

Ohio State University Horticulture and Crop Science

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: STEME 8-12"

Stage Scale: >12 LVS

Density, Unit: 13 M2

Weed 2 Code, Stage: LAMPU 3-4"

Stage Scale: >12 LVS

Density, Unit: 25 M2

Weed 3 Code, Stage: CIRAR 6-8"

Stage Scale: >12 LVS

Density, Unit: 3 M2

Weed 4 Code, Stage: TAROF 8" DIA

Stage Scale: >12 LV2

Density, Unit: 0.25 M2

Weed 5 Code, Stage: RANAB 2-3"

Stage Scale: 8 LVS

Density, Unit: 2.66 M2

APPLICATION EQUIPMENT

A

Appl. Equipment: BACKPACK

Operating Pressure: 50

Nozzle Type: DG

Nozzle Size: 11002

Nozzle Spacing, Unit: 18 IN

Ground Speed, Unit: 3 MPH

Carrier: WATER

Spray Volume, Unit: 20 GPA

Propellant: CO2

Ohio State University Horticulture and Crop Science

FALL HERBICIDE PROGRAMS IN SOYBEAN RESIDUAL CONTROL II

Trial ID: 07FALLSOY2

Study Dir.: Anthony F. Dobbels

Location: WESTERN BRANCH ENT W-2

Investigator: Dr. Mark M. Loux

Weed Code	STEME	LAMPU	TAROF	RANAB	AMBTR
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May/03/2007	May/03/2007	May/03/2007	May/03/2007	May/03/2007
Trt-Eval Interval	AT PLANT	AT PLANT	AT PLANT	AT PLANT	AT PLANT
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Appl Code	1	2	3	4	5
1	UTC						0 c	0 b	0 c	0 b	0 d
2	AUTUMN	0.00188	lb ai/a	0.3	oz/a	A	77 a	73 a	57 abc	60 ab	30 a-d
	2 SENCOR DF	0.47	lb ai/a	10	oz/a						
	2 COC	1	% v/v	0.8	qt/a						
	2 28%	1.5	qt/a	1.5	qt/a						
3	AUTUMN	0.00188	lb ai/a	0.3	oz/a	A	10 bc	0 b	3 c	0 b	0 d
	3 2,4-D	0.5	lb ai/a	1	pt/a						
	3 COC	1	% v/v	0.8	qt/a						
	3 28%	1.5	qt/a	1.5	qt/a						
4	AUTUMN	0.00188	lb ai/a	0.3	oz/a	A	60 ab	43 ab	42 abc	70 ab	27 bcd
	4 ROUNDUP WEATHERMAX	0.5	lb ai/a	14.2	oz/a						
	4 AMS	5	% v/v	4	qt/a						
5	CANOPY EX 2.2						93 a	100 a	77 ab	100 a	78 abc
	5 CLASSIC	0.5	oz ai/a	2	oz/a	A					
	5 EXPRESS	0.15	oz ai/a	0.2	oz/a						
	5 2,4-D	0.5	lb ai/a	1	pt/a						
	5 COC	1	% v/v	0.8	qt/a						
6	CANOPY EX 1.1 OZ						65 ab	63 a	57 abc	100 a	30 a-d
	6 CLASSIC	0.25	oz ai/a	1	oz/a	A					
	6 EXPRESS	0.075	oz ai/a	0.1	oz/a						
	6 2,4-D	8	oz ai/a	1	pt/a						
	6 COC	1	% v/v	0.8	qt/a						
7	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	A	62 ab	60 a	50 abc	37 ab	20 cd
	7 2,4-D	0.5	lb ai/a	1	pt/a						
	7 AMS	5	% v/v	4	qt/a						
8	CLASSIC	0.0234	lb ai/a	1.5	oz/a	A	15 bc	67 a	62 ab	100 a	50 a-d
	8 REFLEX	0.25	lb ai/a	1	pt/a						
	8 COC	1	% v/v	0.8	qt/a						
9	CLASSIC	0.0234	lb ai/a	1.5	oz/a	A	50 abc	90 a	43 abc	100 a	0 d
	9 REFLEX	0.25	lb ai/a	1	pt/a						
	9 2,4-D	0.5	lb ai/a	1	pt/a						
	9 COC	1	% v/v	0.8	qt/a						
10	CLASSIC	0.0234	lb ai/a	1.5	oz/a	A	85 a	95 a	90 a	100 a	88 ab
	10 BANVEL	0.5	lb ai/a	1	pt/a						
	10 COC	1	% v/v	0.8	qt/a						
11	CLASSIC	0.0234	lb ai/a	1.5	oz/a	A	82 a	93 a	92 a	100 a	80 abc
	11 BANVEL	0.5	lb ai/a	1	pt/a						
	11 2,4-D	0.5	lb ai/a	1	pt/a						
	11 COC	1	% v/v	0.8	qt/a						
12	AIM	0.0156	lb ai/a	1	oz/a	A	40 abc	67 a	23 bc	50 ab	25 bcd
	12 SPARTAN	0.125	lb ai/a	4	oz/a						
	12 METRIBUZIN	0.1875	lb ai/a	4	oz/a						
	12 2,4-D	0.5	lb ai/a	1	pt						
	12 COC	1	% v/v	0.8	qt/a						

