



## 2021 Peanut/Field Corn/Soybean Weed Control Recommendations

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### Five Important Things to Consider:

- 1) Start clean using a combination of tillage, cover crops, and/or herbicides.
- 2) Use narrow rows ( $\leq 30$ " ) or twin rows when practical.
- 3) Use at **least** 2 residual herbicides in the system.
- 4) Make timely postemergence applications (tallest weeds  $\leq 3$ " tall, **not the average**).
- 5) Hand-remove weed escapes before seed is produced.

Table 1. Herbicide Programs for Peanut.

System	Tillage	Timing				
		Preplant Burndown <sup>1</sup>	PPI	PRE	EPOST (~10-20 DAP <sup>2</sup> )	POST (~30-45 DAP)
non-irrigated (dryland)	strip-till <sup>3</sup>	Glyphosate or Paraquat + 2,4-D		No Rain in 7-10 DAP Paraquat + Prowl	Paraquat + Storm or Basagran + Dual Magnum or Warrant or Zidua or Anthem Flexx or Outlook	<b>ALS Resistance:</b> Cobra or Ultra Blazer + (Dual Magnum or Warrant or Zidua or Anthem Flex or Outlook) + 2,4-DB  <b>No ALS Resistance:</b> Cadre <sup>4</sup> + (Dual Magnum or Warrant or Zidua or Anthem Flex or Outlook) + 2,4-DB  <b>**A 4-way tank-mixture can be used if required (Cadre + Cobra or Ultra Blazer + 2,4-DB + Dual Magnum or Warrant or Zidua or Outlook)</b>
				Rain in 7-10 DAP Paraquat + Prowl + Valor		
	conventional	Prowl or Sonalan + Strongarm <sup>d</sup>	No PRE if rain is not expected in 7-10 DAP	Paraquat + Storm or Basagran + Dual Magnum or Warrant or Zidua or Anthem Flex or Outlook		
			Rain in 7-10 DAP Valor			
irrigated	strip-till <sup>c</sup>	Glyphosate or Paraquat + 2,4-D		Paraquat + Prowl + Valor + Strongarm <sup>4</sup>		
	conventional			Prowl or Sonalan + Valor + Strongarm <sup>4</sup>		

<sup>1</sup>Apply at least 7 days before planting. If there will be a long delay between the burndown application and planting (>10 days), add a residual herbicide (Valor or Dual Magnum or Warrant or Outlook) to the burndown treatment. <sup>2</sup>DAP = days after planting. <sup>3</sup>Annual grass control in strip-tillage systems is often more difficult thus additional applications of a postemergence grass herbicide (i.e. Fusilade, Poast, and Select) will be needed. <sup>4</sup>Before using Cadre and/or Strongarm, rotational crop restrictions must be considered. **\*\*SPECIAL NOTE: Dual Magnum/Warrant/Outlook are in the same herbicide family (chloroacetamide) and have the same mode of action (inhibit very long chain fatty acids). Zidua/Anthem Flex are not in the same herbicide family (isoxazoline) but have the same mode of action. Multiple applications (> 2) of these herbicides in a single year should be avoided to prevent or delay the evolution of resistance. These residual herbicides have no postemergence activity.**

**Table 2. Herbicide Programs for Field Corn Weed Control.**

Corn Hybrid/System	Preemergence	Early-Postemergence <sup>1</sup> (~17-30 DAP, V3-V5 stage, ~279-411 GDD's <sup>2</sup> )	Layby/Directed (if needed)
<b>Conventional</b>	Atrazine <sup>3</sup> or Dual II Magnum or Warrant or Outlook	1) Prowl + Atrazine + Crop Oil or 2) Atrazine + <b>One</b> of the following: (Callisto, Capreno, Armezon/Impact/Impact Z, Laudis, Revulin Q, or Steadfast Q)	Evik
<b>Liberty-Link</b>	Atrazine <sup>3</sup> or Dual II Magnum or Warrant or Outlook	1) Liberty + Atrazine + <b>One</b> of the following: [Prowl or Dual Magnum or Warrant or Zidua or Anthem Maxx or Outlook or Acuron (48 oz/A)]	
<b>Roundup Ready</b>	Atrazine <sup>3</sup> or Dual II Magnum or Warrant or Outlook	1) Glyphosate + Atrazine + (Prowl or Dual Magnum or Warrant or Zidua or Anthem Maxx or Outlook) or 2) Glyphosate + Atrazine + (Callisto or Capreno or Armezon/Impact/Impact Z or Laudis or Revulin Q or Steadfast Q) or 3) Glyphosate + Atrazine + (2,4-D or dicamba) or 4) Halex GT + Atrazine or 5) Glyphosate + Acuron (48 oz/A)	

