

Chemical weed control in soybeans.

Situation	Amount of Product(s) per Acre	Remarks and Limitations
Glyphosate-resistant (Roundup Ready) soybean varieties		
Emerged grass and broadleaf weeds	22 fl. oz. Roundup PowerMax or 24 fl. oz. Durango DMA or 24 fl. oz. Touchdown Total	GROUP 9 HERBICIDES• For use with glyphosate-resistant (Roundup Ready) soybeans only. Apply these or other glyphosate products 24-30 days after planting glyphosate-resistant soybeans as a total postemergence control program. If common lambsquarters is 3 in. or taller, use 1.5 times the recommended rate or see below for additional information about this problem weed.
Problem Weed Common lambsquarters One pass program	22 fl. oz. Roundup PowerMax or 24 fl. oz. Durango DMA or 24 fl. oz. Touchdown Total + 1/8th oz. Harmony SG	GROUP 2 and 9 HERBICIDES• Tank mix Harmony SG with glyphosate and apply 24-30 days after planting glyphosate-resistant soybeans as a total postemergence control program.
	3-3.75 pt. Flexstar GT	GROUP 9 and 14 HERBICIDES• Apply Flexstar GT postemergence before lambsquarters is 8 in. tall. Use spray adjuvants according to label. Do not apply Flexstar GT to any field more than once every 2 years.
Problem Weed Common lambsquarters Two pass program	0.89 oz. †Python WDG	GROUP 2 HERBICIDE• Apply Python WDG preemergence and follow with a postemergence application of glyphosate 24-30 days after planting glyphosate-resistant soybeans.
	2 oz. Valor SX	GROUP 14 HERBICIDE• Apply Valor SX preplant or preemergence before soybeans emerge. Follow with a postemergence application of glyphosate 24-30 days after planting glyphosate-resistant soybeans. Valor SX will provide residual control of many annual broadleaf weeds including common lambsquarters.
Problem Weed Common lambsquarters Two pass program (continued)	2.5 oz Valor XLT	GROUP 2 and 14 HERBICIDES• Apply Valor XLT preplant or preemergence before soybeans emerge. Follow with a postemergence application of glyphosate 24-30 days after planting glyphosate-resistant soybeans. Valor XLT will provide residual control of many annual broadleaf weeds including common lambsquarters.
	1.5 lb. Lorox DF	GROUP 5 HERBICIDE• Apply preemergence and follow with a postemergence application of glyphosate 24-30 days after planting glyphosate-resistant soybeans.
	2.8 oz. Enlite	GROUP 2 and 14 HERBICIDES• Apply preemergence and follow with a postemergence application of glyphosate 24-30 days after planting glyphosate-resistant soybeans.
	2 oz. *†OpTill	GROUP 2 and 14 HERBICIDES• Apply preplant or preemergence. Do not apply once soybeans have reached the cracking stage or after emergence. Follow with a postemergence application of glyphosate 24-30 days after planting glyphosate-resistant soybeans. *†OpTill will provide residual control of many annual broadleaf weeds including common lambsquarters.

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Problem Weed Quackgrass	22-44 fl. oz. Roundup PowerMax or 24-48 fl. oz. Durango DMA or 24-48 fl. oz. Touchdown Total	GROUP 9 HERBICIDES • Apply these or other glyphosate products as preplant foliar sprays in the spring when quackgrass is at least 8 in. tall 4- to 5-leaf stage) and actively growing. Delay tillage for at least 3 days after spraying. Low rates should be used only in fields that are to be tilled, using 3–10 gal. of water/A and may not provide long-term control. May also be applied 24–30 days after planting glyphosate-resistant soybeans.
Problem Weed Nutsedge	22 fl. oz. Roundup PowerMax or 24 fl. oz. Durango DMA or 24 fl. oz. Touchdown Total + 1/2 oz. Classic or 0.375 oz. Synchrony XP	GROUP 2 HERBICIDE • Tank-mix glyphosate with Classic or Synchrony XP and apply to nutsedge up to 3 or 6 in. tall respectively. When tank mixing Classic or Synchrony with glyphosate herbicides, it is recommended to add ammonium sulfate (AMS) at 4.25 – 17 lb./100 gal. of spray mixture.
Problem Weed Volunteer corn, including Liberty Link, and glyphosate-resistant (Roundup Ready) hybrids	6–8 fl. oz. Fusilade DX or 5 fl. oz. Assure II/ Targa or 6-9 fl.oz. Select Max	GROUP 1 HERBICIDES • Apply postemergence to actively growing corn. Add crop oil concentrate or nonionic surfactant according to label. These herbicides are effective against volunteer glyphosate-resistant corn. Some can be tank-mixed with the glyphosate application in glyphosate-resistant soybeans.

