

Crop, Situation, and Active Chemical Per Broadcast Acre	Weeds Controlled	Formulated Material Per Broadcast Acre	Time of Application	Method of Application and Precautions
COTTON				
For additional information on burndown herbicides see p. 23, WEED RESPONSE RATINGS FOR BURNDOWN HERBICIDES.				
Preplant–Burndown				
paraquat @ 0.47 to 0.94 lb/A	Most emerged broadleaf weeds and grasses.	Paraquat (2 or 3 lb/gal formulations) 32 to 64 oz/A or 1.25 to 2.5 pt/A. Use high rate on weeds larger than 2 inches. Add a surfactant (p. 3).	After beds are formed but prior to planting.	Apply for knockdown of existing vegetation prior to planting. Not dependent upon temperature for activity. Add 2,4-D or Clarity for improved control of horseweed. Add Cotoran or Diuron for improved control.
glufosinate @ 0.73 lb/A	Most emerged broadleaf and grass weeds.	Glufosinate (280 SL formulations) 40 oz/A. Follow label for surfactant use.	Prior to planting.	Add 2,4-D or Clarity for improved control of horseweed if preplant interval can be achieved. Use nozzles and pressure that create medium spray droplets. Use 10 gpa.
glyphosate @ 1 lb/A	Annual grasses and broadleaf weeds. Does not control entire-leaf and ivyleaf morningglories.	Glyphosate (4 lb/gal formulations) 2 pt/A.	Use prior to planting for vegetation knockdown.	Add 2,4-D or Clarity for control of horseweed.
glyphosate + carfentrazone @ 1 lb/A + 0.016 lb/A	Improved control of morning-glory and henbit.	Glyphosate (4 lb/gal formulations) + Aim 2EC 2 pt/A + 1.0 oz.	Use prior to planting for vegetation knockdown.	Add surfactant if glyphosate formulation does not contain one. Add 2,4-D or Clarity for improved control of horseweed.
glyphosate + 2,4-D @ 1 lb/A + 1 lb/A	Annual grasses and broadleaf weeds.	Glyphosate (4 lb/gal formulations) + 4 SL 2,4-D Amine 2 pt/A + 2 pt/A.	At least 28 days prior to planting.	Adding residual herbicide such as Caparol, Valor, Cotoran or Direx provides residual control of horseweed.
glyphosate + 2,4-D + rimsulfuron/thifensulfuron @ 1 + 1 + 0.25/0.25 lb/A	Annual grasses and broadleaf weeds.	Glyphosate (4 lb/gal formulations) + 2,4-D + LeadOff 2 pt/A + 1.5 pt/A + 1.5 oz/A.	At least 30 days prior to planting. Some injury from LeadOff has been observed.	For horseweed use 8 oz/A dicamba.
glyphosate + dicamba @ 1 lb/A + 0.25 lb/A	Annual grasses and broadleaf weeds including horseweed.	Glyphosate (4 lb/gal formulations) + dicamba 2 pt/A + 8 oz/A.	At least 21 days prior to planting following 1 inch of rainfall. Current proposed cutoff date is April 15 for all dicamba applications. Check Arkansas State Plant Board website for future updates (www.aad.arkansas.gov).	Good option for glyphosate-resistant horseweed. Adding residual herbicide such as Valor, Caparol, Cotoran or Direx provides residual control of horseweed.
glyphosate + flumioxazin @ 1 lb/A + 0.032 to 0.063 lb/A	Annual grasses and broadleaf weeds.	Glyphosate (4 lb/gal formulations) + Valor 51 WDG 2 pt/A + 1 to 2 oz/A.	At least 14 days for 1 oz/A or 21 days for 2 oz/A + 1 inch of rain prior to planting.	Valor is rainfast in 1 hour. Provides residual control of horseweed. Add Clarity for resistant horseweed.
glyphosate + fomesafen @ 1 lb/A + 0.25 lb/A	Broadleaf weeds including Palmer pigweed.	Glyphosate (4 lb/gal formulations) + Reflex 2 EC 2 pt/A + 1 pt/A.	Apply 14-21 days preplant + 0.5 inch rainfall prior to planting.	Provides residual control of horseweed and pigweed for 6 weeks after application. Knocking or dragging top of beds prior to planting will remove herbicide and allow weed infestation.

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glyphosate + flumioxazin + dicamba @ 1 lb/A + 0.063 lb/A + 0.25 lb/A	Annual grass and broadleaf weeds including horseweed.	Glyphosate (4 lb/gal formulations) + dicamba + Valor 51 WDG or Afforia 2 pt/A + 8 oz/A + 2 oz/A or 2.5 oz/A.	At least 30 days following 1 inch of rainfall prior to planting. Current proposed cutoff date is April 15 for all dicamba applications. Check Arkansas State Plant Board website for future updates (www.aad.arkansas.gov).	Provides residual control of horseweed and pigweed for 6 weeks after application.
glyphosate + oxyfluorfen @ 1 lb/A + 0.25 lb/A	Annual grass and broadleaf weeds.	Glyphosate (4 lb/gal formulations) + Goal 2XL 2 pt/A + 1 pt/A.	Apply late February to mid March.	If planting directly into the stale seedbed, application of Goal requires at least 30 days prior to planting and at least three ¼-inch rainfalls. If these conditions are not met, a 2-inch surface incorporation is required before planting.

SOYBEANS

For additional information on burndown herbicides see page 23, WEED RESPONSE RATINGS FOR BURNDOWN HERBICIDES.

Preplant–Burndown

paraquat @ 0.47 to 0.94 lb/A	Annual broadleaf and grass weeds (existing vegetation).	Paraquat (2 or 3 lb/gal formulations) 32 to 64 oz/A or 1.88 to 3 pt/A in at least 20 gal water per acre for ground application. 5 to 10 gal for aerial application. Add 0.25% surfactant.	Use prior to planting on seedbeds that are not to be disturbed before planting. Use higher rate on weeds larger than 2 inches.	Good spray coverage is essential. Adding metribuzin will increase activity.
glyphosate @ 1 lb/A	Annual grasses and broadleaf weeds (existing vegetation). Weak on morningglories.	Glyphosate (4 lb/gal formulations) 2 pt/A. Use high rate on all but very small weeds.	Use prior to planting for vegetation knockdown.	Best results when applied in lower spray volumes, i.e., 5 to 10 gpa.
glufosinate @ 0.64 lb/A	Good option for glyphosate-resistant horseweed. Annual grasses and broadleaf weeds (existing vegetation).	Glufosinate (280 SL formulations) 36 oz/A.	Use prior to planting for vegetation knockdown.	Good coverage and warm weather will increase efficacy. Do not use prior to planting Liberty Link soybeans.
glyphosate or paraquat + metribuzin @ 1 lb/A or 0.47 to 0.78 + 0.25 to 0.75 lb/A	Postemergence control of existing annual weeds. See rating table for preemergence control with metribuzin.	Glyphosate (4 lb/gal formulations) or Paraquat (2 or 3 lb/gal formulations) + Metribuzin 75DF 2 pt/A or 32 to 64 oz/A or 1.8 to 3 pt/A + 0.33 to 1 lb/A DF. Add 0.25% surfactant.	At planting or prior to crop emergence.	Tank mix. Apply as above. Do not use on sensitive varieties listed on label. A list of metribuzin-tolerant varieties is available. Avoid use on high pH soils.