

## Weed Response to Burndown Herbicides Used in Peanut

Eric P. Prostko, A. Stanley Culpepper, and Steve M. Brown

Weed Species	Burndown Treatment <sup>1</sup>							
	2,4-D <sup>3</sup>	glyphosate acid	glyphosate acid <sup>2</sup> + 2,4-D <sup>3</sup>	glyphosate acid <sup>2</sup> + Valor	glyphosate acid <sup>2</sup> + Aim	paraquat	paraquat + 2,4-D	paraquat + Valor <sup>4</sup>
<b>GRASSES / SEDGES</b>								
annual bluegrass	N	E	E	E	E	G-E	G-E	
bermudagrass	N	F	F	F	F	P	P	
crabgrass	N	E	G-E	E	E	G		
goosegrass	N	E	G-E	E	E	F-G		
Italian ryegrass	N	G-E	G	G	G	P-F	P-F	
johnsongrass	N	G-E	G	G-E	G-E	P		
little barley	N	E	E	E	E	G	G	
sandbur	N	E	G-E	E	E	G		
Texas panicum	N	E	G-E	E	E	G		
volunteer corn	N	E	E	E	E	F-G		
purple nutsedge	N	F-G	F-G	G	F-G	P-F		
yellow nutsedge	N	P-F	P-F	F	P-F	P-F		
<b>BROADLEAVES</b>								
bristly starbur	G	G-E	G-E	E	E	E		
buttercup	G	G-E	E	G-E	G-E	E		
Carolina geranium	F	P-F	G	G	F-G	G-E	G-E	
chickweed	P	E	E	E	E	E	E	
citronmelon	F	G-E	E	E	E	F		
cocklebur	E	E	E	E	E	G-E		
coffee senna	G	E	E	E	E	F		
corn spurry	P-F	G-E	G-E			F-G		
cowpea	G	E			E	E		
cudweed	P-F	G-E	G-E	E		F-G		
curly dock	P-F	F	F-G	F	F	P	P-F	
eveningprimrose	E	P-F	E	F-G	F	P-F	E	F-G
eclipta	P	F			G-E	F		G
Florida beggarweed	F-G	E	E	E	E	E		
Florida pusley	F	F	G	F-G	G	F		G
field pansy	P-F	F-G	F-G	G		G-E		
hemp sesbania	G-E	P-F	E		G-E	F		
henbit	P-F	F	G-E	E	E	G	G-E	
horsenettle	F	F			P-F	P-F		
horseweed	F-G	F-G <sup>5</sup>	G-E	G-E <sup>5</sup>	G-E <sup>5</sup>	P	P-F	P
lambsquarters	E	G	E		G-E	F-G		

Weed Response to Burndown Herbicides Used in Peanut (continued)

Weed Species	Burndown Treatment <sup>1</sup>							
	2,4-D <sup>3</sup>	glyphosate acid	glyphosate acid <sup>2</sup> + 2,4-D <sup>3</sup>	glyphosate acid <sup>2</sup> + Valor	glyphosate + Aim	paraquat	paraquat + 2,4-D	paraquat + Valor <sup>4</sup>
morningglory, <i>Ipomoea</i>	G	F	E	E	E	F-G		
morningglory, smallflower	F	G	E	E	G-E	P		
Pennsylvania smartweed	F	G	G		G-E	P		
pigweed	G-E	E	E	E	E	G		
prickly sida	F-G	F-G	G		F-G	P-F		
purslane	G-E	F-G	G-E	G	F-G	G		
ragweed	E	G	E		G-E	G		
redweed	F	G			G-E	F		
shepherdspurse	G	G			G	G	G-E	
sicklepod	F-G	G-E	E	E	G-E	E		
speedwell	P-F	G-E	G-E	E	E	F	G	
spurred anoda	F-G	G			G	F-G		
swinecress	F-G	F-G	G	F-G	F-G	P	P-F	
tropic croton	F	G-E	G-E	E	G-E	F		
tropical spiderwort	G-E	P	G-E	F	G-E	G	G-E	
velvetleaf	F-G	G			E	P		
vines (maypop, trumpet creeper, bigroot mg)	F	P-F			P-F	P		
Virginia pepperweed	G-E	G			G	P-F	G-E	
volunteer peanuts	P	F		F-G	F	P	P	G
wild lettuce	G	G	G-E	E	G-E	P		
wild poinsettia	F-G	G			G-E	G-E		
wild radish	G	F-G	E	G	G	F	F-G	G
<b>COVER CROPS</b>								
clover	F	F	F-G		F	F-G		
lupine	G	G	G		G	F-G		
small grains	N	E	G-E	E	E	G		G
vetch	G	F	G-E	F	F	F		

Key: E = 90% or better control; G = 80% to 90% control; F = 60% to 80% control; P = 30% to 60% control; N = < 30% control.

