

Table 1. Evaluation of post-emergence applied herbicides for crop phytotoxicity and weed control in a glyphosate-resistant soybean.

Treatment	Rate Product/Acre	Appl time	Soybean injury					Gift	Colq	Corw	Cowh	Vele
			7/6	7/13	7/19	7/27	8/22	7/13	7/13	7/13	7/13	7/13
			----- (%) -----					----- (% weed control ^a) -----				
Control	-	-	0	0	0	0	0	0	0	0	0	0
Touchdown 3SL + AMS	1.0 pt + 8.5 lb/100 gal	POST1	0	5	2	2	2	99	98	99	98	99
Touchdown 3SL + AMS	2 pt + 8.5 lb/100 gal	POST1	0	5	3	2	0	99	99	99	99	99
Touchdown 3SL + AMS	4.0 pt + 8.5 lb/100 gal	POST1	0	5	3	3	2	99	99	99	99	99
Touchdown 3SL	2.0 pt	POST1	0	3	2	2	2	99	99	99	99	99
Touchdown 3SL	2.2 pt	POST1	0	5	2	3	2	99	99	99	99	98
Roundup UltraMAX 3.7SL + AMS	0.8 pt + 8.5 lb/100 gal	POST1	0	7	5	5	3	99	99	98	99	99
Roundup UltraMAX 3.7SL + AMS	1.6 pt + 8.5 lb/100 gal	POST1	0	5	2	2	2	99	99	99	99	98
Roundup UltraMAX 3.7SL + AMS	3.2 pt + 8.5 lb/100 gal	POST1	0	3	3	3	2	99	99	99	99	99
Touchdown 3SL + AMS	1.0 pt + 8.5 lb/100 gal	POST2	0	2	3	5	5	0	0	0	0	0
Touchdown 3SL	2.0 pt	POST2	0	3	5	8	8	0	0	0	0	0
Touchdown 3SL + AMS	2.0 pt + 4.25 lb/100 gal	POST2	0	7	8	10	12	0	0	0	0	0
Touchdown 3SL + AMS	2.0 pt + 8.5 lb/100 gal	POST2	0	3	5	8	8	0	0	0	0	0
Touchdown 3SL + AMS	2.0 pt + 12.75 lb/100 gal	POST2	0	3	5	8	10	0	0	0	0	0
Touchdown 3SL + AMS	2.0 pt + 17.0 lb/100 gal	POST2	0	3	5	7	7	0	0	0	0	0
Touchdown 3SL	2.2 pt	POST2	0	7	5	10	10	0	0	0	0	0
Touchdown 3SL + AMS	4.0 pt + 8.5 lb/100 gal	POST2	0	3	5	7	5	0	0	0	0	0
Roundup UltraMAX 3.7SL + AMS	0.8 pt + 8.5 lb/100 gal	POST2	0	2	2	2	0	0	0	0	0	0
Roundup UltraMAX 3.7SL + AMS	1.6 pt + 8.5 lb/100 gal	POST2	0	2	2	2	2	0	0	0	0	0
Roundup UltraMAX 3.7SL + AMS	3.2 pt + 8.5 lb/100 gal	POST2	0	0	3	3	5	0	0	0	0	0
LSD (0.05)			0	6	5	5	5	0	1	1	1	1

^a Percent weed control: Gift = giant foxtail, Colq = common lambsquarters, Corw = common ragweed, Cowh = common waterhemp, Vele = velvetleaf.

Table 2. Evaluation of post-emergence applied herbicides for crop phytotoxicity and weed control in a glyphosate-resistant soybean.

