

Table 1. Weed management strategies in soybean.

Treatment ^a	Rate Product/acre	Appln timing	Soybean injury		Setfa	Abuth	Amata 9-Jun	Cheal	Polpy
			31-May	9-Jun					
			----- (%) -----		----- (% weed control ^b) -----				
Untreated	-		0	0	0	0	0	0	0
Prowl H2O + (Pursuit + Ultra Blazer + MSO + AMS)	2.6 pt + (4.0 fl oz + 8.0 fl oz + 1.0 % v/v + 2.5 lb)	PPI + (EPOST)	0	0	90	55	92	87	43
Prowl H2O + (Roundup WeatherMAX + AMS)	2.6 pt + (22.0 fl oz + 2.0 % w/v)	PPI + (POST)	0	0	90	50	90	83	43
Prowl H2O + (Extreme + NIS + AMS)	2.6 pt + (3.0 pt + 0.125 % v/v + 2.0 % w/v)	PPI + (EPOST)	0	0	92	55	95	87	52
Define + (Phoenix + NIS)	14.0 fl oz + (12.5 fl oz + 0.25 % v/v)	PRE + (EPOST)	0	0	92	50	90	68	35
Domain + (Roundup WeatherMAX + AMS)	12.0 oz wt + (22.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	0	90	55	93	67	38
Python + (Glyphomax XRT + AMS)	0.5 oz wt + (24.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	0	55	68	78	87	45
Gangster V + Gangster FR + (Glyphomax XRT + AMS)	1.5 oz wt + 0.3 oz wt + (24.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	0	63	73	93	85	58
IntRRo + (Roundup Original MAX + AMS)	2.0 qt + (22.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	0	98	32	96	85	32
Roundup Original MAX + AMS + (Roundup Original MAX + AMS)	22.0 fl oz + 2.0 % w/v + (22.0 fl oz + 2.0 % w/v)	POST + (SPOST)	0	0	0	0	0	0	0
Boundary + (Flexstar + Fusion + COC + 28 % UAN)	1.8 pt + (1.25 pt + 10.0 fl oz + 1.0 % v/v + 2.0 qt)	PRE + (EPOST)	0	0	95	73	98	87	63
Boundary + (Touchdown Total + AMS)	1.5 pt + (24.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	0	87	43	95	75	42
Touchdown Total + AMS + (Touchdown Total + AMS)	24.0 fl oz + 2.0 % w/v + (24.0 fl oz + 2.0 % w/v)	POST + (SPOST)	0	0	0	0	0	0	0
Valor SX + (Roundup Original MAX + AMS)	2.0 oz wt + (22.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	0	70	53	92	72	43
LSD (P=0.05)			0	0	10	13	7	11	19

^aMSO=methylated seed oil plus surfactant from UAP - Loveland Industries; AMS=ammonium sulfate fertilizer from Agrilience, LLC; NIS=Activator 90 a non-ionic surfactant from UAP - Loveland Industries; COC=Herbimax crop oil concentrate from UAP - Loveland Industries; 28 % UAN=mixture of urea and ammonium sulfate from United Suppliers.

^b% weed control=Setfa=giant foxtail, Abuth=velvetleaf, Amata=common waterhemp, Cheal=common lamb's quarters, Polpy=Pennsylvania smartweed.

Table 2. Weed management strategies in soybean.