<sup>1</sup>Application rates per acre: 2,4-D, 1 pt; glyphosate acid, 0.75 lb a.e.; paraquat (Gramoxone Inteon, Gramoxone Max, Firestorm), 0.63 lb a.i.; Valor, 1 to 2.0 oz (Note: if 3 oz/A of Valor is used, burndown control may be better than indicated and residual control will be increased)

<sup>2</sup>Mixing herbicides with glyphosate occasionally reduces grass control (including cover crops). This is more likely to occur with large weeds in dry conditions.

<sup>3</sup>Labels for 2,4-D are ambiguous concerning the waiting period between application and planting.

<sup>4</sup>Use a NIS (0.25% v/v) or COC (1% v/v) with this tank-mixture. A COC may be preferred if weeds are large

<sup>5</sup>Glyphosate resistant horseweed has been detected in neighboring states. Glyphosate will not control glyphosate resistant horseweed.

# WEED RESPONSE TO HERBICIDES USED IN PEANUTS

Eric P. Prostko, Extension Agronomist - Weed Science

	I PPI/PRE <sup>1,2</sup>						PRE		POSTEMERGENCE	
	Prowl Pendimax Sonalan	Dual Magnum <sup>3</sup>	Lasso Intrro	Frontier Outlook	Pursuit	Strongarm	Solicam	Valor	Paraquat <sup>4</sup>	Paraquat + Storm
<b>Perennials</b>										
bermudagrass	P	P	P	P	P	P	P	P	P	P
johnsongrass- rhizome	P	P	P	P	P	P	P	P	P	P
nutsedge, purple	P	P	P	P	G	P-F	P-F	P	P-F	F
nutsedge, yellow	P	F-G	F	F	F-G	P-F	P-F	P	P-F	F-G
<b>Grasses (annual)</b>										
broadleaf signalgrass	G-E	F-G	P	F	P	P	G	P	G	G
crabgrass	E	E	E	E	F	P	G-E	P	F-G	F-G
crowfootgrass	E	E	E	E	P	P	G	P	G	G
fall panicum	G	G	G	G	P-F	P	G	P	G	G
goosegrass	E	E	E	E	F	P	G	P	F-G	F-G
johnsongrass- seedling	E	F	F	F	G	P		P	G	G
sandbur	E	F-G	F-G	F-G		P		P	F	F-G
Texas panicum	G-E	P	P	P	P-F	P-F	P	P	G-E	G-E
<b>Broadleaves</b>										
bristly starbur	P	P	F	P	F	E	P-F	F	P-F	F-G
burgherkin	P	P	P	P	E	G	G	G	F	G
carpetweed	G	P-F	P-F	G	F-G	G	G		F-G	G
citronmelon	P	P	P	P	P	G		G	F	G
cocklebur	P	P	P	P	G-E	G-E	P-F	P	G	G-E
coffee senna	P	P	P	P	F-G	P	F	P-F	F	E
copperleaf	P	P		F-G	P	G-E		G-E	P	G
cowpea	P	P	P	P	P	P	P	P-F	F-G	F
crotalaria	P	P	P	P				G		F-G
croton, tropic	P	P	P-F	P	P	F-G	G	G	P	G
dayflower/tropical spiderwort	P	G-E		F		G	P-F	F	G	G
eclipta	P	P-F	P-F	P-F	P	G-E	P	G-E	P-F	F-G
Florida beggarweed	P	P-F	F	P-F	P	F-G	G	G-E	G-E	G-E
Florida pusley	E	G-E	G-E	G-E	G	G-E	G-E	G-E	P	P
groundcherry, cutleaf	P	G	G	G						
jimsonweed	P				G	G-E	F-G	G	P	F

WEED RESPONSE TO HERBICIDES USED IN PEANUTS (continued)

