SOYBEAN

	Product/A			
<u>Herbicide</u>	(ai/A)	Weeds	When to Apply	Remarks and Paragraphs

Refer to page 6 for Fall or Spring Early Preplant Herbicides.

Refer to page 29 for additional herbicides to use in conventional or herbicide resistant soybean.

Soil-Applied Herbicides

Prowl H2O (pendimethalin)	2.4 to 3.6 pt EC 2.1 to 3 pt ACS (1 to 1.5 lb)	Annual grass and some broadleaf weeds.	PPI. Fall or Spring.	Adjust rate for soil type. Do not apply PRE. Poor wild oat and no wild mustard control.
Sonalan Sonalan 10G (ethalfluralin)	1.5 to 3 pt 5.5 to 11.5 10G (0.55 to 1.15 lb)			Green foxtail has become resistant to dinitroaniline (DNA) herbicides in North Dakota. A1-2 B1 B6 E1 E11 S7 X1 Y14. Pages: 104-105, 108-110.
Treflan / generic trifluralin	1 to 2 pt (0.5 to 1 lb)			1 agos. 10 1 100, 100 110.
Sencor / generic metribuzin	Soil pH >7.5 = 0.25 lb DF Soil pH <7.5 = 0.33 to 0.5 lb DF	Broadleaf weeds including wild mustard.	PPI.	Sencor may injure certain soybean varieties. E1 E10 S7 Y4 Y13. Pages: 104-105, 108-110.
Dual / generic metolachlor	1 to 2 pt (0.95 to 1.9 lb)	Grass and some PPI or PRE. broadleaf weeds.		Dual may give greater weed control than generic metolachlor at equal product rates. Poor wild oat control and wild mustard control.
Intrro / generic alachlor RUP	2 to 3 qt (2 to 3 lb)			Shallow PPI gives more consistent control than PRE. PRE requires precipitation for herbicide activation. Adjust rate for soil type and OM.
Outlook / generic dimethenamid	16 to 21 fl oz (0.75 to 1 lb)		PPI, PRE or EPOST.	Outlook gives greater nightshade control. A1-2 B1 E1 E6
Valor (flumioxazin)	2 to 3 oz WDG (1 to 1.5 oz)	Small-seeded broadleaf weeds including pigweed,	EPP, Shallow PPI, and PRE.	PRE requires precipitation for herbicide activation. Refer to label for tank-mix options, application information, and rate structure.
Spartan (sulfentrazone)	3 to 8 fl oz F (1.5 to 4 oz)	nightshade, kochia lambsquarters, and B. wormwood.		A1 B1-2 E1 E13 S3-5 S7 Y14 A1 B1-2 E1 E12 S3-5 S7 X1 Y15. Pages: 108-110.
Python (flumetsulam)	0.8 to 1.33 oz DG or 5 to 3 A/pack (0.64 to 1.06 oz)	Python does not control ALS resistant kochia.		A1 E1 E8 S4 S7 Y2. Pages: 102-103, 108-110.
Sharpen (saflufenacil)	1 fl oz (0.36 oz)	Broadleaf weeds.		Sharpen has no grass activity. Provides burndown control of emerged broadleaf weeds. Planting interval is dependant on soil texture and OM. Refer to label for tank-mix options. A1 B1-2 B9 S1 S3-5 S7-8 X1

POST-Applied Herbicides

Basagran / generic bentazon	0.5 to 2 pt applied 1 to 4 times. (0.25 to 1 lb)	Some broadleaf weeds.	POST. Soybean: After emergence. Broadleaf weeds: Small.	Non-residual, contact herbicide requiring thorough coverage. Most active in hot and sunny conditions. Add oil adjuvant at 1 to 2 pt/A. Allow a 30 day PHI. A3 A7 E1 E3 S1 S3-5 S7-8
Rezult + MSO oil adjuvant (bentazon & sethoxydim)	1.6 + 1.6 pt or 0.8 + 0.8 pt 2X or 0.56 + 0.56 pt 3X or 0.4 + 0.4 pt 4X + 1.25 pt/A (1 + 1 lb or 0.5 + 0.5 lb or 0.38 + 0.38 lb or 0.25 + 0.25 lb)	Small grass and broadleaf weeds including pigweed, ragweed, kochia, lambsquarters, wild buckwheat, biennial wormwood and Canada thistle	less. Make consecutive applications 7 to 10	Weeds must be small at application. Refer to E3 for additional information. MSO enhances weed control more than petroleum oil adjuvants. Sequential applications at 7 to 10 day intervals improves overall weed control. Tank-mix with Raptor at 2 fl oz/A for improved weed control. Allow 30 day PHI. A3 A7 E1-3 S1 S3-5 S7-8 T2

