

Effect of seeding depth on dry pea tolerance to sulfentrazone in a sandy loam soil (2004)

'Majoret' dry pea was seeded April 26 at 120 lb/A into 7.5-inch rows at either 1- or 2-inch seeding depth. Individual plots were 10 x 30 ft and replicated three times. Herbicide treatments were applied preemergence (PRE) on May 5 or postemergence (POST) on June 18. The study was conducted on a sandy loam soil with soil pH 5.3 and 2.8% organic matter. We expect that very little Spartan injury occurred since the soil pH was very low.

There were no significant differences in crop stand between the 1- and 2-inch seeding depths. There was essentially no visual crop injury from Spartan treatments at either depth. Basagran caused approximately 5% injury. In July, kochia control was excellent with any Spartan treatment. Kochia control with Basagran was generally about 10% less than with Spartan. The dry pea crop was excellent and was very competitive with weeds. There was no significant difference in dry pea yield between treatments.

Treatment ^a	Rate	Timing	Dry Pea		Kochia		Yield	Test Wt
			May 27	Jul 13	Jun 16	Jul 13	Aug 12	
1-inch depth			pl / m row	% injury	% control		lb/A	lb/bu
Untreated			10.0	0	0	0	3386	64.6
Spartan	2.67 oz	PRE	10.0	0	85	100	3468	64.7
Spartan	4 oz	PRE	11.3	0	100	100	3501	65.4
Spartan	5.33 oz	PRE	9.7	1	100	100	3337	65.2
Basagran	1 pt	POST	9.5	5	0	88	3452	65.1
Handweeded check ^b			9.9	5	0	100	3313	65.3
2-inch depth								
Untreated			11.3	0	0	0	3496	64.7
Spartan	2.67 oz	PRE	11.2	0	96	98	3709	65.2
Spartan	4 oz	PRE	10.1	0	95	100	3531	64.7
Spartan	5.33 oz	PRE	9.5	0	100	99	3788	64.7
Basagran	1 pt	POST	10.1	5	0	91	3618	64.8
Handweeded check ^b			9.2	5	0	100	3551	64.9
LSD (0.05)			NS	1	5	5	NS	NS
CV			10.8	10	6	4	7	1.3

^aSelect was applied with COC at 5 oz + 1% v/v, respectively, to all treatments.

^bHandweeded checks were treated with Basagran at 0.5 pt and Select at 5 oz to aid hand weeding.