

Dry pea tolerance to Spartan plus Sharpen tank mixes

The objective of the study was to evaluate dry pea tolerance to Spartan plus Sharpen tank mixes applied preemergence (PRE). 'Blue moon' dry pea was planted May 4. All herbicide treatments were applied PRE on May 7.

Dry pea injury varied across the three replications (reps) due to soil variability. It was not uncommon to see minimal dry pea injury in one rep, but moderate injury in another rep. Soil variability also resulted in yield variability and a high coefficient of variation (CV). We know that dry pea will be more sensitive in lighter soils with high pH and low organic matter. Dry pea injury did increase with higher rates, but did not appear to increase excessively where Spartan and Sharpen were tank mixed. In other studies, we have observed better weed control with this tank mix. This tank mix was recently approved in a supplemental label.

Treatment ^a	Rate	Timing	Dry pea							
			Density	Height		Injury			Yield	Test wt.
			Jun-9	Jun-20	Jul-19	Jun-10	Jun-25	Jul-19	Aug-16	Aug-16
			m of row	-----cm-----		-----%-----			lb/A	lb/bu
Untreated			10.8	31	58	0	0	0	2420	66.8
Glyphosate + Spartan ^b	22 oz + 3 oz	PRE	10.0	29	59	21	20	18	2440	67.0
Glyphosate + Spartan ^b	22 oz + 6 oz	PRE	10.3	31	57	28	26	23	2442	67.8
Glyphosate + Spartan + Sharpen ^b	22 oz + 3 oz + 1 oz	PRE	9.7	34	64	15	19	13	2631	67.9
Glyphosate + Spartan + Sharpen ^b	22 oz + 3 oz + 2 oz	PRE	10.8	31	59	19	24	16	2321	67.3
Glyphosate + Spartan + Sharpen ^b	22 oz + 6 oz + 2 oz	PRE	10.1	30	61	25	32	25	2334	67.9
Glyphosate + Spartan + Sharpen ^b	22 oz + 6 oz + 4 oz	PRE	10.0	25	59	34	39	25	2670	67.1
Glyphosate + Sharpen ^b	22 oz + 3 oz	PRE	9.7	35	57	17	28	18	2257	67.9
Glyphosate + Sharpen ^b	22 oz + 6 oz	PRE	9.3	34	59	24	39	23	2071	68.0
Glyphosate + Prowl H2O	22 oz + 2 pt	PRE	9.8	36	53	2	2	2	2002	67.4
LSD (0.05)			NS	NS	NS	15.9	NS	NS	NS	NS
CV			15.0	12.5	9.3	50.1	74.4	9.3	21.7	0.8
^a All treatments applied with AMS (2.5 gal)										
^b Applied with MSO (1.5 pt)										