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
Refer to page 29	for additional herb	icides to use in c	onventional or he	erbicide resistant soybean.
Ultra Blazer (acifluorfen) Cadet (fluthiacet) Cobra (lactofen)	0.5 to 1.5 pt (0.125 to 0.375 lb) 0.4 to 0.9 fl oz EC (0.045 to 0.1 oz) 6 to 12.5 fl oz (1.5 to 3.2 oz)	Small broadleaf weeds including pigweed and common lambsquarters.	POST. Soybean: 1 to 2 trifoliates. Weeds: Small.	Contact, non-residual herbicides requiring thorough coverage. Most active in hot and sunny conditions. May cause speckling on soybean leaves. Refer to label for crop response, adjuvant type and rate, and tank-mix options. A3 E1 S3 X1
Resource (flumiclorac)	2 to 3 fl oz EC (0.215 to 0.32 oz)			
Flexstar (fomesafen + adjuvants)	0.75 to 1 pt (0.176 to 0.24 lb)	Broadleaf weeds including pigweed, cocklebur, Venice mallow, mustard, ragweed, kochia, smartweed, EB nightshade. Poor hairy nightshade control.	POST. Soybean: Prior to flowering. Weeds: Small.	Contact herbicide requiring thorough coverage. Most active in hot and sunny conditions. Apply at 1 pt/A in ND east of I-29 and south of I-94 and in MN south of I-94. Use 0.75 pt/A in ND east of Hwy 281 and in MN south of US Hwy 2. Add MSO at 1% v/v + AMS at 10 lb/100 gal water. Refer to label for crop rotation restrictions and restrictions for each geographic region. Refer to E4 for improved broadleaf weed control. A3 E1 E4 S3-5 S8 Y11. Pages: 108-110.
FirstRate (cloransulam)	0.3 oz WDG or 10 A/pack (0.25 oz)	Venice mallow, cocklebur, horseweed, ragweed, sunflower, and wild mustard.	POST. Soybean: Up to 50% of plants flowering. Weeds: Up to 10 inches tall.	Add NIS at 0.125% v/v or oil adjuvant at 1.25% v/v + 28% UAN at 2.5% v/v. Refer to label for weed size, and tank-mix options. A3 E1 X1 Y2. Pages: 102-103, 108-110.
Harmony / generic thifensulfuron	0.083 (1/12) oz DF 0.125 (1/8) oz SG (0.062 oz)	Wild mustard, pigweed, and lambsquarters. No ALS-resistant weed control.	POST. Soybean: Fully expanded 1st trifoliate leaf until 60 days PHI.	Add NIS at 0.25% v/v or oil additive at 1 to 2 pt/A+28% UAN or AMS. Refer to label for tank-mix options. A3 A5-7 E1 E5 S1 S5 X1. Pages: 102-103, 104-105.
Pursuit (imazethapyr) Raptor (imazamox)	3 fl oz (0.75 oz ae) 4 to 5 fl oz (0.5 to 0.625 oz ae)	Annual broadleaf weeds. Poor common lambsquarters, ragweed, wild buckwheat and biennial wormwood control.	POST. Soybean: Fully expanded first trifoliate leaf but prior to flowering. Weeds: Small and actively growing.	Add NIS at 0.25% v/v or oil adjuvant at 1 to 2 pt/A + 28% UAN at 2.5% v/v. MSO adjuvants enhance weed control more than petroleum oil or NIS. Refer to label for weed size and application information. Raptor has less soil residual carryover than Pursuit. A3 A5-7 E7 E9 S4 X1 Y2 Y17.
NDOU O	Plana mate	No control of ALS- resistant weeds.		Pages: 102-103, 108-110.
NDSU Soybean M Rezult B & Rezult G + Raptor + Flexstar + Select/clethodim + MSO adjuvant	0.5 to 0.6 pt & 0.5 to 0.6 pt + 1 fl oz + 2 to 4 fl oz + 2 fl oz (optional) + 1.25 pt/A	Grass and broadleaf weeds, including kochia, pigweed, and nightshade. May not control wild buckwheat.	POST. Weeds. Small. Must be less than 1 to 2 inches tall.	User assumes all risk of inadequate weed control when using this reduced-rate treatment. Must be applied with MSO or MSO & basic pH blend adjuvants. Select/clethodim can be excluded if grass infestation is low. Refer to E3, E6, and Rezult section above. A3 A5-7 E2-4 E9 F1 F4-6 S1-8 X1 Y2-3 Y11. Pages: 102-103, 104-105, 108-110.

SOYBEAN

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
Refer to page 35	for additional he	rbicides to use in	conventional or h	erbicide resistant soybean.
Assure II Targa (quizalofop)	4 to 10 fl oz (0.44 to 1.1 oz)	Annual grasses and quackgrass.	Soybean: Prior to pod set.	Add oil adjuvant at 1% v/v but not less than 1.25 pt/A. Oil adjuvant at more than 1 qt/A is not needed. See Select Max label for detailed adjuvant
Fusilade DX (fluazifop)	5 to 12 fl oz (1.25 to 3 oz)		Grass weeds: Refer to table below.	recommendations. Use highest rate of Assure II for yellow foxtail control. Grass control is reduced by tank mixtures or close
Fusion (fluazifop & fenoxaprop)	4 to 12 fl oz (1 to 3 oz & 0.32 to 0.96 oz)			interval application of POST broadleaf control herbicides. Antagonism generally can be avoided by applying a higher rate of grass herbicide or apply the
Poast (sethoxydim)	0.5 to 1.5 pt (0.1 to 0.3 lb)	Annual grasses.	Soybean: All stages.	grass control herbicide 1 or more days before or 7 days after the broadleaf control herbicide. Do not cultivate prior to 5 days before or 7 days after
Select / generic clethodim	4 to 16 fl oz (1 to 4 oz)	Annual grasses and quackgrass.	Grass weeds: Refer to table below.	application. Refer to label for tank-mix options. Refer to page 74 for control of volunteer corn.
Select Max (clethodim)	9 to 32 fl oz (1.125 to 4 oz)		DGIOW.	A3 A5-7 E1-2 X1. Pages: 102-103, 104-105.

GRASS CONTROL WITH POST HERBICIDES

Herbicide	Grass size (inches)	Rate (fl oz/A)	Herbicide	Grass size (inches)	Rate (fl oz/A)	Herbicide	Grass size (inches)	Rate (fl oz/A)
Green and yellow		xtail	Wild-proso millet			Vo	olunteer corn	
Assure II/Targa Fusilade DX Fusion Poast Select/ Select Max	2 to 4 2 to 4 2 to 4 1 to 8 2 to 8 2 to 6 6 to 8	7 to 8 10 to 12 8 1 pt 4 to 6 9 12	Assure II/Targa Fusilade DX Fusion Poast Select Select Max	2 to 6 4 to 8 4 to 8 4 to 10 1 to 10 2 to 6 6 to 8	5 to 8 6 6 0.5 pt 4 to 6 9 12	Assure II/Targa Fusilade DX Fusion Poast Select	6 to 30 12 to 24 12 to 24 1 to 20 4 to 12 12 to 24	5 to 8 4 to 8 6 1 pt 4 6
Wild oat, vol	. small grains	, sandbur	(Quackgrass		Select Max	1 to 12	6
Assure II/Targa Fusilade DX Fusion Poast Select Select Max	2 to 6 2 to 6 2 to 6 1 to 4 2 to 6 2 to 6 6 to 8	7 to 8 8 8 1 pt 6 9 12	Assure II/Targa Fusilade DX Fusion Poast Select Select Max	6 to 10 6 to 10 6 to 10 6 to 8 4 to 12 4 to 12	12 12 12 2 pt 8 12	Refer to page	12 to 24 24 to 36 115 for control of corn.	9 12 of volunteer

Preharvest Application

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
•	Up to 1.5 lb ae See Remarks.	Preharvest weed control.	Prior to harvest. Apply after pods have set and lost all green color. Allow a 7 day PHI.	Add AMS fertilizer at 4 lb/100 gal, or more for hard water. Refer to label for adjuvant use. Do not apply on soybean grown for seed because reduced germination/vigor may occur. A4-6 B2 X1. Pages: 102-103, 104-105.
1 1	8 to 12 fl oz 2SL 5.6 to 8.4 fl oz 3SL (0.13 to 0.188 lb)	Desiccant.	Prior to harvest. Paraquat - Allow a 15 day PHI.	Add NIS at 0.125% v/v. Most active in hot and sunny conditions. Apply when at least 65% of seed pods are a mature
Aim (carfentrazone)	1 to 1.5 oz (0.256 to 0.384)		Aim - Allow a 3 day PHI.	brown color or when seed moisture is 30% or less. A3 B4 B8. Pages: 104-105.

