

**Table 1. Evaluation of pre-plant incorporated, pre-emergence and post-emergence applied herbicides for weed control in soybean.**

Treatment <sup>a</sup>	Rate Product/A	Appl. time	Soybean injury				Gift Colq Cowh Pesw Vele				
			6/11	6/19	6/27	7/19	6/19	6/19	6/19	6/19	6/19
			----- (%) -----				----- (% weed control <sup>b</sup> ) -----				
Control	-	-	0	0	0	0	0	0	0	0	0
Prowl 3.3EC + (Pursuit 2SL + Ultra Blazer 2SL + COC + AMS)	3.6 pt + (4.0 oz + 0.75 pt + 1.0 % + 2.5 lb)	PPI + (POST1)	3	7	33	8	90	82	82	75	83
Prowl 3.3EC + (Raptor 1AS + Ultra Blazer 2SL + COC + AMS)	3.6 pt + (4.0 oz + 0.75 pt + 1.0 % + 2.5 lb)	PPI + (POST1)	5	10	32	17	90	85	83	85	80
Prowl 3.3EC + (Extreme 2.17SL + NIS + AMS)	3.0 pt + (1.5 qt + 0.125 % + 8.5 lb/100 gal)	PPI + (POST2)	5	8	0	7	90	90	82	68	77
Domain 60DF + (Roundup UltraMAX 5SL + AMS)	10.0 oz + (26.0 oz + 8.5 lb/100 gal)	PRE + (POST2)	0	0	0	0	80	98	95	98	96
Domain 60DF + (Fusion 2.66EC + Flexstar 1.88SL + COC)	16.0 oz + (0.5 pt + 0.1.25 pt + 2.0 qt)	PRE + (POST1)	0	0	30	10	85	99	99	99	98
FirstRate 84WG + Python 80WDG + (Glyphomax Plus 4SL + AMS)	0.5 oz + 0.5 oz + (1.5 pt + 2.5 lb)	PRE + (POST2)	0	0	0	2	77	99	55	99	98
FirstRate 84WG + Flexstar 1.88SL + Select 2EC + 28%N + NIS	0.3 oz + 0.75 pt + 6.0 oz + 2.5 % + 0.125 %	POST1	0	0	15	0	0	0	0	0	0
FirstRate 84WG + (Glyphomax Plus 4SL + AMS)	0.61 oz + (1.5 pt + 2.5 lb)	PRE + (POST2)	2	2	0	2	73	99	55	99	98
Pendimax 3.3EC + (FirstRate 84WG + Glyphomax Plus 4SL + NIS + AMS)	3.0 pt + (0.3 oz + 1.5 pt + 0.25 % + 2.5 lb)	PPI + (POST2)	0	5	3	2	88	99	80	70	60
FirstRate 84WG + Glyphomax Plus 4SL + NIS + AMS	0.3 oz + 1.5 pt + 0.25 % + 2.5 lb)	POST2	0	0	0	3	0	0	0	0	0
Authority 75WG + (Synchrony STS 42DG + Flexstar 1.88SL + Assure II 0.88EC + COC + 28%N)	0.25 lb + (0.23 oz + 0.5 pt + 7.0 oz + 1.0 % + 2.0 qt)	PRE + (POST1)	0	0	18	7	62	99	96	73	94
FirstRate 84WG + Authority 4F + (Roundup UltraMAX 5SL + AMS)	0.75 oz + 9.9 oz + (20.0 oz + 8.5 lb/100 gal)	PRE + (POST2)	0	0	0	0	73	99	98	99	99
Command 3ME + Authority 4F	2.0 pt + 12.0 oz	PRE	2	0	0	0	98	99	99	99	99
Roundup UltraMAX 5SL + AMS	26.0 oz + 8.5 lb/100 gal	POST2	2	0	0	0	0	0	0	0	0
Roundup UltraMAX 5SL + AMS + (Roundup UltraMAX 5SL + AMS)	20.0 oz + 8.5 lb/100 gal + (26.0 oz + 8.5 lb/100 gal)	POST1 + (POST3)	0	0	0	0	0	0	0	0	0
Touchdown 3SL + AMS	32.0 oz + 8.5 lb/100 gal	POST2	0	0	0	3	0	0	0	0	0
Valor 50WG + (Roundup UltraMAX 5SL + AMS)	2.0 oz + (26.0 oz + 8.5 lb/100 gal)	PRE + (POST3)	5	3	0	2	62	89	99	94	99
Valor 50WG + Sencor DF 75WG + (Roundup UltraMAX 5SL + AMS)	2.0 oz + 2.0 oz + (26.0 oz + 8.5 lb/100 gal)	PRE + (POST3)	2	3	0	2	58	98	94	93	89
Valor 50WG + Python 80WDG + (Roundup UltraMAX 5SL + AMS)	2.0 oz + 0.67 oz + (26.0 oz + 8.5 lb/100 gal)	PRE + (POST3)	5	3	0	3	85	99	99	99	99
<b>LSD (0.05)</b>			3	5	4	4	13	8	12	16	13

<sup>a</sup> COC = Herbimax, an oil-surfactant adjuvant and NIS = Activator 90, a non-ionic surfactant penetrant, both from Loveland Industries; 28% N = mixture of urea and ammonium nitrate.

<sup>b</sup> Percent weed control: Gift = giant foxtail, Colq = common lambsquarters, Cowh = common waterhemp, Pesw = Pennsylvania smartweed, Vele = velvetleaf.