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Weed Code	STEME	LAMPU	TAROF	RANAB	AMBTR
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May/03/2007	May/03/2007	May/03/2007	May/03/2007	May/03/2007
Trt-Eval Interval	AT PLANT	AT PLANT	AT PLANT	AT PLANT	AT PLANT
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment	Rate	Rate Unit	Product Rate	Product Rate Unit	Appl Code	1	2	3	4	5
13 OSU-1	0.0756	lb ai/a	3 oz/a		A	97 a	98 a	85 a	100 a	60 a-d
13 ROUNDUP WEATHERMAX	0.77	lb ae/a	22 oz/a		A					
13 2,4-D	0.5	lb ai/a	1 pt/a							
13 AMS	5	% v/v	4 qt/a							
14 OSU-2	0.186	lb ai/a	5 oz/a		A	93 a	93 a	80 ab	53 ab	30 a-d
14 ROUNDUP WEATHERMAX	0.77	lb ae/a	22 oz/a		A					
14 2,4-D	0.5	lb ai/a	1 pt/a							
14 AMS	5	% v/v	4 qt/a							
15 CANOPY	0.164	lb ai/a	3.5 oz/a		A	52 abc	97 a	50 abc	100 a	85 ab
15 2,4-D	0.5	lb ai/a	1 pt/a							
15 COC	1	% v/v	0.8 qt/a							
16 CANOPY	0.234	lb ai/a	5 oz/a		A	87 a	95 a	87 a	100 a	93 a
16 2,4-D	0.5	lb ai/a	1 pt/a							
16 COC	1	% v/v	0.8 qt/a							
LSD (P=.05)						35.9	41.7	35.0	44.6	37.1
Standard Deviation						21.5	25.0	20.9	25.1	21.6
CV						35.61	35.29	37.21	34.3	49.68
Bartlett's X2						22.194	24.22	9.445	2.143	15.869
P(Bartlett's X2)						0.075	0.019*	0.802	0.543	0.07
Replicate F						0.724	0.160	0.983	1.546	1.408
Replicate Prob(F)						0.4931	0.8532	0.3870	0.2526	0.2717
Treatment F						6.204	5.051	5.816	6.263	7.003
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0014	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code	STEME	LAMPU	TAROF	RANAB	AMBTR
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May/17/2007	May/17/2007	May/17/2007	May/17/2007	May/17/2007
Trt-Eval Interval	15 DAPL	15 DAPL	15 DAPL	15 DAPL	15 DAPL
# Subsamples, Dec.	0	0	0	0	0

