
CUPROFIX ULTRA 40 DISPERS	D	0.75-2 lb	–	–	Use high rates when conditions favor disease development. For protective sprays, make first application when plants are 6 inches high and repeat on a 7-14 day schedule depending upon environmental conditions. Notes 1, 2.
DELARO 325 SC	G, L	12 fl oz	30	7	Begin applications preventively and continue on a 10- to 14-day schedule. No more than 2 applications/year.
ENDURA	D, S, G, L, U	8-11 oz	21, 7	–	Use 8-11 oz/A for dried and succulent beans and 6 oz/A for chick pea and lentil. Maximum of 2 applications/season. PHI 7 days for succulent beans. Apply at the beginning of flowering or prior to onset of disease. NIS at 0.25% v/v may improve performance. Notes 1, 2.
FONTELIS	D, S	14-30 fl oz	0	–	Begin applications prior to disease development and continue on a 7-14 day schedule. Maximum 2 sequential applications before switching to a different mode of action. Maximum 72 fl oz/A/year. For control of white mold, make a preventative application at beginning bloom and follow with a 2nd application 7-10 days later. Apply at 1.2-1.6 fl oz/1000' row at plant, in-furrow or seed transplant for control of rhizoctonia.
FORUM	D	6 fl oz	–	–	Lima bean, succulent seed only. Apply as a preventative spray.

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

BEAN (FIELD) DISEASE CONTROL

Disease Treatment Guidelines (continued)

Fungicide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions
Foliar (continued)					
HEADLINE SC	D, S, G, L, U	6-9 fl oz	7, 21	14	Use on Phaseolus, Vigna, and Lupinus spp., and chickpea. Apply at the beginning of flowering or onset of diseases. Maximum of 2 applications per season. NIS at 0.25% v/v may improve performance. PHI 7 days snaps. Notes 1, 2.
INSPIRE SUPER	D, G	16-20 fl oz	14	–	Use sufficient water volume for thorough coverage. For dry bean: Minimum 15 GPA by ground, 10 GPA by air. For garbanzo/chickpea: Minimum 15 GPA by ground, 5 GPA by air. For chemigation of either dry bean or garbanzo/chickpea, apply in 0.1-0.25"/A.
KOCIDE 2000 or 3000	D	0.75-2.25 lb 0.5-1.25 lb	–	–	Use higher rate for severe disease. For protective spray, apply when plants are 6" tall and repeat on a 7-14 day schedule. Notes 1, 2.
MICROTHIOL DISPERS	D	3-10 lb	–	–	80% wettable sulfur. Apply at early leaf stage and repeat at 10-14 day intervals. Notes 1, 2.
OMEGA 500F	D, S, U	0.5-0.85 pt	14, 30	–	Make first application at 10-30% bloom. A second may be made 7-10 days later. PHI 14 days edible podded and succulent beans and 30 days for dry beans. Note 2.
ONSET 3.6L	D	4-6 fl oz	14	–	May be used on fresh and dry beans, except succulent. PHI 14 days fresh beans.
PREVISTO	D	1-2 qt	0	NR	For protective sprays make first application when plants are 6" high. Higher rates when disease pressure is high.
PRIAXOR	D, S, G, L, U	4-8 fl oz	7, 21	14	Apply prior to when conditions favor disease development and continue on 7-14 day schedule. Use higher rate and shorter interval when disease pressure is high. Maximum 16 fl oz/A/season. Maximum 2 applications before rotating to another mode of action. Apply 6-8 fl oz/A for suppression of white mold. PHI for snap beans is 7 days. Do not use with EC or solvent-based products, COC, MSO, OS, MSO/OS, or NIS.
PROLINE	D, G, L, U	4.3-5.7 fl oz	7	–	Apply by ground (minimum of 20 GPA), aerial or chemigation at early flowering or the first sign of disease. Use the higher use rate when conditions are favorable for severe disease pressure and/or when growing less disease resistant varieties. Labeled for use in grain, sweet, white and white sweet lupins, field, kidney, dry lima, navy, pinto and tepary beans, adzuki bean, blackeye pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea and urd bean, dry broad bean, guar, ablab bean, field pea and pigeon pea.
PROPULSE	D, G, L, U	8-10.3 fl oz	14	NO	Begin fungicide applications preventatively and repeat on 7-14 day interval for white mold and 10-14 day interval for ascochyta blight and mycosphaerella blight. Maximum 20.5 fl oz/A/season. Note 2.
QUADRI OPTI	D, G, U	1.6-2.4 fl oz	14	–	Do not make more than 2 sequential foliar applications of Quadris Opti or other QoI fungicide before alternating to fungicide with alternate MOA. Do not make more than 4 applications/A/year. Do not mix with COC, MSO or silicone adjuvant. Notes 1, 2.
QUADRI TOP	G	8-14 fl oz	14	–	Begin prior to disease onset when conditions are conducive for disease and continue on a 14 day schedule. Maximum 2 sequential and 56 fl oz total. Application with high rates of silicone- or oil-containing adjuvants may cause crop injury under high temperatures. Do not exceed 0.125% v/v. Notes 1, 2.
QUADRI TOP	D, L	12-14 fl oz	14	NR, NO	For dried seed only. Apply when conditions are conducive for disease and repeat on 14-day interval. Maximum 2 sequential applications before alternating to fungicide with different mode of action. Do not apply >56 fl oz/A/crop/year. Do not feed or harvest cowpea forage and hay.
QUILT	D, S, G, L, U	14 fl oz	7, 14	–	Apply when conditions are conducive for disease and repeat on 7- to 14-day interval. Maximum 3 applications. May cause crinkled or greener leaves on some varieties. PHI 7 days for succulent and 14 days for dry beans.
QUILT XCEL	D, S, G, U	10.5-14 fl oz	7, 14	–	Apply when conditions are conducive for disease and repeat on 7-14 day interval. Maximum 3 applications. May cause crinkled or greener leaves on some varieties. PHI 7 days for succulent and 14 days for dry beans.