HERBICIDE RESISTANT SOYBEAN

Refer to page 29 for additional herbicides to use in conventional or herbicide resistant soybean.

LibertyLink Soybean

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
Ignite 280 (glufosinate)	22 fl oz (0.4 lb)	Annual grass and broadleaf weeds including ALS and glyphosate resistant weeds.	POST. Soybean: Emergence up to bloom. Weeds: Up to 3 inches tall.	Apply only to LibertyLink soybean varieties. Non-selective, contact, non-residual herbicide requiring thorough coverage. Add AMS at 3 lb/A. Apply with a registered grass herbicide. Refer to label for tank-mix options and restrictions. Most active in hot and sunny conditions. Controls weeds resistant to other herbicides. A3 A5-6 D13 S2 S7 X1. Pages: 102-103.

Roundup Ready and Roundup Ready 2 Yield Soybean

Herbicide	Product/A (ae/A)	Weeds	When to Apply	Remarks and Paragraphs
Roundup / generic glyphosate	Maximum single application = 1.5 lb ae Maximum in-crop = 2.25 lb ae See Remarks.	Annual and perennial grass and broadleaf weeds.	POST. Soybean: Emergence through R2 of full flowering. The R2 stage ends when a pod 3/16 inch long	Apply only to RR / RR 2 Yield soybean varieties. Maximum - Maximum - single appl. in-crop b ae/gal b ai/gal 1.5 ae 2.25 ae 3 4 = 64 fl oz 96 fl oz
			PHI.	A4-6 B2 D14 S4 X1. Pages: 102-103, 104-105.

Refer to page 115 for control of volunteer Roundup Ready corn and canola in Roundup Ready soybean.

Roundup Ready/STS (sulfonylurea-tolerant) Soybean

Noundup Ne			<u> </u>	1
Herbicide	Product/A (ae/A)	Weeds	When to Apply	Remarks and Paragraphs
Refer to Roundu	p Ready soybea	ın above for use of ç	glyphosate in RR/s	STS soybean.
Harmony / generic thifensulfuron	0.33 oz DF 0.5 oz SG (0.25 oz)	Annual broadleaf weeds including, wild buckwheat, lambsquarters, mustard species, and volunteer RR canola.	POST. RR/STS soybean: 1st fully expanded trifoliate to 60 days PHI.	Apply only to RUR/STS soybean varieties. Apply with glyphosate at 0.38 to 1.125 lb ae/A. Add NIS at 0.125 to 0.25% v/v to non-loaded glyphosate. Refer to label for adjuvant use. Apply with AMS at 4 lb/100 gal water, or more for hard water. Refer to label for weeds controlled and application information. A4-7 D14 D16 E5 S1 X1. Pages: 102-103, 104-105, 115.

WEED MANAGEMENT IN ROUNDUP READY SOYBEAN

NDSU recommends using herbicides with different modes of action and different weed control management practices in Roundup Ready soybean production to delay development of glyphosate resistant weeds. See pages 102-103 for more information on weed resistance.

COMMANDMENT #1 - Control weeds BEFORE 2 to 4 inches tall to avoid yield loss.

Remove weeds early especially when grass weed populations are high. Some data from the mid-west indicate that soybean yield may not be reduced by delaying Roundup / generic glyphosate application until weeds are up to 6 inches tall. However, data from the northern Plains show that, especially under dry conditions, soybean yield loss will occur if weeds become greater than 4 inches tall prior to Roundup/glyphosate application.

Roundup/glyphosate at 1.5 oz ae/A controls foxtail, 2.25 oz ae/A controls volunteer small grain, and 3 oz ae/A controls wild oat and downy brome. Use higher rates on broadleaf weeds, larger weeds, tolerant weeds, or if weeds are under environmental stress. See Roundup/glyphosate section A4 for more information about increasing weed control from Roundup/glyphosate.

Three Systems of Weed Control in RR Soybean

- 1. PRE followed by glyphosate POST: All PRE herbicides require rain for activation.
- Page 24 lists many registered PRE soybean herbicides that can be used in herbicide resistant soybean. PRE herbicides at 2/3 to the full labeled rate may give 60 to 99% control of some grass and broadleaf weeds, will reduce weed infestations emerging with soybean, will allow more flexibility in application of POST herbicides, and will help protect yield from early season weed competition.
- 2. Roundup / generic glyphosate + POST broadleaf herbicide (different mode of action):
 Several herbicides listed in the following table will improve control of weeds not controlled by Roundup/glyphosate. Roundup/glyphosate has no soil residual and will not control weeds emerging after application. Roundup/glyphosate may not control some weed species or biotypes. Many POST herbicides listed will give residual weed control. Follow label directions for tank-mix and application information.
- 3. Roundup / generic glyphosate (EPOST = 2 to 4 inch tall weeds) followed by Roundup/glyphosate (POST = 14 to 21 days later): This program will increase the risk of weed resistance unless other strategies are used in rotational crops see Herbicide Resistant Weed Section, page 102-103.

The following table shows herbicides to apply in tank-mix or sequentially with Roundup/glyphosate in RR soybean for control of weeds not controlled by Roundup/glyphosate. Weed ratings are control without glyphosate. Refer to label for tank-mix and specific application information. Residual weed control listed in the table refers to control of subsequent flushes of weeds after herbicide application.