Trt Treatment	Rate	Rate Unit	Product Rate	Product Rate Unit	Appl Code	6	7	8	9	10
1 UTC						0 d	0 b	0 d	0 a	0 d
2 AUTUMN	0.00188	lb ai/a	0.3	oz/a	A	83 ab	87 a	42 a-d	77 a	15 cd
2 SENCOR DF	0.47	lb ai/a	10	oz/a						
2 COC	1	% v/v	0.8	qt/a						
2 28%	1.5	qt/a	1.5	qt/a						
3 AUTUMN	0.00188	lb ai/a	0.3	oz/a	A	13 cd	33 ab	3 d	0 a	0 d
3 2,4-D	0.5	lb ai/a	1	pt/a						
3 COC	1	% v/v	0.8	qt/a						
3 28%	1.5	qt/a	1.5	qt/a						
4 AUTUMN	0.00188	lb ai/a	0.3	oz/a	A	47 a-d	67 a	23 bcd	50 a	10 cd
4 ROUNDUP WEATHERMAX	0.5	lb ai/a	14.2	oz/a						
4 AMS	5	% v/v	4	qt/a						
5 CANOPY EX 2.2						93 ab	100 a	83 ab	100 a	85 a
5 CLASSIC	0.5	oz ai/a	2	oz/a	A					
5 EXPRESS	0.15	oz ai/a	0.2	oz/a						
5 2,4-D	0.5	lb ai/a	1	pt/a						
5 COC	1	% v/v	0.8	qt/a						
6 CANOPY EX 1.1 OZ						70 abc	100 a	65 abc	100 a	53 a-d
6 CLASSIC	0.25	oz ai/a	1	oz/a	A					
6 EXPRESS	0.075	oz ai/a	0.1	oz/a						
6 2,4-D	8	oz ai/a	1	pt/a						
6 COC	1	% v/v	0.8	qt/a						
7 ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	A	62 abc	77 a	40 a-d	57 a	20 bcd
7 2,4-D	0.5	lb ai/a	1	pt/a						
7 AMS	5	% v/v	4	qt/a						
8 CLASSIC	0.0234	lb ai/a	1.5	oz/a	A	40 a-d	100 a	37 a-d	100 a	60 abc
8 REFLEX	0.25	lb ai/a	1	pt/a						
8 COC	1	% v/v	0.8	qt/a						
9 CLASSIC	0.0234	lb ai/a	1.5	oz/a	A	58 a-d	100 a	67 abc	100 a	30 bcd
9 REFLEX	0.25	lb ai/a	1	pt/a						
9 2,4-D	0.5	lb ai/a	1	pt/a						
9 COC	1	% v/v	0.8	qt/a						
10 CLASSIC	0.0234	lb ai/a	1.5	oz/a	A	100 a	100 a	85 a	100 a	73 ab
10 BANVEL	0.5	lb ai/a	1	pt/a						
10 COC	1	% v/v	0.8	qt/a						
11 CLASSIC	0.0234	lb ai/a	1.5	oz/a	A	77 ab	100 a	75 ab	100 a	65 abc
11 BANVEL	0.5	lb ai/a	1	pt/a						
11 2,4-D	0.5	lb ai/a	1	pt/a						
11 COC	1	% v/v	0.8	qt/a						
12 AIM	0.0156	lb ai/a	1	oz/a	A	27 bcd	67 a	17 cd	50 a	0 d
12 SPARTAN	0.125	lb ai/a	4	oz/a						
12 METRIBUZIN	0.1875	lb ai/a	4	oz/a						
12 2,4-D	0.5	lb ai/a	1	pt						
12 COC	1	% v/v	0.8	qt/a						
13 OSU-1	0.0756	lb ai/a	3	oz/a	A	88 ab	100 a	70 abc	100 a	65 abc
13 ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	A					
13 2,4-D	0.5	lb ai/a	1	pt/a						
13 AMS	5	% v/v	4	qt/a						

