

Herbicide performance for preharvest desiccation of field pea, Carrington, 2010. (Greg Endres and Blaine Schatz). The experiment was conducted at the NDSU Carrington Research Extension Center in cooperation with Valent. Experimental design was a randomized complete block with three replicates. Inoculated field pea was planted on April 23. Herbicide treatments were applied with a hand-held boom sprayer delivering 17 gal/A at 35 psi through 8001 flat fan nozzles to the center 6.7 ft of 8- by 25-ft plots on July 26 with 70 F, 88% RH, 30% clear sky, and 7 mph wind to physiologically-mature plants. Trial was harvested with a plot combine on August 6.

Plant loss of green or yellow color (% brown) was similar among treatments when visually evaluated 4 and 7 days after application of desiccants (Table). Seed yield was similar among desiccants. Test weight with Valor plus Roundup PowerMax was less compared to other treatments.

Table.					
		Field pea			
Herbicide		Plant desiccation		Yield	TW
Treatment ¹	Rate	30-Jul	2-Aug	bu/A	lb/bu
product/A		%			
Untreated check	x	97	99	66.9	64.1
Valor + MSO	2 oz + 32 fl oz	93	99	71.8	64.3
Valor + MSO + Roundup PowerMax	2 oz + 32 fl oz + 22 fl oz	92	99	67.9	63.1
Roundup PowerMax	22 fl oz	94	99	67.0	63.9
Gramoxone Max + NIS	20.8 fl oz + 0.25% v/v	100	100	68.3	64.3
Sharpen + MSO + AMS	2 fl oz + 2% v/v + 64 fl oz	95	99	74.4	64.1
C.V. (%)		4.7	1.1	11.8	0.7
LSD (0.05)		NS	NS	NS	0.8

¹NIS=Preference (Winfield Solutions); MSO=Destiny (Winfield Solutions); AMS=N-Pak (Agri-Solutions).