

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

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 Pmax + dicamba or 2,4-D + Valor	9 4, 14	22-43 fl. oz + 8 or 16 fl. oz + 1-2 oz	Dicamba: 21 days with 1 in rain, 2,4-D ester: 7 days prior to planting	Dicamba and 2,4-D provide no residual, Valor provides no foliar on horseweed.
Liberty or Gramoxone SL + Valor or Leadoff	10, 22, 14, 2	29 or 32 fl. oz + 1-2 oz	Add non-ionic surfactant @ 1 qt per 100 gal spray mix to Gramoxone	Ignite and Gramoxone need higher temps and 15 gallons spray volume per acre.
Roundup Pmax + Verdict (Sharpen + Outlook)	14, 15 9	5 oz + 22-43 fl. oz	30 day plant back on sandy soils, none on heavier soils	Provides residual and emerged control of horseweed. Must use 60% MSO + AMS.
Envive (Canopy EX + Valor) + Gramoxone SL	2, 14 22	3.0 oz + 32 fl. oz	Crop oil is preferred adjuvant for Envive.	Provides residual control of horseweed and pigweed. Plant back for Envive is 10M-Cotton, 10M-Corn. Envive may also be used as a PRE treatment.

PRE-PLANT INCORPORATED*		RATES/A	RESTRICTIONS	REMARKS
Treflan	3	24 oz		Must be incorporated following application.

PREEMERGENCE*		RATES/A	RESTRICTIONS	REMARKS
Gramoxone SL + Prefix (Dual + Reflex)	15, 14	32 fl. oz 2.5 pts	2 Plant back restrictions are 4 months to wheat, 10 months to corn	Combinations of active ingredients in Dual Magnum and Reflex.
Gramoxone SL + Boundary (Dual + Sencor)	15, 5	32 fl. oz pts	2 Note soybean variety sensitivity to metribuzin	Combination of Dual Magnum and metribuzin
Valor	14	2-3 oz	Max use rate for valor is 3 oz/season	If Valor was used in burndown then don't use here.

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 to 3rd trifoliolate leaf	Dual Magnum has only residual activity.
Roundup Pmax (RF) or Liberty (LL) + Warrant	9, 10 15	22-43 or 29 fl. oz + 3 pts	Can make two applications up to 6th trifoliolate leaf	Warrant has only residual activity.
Roundup Pmax (RF) or Liberty (LL) + Cobra or Flexstar or Ultra Blazer	9, 10 14	22-43 or 29 fl. oz 12.5, 24 or 24 fl. oz	See label for use of surfactants and MSO with these products.	Flexstar contains same active as Reflex. All may cause foliar burn. All will not control Palmer larger than 3 inches.
First Rate + surf	2	0.3-0.6 oz	9M cotton, 3M wheat	For horseweed only.

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