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Weed Code	STEME	LAMPU	TAROF	RANAB	AMBTR
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May/17/2007	May/17/2007	May/17/2007	May/17/2007	May/17/2007
Trt-Eval Interval	15 DAPL	15 DAPL	15 DAPL	15 DAPL	15 DAPL
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Appl Code	6	7	8	9	10
14	OSU-2	0.186	lb ai/a	5	oz/a	A	92 ab	100 a	80 ab	55 a	25 bcd
14	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	A					
14	2,4-D	0.5	lb ai/a	1	pt/a						
14	AMS	5	% v/v	4	qt/a						
15	CANOPY	0.164	lb ai/a	3.5	oz/a	A	53 a-d	100 a	45 a-d	100 a	60 abc
15	2,4-D	0.5	lb ai/a	1	pt/a						
15	COC	1	% v/v	0.8	qt/a						
16	CANOPY	0.234	lb ai/a	5	oz/a	A	85 ab	100 a	83 ab	100 a	95 a
16	2,4-D	0.5	lb ai/a	1	pt/a						
16	COC	1	% v/v	0.8	qt/a						
LSD (P=.05)							38.6	45.8	34.6	59.6	32.9
Standard Deviation							23.2	27.4	20.7	34.6	19.1
CV							37.56	33.02	40.59	46.6	46.6
Bartlett's X2							13.068	1.852	12.786	0.967	5.064
P(Bartlett's X2)							0.443	0.763	0.543	0.915	0.887
Replicate F							0.814	1.153	0.003	0.133	2.915
Replicate Prob(F)							0.4525	0.3292	0.9975	0.8759	0.0816
Treatment F							5.031	3.408	5.946	3.148	8.425
Treatment Prob(F)							0.0001	0.0021	0.0001	0.0128	0.0001

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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code	STEME	LAMPU	TAROF	RANAB	AMBTR
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May/31/2007	May/31/2007	May/31/2007	May/31/2007	May/31/2007
Trt-Eval Interval	30 DAPL	30 DAPL	30 DAPL	30 DAPL	30 DAPL
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Appl Code	11	12	13	14	15
1	UTC						0 b	0 b	0 e	0 b	0 a
2	AUTUMN	0.00188	lb ai/a	0.3	oz/a	A	76 a	100 a	45 bcd	77 a	0 a
	2 SENCOR DF	0.47	lb ai/a	10	oz/a						
	2 COC	1	% v/v	0.8	qt/a						
	2 28%	1.5	qt/a	1.5	qt/a						
3	AUTUMN	0.00188	lb ai/a	0.3	oz/a	A	35 ab	100 a	3 e	50 ab	0 a
	3 2,4-D	0.5	lb ai/a	1	pt/a						
	3 COC	1	% v/v	0.8	qt/a						
	3 28%	1.5	qt/a	1.5	qt/a						
4	AUTUMN	0.00188	lb ai/a	0.3	oz/a	A	42 ab	100 a	20 cde	100 a	0 a
	4 ROUNDUP WEATHERMAX	0.5	lb ai/a	14.2	oz/a						
	4 AMS	5	% v/v	4	qt/a						
5	CANOPY EX 2.2						94 a	100 a	93 ab	100 a	50 a
	5 CLASSIC	0.5	oz ai/a	2	oz/a	A					
	5 EXPRESS	0.15	oz ai/a	0.2	oz/a						
	5 2,4-D	0.5	lb ai/a	1	pt/a						
	5 COC	1	% v/v	0.8	qt/a						
6	CANOPY EX 1.1 OZ						77 a	100 a	65 abc	100 a	20 a
	6 CLASSIC	0.25	oz ai/a	1	oz/a	A					
	6 EXPRESS	0.075	oz ai/a	0.1	oz/a						
	6 2,4-D	8	oz ai/a	1	pt/a						
	6 COC	1	% v/v	0.8	qt/a						
7	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	A	63 a	100 a	60 a-d	100 a	0 a
	7 2,4-D	0.5	lb ai/a	1	pt/a						
	7 AMS	5	% v/v	4	qt/a						
8	CLASSIC	0.0234	lb ai/a	1.5	oz/a	A	48 ab	100 a	50 a-d	100 a	40 a
	8 REFLEX	0.25	lb ai/a	1	pt/a						
	8 COC	1	% v/v	0.8	qt/a						
9	CLASSIC	0.0234	lb ai/a	1.5	oz/a	A	60 a	100 a	60 a-d	100 a	0 a
	9 REFLEX	0.25	lb ai/a	1	pt/a						
	9 2,4-D	0.5	lb ai/a	1	pt/a						
	9 COC	1	% v/v	0.8	qt/a						
10	CLASSIC	0.0234	lb ai/a	1.5	oz/a	A	95 a	100 a	85 ab	100 a	30 a
	10 BANVEL	0.5	lb ai/a	1	pt/a						
	10 COC	1	% v/v	0.8	qt/a						
11	CLASSIC	0.0234	lb ai/a	1.5	oz/a	A	82 a	100 a	99 a	100 a	15 a
	11 BANVEL	0.5	lb ai/a	1	pt/a						
	11 2,4-D	0.5	lb ai/a	1	pt/a						
	11 COC	1	% v/v	0.8	qt/a						
12	AIM	0.0156	lb ai/a	1	oz/a	A	37 ab	67 a	17 de	50 ab	0 a
	12 SPARTAN	0.125	lb ai/a	4	oz/a						
	12 METRIBUZIN	0.1875	lb ai/a	4	oz/a						
	12 2,4-D	0.5	lb ai/a	1	pt						
	12 COC	1	% v/v	0.8	qt/a						
13	OSU-1	0.0756	lb ai/a	3	oz/a	A	83 a	100 a	73 ab	100 a	30 a
	13 ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	A					
	13 2,4-D	0.5	lb ai/a	1	pt/a						
	13 AMS	5	% v/v	4	qt/a						