<sup>1</sup>When using Counter (INFR) for insect and nematode control, the following herbicides should **NOT** be applied POST: Acuron, Callisto, Capreno, Halex GT, Revulin Q, and Steadfast Q. <sup>2</sup>GDD's = growing degree-days from planting (50°/86° F). <sup>3</sup>A maximum of 2.0 to 2.5 lb ai/A of atrazine can be applied in a single year depending upon application methods.

**Table 3. Herbicide Programs for Soybean.**

Soybean Variety/System	Program	Preemergence <sup>1</sup>	Postemergence (~20-30 DAP)
<b>Roundup Ready® (glyphosate)</b>	1	<b>One</b> of the following: Authority MTZ; Canopy/Cloak; TriCor/Metribuzin; Trivence	glyphosate + Reflex; or glyphosate + (Prefix or Warrant Ultra); or Flexstar GT
	2	<b>One</b> of the following: Boundary; Prowl; Anthem Maxx; Dual Magnum; Warrant; Zidua; Outlook	glyphosate + Reflex; or Flexstar GT
	3	<b>One</b> of the following: Authority XL; Envive; Fierce; Surveil; Trivence; Valor	glyphosate + (Dual Magnum or Warrant or Zidua or Anthem Maxx); or Sequence
<b>LibertyLink® (glufosinate)</b>	1	<b>One</b> of the following: Prowl; Anthem Maxx; Dual Magnum; Tricor/Metribuzin; Warrant; Zidua; Outlook	Liberty + Reflex
	2	<b>One</b> of the following: Authority XL; Envive; Fierce; Surveil; Tricor/Metribuzin; Valor	Liberty + (Dual Magnum or Warrant)
<b>Xtend® (glyphosate, dicamba)<sup>2</sup></b>	1	<b>One</b> of the following: Authority MTZ; Boundary; Canopy/Cloak; Envive; Fierce; Surveil; Tricor/Metribuzin; Trivence; Valor	1) labeled glyphosate + Xtendimax (VG) + (Dual Magnum or Warrant) or 2) labeled glyphosate + Engenia + (Dual Magnum or Warrant or Zidua or Outlook) or 3) labeled glyphosate + Tavium (VG) <b>Use DRA, VRA, PHBA with dicamba as required.</b>
<b>XtendFlex® (glyphosate, glufosinate, dicamba)</b>	1	<b>One</b> of the following: Authority MTZ; Boundary; Canopy/Cloak; Envive; Fierce; Surveil; Tricor/Metribuzin; Trivence; Valor	1) labeled glyphosate + Xtendimax (VG) + (Dual Magnum or Warrant) or 2) labeled glyphosate + Engenia + (Dual Magnum or Warrant or Zidua or Outlook) or 3) labeled glyphosate + Tavium (VG) or 4) Liberty + Reflex or Dual Magnum or Warrant <b>**Liberty and dicamba should not be tank-mixed. Use DRA, VRA, PHBA with dicamba as required.</b>
<b>Enlist E3™ (2,4-D choline)</b>	1	<b>One</b> of the following: Authority MTZ; Boundary; Canopy/Cloak; Envive; Fierce; Surveil; Tricor/Metribuzin; Trivence; Valor	Enlist One + Liberty + (Dual Magnum or Warrant or Anthem Maxx)
<b>Conventional</b>	1	Prowl + <b>One</b> of the following: Authority MTZ; Canopy/Cloak; TriCor/Metribuzin; Trivence	Reflex; or Prefix; or Warrant Ultra <i>(tank-mix with Classic or FirstRate if annual MG is a problem)</i>
	2	<b>One</b> of the following: Boundary; Prowl; Anthem Maxx; Dual Magnum; Warrant; Zidua; Outlook	Reflex <i>(tank-mix with Classic or FirstRate if annual MG is a problem)</i>

<sup>1</sup>Before using any **metribuzin** product in soybeans, check variety tolerance, soil pH, organic matter, and soil texture. <sup>2</sup>Xtend® soybeans are **NOT** tolerant of glufosinate (Liberty). Updated: November 17, 2020 (replaces all previous versions).