Conventional soybean varieties

PRE Programs Annual grass and broadleaf weeds	1.33 pt. *†Dual II Magnum + 0.89 oz. †Python WDG	GROUP 2 and 15 HERBICIDES • Apply preemergence. †Python WDG will control triazine-resistant lambsquarters and pigweed, and will suppress ragweed. †Dual II Magnum is not for use in Nassau and Suffolk Counties.
	1.33 pt. *†Dual II Magnum + 2/3 lb. Dimetric DF	GROUP 5 and 15 HERBICIDES • Apply preemergence. Dimetric DF is a triazine herbicide and will not control triazine-resistant lambsquarters and ragweed. †Dual II Magnum is not for use in Nassau and Suffolk Counties.
	1.33 pt. *†Dual II Magnum + 2 lb. Lorox DF	GROUP 7 and 15 HERBICIDES • Apply preemergence. Lorox will control triazine-resistant lambsquarters, pigweed, and ragweed. †Dual II Magnum is not for use in Nassau and Suffolk Counties.
Problem Weed Quackgrass	22-44 fl. oz. Roundup PowerMax or 24-48 fl. oz. Durango DMA or 24-48 fl. oz. Touchdown Total	GROUP 9 HERBICIDES • Apply these or other glyphosate products as preplant foliar sprays in the spring when quackgrass is at least 8 in. tall 4- to 5-leaf stage) and actively growing. Delay tillage for at least 3 days after spraying. The low rates should be used only in fields that are to be tilled, using 3–10 gal. of water/A and may not provide long-term control.
Problem Weed Nutsedge, annual grass and broadleaf weeds	1.33-1.67 pt. *†Dual II Magnum + 1/2-2/3 lb. Dimetric DF	GROUP 5 AND 15 HERBICIDES • Apply tank mixture preplant and incorporate with a single tillage operation or apply *† Dual II Magnum preplant-incorporated and follow with a preemergence application of Dimetric DF to control annual broadleaf weeds. Dimetric DF is a triazine herbicide and will not control triazine-resistant lambsquarters and ragweed. *†Dual II Magnum is not for use in Nassau and Suffolk Counties.

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	1.33-1.67 pt. *†Dual II Magnum + 1-1.14 oz. †Python WDG	GROUP 2 AND 15 HERBICIDES • Apply preplant incorporated within 14 days before planting. The addition of 4 oz. of Dimetric DF will improve triazine-susceptible common ragweed control. *†Dual II Magnum and †Python are not for use in Nassau and Suffolk Counties.
Problem Weed Common ragweed	12.5 fl. oz. Cobra or 1.25 pt. Reflex	GROUP 14 HERBICIDES • Apply postemergence when ragweed has 4 to 6 leaves. Add crop oil concentrate or nonionic surfactant according to label. Do not apply Reflex to any field more than once every 2 years.
Problem Weeds Annual broadleaf weeds including velvetleaf	1.5–2 pt. Basagran	GROUP 6 HERBICIDE • Apply postemergence with 1 qt./A of an oil concentrate-surfactant blend when velvetleaf has fewer than 4 leaves. Will not control grasses and redroot pigweed.
Problem Weed Velvetleaf	4–8 fl. oz. Resource	GROUP 14 HERBICIDE • Use 4 oz./A for velvetleaf up to 6-leaf stage, 6 oz./A up to 8-leaf stage, and 8 oz./A up to 10-leaf stage. Apply with 1 pt./A crop oil concentrate.
Problem Weeds Annual grasses	9 -16 fl. oz. *Select Max or 12 fl. oz. Fusilade DX or 7–8 fl. oz. Assure II/Targa or 1.5 pt. Poast Plus	GROUP 1 HERBICIDES • Apply postemergence to actively growing grasses. Add crop oil concentrate or nonionic surfactant according to label.
Problem Weed Volunteer corn, including Liberty Link, and glyphosate-resistant (Roundup Ready) corn.	6–8 fl. oz. Fusilade DX or 5 fl. oz. Assure II/Targa or 6-9 fl.oz. *Select Max	GROUP 1 HERBICIDES • Apply postemergence to actively growing volunteer corn. Add crop oil concentrate or nonionic surfactant according to label. These herbicides are effective against volunteer glyphosate-resistant corn.
Liberty Link soybean varieties		
Emerg ed annual grass and broadleaf weeds	22 fl. oz. †Liberty 280 SL	GROUP 10 HERBICIDE •• For use with Liberty Link soybeans only. Apply postemergence when weeds are 2 to 4 in. tall. †Liberty 280 SL must be applied between dawn and 2 hours before sunset with a spray grade AMS (ammonium sulfate) at 3 lb./A.

*Restricted-use pesticide; may be purchased and used only by certified applicators or used by someone under the direct supervision of a certified applicator.

- Refer to Section 6.7.1 for information on herbicide resistance management and site of action groups.