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Weed Code	STEME	LAMPU	TAROF	RANAB	AMBTR
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May/31/2007	May/31/2007	May/31/2007	May/31/2007	May/31/2007
Trt-Eval Interval	30 DAPL	30 DAPL	30 DAPL	30 DAPL	30 DAPL
# Subsamples, Dec.	0	0	0	0	0

Trt	Treatment	Rate	Rate Unit	Product Rate	Product Unit	Appl Code	11	12	13	14	15
14	OSU-2	0.186	lb ai/a	5	oz/a	A	82 a	100 a	60 a-d	77 a	0 a
14	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	A					
14	2,4-D	0.5	lb ai/a	1	pt/a						
14	AMS	5	% v/v	4	qt/a						
15	CANOPY	0.164	lb ai/a	3.5	oz/a	A	73 a	100 a	58 a-d	100 a	70 a
15	2,4-D	0.5	lb ai/a	1	pt/a						
15	COC	1	% v/v	0.8	qt/a						
16	CANOPY	0.234	lb ai/a	5	oz/a	A	85 a	100 a	76 ab	100 a	80 a
16	2,4-D	0.5	lb ai/a	1	pt/a						
16	COC	1	% v/v	0.8	qt/a						
LSD (P=.05)							36.6	24.1	29.1	47.1	43.0
Standard Deviation							22.0	14.4	17.4	27.4	25.0
CV							34.04	15.75	32.14	32.34	119.28
Bartlett's X2							23.221	0.0	6.57	0.85	3.377
P(Bartlett's X2)							0.057	.	0.923	0.837	0.642
Replicate F							0.254	1.000	0.778	2.551	1.000
Replicate Prob(F)							0.7776	0.3798	0.4694	0.1074	0.3887
Treatment F							4.211	9.600	9.107	3.285	3.467
Treatment Prob(F)							0.0004	0.0001	0.0001	0.0104	0.0080

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
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