Herbicides to apply in tank-mix or sequentially with Roundup / generic glyphosate in RR soybean for control of

		Rate/A	Cost/A	Buckwheat, Wild	Canola, Vol. RR1	Horseweed (Marestail	Kochia	Lambsquarters	Mallow, Common	Nightshade species	Prickly lettuce	Ragweed, Common	Smartweed, Annual	Waterhemp
Preplant or PR	E herbicides - ı	no residual weed	control				V	/eed C	ontrol	Ratings	s^3			
2,4-D ester	Plant >7 d	0.5 - 1 pt	\$1.25 - 2.50	Р	P-G	Е	Р	Е	Р	N	Е	Е	F	G
Aim		0.5 - 1 fl oz	\$3.30 - 6.60	Р	N-P	Ν	F-E	F-G	-	Ν	F	N	Ν	Ε
Harmony/gener	ic thifensulfurn	See label	\$5.00 - 13.00	Ε	G-E	F	E^4	Ε	G-E	Ν	E^4	G	E^4	E^4
													~ -	\sim r
Sharpen Preplant or PR	F herhicides - v	1 fl oz	\$5.50	G-E Comb	G-E	G-E n herb	G-E	G-E	- ovhean	G-E		G-E	G-E	G-E
Preplant or PR Prowl, Sonalan, Python ²		with residual wee See label 0.8 - 1 oz DG	ed control - See \$4.00 - 10.00 \$9.20 - 11.50	Comb N F-G	oinatio N E	n herb N E	icides P E ⁴	for so	ybean N	n. N E	N -	N P	P G-E	G-E F-E
Preplant or PR Prowl, Sonalan, Python ² Spartan ²		vith residual wee See label 0.8 - 1 oz DG 3 - 4.5 fl oz	ed control - See \$4.00 - 10.00 \$9.20 - 11.50 \$12.90 - 19.50	Comb N F-G P-F	oinatio N E P	n herb N E	icides P E ⁴	for so	N - -	N E F-E	<u>-</u> Р	N P	P G-E E	F-E E ⁴
Preplant or PR Prowl, Sonalan, Python ² Spartan ² Valor POST herbicid	Treflan ² - PPI	vith residual wee See label 0.8 - 1 oz DG 3 - 4.5 fl oz 2 - 2.5 oz WDG	ed control - See \$4.00 - 10.00 \$9.20 - 11.50 \$12.90 - 19.50 \$10.50 - 13.25 s for soybean.	N F-G P-F P-F	N E P G-E	n herb N E E E	icides P E ⁴ E E	for so F-E E E	N	N E F-E E	-	N P P	P G-E E F	F-E E ⁴ E
Preplant or PR Prowl, Sonalan, Python ² Spartan ² Valor POST herbicid FirstRate ²	es - See Combi	See label 0.8 - 1 oz DG 3 - 4.5 fl oz 2 - 2.5 oz WDG nation herbicides 0.3 oz WDG	ed control - See \$4.00 - 10.00 \$9.20 - 11.50 \$12.90 - 19.50 \$10.50 - 13.25 s for soybean. \$10.50	Comb N F-G P-F P-F	P-G	n herb N E E E	icides P E ⁴ E E	for so	N - - E	N E F-E E	<u>-</u> Р	N P P P	P G-E E F	F-E E⁴ E
Preplant or PR Prowl, Sonalan, Python ² Spartan ² Valor POST herbicid FirstRate ² Flexstar ²	es - See Combi	See label 0.8 - 1 oz DG 3 - 4.5 fl oz 2 - 2.5 oz WDG nation herbicides 0.3 oz WDG 0.5 - 0.75 pt	ed control - See \$4.00 - 10.00 \$9.20 - 11.50 \$12.90 - 19.50 \$10.50 - 13.25 s for soybean. \$10.50 \$7.80 - 11.75	N F-G P-F P-F	P-G	n herb N E E E N	P E ⁴ E E E	F-E E E E P	N - E	N E F-E E N F-E	- P E	N P P P	P G-E E F	F-E E E E
Preplant or PR Prowl, Sonalan, Python ² Spartan ² Valor POST herbicid FirstRate ² Flexstar ² Harmony SG	es - See Combi <50% flowr < Flowering 60 day PHI	See label 0.8 - 1 oz DG 3 - 4.5 fl oz 2 - 2.5 oz WDG nation herbicides 0.3 oz WDG 0.5 - 0.75 pt 1/8 oz SG	ed control - See \$4.00 - 10.00 \$9.20 - 11.50 \$12.90 - 19.50 \$10.50 - 13.25 s for soybean. \$10.50 \$7.80 - 11.75 \$4.00	P-F P-F	P-G E P-F	n herb N E E E N P	P E E P G-E N	F-E E E E P P-F	N - E - G-E N	F-E N F-E N	- P E	N P P P	P G-E E F	F-E E ⁴ E E N E
Preplant or PR Prowl, Sonalan, Python ² Spartan ² Valor POST herbicid FirstRate ² Flexstar ²	es - See Combi	See label 0.8 - 1 oz DG 3 - 4.5 fl oz 2 - 2.5 oz WDG nation herbicides 0.3 oz WDG 0.5 - 0.75 pt	ed control - See \$4.00 - 10.00 \$9.20 - 11.50 \$12.90 - 19.50 \$10.50 - 13.25 s for soybean. \$10.50 \$7.80 - 11.75	N F-G P-F P-F	P-G	n herb N E E E N	P E ⁴ E E E	F-E E E E P	N - E	N E F-E E N F-E	- P E	N P P P	P G-E E F	F-E E ⁴ E E

Combination Herbicides (partial list) for Conventional and Herbicide Resistant Soybean:

Trade Name	Manu- facturer	Applied at (Prod/A)	Cost/A	Gives the equivalent product rates of:
Authority Assist	FMC	4 fl oz 6 fl oz	\$ 9.40 \$14.10	3.33 fl oz Spartan + 1.33 fl oz Pursuit 5 fl oz Spartan + 2 fl oz Pursuit
Authority First / Sonic	FMC	2.4 oz 3.2 oz	\$10.50 \$14.10	3 fl oz Spartan + 0.2 oz FirstRate 4 fl oz Spartan + 0.3 oz FirstRate
Authority MTZ	FMC	8 oz 12 oz	\$ 9.50 \$14.25	3.6 fl oz Spartan + 3.6 oz Sencor 4.33 fl oz Spartan + 4.33 oz Sencor
Boundary	Syngenta	1.2 pt	\$13.20	0.83 pt Dual Magnum + 4 oz Sencor
Extreme	BASF	1.5 pt 2.25 pt	\$ 9.40 \$14.00	2 fl oz Pursuit + 12 fl oz glyphosate-ipa (3 lb ae/gal) 3 fl oz Pursuit + 18 fl oz glyphosate-ipa (3 lb ae/gal)
Gangster (co-pack)	Valent	1.8 oz	\$14.15	1.5 oz Valor + 0.3 oz FirstRate
Pursuit Plus	BASF	20 fl oz 1.8 pt	\$ 9.75 \$14.00	0.88 pt Prowl H ₂ O + 2 fl oz Pursuit 1.28 pt Prowl H ₂ O + 2.9 fl oz Pursuit
Rage D-Tech*	FMC	8 fl oz 16 fl oz	\$ 4.40 \$ 8.75	0.5 fl oz Aim + 0.5 pt 2,4-D ester - apply at least 14 days prior to planting. 1 fl oz Aim + 1 pt 2,4-D ester - apply at least 14 days prior to planting.
Sequence	Syngenta	1.5 pt	\$11.25	18 fl oz glyphosate-ipa (3 lb ae/gal) + 0.6 pt Dual II Magnum
Spartan Advance	FMC	24 fl oz	\$19.75	3.4 fl oz Spartan + 24 fl oz glyphosate-ipa (3 lb ae/gal)
Spartan Charge⁵	FMC	5.75 fl oz	\$19.10	4.5 fl oz Spartan + 1 fl oz Aim

²May carry over more than one cropping season. Follow labeled crop rotation restrictions. See pages 102-103. ³E = Excellent (90-99%), G = Good (80-90%), F = Fair (65-80%), P = Poor (40-65%), N = None.

⁴Except where resistant populations have developed.

DRY EDIBLE BEAN

	Product/A			
Herbicide	(ai/A)	Weeds	When to Apply	Remarks and Paragraphs

Refer to page 6 for Fall or Spring Early Preplant Herbicides.

Soil-Applied Herbicides

Eptam (EPTC)	3.5 to 4.5 pt 15 to 20 lb G (3 to 4 lb)	Grass and some broadleaf weeds.	PPI.	PPI immediately after application. Consult label for rate range for specific tank mix. A1-2 B1 F1-2 S4
Prowl H2O (pendimethalin)	2.4 to 3.6 pt 3.3EC 2.1 to 3 pt 3.8ACS (1 to 1.5 lb)	Poor wild oat and no wild mustard control.	PPI. Fall or Spring.	PPI within 24 hours after application. Apply fall applications when soil temperature is less than 45 F.
Treflan / generic trifluralin	1 to 2 pt EC 5 to 10 lb 10G (0.5 to 1 lb)			Adjust rate for soil type. Use EC formulation in spring and 10G formulation in fall. Refer to label for tank-mixtures.
Sonalan (ethalfluralin)	1.5 to 4.5 pt EC (0.55 to 1.69 lb) 5.5 to 11.5 lb 10G (0.55 to 1.15 lb)			A1-2 B1 B6 E11 F1 S7 X1 Y1 Y14. Pages: 104-105, 108-110.
Dual / generic metolachlor	1 to 2 pt (0.95 to 1.9 lb)	broadleaf weeds. PPI or PRE. generic metolachlor at equal properties and wild oat an equal properties. PPI, PRE, or EPOST. generic metolachlor at equal properties and wild oat adjust rate for soil type and O Shallow PPI improves consists.	S-metolachlor may give greater weed control than generic metolachlor at equal product rates.	
Outlook / generic dimethenamid	16 to 21 fl oz (0.75 to 1 lb)		Adjust rate for soil type and OM. Shallow PPI improves consistency of weed control.	
Intrro (alachlor) RUP	4 to 6 pt (2 to 3 lb)		PPI.	
Permit (halosulfuron)	0.5 to 0.67 oz DF (0.38 to 0.5 oz)	Most large-seeded broadleaf weeds including ragweed, cocklebur, and sunflower.	PPI or PRE.	Refer to label for tank-mix options and other restrictions. Most effective herbicide on yellow nutsedge. A3 A5-6 F1 Y3. Pages: 102-103, 108-110.
Pursuit Plus (imazethapyr & pendimethalin)	20 fl oz (0.5 oz ae & 0.42 lb)	Broadleaf weeds including wild buckwheat.	PPI. Up to 1 week before planting.	May be tank-mixed with other labeled herbicides including Prowl H ₂ O. No or poor kochia control. A1 A7 E7 F1 F4 S4-5 S7 X1 Y2 Y17. Pages: 102-103, 108-110.

POST-Applied Herbicides

Pursuit (imazethapyr)	2 fl oz (0.5 oz ae)	Annual broadleaf weeds. No control of ALS- resistant kochia.	POST. Drybean: After 1 st trifoliate but prior to flowering.	User assumes all risk of crop injury. Do not apply prior to or during adverse weather conditions. Allow a 60 day PHI. Refer to label for tank-mix options, application information, and weed size. A1 A3 A5-7 E7 F1 F4 S4-5 X1 Y2. Pages: 102-103, 108-110.
Raptor (imazamox)	4 fl oz (0.5 oz ae)	Annual grass and broadleaf weeds. No control of ALS- resistant kochia.	POST. Drybean: After 1 st trifoliate but prior to flowering.	Add NIS at 0.25% v/v or oil additive at 0.5 to 1% v/v plus 28% UAN at 2 qt/A. Do not use oil adjuvant + 28% UAN during high temperature and humidity. Refer to label for use information and restrictions. A3 A5-7 E9 F1 S4 X1 Y2 Y17. Pages: 102-103, 108-110.
Reflex (fomesafen)	0.75 pt (0.19 lb)	Annual broadleaf weeds including ragweed, kochia, and nightshade.	POST. Dry bean: 1st trifoliate to flowering. Weeds: 1 to 4 inches tall.	Add NIS at 0.125 to 0.25% v/v or oil adjuvant at 0.5 to 1% v/v. Allow a 30 day PHI. Oil adjuvant may increase risk of crop injury. Most active in hot and sunny conditions. Refer to label for weeds controlled, application information, and risk of crop injury. Refer to E4 for improved broadleaf weed control. A3 E4 F1 F5 S3-5 Y11. Pages: 102-103, 108-110.

