

Ohio State University
Horticulture and Crop Science

EARLY AND LATE FALL BURNDOWN TIMING STUDY

USA-09-001

Trial ID: 09FALLSOY1 Study Dir.: Anthony F. Dobbels

Location: WESTERN BRANCH F-10 W Investigator: Dr. Mark M. Loux

GENERAL TRIAL INFORMATION

Study Director: Anthony F. Dobbels

Investigator: Dr. Mark M. Loux

TRIAL LOCATION

City: South Charleston

State/Prov.: Ohio

Postal Code: 45368

Country: USA

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1. LAMPU Pu	rple deadnettel	Lamium purpureum
2. STEME Co	mmon chickweed	Stellaria media
3. SENGL Cr	essleaf groundsel	Senecio glabellus

SITE AND DESIGN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 30 FT **Reps:** 3

Site Type: FIELD

Tillage Type: NO-TILL

Study Design: RACOBL

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	Oct-13-2008	Nov-23-2008		
Time of Day:	11:30 A.M	11:15 A.M		
Application Method:	SPRAY	SPRAY		
Application Timing:	EARLY FAL	LATE FALL		
Applic. Placement:	BROADCAST	BROADCAST		
Air Temp., Unit:	72 F	33 F		
% Relative Humidity:	47	59		
Wind Velocity, Unit:	5 SW	6 SSW		
Soil Temp., Unit:	59 F	33 F		
Soil Moisture:	ADEQUATE	ADEQUATE		
% Cloud Cover:	15	2		

WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	LAMPU 1/2"	LAMPU 1/2"	LAMPU	LAMPU
Stage Scale:	4 LVS	8 LVS		
Weed 2 Code, Stage:	STEME	STEME 4-6" DIA	STEME	STEME
Stage Scale:		>12 LVS		
Weed 3 Code, Stage:	SENGL	SENGL 4" DIA	SENGL	SENGL
Stage Scale:		>12 LVS		

APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	BACKPACK	BACKPACK		
Operating Pressure:	53	53		
Nozzle Type:	DG	DG		
Nozzle Size:	11002	11002		
Nozzle Spacing, Unit:	18 IN	18 IN		
Ground Speed, Unit:	3 MPH	3 MPH		
Carrier:	WATER	WATER		
Spray Volume, Unit:	20 GPA	20 GPA		
Propellant:	CO2	CO2		

