

**Study Name:** Weed control in sunflower

**Study Number:** 9919

**Objectives:** Evaluate registered and new herbicides for weed control in sunflower

**Results:** Valor caused initial crop stunting and slight stand reduction. By mid-season the crop appeared to catch up with the sunflower in the other treatments. Valor provided good control of mustard species, kochia, lambsquarters, and pigweed; but was weak on wild buckwheat and foxtails. Spartan and Valor were active on the same weeds, but control with Valor was generally equal to or slightly higher than Spartan. Based on this and other studies, it appears that a postemergence grass herbicide will be needed in combination with Valor or Spartan.

*Table. Weed control in sunflower.*

Treatment Rate	<u>June 16</u>						<u>September 20</u>					
	Must <sup>a</sup>	Kocz	Wibw	Colq	Rrpw	Fxtl <sup>b</sup>	Must <sup>a</sup>	Kocz	Wibw	Colq	Rrpw	Fxtl <sup>b</sup>
	-----Control (%)-----						-----Control (%)-----					
Prowl 3.6 pt	25	93	80	98	93	92	20	80	47	93	89	94
Treflan 2 pt	17	97	68	100	92	93	17	87	47	96	91	96
Sonalan 3 pt	30	100	82	100	93	100	18	95	70	98	92	97
Sonalan+ 1.5pt+	42	92	73	98	93	93	27	83	53	96	92	97
Eptam 1.5 pt												
Dual II M 2 pt	90	27	0	73	78	96	86	17	0	70	70	88
Valor 1.5 oz	99	97	82	97	100	75	96	91	53	90	93	40
Spartan 0.125 lb ai	90	97	27	77	63	43	87	82	30	67	63	30
Spartan 0.188 lb ai	90	97	57	92	77	50	87	88	33	73	70	35
Spartan 0.25 lb ai	94	98	57	95	88	57	92	92	37	75	77	33
Untreated	0	0	0	0	0	0	0	0	0	0	0	0
LSD	15	7	15	16	10	11	6	8	17	11	9	13
CV	17	6	18	12	9	10	8	7	29	9	8	14

<sup>a</sup> Must=Mustard species field pennycress and shepherdspurse

<sup>b</sup> Fxtl=Green and yellow foxtail