**Table 2. Evaluation of pre-plant incorporated, pre-emergence and post-emergence applied herbicides for weed control in soybean.**

Treatment <sup>a</sup>	Rate Product/A	Appl. time	Gift	Colq	Cowh	Pesw	Vele	Gift	Colq	Cowh	Pesw	Vele	Yield 10/8 bu/A
			7/19	7/19	7/19	7/19	7/19	8/21	8/21	8/21	8/21	8/21	
			----- (% weed control <sup>b</sup> ) -----										
Control	-	-	0	0	0	0	0	0	0	0	0	0	30
Prowl 3.3EC + (Pursuit 2SL + Ultra Blazer 2SL + COC + AMS)	3.6 pt + (4.0 oz + 0.75 pt + 1.0 % + 2.5 lb)	PPI + (POST1)	92	96	98	98	99	92	96	95	98	99	39
Prowl 3.3EC + (Raptor 1AS + Ultra Blazer 2SL + COC + AMS)	3.6 pt + (4.0 oz + 0.75 pt + 1.0 % + 2.5 lb)	PPI + (POST1)	95	96	99	99	98	95	94	98	99	96	39
Prowl 3.3EC + (Extreme 2.17SL + NIS + AMS)	3.0 pt + (1.5 qt + 0.125 % + 8.5 lb/100 gal)	PPI + (POST2)	99	99	96	95	98	99	99	96	96	98	42
Domain 60DF + (Roundup UltraMAX 5SL + AMS)	10.0 oz + (26.0 oz + 8.5 lb/100 gal)	PRE + (POST2)	99	99	99	99	99	99	99	99	99	99	49
Domain 60DF + (Fusion 2.66EC + Flexstar 1.88SL + COC)	16.0 oz + (0.5 pt + 0.1.25 pt + 2.0 qt)	PRE + (POST1)	96	99	99	99	99	96	99	99	99	99	45
FirstRate 84WG + Python 80WDG + (Glyphomax Plus 4SL + AMS)	0.5 oz + 0.5 oz + (1.5 pt + 2.5 lb)	PRE + (POST2)	99	99	99	99	99	99	99	99	99	99	49
FirstRate 84WG + Flexstar 1.88SL + Select 2EC + 28% N + NIS	0.3 oz + 0.75 pt + 6.0 oz + 2.5 % + 0.125 %	POST1	96	85	92	96	93	96	85	92	93	95	42
FirstRate 84WG + (Glyphomax Plus 4SL + AMS)	0.61 oz + (1.5 pt + 2.5 lb)	PRE + (POST2)	99	99	99	99	99	99	99	99	99	99	44
Pendimax 3.3EC + (FirstRate 84WG + Glyphomax Plus 4SL + NIS + AMS)	3.0 pt + (0.3 oz + 1.5 pt + 0.25 % + 2.5 lb)	PPI + (POST2)	99	99	98	88	99	99	99	96	96	99	42
FirstRate 84WG + Glyphomax Plus 4SL + NIS + AMS	0.3 oz + 1.5 pt + 0.25 % + 2.5 lb)	POST2	99	99	92	96	99	99	99	96	98	99	47
Authority 75WG + (Synchrony STS 42DG + Flexstar 1.88SL + Assure II 0.88EC + COC + 28%N)	0.25 lb + (0.23 oz + 0.5 pt + 7.0 oz + 1.0 % + 2.0 qt)	PRE + (POST1)	99	99	99	99	99	99	99	99	98	99	48
FirstRate 84WG + Authority 4F + (Roundup UltraMAX 5SL + AMS)	0.75 oz + 9.9 oz + (20.0 oz + 8.5 lb/100 gal)	PRE + (POST2)	99	99	99	99	99	99	99	99	99	99	46
Command 3ME + Authority 4F Roundup UltraMAX 5SL + AMS	2.0 pt + 12.0 oz 26.0 oz + 8.5 lb/100 gal	PRE POST2	96	99	98	96	99	96	99	98	96	99	43
Roundup UltraMAX 5SL + AMS + (Roundup UltraMAX 5SL + AMS)	26.0 oz + 8.5 lb/100 gal + (26.0 oz + 8.5 lb/100 gal)	POST2 POST1 + (POST3)	99	99	98	99	99	99	99	98	99	99	46
Touchdown 3SL + AMS	20.0 oz + 8.5 lb/100 gal	POST1 + (POST3)	99	99	98	99	99	99	99	98	99	99	44
Valor 50WG + (Roundup UltraMAX 5SL + AMS)	32.0 oz + 8.5 lb/100 gal 2.0 oz + (26.0 oz + 8.5 lb/100 gal)	POST2 PRE + (POST3)	99	99	98	99	99	99	99	98	99	99	46
Valor 50WG + Sencor DF 75WG + (Roundup UltraMAX 5SL + AMS)	2.0 oz + 2.0 oz + (26.0 oz + 8.5 lb/100 gal)	PRE + (POST3)	99	99	99	99	99	99	99	99	99	99	46
Valor 50WG + Python 80WDG + (Roundup UltraMAX 5SL + AMS)	2.0 oz + 0.67 oz + (26.0 oz + 8.5 lb/100 gal)	PRE + (POST3)	99	99	99	99	99	99	99	99	99	99	48
<b>LSD (0.05)</b>			3	6	3	6	2	3	6	3	2	3	5

<sup>a</sup> COC = Herbimax, an oil-surfactant adjuvant and NIS = Activator 90, a non-ionic surfactant penetrant, both from Loveland Industries; 28% N = mixture of urea and ammonium nitrate.

<sup>b</sup> Percent weed control: Gift = giant foxtail, Colq = common lamb's-quarters, Cowh = common waterhemp, Pesw = Pennsylvania smartweed, Vele = velvetleaf.