

Table 1. Preemergence herbicides with two to three effective sites of action for residual control of Palmer amaranth and waterhemp.

Trade Name	Active Ingredients	Effective SOA Group #'s
Authority Elite / BroadAxe XC	sulfentrazone + S-metolachlor	14 + 15
Authority Edge	sulfentrazone + pyroxasulfone	14 + 15
Authority Supreme	sulfentrazone + pyroxasulfone	14 + 15
Authority MTZ	sulfentrazone + metribuzin	14 + 5
Trivence	flumioxazin + metribuzin + chlorimuron	14 + 5
Fierce EZ	flumioxazin + pyroxasulfone	14 + 15
Fierce XLT	flumioxazin + pyroxasulfone + chlorimuron	14 + 15
Fierce MTZ	flumioxazin + pyroxasulfone + metribuzin	14 + 15 + 5
Panther Pro	flumioxazin + metribuzin + imazethapyr	14 + 5
Prefix	fomesafen + S-metolachlor	14 + 15
Warrant Ultra	fomesafen + acetochlor	14 + 15
Intimidator	fomesafen + S-metolachlor + metribuzin	14 + 15 + 5
Boundary	S-metolachlor + metribuzin	15 + 5
Matador-S	S-metolachlor + metribuzin + imazethapyr	15 + 5

Table 2. Herbicides with effective residual activity for control of Palmer amaranth and waterhemp that can be applied postemergence to soybean.

Trade Name	Postemergence Rate ^a	Active Ingredient(s)	Season Max Cumulative a.i. Rate (lb ai/a)	Max Soybean Growth Stage
Anthem Maxx	2.5 to 4.5 fl oz/A	pyroxasulfone + fluthiacet	0.266 0.0089	V6
Dual II Magnum	1 to 1.33 pt/A	S-metolachlor	2.4	V3
Outlook	14 to 21 fl oz/A	dimethenamid-P	1.125	V5
Prefix	2 to 2.33 pt/A	S-metolachlor + fomesafen	2.48 0.375 ^b	90 Day PHI ^c
Warrant	1.25 to 1.9 qt/A	acetochlor	3	R2
Warrant Ultra	48 to 65 fl oz/A	acetochlor + fomesafen	3 0.34 ^b	R2
Zidua SC	2.5 to 5 fl oz/A	pyroxasulfone	0.186	V6

^a Postemergence rates for medium soils with 1.5 to 3% OM, refer to label for coarse or fine soils or soils with low %OM.
^b Maximum cumulative rate in alternate years
^c PHI= Pre Harvest Interval