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Reps: 3

Plots: 10 by 30 feet

Spray vol: 20 gal/ac

Mix size: 0.5 gallons (min .41322)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product Measure	Plot No. Rep. 1	2	3
1	CLASSIC	25	DF	0.25	oz ai/a	1	oz/a	E FALL	A	0.7087	g/mx	101	205	301
	EXPRESS	75	WG	0.075	oz ai/a	0.1	oz/a	E FALL		.07087	g/mx			
	COC	100	L	1	% v/v	0.8	qt/a	E FALL		18.93	ml/mx			
	2,4-D	4	L	8	oz ai/a	1	pt/a	E FALL		11.83	ml/mx			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	oz/a	POST	D	16.19	ml/mx			
	AMS	100	L	5	% v/v	4	qt/a	POST		94.63	ml/mx			
2	CLASSIC	25	DF	0.5	oz ai/a	2	oz/a	E FALL	A	1.417	g/mx	102	204	303
	EXPRESS	75	WG	0.15	oz ai/a	0.2	oz/a	E FALL		0.1417	g/mx			
	COC	100	L	1	% v/v	0.8	qt/a	E FALL		18.93	ml/mx			
	2,4-D	4	L	8	oz ai/a	1	pt/a	E FALL		11.83	ml/mx			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	oz/a	POST	D	16.19	ml/mx			
	AMS	100	L	5	% v/v	4	qt/a	POST		94.63	ml/mx			
3	ENVIVE 3.5 OZ											103	212	304
	CLASSIC	25	DF	0.32	oz ai/a	1.28	oz/a	E FALL	A	0.9072	g/mx			
	HARMONY GT	50	SG	0.104	oz ai/a	0.208	oz/a	E FALL		0.1474	g/mx			
	VALOR SX	51	WG	1	oz ai/a	1.96	oz/a	E FALL		1.39	g/mx			
	COC	100	L	1	% v/v	0.8	qt/a	E FALL		18.93	ml/mx			
	2,4-D	4	L	8	oz ai/a	1	pt/a	E FALL		11.83	ml/mx			
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	oz/a	E FALL	A	16.19	ml/mx	104	210	305
	2,4-D	4	L	8	oz ai/a	1	pt/a	E FALL		11.83	ml/mx			
	AMS	100	L	5	% v/v	4	qt/a	E FALL		94.63	ml/mx			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	oz/a	POST	D	16.19	ml/mx			
	AMS	100	L	5	% v/v	4	qt/a	POST		94.63	ml/mx			
	5	CLASSIC	25	DF	0.25	oz ai/a	1	oz/a	L FALL	B	0.7087	g/mx	105	207
EXPRESS		75	WG	0.075	oz ai/a	0.1	oz/a	L FALL		.07087	g/mx			
COC		100	L	1	% v/v	0.8	qt/a	L FALL		18.93	ml/mx			
2,4-D		4	L	4	oz ai/a	0.5	pt/a	L FALL		5.914	ml/mx			
ROUNDUP POWERMAX		4.5	SL	0.77	lb ae/a	22	oz/a	POST	D	16.19	ml/mx			
AMS		100	L	5	% v/v	4	qt/a	POST		94.63	ml/mx			
6	CLASSIC	25	DF	0.5	oz ai/a	2	oz/a	L FALL	B	1.417	g/mx	106	211	308
	EXPRESS	75	WG	0.15	oz ai/a	0.2	oz/a	L FALL		0.1417	g/mx			
	COC	100	L	1	% v/v	0.8	qt/a	L FALL		18.93	ml/mx			
	2,4-D	4	L	8	oz ai/a	1	pt/a	L FALL		11.83	ml/mx			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	oz/a	POST		16.19	ml/mx			
	AMS	100	L	5	% v/v	4	qt/a	POST		94.63	ml/mx			
7	ENVIVE 3.5 OZ											107	206	310
	CLASSIC	25	DF	0.32	oz ai/a	1.28	oz/a	L FALL	B	0.9072	g/mx			
	HARMONY GT	50	SG	0.104	oz ai/a	0.208	oz/a	L FALL		0.1474	g/mx			
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	COC	100	L	1	% v/v	0.8	qt/a	L FALL		18.93	ml/mx			
	2,4-D	4	L	8	oz ai/a	1	pt/a	L FALL		11.83	ml/mx			
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	oz/a	L FALL	B	16.19	ml/mx	108	203	302
	2,4-D	4	L	8	oz ai/a	1	pt/a	L FALL		11.83	ml/mx			
	AMS	100	L	5	% v/v	4	qt/a	L FALL		94.63	ml/mx			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	oz/a	POST	D	16.19	ml/mx			
	AMS	100	L	5	% v/v	4	qt/a	POST		94.63	ml/mx			
	9	CLASSIC	25	DF	0.25	oz ai/a	1	oz/a	L FALL	B	0.7087	g/mx	109	201
EXPRESS		75	WG	0.075	oz ai/a	0.1	oz/a	L FALL		.07087	g/mx			

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	2,4-D	4	L	4 oz ai/a	0.5	pt/a	L FALL		5.914	ml/mx				
	CLASSIC	25	DF	0.25 oz ai/a	1	oz/a	15 EPP	C	0.7087	g/mx				
	EXPRESS	75	WG	0.075 oz ai/a	0.1	oz/a	15 EPP		.07087	g/mx				
	COC	100	L	1 % v/v	0.8	qt/a	15 EPP		18.93	ml/mx				
	2,4-D	4	L	4 oz ai/a	0.5	pt/a	15 EPP		5.914	ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	oz/a	POST	D	16.19	ml/mx				
	AMS	100	L	5 % v/v	4	qt/a	POST		94.63	ml/mx				
10	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	oz/a	L FALL	B	16.19	ml/mx	110	209	311	
	2,4-D	4	L	8 oz ai/a	1	pt/a	L FALL		11.83	ml/mx				
	AMS	100	L	5 % v/v	4	qt/a	L FALL		94.63	ml/mx				
	CLASSIC	25	DF	0.5 oz ai/a	2	oz/a	15 EPP	C	1.417	g/mx				
	EXPRESS	75	WG	0.15 oz ai/a	0.2	oz/a	15 EPP		0.1417	g/mx				
	COC	100	L	1 % v/v	0.8	qt/a	15 EPP		18.93	ml/mx				
	2,4-D	4	L	8 oz ai/a	1	pt/a	15 EPP		11.83	ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	oz/a	POST	D	16.19	ml/mx				
	AMS	100	L	5 % v/v	4	qt/a	POST		94.63	ml/mx				
11	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	oz/a	15 EPP	C	16.19	ml/mx	111	208	307	
	2,4-D	4	L	8 oz ai/a	1	pt/a	15 EPP		11.83	ml/mx				
	AMS	100	L	5 % v/v	4	qt/a	15 EPP		94.63	ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	oz/a	POST	D	16.19	ml/mx				
	AMS	100	L	5 % v/v	4	qt/a	POST		94.63	ml/mx				
12	UTC										112	202	309	

Sort Order: Replicate 1