Treatment ^a	Rate Product/acre	Appln timing	Injury			Setfa	Abuth	Amata	Cheal	Polpy
			19-Jun	27-Jun	7-Jul	7-Jul				
			----- (%) -----			----- (% weed control ^b) -----				
Untreated	-		0	0	0	0	0	0	0	0
Prowl H2O + (Pursuit + Ultra Blazer + MSO + AMS)	2.6 pt + (4.0 fl oz + 8.0 fl oz + 1.0 % v/v + 2.5 lb)	PPI + (EPOST)	38	35	27	99	99	99	96	99
Prowl H2O + (Roundup WeatherMAX + AMS)	2.6 pt + (22.0 fl oz + 2.0 % w/v)	PPI + (POST)	0	2	0	99	98	99	98	88
Prowl H2O + (Extreme + NIS + AMS)	2.6 pt + (3.0 pt + 0.125 % v/v + 2.0 % w/v)	PPI + (EPOST)	50	47	42	99	99	98	98	98
Define + (Phoenix + NIS)	14.0 fl oz + (12.5 fl oz + 0.25 % v/v)	PRE + (EPOST)	37	30	23	92	95	99	62	53
Domain + (Roundup WeatherMAX + AMS)	12.0 oz wt + (22.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	2	0	99	99	99	99	92
Python + (Glyphomax XRT + AMS)	0.5 oz wt + (24.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	3	0	99	99	96	98	90
Gangster V + Gangster FR + (Glyphomax XRT + AMS)	1.5 oz wt + 0.3 oz wt + (24.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	2	0	99	99	99	99	92
IntRRo + (Roundup Original MAX + AMS)	2.0 qt + (22.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	3	0	99	99	99	98	90
Roundup Original MAX + AMS + (Roundup Original MAX + AMS)	22.0 fl oz + 2.0 % w/v + (22.0 fl oz + 2.0 % w/v)	POST + (SPOST)	0	2	0	99	99	95	96	90
Boundary + (Flexstar + Fusion + COC + 28 % UAN)	1.8 pt + (1.25 pt + 10.0 fl oz + 1.0 % v/v + 2.0 qt)	PRE + (EPOST)	30	22	10	99	88	99	96	99
Boundary + (Touchdown Total + AMS)	1.5 pt + (24.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	2	0	99	99	99	99	92
Touchdown Total + AMS + (Touchdown Total + AMS)	24.0 fl oz + 2.0 % w/v + (24.0 fl oz + 2.0 % w/v)	POST + (SPOST)	0	3	0	99	99	96	99	90
Valor SX + (Roundup Original MAX + AMS)	2.0 oz wt + (22.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	5	0	99	99	99	98	92
LSD (P=0.05)			2	4	3	1	3	3	3	5

^aMSO=methylated seed oil plus surfactant from UAP - Loveland Industries; AMS=ammonium sulfate fertilizer from Agrilience, LLC; NIS=Activator 90 a non-ionic surfactant from UAP - Loveland Industries; COC=Herbimax crop oil concentrate from UAP - Loveland Industries; 28 % UAN=mixture of urea and ammonium sulfate from United Suppliers.

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Table 3. Weed management strategies in soybean.

Treatment ^a	Rate Product/acre	Appln timing	Injury 28-Jul - (%) -	Setfa	Abuth	Amata	Cheal	Polpy	Yield 6-Oct (bu/acre)
				----- (% weed control ^b) -----					
Untreated	-		0	0	0	0	0	0	52
Prowl H2O + (Pursuit + Ultra Blazer + MSO + AMS)	2.6 pt + (4.0 fl oz + 8.0 fl oz + 1.0 % v/v + 2.5 lb)	PPI + (EPOST)	18	96	98	96	96	99	53
Prowl H2O + (Roundup WeatherMAX + AMS)	2.6 pt + (22.0 fl oz + 2.0 % w/v)	PPI + (POST)	0	96	98	98	96	93	66
Prowl H2O + (Extreme + NIS + AMS)	2.6 pt + (3.0 pt + 0.125 % v/v + 2.0 % w/v)	PPI + (EPOST)	30	95	99	95	98	98	55
Define + (Phoenix + NIS)	14.0 fl oz + (12.5 fl oz + 0.25 % v/v)	PRE + (EPOST)	10	92	93	98	48	50	52
Domain + (Roundup WeatherMAX + AMS)	12.0 oz wt + (22.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	96	99	98	96	95	62
Python + (Glyphomax XRT + AMS)	0.5 oz wt + (24.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	92	99	93	98	93	66
Gangster V + Gangster FR + (Glyphomax XRT + AMS)	1.5 oz wt + 0.3 oz wt + (24.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	96	99	99	99	96	66
IntRRo + (Roundup Original MAX + AMS)	2.0 qt + (22.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	92	99	98	93	92	66
Roundup Original MAX + AMS + (Roundup Original MAX + AMS)	22.0 fl oz + 2.0 % w/v + (22.0 fl oz + 2.0 % w/v)	POST + (SPOST)	0	99	99	99	99	99	64
Boundary + (Flexstar + Fusion + COC + 28 % UAN)	1.8 pt + (1.25 pt + 10.0 fl oz + 1.0 % v/v + 2.0 qt)	PRE + (EPOST)	2	98	87	99	95	99	64
Boundary + (Touchdown Total + AMS)	1.5 pt + (24.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	98	99	96	99	96	66
Touchdown Total + AMS + (Touchdown Total + AMS)	24.0 fl oz + 2.0 % w/v + (24.0 fl oz + 2.0 % w/v)	POST + (SPOST)	0	99	99	99	99	99	64
Valor SX + (Roundup Original MAX + AMS)	2.0 oz wt + (22.0 fl oz + 2.0 % w/v)	PRE + (POST)	0	95	99	99	96	95	64
LSD (P=0.05)			4	3	2	3	4	4	6

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