	I PPI/PRE <sup>1,2</sup>						PRE		POSTEMERGENCE	
	Prowl Pendimax Sonalan	Dual Magnum <sup>3</sup>	Lasso Intro	Frontier Outlook	Pursuit	Strongarm	Solicam	Valor	Paraquat <sup>4</sup>	Paraquat + Storm
hairy indigo	P	F				G	G	G	F	
hemp sesbania	P	P	P	P	P	P-F	P	G		G
lambsquarters	E	F	F	G	F	G-E	F-G	G-E	F	F-G
<b>morningglory spp.</b>	P	P	P	P	G	F-G	P-F	F-G	P	F
cypressvine	P	P	P	P	G		F	G	F-G	F-G
entireleaf/ivyleaf	P	P	P	P	G	F-G	P	F-G	F	G
pitted	P	P	P	P	G	F-G	P	F	F	G
purple moonflower	P	P	P	P			P		F	G
red	P	P	P	P	G	F		G	F	G
smallflower	P	P	P	P	E	G	P-F	G-E	P	G-E
tall	P	P	P	P	G			F-G	F	G
pigweeds <sup>5,6</sup>	G-E	G-E	G-E	G-E	E	G	G	G	P	G-E
poorjoe										
prickly sida	P	F	F	F	G-E	F-G	G-E	G-E	F	G
purslane	G-E	G	G	G	G		F	G-E	G	G
ragweed	P	P	P	F-G	P	G-E	G	G-E	P-F	G
redweed	P					G	G-E	G-E	F	G
spurred anoda	P	P	P	P		F-G		F	P	G
sicklepod	P	P	F	P	P	P	F	P	G-E	G-E
smartweed	P				G	G		P-F	G-E	G
spider flower	P	P	P	P	G					
spurge spp.	P	P-F	P	P-F			F-G	G-E		
velvetleaf	P	P	P	P	P-F	G-E		F	F	F-G
wild poinsettia	P	P	P	P	E	G-E	P	F-G	F	G
wild radish	P	P	P	P	E		F		F	G

Abbreviations: E = Excellent (> 90%); G = Good (80-89%); F = Fair (70-79%); P = Poor (< 70%). (If no letter is given, response is unknown.) PPI=Preplant Incorporated, PRE=Preemergence.

<sup>1</sup>Ratings for Pursuit PPI and PRE are similar. <sup>2</sup>Ratings for Dual, Lasso and Frontier PRE and AC are similar. See remarks for additional information.

<sup>3</sup>The generic formulations of metolachlor (**Parallel PCS, Stalwart, Me-Too-Lachlor**) have not provided the same length of residual control of certain weeds as similar rates of Dual Magnum formulations in some UGA field trials.

<sup>4</sup>Commercially available as Gramoxone Max/Firestorm or Gramoxone Inteon.

<sup>5</sup>Palmer amaranth control may be less than indicated.

<sup>6</sup>Control of ALS- resistant pigweed may be less than indicated with the following herbicides: Pursuit (imazethapyr), Cadre (imazapic), Classic (chlorimuron), and Strongarm (diclosulam).

WEED RESPONSE TO HERBICIDES USED IN PEANUTS (continued)

	POSTEMERGENCE											
	Paraquat + Basagran	2,4-DB	Pursuit	Basagran Others	Ultra Blazer	Cobra	Storm	Cadre	Strongarm**	Select	Poast	Classic
<b>Perennials</b>												
bermudagrass	P	P	P	P	P	P	P	P	P	G	F-G	P
johnsongrass	P	P	P	P	P	P	P	F-G	P	G	G	P
nutsedge, purple	F	P	G	P	P	P	P	G-E		P	P	P
nutsedge, yellow	F-G	P	F-G	G	P	P-F	F	G-E		P	P	F-G
<b>Grasses</b>												
broadleaf signalgrass	G	P	P	P	P	P-F	P	G	P	E	E	P
crabgrass	F-G	P	P-F	P	P	P-F	P	G	P	E	G-E	P
crowfootgrass	G	P	P-F	P	P	P	P	G	P	G-E	G	P
fall panicum	G	P	P	P	F	P	P	G	P	G	G	P
goosegrass	F-G	P	P	P	P	P	P	F	P	G	F-G	P
johnsongrass-seedling	G	P	F	P	P	P	P	F-G	P	G-E	G-E	P
sandbur	F-G	P		P	P	P-F	P	G	P	G-E	G	P
Texas panicum	G-E	P	P-F	P	P	P	P	F-G	P	G-E	G-E	P
<b>Broadleaves</b>												
bristly starbur	F	P-F	P-F	G	F	G	F-G	F	E	P	P	F
burgherkin	F	F	F	P	G	G	F	G-E		P	P	P
carpetweed	P	P	F-G	P	G-E	G-E	G	F-G		P	P	
citronmelon	F	G	P	P	F	G	F	G		P	P	P
cocklebur	G	E	E	E	G	G-E	E	E	E	P	P	F
coffee senna	E	F-G	F	G	P	P-F	F	G		P	P	P
copperleaf	P	P	P	P	G-E	G-E	F	P-F	P	P	P	P
cowpea	P-F	P-F	P	P	P-F	P-F	P-F	P-F		P	P	F
crotalaria				P	E	E	G-E			P	P	
croton, tropic	P	P	P	P	E	E	G-E	P	P	P	P	P
dayflower/tropical spiderwort	G			G				F-G	G	P	P	
eclipta	F	P	P	G	F-G	F-G	G	P-F	G-E	P	P	P
Florida beggarweed	G-E	P	P	P	P	P-F	P	F-G	P-F	P	P	F-G
Florida pusley	P	P	P	P	P	F-G	P	P		P	P	P
groundcherry, cutleaf	F-G			P	G	G	F-G			P	P	
jimsonweed	E	P	F-G	E	E	E	G	E		P	P	

