

Use of saflufencil with multiple adjuvants as a desiccant on dryland potatoes - Glyndon. Harlene Hatterman-Valenti and Collin Auwarter.

This study was conducted north of Glyndon, MN to compare desiccation with saflufencil (BAS 800) when applied with different adjuvants. Red Norland seed pieces (2 oz) were planted on 36 inch rows and 12 inch spacing on June 10, 2009. Plots were 4 rows by 30 feet arranged in a randomized complete block design with 3 replicates. The treatments were applied to the middle 2 of 4 rows using a CO2 backpack sprayer equipped with 8002 flat fan nozzles with an output of 20 gpa and a pressure of 40 psi on September 2.

Application Date:	9/2/09		
Air Temperature (F):	79	Wind (mph):	7
Rel. Humidity (%):	49	Soil Moisture:	Adequate
Cloud Cover (%):	50		

Treatments were applied when plants were beginning to senescence. At 3 DAA the treatment with saflufencil alone (1) was significantly slower desiccating than the other treatments showing only 5% leaf necrosis while the treatment with Reglone (12) showed 60%. Saflufencil + Class Act NG + InterLock (treatment 2) and the addition of Superb HC (treatment 5) had slower desiccation than replacing Superb HC with AG 08047 (treatment 10) at 3 DAA. At 9 DAA, the Reglone treatment had 95% leaf necrosis, but this was not significant against any of the other treatments except for treatment 1 where saflufencil was applied alone. By the end of the trial, all treatments had at least 98% leaf necrosis and at least 97% stem necrosis, except for the saflufencil alone treatment with only 88%.

Potato desiccation with saflufenil alone and tank mixed with adjuvants.

No.	Name	Rate	Rate Unit	-----9/5/09-----		-----9/11/09----		-----9/16/09----	
				-----3 DAA-----	-----9 DAA-----	-----9 DAA-----	-----14 DAA-----		
				Leaves	Stems	Leaves	Stems	Leaves	Stems
1	BAS 800	2	floz/a	5cd	0b	33b	10de	99a	88b
2	BAS 800	2	floz/a	18bc	8b	77a	23bcd	100a	98a
	Class Act NG	2.5	% v/v						
	InterLock	2	floz/a						
3	BAS 800	2	floz/a	23b	7b	82a	18cd	98a	98a
	NPAK AMS	2.5	% v/v						
	Liquid								
	AG 06011	6	floz/a						
4	BAS 800	2	floz/a	28b	15b	87a	33bc	100a	100a
	Class Act NG	2.5	% v/v						
	InterLock	2	floz/a						
	Destiny HC	1	pt/a						
5	BAS 800	2	pt/a	17bc	6b	75a	18cd	100a	97a
	Class Act NG	2.5	% v/v						
	InterLock	2	floz/a						
	Superb HC	1	pt/a						
6	BAS 800	2	floz/a	28b	13b	87a	27bcd	100a	98a
	NPAK AMS	2.5	% v/v						
	Liquid								
	Destiny (MSO)	1	% v/v						
7	BAS 800	2	floz/a	25b	13b	80a	33bc	100a	98a
	AG 07043	1	% v/v						
8	BAS 800	2	floz/a	33b	15b	87a	42b	100a	100a
	NPAK AMS	2.5	% v/v						
	Liquid								
	Prime Oil	1	% v/v						
9	BAS 800	2	floz/a	30b	12b	82a	28bcd	100a	100a
	Class Act NG	2.5	% v/v						
	AG 07010	1	pt/a						
10	BAS 800	2	floz/a	35b	15b	87a	35bc	100a	100a
	Class Act NG	2.5	% v/v						
	InterLock	2	floz/a						
	AG 08047	1	pt/a						
11	BAS 800	2	floz/a	32b	17b	87a	43b	100a	98a
	Class Act NG	2.5	% v/v						
	AG 08050	0.5	% v/v						
12	Reglone	2	pt/a	60a	37a	95a	65a	100a	100a
	AdWet	1	pt/100gal						
13	Untreated			0d	0b	0c	0e	0b	0c