PHI – preharvest interval days. G/F – grazing and feeding interval days. NO – do not graze or feed.

SEE NOTES AT END OF SECTION.

BEAN (FIELD) DISEASE CONTROL

Disease Treatment Guidelines (continued)					
Fungicide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions
Foliar (continued)					
RALLY 40WSP	S	4-5 oz	0	–	Snap beans only. 2ee (exp. date not given) for aerial application in AR, IL, IN, IA, MI, MN, MO, OR, TX, WA, and WI. Notes 1, 2.
RIDOMIL GOLD COPPER	S	1 pack (5 lb.)/2.5 A	3	–	Begin applications at onset of disease and continue on 7 day interval. Maximum 4 applications/season.
ROVAL 4F	D,S	1.5-2 pt	–	14,45 ^A	Apply as a foliar spray at first bloom to when 10% of the plants have one open bloom and again 5-7 days later or up to peak bloom, if conditions are favorable for disease development. Maximum of two applications/year with the last application made no later than peak bloom. ^A Do not feed snap or succulent bean hay to livestock. PHI 45 days dry bean hay . PHI 14 days forage. Notes 1, 2.
SERENADE ASO	D, S, G, L, U	2-6 qt	–	–	Bacillus subtilis is a biological fungicide. Begin applications soon after emergence or transplant and when environmental conditions are conducive to disease development. Repeat on 7- to 10-day interval or as needed.
SWITCH	D, S, G, U	11-14 oz	7	–	Begin applications prior to or at onset of disease and repeat on 7 day intervals. For white mold, make the first application at 10-20% bloom. After 2 applications, rotate to another mode of action. Notes 1, 2.
TETRABAN	D, S, G, L, U	6-15.5 fl oz	0,14	–	PHI 14 days for dry bean and dry pea seeds, 0 days for succulent beans and peas.
TILT	D, S, G, U	4 fl oz	7	–	Apply when conditions are conducive to disease and apply up to 3 times on 7-14 day interval.
TOPSIN M 70WP/WSB	D, S, G, L, U	1-2 lb	14,28	–	Single application: apply 1.5-2 lb/A at 100% bloom (every plant has at least one open bloom). Sequential applications: apply 1-1.5 lb/A at 10-30% bloom (10-30% of the plants have at least one open bloom) and a second application 4 to 7 days later. PHI 28 days for dry and 14 days for succulent. Notes 1, 2.
VERTISAN	D, G, L, U	14-20 fl oz	21	0	Apply prior to disease development and continue on 7-14 day interval. For control of white mold, apply at beginning bloom and follow with a second application 7-10 days later. Notes 1, 2.

PHI – preharvest interval days. G/F – grazing and feeding interval days. NO – do not graze or feed.

*D – dry/field beans (Phaseolus, Vigna spp.: adzuki, kidney, pinto, navy, white, pink, lima, and small red), S – snap beans (snaps, succulents), G – garbanzo/chickpea, L – lentil, U- lupine (phaseolus spp.: grain, white, sweet and white sweet lupine).

NOTE 1: May be applied by air.

NOTE 2: May be applied by chemigation.