

**Table 1. FirstRate, Authority, Command and Valor followed by Glyphomax Plus, Touchdown and Select for weed control in soybean.**

Treatment <sup>a</sup>	Rate	Appl time	Soybean injury				Gift 5/29	Colq 5/29	Pesw 5/29	Vele 5/29
			5/29	6/8	6/21	7/5				
	Product/Acre		----- (%) -----				----- (% weed control <sup>b</sup> ) -----			
Control	-	-	0	0	0	0	0	0	0	0
FirstRate 84WG + Python 80WDG + (Glyphomax Plus 4SL + AMS)	0.5 oz + 0.5 oz + (0.75 qt + 2.5 lb)	PRE +  (POST2)	0	0	0	0	62	99	99	99
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	23	10	7	0	0	0	0
Pendimax 3.3EC + (FirstRate 84WG + Glyphomax Plus 4SL + NIS + AMS)	1.5 qt + (0.3 oz + 0.75 qt + 0.25 % + 2.5 lb)	PRE + (POST2)	0	0	0	0	72	99	96	91
FirstRate 84WG + Glyphomax Plus 4SL + NIS + AMS	0.3 oz + 0.75 qt + 0.25% + 2.5 lb	POST2	0	0	0	0	0	0	0	0
FirstRate 84WG + Authority 4F + (Poast Plus 1EC + COC)	0.74 oz + 9.9 oz + (1.5 pt + 1.0%)	PRE + (POST1)	12	0	7	10	75	99	99	99
FirstRate 84WG + Authority 4F + Pendimax 3.3EC	0.74 oz + 9.9 oz + 1.25 qt	PRE	17	0	7	8	90	99	99	99
Command 3ME CS + Authority 4F	2.0 pt + 12.0 oz	PRE	22	0	7	12	98	99	99	99
Command 3ME CS + Authority 4F+ (Touchdown 3SL + AMS)	1.5 pt + 9.0 oz + (2.0 pt + 8.5 lb/100 gal)	PRE + (POST2)	15	0	7	7	92	99	99	99
Pursuit Plus 2.9EC	2.5 pt	PRE	2	0	0	2	88	99	99	99
Touchdown 3SL + AMS	2.0 pt + 8.5 lb/100 gal	POST2	0	0	0	0	0	0	0	0
Touchdown 3SL + AMS + (Touchdown 3SL + AMS)	2.0 pt + 8.5 lb/100 gal + (2.0 pt + 8.5 lb/100 gal)	POST1 + (POST3)	0	0	0	0	0	0	0	0
Valor 50WG + (Select 2EC + COC)	2.0 oz + (6.0 oz + 1.0 %)	PRE + (POST2)	12	0	0	0	85	96	99	99
Valor 50WG + Sencor DF 75WG + (Select 2EC + COC)	2.0 oz + 0.25 lb + (6.0 oz + 1.0 %)	PRE + (POST2)	10	3	0	0	82	99	99	99
Valor 50WG + Python 80WDG + (Select 2EC +COC)	2.0 oz + 0.67 oz + (6.0 oz + 1.0 %)	PRE + (POST2)	10	3	0	0	82	99	99	99
<b>LSD (0.05)</b>			5	4	4	3	12	2	2	4

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

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

**Table 2. FirstRate, Authority, Command and Valor followed by Glyphomax Plus, Touchdown and Select for weed control in soybean.**