Treatment	Rate Product/Acre	Appl time	Gift	Colq	Corw	Cowh	Vele	Gift	Colq	Corw	Cowh	Vele
			7/19	7/19	7/19	7/19	7/19	7/27	7/27	7/27	7/27	7/27
			----- (% weed control ^a) -----									
Control	-	-	0	0	0	0	0	0	0	0	0	0
Touchdown 3SL + AMS	1.0 pt + 8.5 lb/100 gal	POST1	99	98	98	98	99	99	98	98	96	99
Touchdown 3SL + AMS	2 pt + 8.5 lb/100 gal	POST1	99	99	99	99	99	99	99	99	99	99
Touchdown 3SL + AMS	4.0 pt + 8.5 lb/100 gal	POST1	99	99	99	99	99	99	99	99	99	99
Touchdown 3SL	2.0 pt	POST1	99	99	99	99	99	99	99	99	99	98
Touchdown 3SL	2.2 pt	POST1	99	99	99	99	98	99	99	99	99	98
Roundup UltraMAX 3.7SL + AMS	0.8 pt + 8.5 lb/100 gal	POST1	99	99	98	99	99	99	99	98	99	99
Roundup UltraMAX 3.7SL + AMS	1.6 pt + 8.5 lb/100 gal	POST1	99	99	99	99	99	99	99	99	99	99
Roundup UltraMAX 3.7SL + AMS	3.2 pt + 8.5 lb/100 gal	POST1	99	99	99	99	99	99	99	99	99	99
Touchdown 3SL + AMS	1.0 pt + 8.5 lb/100 gal	POST2	99	98	91	95	92	99	92	88	90	92
Touchdown 3SL	2.0 pt	POST2	99	98	96	96	90	99	98	96	95	90
Touchdown 3SL + AMS	2.0 pt + 4.25 lb/100 gal	POST2	99	99	96	98	98	99	99	98	98	98
Touchdown 3SL + AMS	2.0 pt + 8.5 lb/100 gal	POST2	99	99	99	99	99	99	99	99	98	99
Touchdown 3SL + AMS	2.0 pt + 12.75 lb/100 gal	POST2	99	99	99	98	99	99	99	99	98	99
Touchdown 3SL + AMS	2.0 pt + 17.0 lb/100 gal	POST2	99	94	98	96	98	99	94	99	98	99
Touchdown 3SL	2.2 pt	POST2	99	99	99	98	92	99	99	99	96	92
Touchdown 3SL + AMS	4.0 pt + 8.5 lb/100 gal	POST2	99	99	99	99	98	99	99	99	99	98
Roundup UltraMAX 3.7SL + AMS	0.8 pt + 8.5 lb/100 gal	POST2	99	95	99	95	90	99	95	99	96	92
Roundup UltraMAX 3.7SL + AMS	1.6 pt + 8.5 lb/100 gal	POST2	99	99	98	96	99	99	99	98	98	99
Roundup UltraMAX 3.7SL + AMS	3.2 pt + 8.5 lb/100 gal	POST2	99	99	96	98	99	99	99	96	96	99
LSD (0.05)			0	3	6	2	3	0	4	8	3	4

^a Percent weed control: Gift = giant foxtail, Colq = common lambsquarters, Corw = common ragweed, Cowh = common waterhemp, Vele = velvetleaf.

Table 3. Evaluation of post-emergence applied herbicides for crop phytotoxicity and weed control in a glyphosate-resistant soybean.

Treatment	Rate Product/Acre	Appl time	Gift Colq Corw Cowh Vele					Soybean height	Soybean yield
			8/22	8/22	8/22	8/22	8/22	8/20 Inches	10/2 Bushels/Acre
			----- (% weed control ^a) -----						
Control	-	-	0	0	0	0	0	40	33
Touchdown 3SL + AMS	1.0 pt + 8.5 lb/100 gal	POST1	99	98	98	96	99	39	53
Touchdown 3SL + AMS	2 pt + 8.5 lb/100 gal	POST1	99	98	99	98	99	39	54
Touchdown 3SL + AMS	4.0 pt + 8.5 lb/100 gal	POST1	99	99	99	99	99	39	55
Touchdown 3SL	2.0 pt	POST1	99	99	99	99	99	40	56
Touchdown 3SL	2.2 pt	POST1	99	99	99	99	99	39	52
Roundup UltraMAX 3.7SL + AMS	0.8 pt + 8.5 lb/100 gal	POST1	98	99	98	99	99	38	53
Roundup UltraMAX 3.7SL + AMS	1.6 pt + 8.5 lb/100 gal	POST1	99	99	99	99	99	41	56
Roundup UltraMAX 3.7SL + AMS	3.2 pt + 8.5 lb/100 gal	POST1	99	99	99	99	99	40	56
Touchdown 3SL + AMS	1.0 pt + 8.5 lb/100 gal	POST2	99	92	88	92	92	37	50
Touchdown 3SL	2.0 pt	POST2	99	98	96	95	90	35	52
Touchdown 3SL + AMS	2.0 pt + 4.25 lb/100 gal	POST2	99	99	98	96	98	33	48
Touchdown 3SL + AMS	2.0 pt + 8.5 lb/100 gal	POST2	99	99	99	98	99	35	50
Touchdown 3SL + AMS	2.0 pt + 12.75 lb/100 gal	POST2	99	99	99	98	99	33	50
Touchdown 3SL + AMS	2.0 pt + 17.0 lb/100 gal	POST2	99	96	99	98	99	37	54
Touchdown 3SL	2.2 pt	POST2	99	99	99	96	92	35	47
Touchdown 3SL + AMS	4.0 pt + 8.5 lb/100 gal	POST2	99	99	99	99	98	34	52
Roundup UltraMAX 3.7SL + AMS	0.8 pt + 8.5 lb/100 gal	POST2	99	95	99	98	93	40	58
Roundup UltraMAX 3.7SL + AMS	1.6 pt + 8.5 lb/100 gal	POST2	99	99	98	98	99	39	56
Roundup UltraMAX 3.7SL + AMS	3.2 pt + 8.5 lb/100 gal	POST2	99	99	96	96	98	38	56
LSD (0.05)			1	3	8	3	4	5	7

^a Percent weed control: Gift = giant foxtail, Colq = common lambsquarters, Corw = common ragweed, Cowh = common waterhemp, Vele = velvetleaf.