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
Basagran / generic bentazon	0.5 to 2 pt applied 1 to 4 times. (0.25 to 1 lb)	Some broadleaf weeds and suppression of Canada thistle.	POST. Dry bean: After emergence. Broadleaf weeds: Small.	Non-residual, contact herbicide requiring thorough coverage. Most active in hot and sunny conditions. Add oil adjuvant at 1 to 2 pt/A. Allow a 30 day PHI. A3 E3 F1 F6
Rezult + MSO oil adjuvant (bentazon & sethoxydim)	1.6 + 1.6 pt or 0.8 + 0.8 pt 2X or 0.56 + 0.56 pt 3X or 0.4 + 0.4 pt 4X + 1.25 pt/A (1 + 1 lb or 0.5 + 0.5 lb or 0.38 + 0.38 lb or 0.25 + 0.25 lb)	ragweed, kochia, lambsquarters, wild buckwheat, biennial wormwood	Make consecutive	Refer to E3 for additional information. MSO enhances weed control more than petroleum adjuvants. Sequential applications at a 7 to 10 day intervals improves overall weed control. Tank-mix with Raptor, Reflex, and a POST grass herbicide for improved weed control - See NDSU Micro-rate below. Allow a 30 day PHI. A3 E1-3 F1 F6 S1 S3-5 S7-8 T2 X1
Assure II Targa (quizalofop)	7 to 10 fl oz (0.77 to 1.1 oz)	Annual grasses and quackgrass.	Select Max.	Add oil adjuvant at 1% v/v but not less than 1.25 pt/A. Oil adjuvant at more than 1 qt/A is not needed. See Select Max label for detailed adjuvant
Fusilade DX (fluazifop)	5 to 12 fl oz 1.25 to 3 oz)			recommendations. Refer to label and soybean section for tank-mix options, possible grass antagonism with broadleaf
Poast (sethoxydim)	0.5 to 1.5 pt (0.1 to 0.3 lb)	Annual grasses.		herbicides, and methods to avoid reduced grass control.
Select / generic clethodim	4 to 8 fl oz (1 to 2 oz)	Annual grasses and quackgrass.		A3 A5-6 E1-2 S2 S6 X1. Pages: 102-103, 104-105.
Select Max (clethodim)	9 to 32 fl oz (1.125 to 4 oz)		page 32.	

NDSU Dry Bean Micro-rate

Rezult B &	0.5 to 0.6 pt &	Grass and	POST.	User assumes all risk of inadequate weed control
Rezult G +	0.5 to 0.6 pt +	broadleaf weeds,	Weeds. Small.	when using this reduced-rate treatment.
Raptor +	1 fl oz +	including kochia,	Must be less than	Must be applied with MSO or MSO & basic pH blend
Reflex +	2 to 4 fl oz +	pigweed, and	1 to 2 inches tall.	adjuvants. Select/clethodim can be excluded if grass
Select/clethodim +	= o= \openoa., .	nightshade.		infestation is low. Refer to E3, E6, and Rezult section
MSO adjuvant	1.25 pt/A	May not control		above.
÷	•	wild buckwheat.		A3 A5-7 E2-4 E9 F1 F4-6 S1-8 X1 Y2-3 Y11.
				Pages: 102-103, 104-105, 108-110.

Preharvest Application

Roundup / generic glyphosate	Up to 0.75 lb ae	Harvest aid/ Weed control.	After dry bean pods have turned yellow and leather texture. At hard dough bean seed stage and 30% or less seed moisture.	USE ONLY FOR WEED CONTROL. Use only labeled formulations. Non-selective, non-residual, translocated, foliar herbicide. Allow a 7 day PHI. Do not apply to dry bean grown for seed because reduced germination/vigor may occur. A3-7 B1 X1. Pages: 102-103, 104-105.
paraquat RUP	1.5 to 2 pt 2SL 1 to 1.3 pt 3SL (0.375 to 0.5 lb)	are yellow/brown. Apply when no more than 40% (bush type beans)	are yellow/brown. Most active in hot and sunny conditions. Sequential applications may be needed. Valor can be applied with paraquat + MSO adjuve weed desiccation. (bush type beans) Most active in hot and sunny conditions. Sequential applications may be needed. Valor can be applied with paraquat + MSO adjuve weed desiccation. Allow a 7 day PHI for paraquat.	Most active in hot and sunny conditions. Sequential applications may be needed.
Aim + MSO adjuvant (carfentrazone)	2 to 6 fl oz EC + 1 qt/A (0.53 to 1.5 oz)			weed desiccation.
Valor + MSO adjuvant (flumioxazin)	1.5 to 2 fl oz + 1 qt/A (0.77 to 1.53 oz)		of the leaves are still green.	Allow a 5 day PHI for Valor. B4 B8 Pages: 102-103, 104-105.

FIELD PEA

	Product/A			
Herbicide	(ai/A)	Weeds	When to Apply	Remarks and Paragraphs

Refer to page 6 for Fall or Spring Early Preplant Herbicides.

Soil-Applied Herbicides

Far-Go (triallate)	1.25 qt EC (1.25 lb)	Wild oat.	PPI.	PPI immediately after application. A two pass incorporation is recommended. A1-2 B1 C11 G1
Prowl H2O (pendimethalin)	1.75 to 3.6 pt EC 1.5 to 3 pt ACS (0.72 to 1.5 lb)		Fall or Spring.	Fall apply when soil temperature is less than 45 F. Adjust rate for soil type. Poor wild oat and no wild mustard control.
Treflan / generic trifluralin	1 to 1.5 pt 5 to 7.5 lb 10G (0.5 to 0.75 lb)			Some pea varieties may be injured. A1-2 B1 B6 E11 G1 S7 Y14. Pages: 104-105, 108-110.
Sonalan (ethalfluralin)	1.5 to 2 pt 5.5 to 7.5 lb 10G (0.55 to 0.75 lb)			
Dual / generic metolachlor	1 to 2 pt (0.95 to 1.9 lb)		PPI or PRE. Fall or Spring.	S-metolachlor may give greater weed control than generic metolachlor at equal product rates. Poor wild oat and wild mustard control. Shallow PPI improves consistency of weed control. A1-2 B1 E6 F3 G1. Pages: 104-105.
Spartan (sulfentrazone)	2.25 to 8 fl oz F (1.125 to 4 oz)	Small-seeded broadleaf weeds including kochia, pigweed species, lambsquarters, and nightshade.	Fall, EPP, shallow PPI, and PRE.	Adjust rates for soil type and OM. Requires precipitation to activate herbicide. Refer to label for rate structure. A1-2 B1 E12 G1 S1 S3-5 S7 Y14. Pages: 108-110.
Sharpen (saflufenacil)	1 fl oz (0.36 oz)	Broadleaf weeds.		Sharpen has no grass activity. Provides burndown control of emerged broadleaf weeds. Refer to label for tank-mix options. A1 B1-2 B9 S1 S3-5 S7-8 X1
Pursuit Plus (imazethapyr & pendimethalin)	20 fl oz (0.5 oz ae & 0.42 lb)	Broadleaf weeds including redroot pigweed, mustard, and nightshade.	PPI. Up to 1 week before planting.	Refer to label for tank-mix options. Additional Prowl/H ₂ O may be added. May control wild buckwheat and ALS resistant kochia. A1 A7 B1 B6 E7 G1 S4-5 S7 X1 Y2 Y14. Pages: 102-103, 108-110.
Sencor / generic metribuzin	0.25 to 0.5 lb DF 0.38 to 0.75 pt 4F (0.19 to 0.38 lb)	Suppression of lambsquarters, henbit, mustard,	PRE.	Use only registered formulations. Adjust rate for soil type. Apply at 20 gpa. Refer to label for application and environment
	0.167 to 0.33 lb DF 0.25 to 0.5 pt 4F (0.125 to 0.25 lb)	and chickweed.	POST. Weeds: Small.	information, and special precautions that may affect weed control and crop safety. Allow a 50 day PHI. E10 G1 S7 Y4 Y13. Pages: 104-105, 108-110.