WEED RESPONSE TO HERBICIDES USED IN PEANUTS (continued)

	POSTEMERGENCE											
	Paraquat + Basagran	2,4-DB	Pursuit	Basagran Others	Ultra Blazer	Cobra	Storm	Cadre	Strongarm**	Select	Poast	Classic
hairy indigo		F	P	P	G	G	F	F		P	P	F-G
hemp sesbania			P	P	E	E	G-E	P		P	P	F-G
lambsquarters	F	F	P	F	P-F	P-F	F	P-F		P	P	P
<b>morningglory spp.</b>	F-G	F-G	G	F	G-E	G-E	G	G	G-E	P	P	
cypressvine	G-E	F	G	G	G	G-E	G	G		P	P	
entireleaf/ivyleaf		G	F-G	P	G	F-G	F	G	G-E	P	P	
pitted		F-G	G	P	G-E	G	F-G	G	G-E	P	P	
purple moonflower		F-G	P	P	G-E	F-G	G		G	P	P	P
red		G		F-G	G-E	G-E	G-E			P	P	
smallflower	G-E	F	E	E	G-E	G-E	G-E	E	G-E	P	P	
tall		G		P	G	G	F-G	G		P	P	
pigweeds <sup>5,65</sup>	G	F	E	P	E	E	G	E		P	P	P-F
poorjoe		F			G	G						
prickly sida	G	P	P-F	G	P	G	G	G		P	P	P
purslane	G	G	P-F	G	E	E	G-E	P-F		P	P	
ragweed	F	F	P	F	E	E	G	F	E	P	P	P-F
redweed	G	P	P	G	P	F	G	G		P	P	P
spurred anoda	F-G	P		G	P	P	F	G		P	P	
sicklepod	G	F-G	P	P	P	P-F	P	G-E	P	P	P	P-F
smartweed	G	P	G-E	G-E	G-E	G-E	G-E	F-G		P	P	P
spider flower			F-G		G	G	F	F-G		P	P	F
spurge spp.		P	P	P	F	F	F					P
velvetleaf	G	P	P-F	G	P-F	G	F-G			P	P	
wild poinsettia	G-E	P	P-F	P	G-E	G-E	G	E	P-F	P	P	P
wild radish	F	P	G-E	P-F	E	E	G	E	G-E	P	P	P

Abbreviations: E = Excellent (> 90%); G = Good (80-89%); F = Fair (70-79%); P = Poor (<70%). If no symbol is given, response is unknown. <sup>4</sup>Palmer amaranth control may be less than indicated.

<sup>5</sup>Control of ALS- resistant pigweed may be less than indicated with the following herbicides: Pursuit (imazethapyr), Cadre (imazapic), Classic (chlorimuron), and Strongarm (diclosulam).

\*\*24(c) label for use in Georgia only for tropical spiderwort.

**SUGGESTED HERBICIDE PROGRAM FOR THE CONTROL OF  
TROPICAL SPIDERWORT IN PEANUT:**

**AT-CRACK (before 28 days after peanut cracking):** Apply Gramoxone Inteon (12 oz/A) or Gramoxone Max/Firestorm/Parazone (8 oz/A) + Basagran (8 oz/A) + Dual Magnum (12 oz/A\*) or generic metolachlor (1 pt/A) **and**

**POST (2-3 weeks after at-crack spray):** Apply Cadre (1.44 oz/A of dry or 4 oz/A of liquid) or Strongarm (0.45 oz/A) + Dual Magnum (12 oz/A\*) or generic metolachlor (1 pt/A).

*\*The 12 oz/A rate of Dual Magnum is only recommended when used in a 2 application program. If only 1 application of Dual Magnum will be made, the rate should be increased to at least 1 pt/A..*