

Quick Alabama Reference Guide for Glyphosate Resistant Horseweed and Palmer Amaranth Control in COTTON

Note: Read and follow all manufacturer's label directions prior to application. Suggested products and rates are meant as guides and do not substitute for label directions.

BURNDOWN*	MOA*	RATES/A	RESTRICTIONS	REMARKS
Roundup PowerMax + dicamba or 2,4-D + Valor + dicamba or 2,4-D + Leadoff	9 4, 14 4, 2	22-43 fl. oz + 8 or 16 fl. oz + 1-2 oz + 8 or 16 fl. oz + 1.5 oz	Dicamba 21 days with 1 in rain, 2,4-D ester 30 days, Valor 14 days prior to plant and Leadoff 30 days preplant.	Dicamba and 2,4-D provide no residual, Valor and Leadoff provide no foliar control on horseweed, but do provide residual horseweed control.
Liberty or Gramoxone SL + Valor or Leadoff	10, 22 14, 2	32 fl. oz + 1-2 oz or 1.5 oz	Add non-ionic surfactant @ 1 qt per 100 gal spray mix to Gramoxone. Apply 14 days prior to plant.	Apply Liberty and Gramoxone at temps above 60 F in at least 15 gallons/A of spray volume and sunny weather.
PRE-PLANT INCORPORATED*		RATES/A	RESTRICTIONS	REMARKS
Treflan	3	24 oz		Must be incorporated following application.
PREEMERGENCE*		RATES/A	RESTRICTIONS	REMARKS
Gramoxone SL + Cotoran 4L, Diuron 4L, Caparol 4L, or Solicam DF or Staple LX	22 7, 5 12, 2	32 fl. oz 2-3 pts or 1-1.25 lb or 3 fl. oz	See label restrictions for Cotoran use on Karst soils and loamy sand soils.	Provides residual control, need 0.5 in or more rain for activation. Plant back following Cotoran is 3M-Wheat, 8M-Corn, 9M-Soybeans. Diuron is 12M-Wheat, Corn and Soybean-next crop year.
Gramoxone SL + Reflex 2EC	22, 14	32 fl. oz + 1 pt	Apply to medium or fine textured soils up to 21 days prior to planting. A minimum of 0.5 in of rainfall must occur before planting.	Apply behind the planter on sandy soils. Does not mix with IPA salt formulation of Roundup. May be mixed with other burndown herbicides on fine textured soil. Plant back restrictions: Corn-10M, Wheat-4M
POSTEMERGENCE*		RATES/A	RESTRICTIONS	REMARKS
Roundup Pmax (RF) or Liberty (LL) + Dual Magnum	9, 10 15	22-43 or 29 fl. oz + 1-1.3 pt	Apply before weeds emerge, possibly on 1-3 lf cotton.	Dual Magnum has only residual activity.
Roundup Pmax (RF) + Warrant	9, 15	22-43 fl. oz + 3 pts	Can make two applications, first when cotton is 2-3 lf, second as a directed spray after 4 nodes	Warrant has only residual activity.
Liberty (LL)	10	29 fl. oz	A total of 87 fl. oz/A can be used from burndown until 70 days prior to harvest	No adjuvant is needed for Liberty. DO NOT spray within one hour of sunset.
Diuron or Layby Pro (diuron + linuron) or Suprend (Envoke + prometryn) or Valor	7 2, 5 14	2 pts or 2 pts or 1 lb or 2 oz	Post direct at layby with 2.5 pts MSMA	Use non-ionic surfactant @ 1 qt per 100 gal spray. See label restrictions on following crops. Max.usage of Valor is 4 oz/year.

* All herbicides with the same color or MOA number have the same Mode of Action (MOA).