POST-Applied Herbicides

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Thistrol	2 to 6 pt	Broadleaf weeds:	POST. Pea:	Slight, temporary injury may occur.		
(MCPB)	(0.5 to 1.5 lb ae)	Small.	3 nodes until prior	Do not apply when temperature exceeds 90 F or when		
			to flowering.	peas are stressed. Suppresses Canada thistle.		
				G1 G3		

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
Basagran / generic bentazon	0.5 to 2 pt applied 1 to 4 times (0.25 to 1 lb)	suppression of	POST. Dry pea: At least 3 pair of leaves or 4 nodes. Broadleaf weeds: Small.	Non-residual, contact herbicide requiring thorough coverage. Most active in hot and sunny conditions. Add oil adjuvant at 1 to 2 pt/A. Allow a 30 day PHI. A3 A7 E3 F6 G1-2
Rezult + MSO oil adjuvant (bentazon & sethoxydim)	(1 + 1 lb or	including pigweed, ragweed, kochia, lambsquarters, wild buckwheat, biennial wormwood and Canada thistle		Refer to E3 for additional information. MSO enhances weed control more than petroleum adjuvants. Sequential applications at a 7 to 10 day intervals improves overall weed control. Tank-mix with Raptor and a POST grass herbicide for improved weed control - See NDSU Micro-rate in dry bean section. Allow 30 day PHI. A3 A7 E1-3 F6 G1 S1-8 T2
Pursuit (imazethapyr)	2 fl oz (0.5 oz ae)	weeds. No control of ALS-	POST. Pea: At least 3 inches tall but prior to 5 nodes and	User assumes all risk of crop injury. Apply only with NIS at 0.25% v/v. Do not apply during adverse weather conditions or when stress conditions are predicted within one week of application. Allow a 60 day PHI. Refer to label for application information and weed
Raptor + Basagran or Result (imazamox + bentazon/ sethoxydim)	4 fl oz + 6 to 16 fl oz (0.5 oz ae + 3 to 8 oz bentazon)	Annual grass and broadleaf weeds.		size. Risk of Raptor carryover is less than Pursuit. Basagran or Rezult antagonizes Raptor and reduces risk of injury to field pea. A3 A7 E3 E9 F4 G1 S4 X1 Y2. Pages: 102-103, 108-110.
Assure II Targa (quizalofop)	7 to 10 fl oz (0.77 to 1.1 oz)		POST. Pea: Refer to PHI.	Apply with oil adjuvant at 1% v/v but not less than 1.25 pt/A. Oil adjuvant at more than 1 qt/A is not needed. Refer to soybean section for information on broadleaf
Poast (sethoxydim)	0.5 to 1.5 pt (0.1 to 0.3 lb)	Annual grasses.	Grass: Refer to	herbicide tank-mix antagonism and methods to avoid reduced grass control. Refer to label for tank-mix options.
Select / generic clethodim	4 to 8 fl oz (1 to 2 oz)	Annual grasses and quackgrass.	page 32.	Allow a 60 day PHI for Assure II. Allow a 30 day PHI for clethodim and Poast.
Select Max (clethodim)	9 to 16 fl oz (1.125 to 2 oz)			A5-6 E2 X1. Pages: 102-103, 104-105.

Preharvest Herbicides

Roundup / generic glyphosate	Up to 2.25 lb ae.	Emerged grass and broadleaf weeds. (0.75 ae)	Weed control and harvest aid. Pea: 30% or less seed moisture.	Use only registered formulations. Add AMS at 4 lb/100 gal, or more for hard water. Refer to label for adjuvant use. For spot treatment use a 2% solution, on perennial broadleaf weeds at or beyond the bud stage. Crop will be killed in treated areas.
		Perennial weeds. (1.5 ae)	Spot treatment.	Allow a 7 day PHI for broadcast and 14 day PHI for spot treatment. Do not apply on field pea grown for seed because reduced germination/vigor may occur. A5-6 B2 X1. Pages: 102-103, 104-105.
Aim (carfentrazone) + MSO adjuvant	2 to 6 fl oz EC (0.53 to 1.5 oz)	Desiccant.	Harvest aid and desiccant for all pea varieties.	Non-residual, contact herbicides requiring through coverage. Most active in hot and sunny conditions. Add NIS at 0.25% v/v.
paraquat RUP	1.5 to 2 pt 2SL 1 to 1.3 pt 3SL (0.37 to 0.5 lb)			Allow 7 days for PHI and before grazing. Refer to label for application information and weed size. B4 B8. Pages: 104-105.

CHICKPEA/GARBANZO BEAN AND LENTIL

	Product/A			
Herbicide	(ai/A)	Weeds	When to Apply	Remarks and Paragraphs

Refer to page 6 for Fall or Spring Early Preplant Herbicides.