Treatment <sup>a</sup>	Rate	Appl time	Gift	Colq	Cowh	Pesw	Vele	Gift	Colq	Cowh	Pesw	Vele
			6/21	6/21	6/21	6/21	6/21	7/5	7/5	7/5	7/5	7/5
	Product /Acre		----- (% weed control <sup>b</sup> ) -----									
Control	-	-	0	0	0	0	0	0	0	0	0	0
FirstRate 84WG + Python 80WDG + (Glyphomax Plus 4SL + AMS)	0.5 oz + 0.5 oz + (0.75 qt + 2.5 lb)	PRE +  (POST2)	55	99	99	99	99	99	99	99	99	99
FirstRate 84WG + Flexstar 1.88SL + Select 2EC + 28%N + NIS	0.3 oz + 0.75 pt + 6.0 oz + 2.5 % + 0.125 %	POST1	93	99	99	99	99	67	88	99	96	99
Pendimax 3.3EC + (FirstRate 84WG + Glyphomax Plus 4SL + NIS + AMS)	1.5 qt + (0.3 oz + 0.75 qt + 0.25 % + 2.5 lb)	PRE + (POST2)	70	99	99	96	93	99	99	99	99	99
FirstRate 84WG + Glyphomax Plus 4SL + NIS + AMS	0.3 oz + 0.75 qt + 0.25% + 2.5 lb	POST2	0	0	0	0	0	99	99	99	98	99
FirstRate 84WG + Authority 4F + (Poast Plus 1EC + COC)	0.74 oz + 9.9 oz + (1.5 pt + 1.0%)	PRE + (POST1)	96	99	99	99	99	73	99	99	99	96
FirstRate 84WG + Authority 4F + Pendimax 3.3EC	0.74 oz + 9.9 oz + 1.25 qt	PRE	87	99	99	99	99	73	99	99	99	99
Command 3ME CS + Authority 4F	2.0 pt + 12.0 oz	PRE	95	99	99	99	99	82	99	99	99	99
Command 3ME CS + Authority 4F+ (Touchdown 3SL + AMS)	1.5 pt + 9.0 oz + (2.0 pt + 8.5 lb/100 gal)	PRE + (POST2)	90	99	99	99	99	98	99	99	99	99
Pursuit Plus 2.9EC	2.5 pt	PRE	88	99	99	99	99	83	99	85	99	99
Touchdown 3SL + AMS	2.0 pt + 8.5 lb/100 gal	POST2	0	0	0	0	0	99	99	99	99	99
Touchdown 3SL + AMS + (Touchdown 3SL + AMS)	2.0 pt + 8.5 lb/100 gal + (2.0 pt + 8.5 lb/100 gal)	POST1 + (POST3)	96	99	99	99	99	72	93	96	96	98
Valor 50WG + (Select 2EC + COC)	2.0 oz + (6.0 oz + 1.0 %)	PRE + (POST2)	55	96	99	99	99	96	89	98	93	86
Valor 50WG + Sencor DF 75WG + (Select 2EC + COC)	2.0 oz + 0.25 lb + (6.0 oz + 1.0 %)	PRE + (POST2)	43	99	99	99	99	96	96	98	98	93
Valor 50WG + Python 80WDG + (Select 2EC +COC)	2.0 oz + 0.67 oz + (6.0 oz + 1.0 %)	PRE + (POST2)	37	99	99	99	99	95	98	99	99	96
<b>LSD (0.05)</b>			23	2	0	2	5	4	9	4	5	6

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

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

**Table 3. FirstRate, Authority, Command and Valor followed by Glyphomax Plus, Touchdown and Select for weed control in soybean.**

Treatment <sup>a</sup>	Rate	Appl time	Gift 8/9	Colq 8/9	Cowh 8/9	Pesw 8/9	Vele 8/9	Yield 10/19
	Product/Acre		----- (% weed control <sup>b</sup> ) -----					Bushel/Acre
Control	-	-	0	0	0	0	0	6
FirstRate 84WG + Python 80WDG + (Glyphomax Plus 4SL + AMS)	0.5 oz + 0.5 oz + (0.75 qt + 2.5 lb)	PRE +  (POST2)	93	99	99	99	99	44
FirstRate 84WG + Flexstar 1.88SL + Select 2EC + 28%N + NIS	0.3 oz + 0.75 pt + 6.0 oz + 2.5 % + 0.125 %	POST1	48	77	99	96	99	34
Pendimax 3.3EC + (FirstRate 84WG + Glyphomax Plus 4SL + NIS + AMS)	1.5 qt + (0.3 oz + 0.75 qt + 0.25 % + 2.5 lb)	PRE + (POST2)	98	99	99	99	99	49
FirstRate 84WG + Glyphomax Plus 4SL + NIS + AMS	0.3 oz + 0.75 qt + 0.25% + 2.5 lb	POST2	98	99	96	98	99	48
FirstRate 84WG + Authority 4F + (Poast Plus 1EC + COC)	0.74 oz + 9.9 oz + (1.5 pt + 1.0%)	PRE + (POST1)	58	99	99	99	96	36
FirstRate 84WG + Authority 4F + Pendimax 3.3EC	0.74 oz + 9.9 oz + 1.25 qt	PRE	50	99	99	98	99	35
Command 3ME CS + Authority 4F	2.0 pt + 12.0 oz	PRE	65	99	99	99	99	40
Command 3ME CS + Authority 4F+ (Touchdown 3SL + AMS)	1.5 pt + 9.0 oz + (2.0 pt + 8.5 lb/100 gal)	PRE + (POST2)	96	99	99	99	99	48
Pursuit Plus 2.9EC	2.5 pt	PRE	77	99	82	99	99	45
Touchdown 3SL + AMS	2.0 pt + 8.5 lb/100 gal	POST2	96	98	96	99	99	45
Touchdown 3SL + AMS + (Touchdown 3SL + AMS)	2.0 pt + 8.5 lb/100 gal + (2.0 pt + 8.5 lb/100 gal)	POST1 + (POST3)	99	99	99	99	99	52
Valor 50WG + (Select 2EC + COC)	2.0 oz + (6.0 oz + 1.0 %)	PRE + (POST2)	93	89	98	90	83	47
Valor 50WG + Sencor DF 75WG + (Select 2EC + COC)	2.0 oz + 0.25 lb + (6.0 oz + 1.0 %)	PRE + (POST2)	93	95	98	98	90	35
Valor 50WG + Python 80WDG + (Select 2EC +COC)	2.0 oz + 0.67 oz + (6.0 oz + 1.0 %)	PRE + (POST2)	93	96	99	99	95	47
<b>LSD (0.05)</b>			9	12	6	5	7	13

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

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