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Soil-Applied Herk	1.25 qt EC	Wild oat.	PPI.	PPI immediately after application.
(triallate)	(1.25 lb)			A two pass incorporation is recommended. A1-2 B1 C11 H1-2
Prowl H2O (pendimethalin)	1.75 to 3.6pt 3.3EC 1.5 to 3 pt 3.8ASC (0.72 to 1.5 lb)	Grass and some broadleaf weeds.	PPI. Fall or Spring.	Adjust rate for soil type. Poor wild oat and no wild mustard control. Apply in fall when soil temperature is less than 45 F. A1-2 B1 B6 E11 Y1 Y14. Pages: 102-103, 108-110.
Treflan / generic trifluralin	1 to 2 pt 5 to 10 lb 10G (0.5 to 1 lb)		PPI. Fall or Spring. See Remarks for use in Lentil.	Lentil: Tolerance is marginal and injury may occur under stress conditions. Apply at 1 to 1.5 pt or 5 to 7.5 lb 10G. Refer to label for additional information. A1-2 B1 B6 E11 Y1 Y14. Pages: 104-105, 108-110.
Sonalan (ethalfluralin)	1.5 to 2 pt 5.5 to 7.5 lb 10G (0.55 to 0.75 lb)			Lentil: Fall-apply Sonalan 10G just prior to snow cover into stubble on fields that have been direct-seeded with 30% or less soil disturbance for 2 to 3 years. Incorporate once using minimum soil disturbance with a rotary hoe or heavy harrow. Refer to label. A1-2 B1 B6 E11 Y1 Y14. Pages: 104-105, 108-110.
Dual / generic metolachlor	1 to 2 pt (0.95 to 1.9 lb)		PPI or PRE.	S-metolachlor may give greater weed control than generic metolachlor at equal product rates. Shallow PPI improves consistency of weed control. A1-2 B1 E6 F3 H1-2. Pages: 104-105.
Outlook / generic dimethenamid	16 to 21 fl oz (0.75 to 1 lb)		Shallow PPI, PRE, or EPOST to third leaf lentil.	Poor wild oat and wild mustard control. Adjust rate for soil type and OM. Shallow incorporation improves consistency of weed control. Refer to label for tank-mix options. A1-2 B1 E6 F3 H1-2.
Pursuit Plus (imazethapyr & pendimethalin)	20 fl oz (0.5 oz ae & 0.42 lb)	Broadleaf weeds including redroot pigweed, mustard, and nightshade.	PPI. Up to 1 week before planting.	Refer to label for tank-mix options. Additional Prowl/H ₂ O may be added. May control wild buckwheat and ALS resistant kochia. A1 A7 B1 B6 E7 S4-5 S7 X1 Y2 Y14. Pages: 102-103, 108-110.
Spartan (sulfentrazone) Chickpea Only	2.25 to 8 fl oz F (1.125 to 4 oz)	Small-seeded broadleaf weeds including kochia, pigweed species, lambsquarters, nightshade, and b. wormwood.	Fall, EPP, shallow PPI, and PRE.	Do not apply to lentil. Adjust rate for soil type and OM. Do not use on sandy soil with < 1% OM. Requires precipitation to activate herbicide. Refer to label for tank-mix options, application information, rate structure, and crop rotation restrictions. A1-2 B1 E12 H1-2 S1 S3-5 S7 Y14. Pages: 108-110.
Sharpen (saflufenacil) Chickpea Only	1 fl oz (0.36 oz)	Broadleaf weeds.		Do not apply to lentil. Sharpen has no grass activity. Provides burndown control of emerged broadleaf weeds. Refer to label for tank-mix options. A1 B1-2 B9 S1 S3-5 S7-8 X1
	0.33 to 0.5 lb DF 0.5 0.75 pt 4F (0.25 to 0.38 lb)	Suppression of lambsquarters, henbit, chickweed	PRE.	Adjust rates for soil type. Refer to label for application and environment information and special precautions that may affect
Lentil Only	0.167 to 0.33 lb DF 0.25 to 0.5 pt 4F (0.125 to 0.25 lb)	and mustard.	POST. Weeds: Small.	weed control and crop safety. Allow a 75 day PHI. E10 H1-2 Y4 Y13. Pages: 104-105, 108-110.

CHICKPEA/GARBANZO BEAN AND LENTIL

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
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POST-Applied G	ass Herbicides			
Assure II Targa (quizalofop)	7 to 10 fl oz (0.77 to 1.1 oz)	Annual grasses and quackgrass.	POST. Crop: Refer to PHI.	Add oil adjuvant at 1% v/v but not less than 1.25 pt/A Oil adjuvant at more than 1 qt/A is not needed. See Select Max label for detailed adjuvant recommendations. Refer to section in soybean for information on broadleaf herbicide tank-mix antagonism and method to avoid reduced grass control. Allow a 60 day PHI for Assure II. Allow a 50 day PHI for Poast. Allow a 30 day PHI for Select/clethodim. A5-6 E2 X1. Pages: 102-103, 104-105.
Poast (sethoxydim)	0.5 to 1.5 pt (0.1 to 0.3 lb)	Annual grasses.	Grass: Refer to soybean section on page 32.	
Select / generic clethodim	4 to 8 fl oz (1 to 2 oz)	Annual grasses and quackgrass.		
Select Max (clethodim)	9 to 16 fl oz (1.125 to 2 oz)			
Preharvest Herbi	cides			
Roundup / generic glyphosate	Up to 2.25 lb ae	Emerged grass and broadleaf weeds.	Harvest aid and desiccant.	Use only registered formulations. Apply with AMS at 4 lb/100 gal, or more for hard water Allow a 7 day PHI for broadcast and 14 day PHI for spot treatment. Refer to label for adjuvant use. Do not apply on field pea grown for seed because
		Perennial weeds.	Spot treatment.	reduced germination/vigor may occur. For spot treatment: Use a 2% solution, apply to perennial broadleaf weeds at or beyond the bud stage, and crop will be killed in treated areas. A5-6 B2 X1. Pages: 102-103, 104-105.
paraquat RUP	1.5 to 2 pt 2SL 1 to 1.3 pt 3SL (0.37 to 0.5 lb)	Desiccant.	POST. Allow a 7 days PHI.	Non-residual, contact herbicide requiring thorough coverage. Most active in hot and sunny conditions. Apply when at least 80% of the pods are mostly ripe with no more than 40% (bush type beans) or 30% (vine type) of the leaves still green. B8.