

Creeping Speedwell is a problem weed in most turf landscapes. Most single applications of broadleaf herbicides will not control this species. This study examined the efficacy of postemergence applications of sulfentrazone and carfentrazone on creeping speedwell. Table 7 includes a complete list of the treatments used in this study. Treatments were applied on July 2, 1997 to a Kentucky bluegrass lawn. Percent control data are shown in Table 8. The data indicated that combinations of Trimec with Drive (quinclorac) or Dimension (dithiopyr) were more effective than the experimental herbicides in controlling speedwell. Turfgrass phytotoxicity was not evaluated in this study as the plots contained 60-100% speedwell. However, the initial injury sustained by the speedwell was observed and is shown in Table 9.

**Table 1. 1997 general preemergence trial.**

<u>TREATMENT</u>	<u>FORMULATION</u>	<u>RATE</u> Lbs ai/A	<u>COLOR</u>	<u>CRABGRASS COVER (%)</u>		
			5/6/97	7/1/97	8/4/97	9/4/97
Barricade	65 WG	0.48	3	—	0	0
Barricade	65 WG	0.65	3	—	0	0
Barricade	65 WG	0.25+0.25*	3	—	0	0
Barricade	65 WG	0.33+0.17*	3	—	0	0
Barricade	65 WG	0.42+0.23*	4	—	0	0
Dimension	1 EC	0.25	3	—	0	0
Dimension	1 EC	0.38	4	—	0	0
Dimension	1 EC	0.25+0.125*	3	—	0	0
AD444	0.072 G	0.125	6	—	1	1
AD445	0.164 G	0.25	5	—	0	0
AD442	0.035 G	0.06+0.06*	6	—	0	0
AD444	0.072 G	0.125+0.125*	5	—	1	0
Fertilizer Blank	G	—	5	—	8	5
Team	2 G	2.0	3	—	1	1
Dimension	0.11 G	0.25	2	—	1	0
Pendulum	60 WDG	2.0	2	—	0	0
Ronstar	2 G	3.0	3	—	1	1
Team Pro	0.86 G	2.0	9	—	1	0
TeamPro	0.86 G	1.5+1.5*	6	—	0	0
Control			3	—	10	13
Control			2	—	10	14
Control			3	—	11	16
LSD <sub>(0.05)</sub>			2		6	3

\*Split applications were made 8 weeks after the initial treatment.

Plots were 4x6 feet in three replications, located at Evergreen Cemetery in Lansing, MI. Sprayable formulations were applied in 59.3 gal water A<sup>-1</sup>.

**Table 2. Non-selective herbicide treatments.**

<u>#</u>	<u>TREATMENT</u>	<u>FORMULATION</u>	<u>RATE</u>
1	Roundup	4 EC	2.7 oz/gal
2	Roundup + 2% AMS	4 EC	2.7 oz/gal
3	Roundup Pro	4 EC	2.7 oz/gal
4	Roundup Pro + 2% AMS	4 EC	2.7 oz/gal
5	Finale	1 SC	4 oz/gal
6	Finale + 2% AMS	1 SC	4 oz/gal
7	Control		
8	Control + 2% AMS		

**Table 6. Primo G for growth suppression of creeping bentgrass on fairways.**

<u>TREATMENT</u>	<u>FORMULATION</u>	<u>CLIPPING YIELD (g)</u>		
		1 WAT	3 WAT	5 WAT
Control		25.0 A	10.5 AB	11.4 BC
Fert Check		22.3 A	11.1 A	10.8 BC
Primo	1 EC	14.9 A	4.4 D	12.0 BC
ANDPR97-55	G	20.8 A	6.1 CD	7.4 C
ANDPR97-56	G	17.1 A	4.9 CD	6.9 C
ANDPR97-63 on Fert	G	19.1 A	6.7 CD	12.6 BC
ANDPR97-64 on Fert	G	20.3 A	8.2 ABC	14.4 AB
ANDPR97-75	G	20.6 A	7.6 BCD	10.1 BC
ANDPR97-76 on Fert	G	20.1 A	7.5 BCD	19.9 A

Clipping yield measured in g/m<sup>2</sup>.

Treatment means in the same column followed by the same letter are not significantly different. Means were separated using Fisher's Protected LSD<sub>(0.05)</sub>.

**Table 7. Postemergence control of creeping speedwell (*Veronica filiformis*): treatments.**

#	<u>TREATMENT</u>	<u>FORMULATION</u>	<u>RATE</u>
			Lbs ai/A
1	NB-20515	LIQ	0.255/0.255/0.015
2	NB-20515	LIQ	0.51/0.51/0.03
3	NB-20518	LIQ	0.407/0.05/0.009
4	NB-20518	LIQ	0.814/0.1/0.018
5	NB-20647	LIQ	0.256/0.05/0.009
6	NB-20647	LIQ	0.512/0.1/0.018
7	Trimec Classic	LIQ	0.75/0.405/0.079
8	Trimec Classic	LIQ	1.0/0.54/0.105
9	Trimec Classic + Dimension	LIQ	1.0/0.54/0.105+ 0.5
10	Trimec Classic + Drive	LIQ	1.0/0.54/0.105+ 0.75
11	Control		

**Table 8. Postemergence control of creeping speedwell (*Veronica filiformis*): weed control.**

#	<u>TREATMENT</u>	<u>CONTROL (%)</u>		
		14 DAT	28 DAT	42 DAT
1	NB-20515	41	64	63
2	NB-20515	67	85	85
3	NB-20518	77	70	66
4	NB-20518	55	58	54
5	NB-20647	31	37	45
6	NB-20647	60	58	56
7	Trimec Classic	41	72	61
8	Trimec Classic	79	84	88
9	Trimec Classic + Dimension	58	98	97
10	Trimec Classic + Drive	87	100	100
11	Control	0	0	0
	LSD <sub>(0.05)</sub>	43	36	39

**Table 9: Postemergence control of creeping speedwell (*Veronica filiformis*): initial weed injury.**

#	TREATMENT	INJURY <sup>1</sup>		
		<u>3 DAT</u>	<u>7 DAT</u>	<u>14 DAT</u>
1	NB-20515	3.0	3.1	3.2
2	NB-20515	3.0	3.6	4.3
3	NB-20518	3.3	3.8	3.0
4	NB-20518	4.6	5.0	3.0
5	NB-20647	3.3	4.0	2.7
6	NB-20647	3.3	4.0	2.7
7	Trimec Classic	1.3	1.6	2.3
8	Trimec Classic	1.3	2.6	3.0
9	Trimec Classic + Dimension	2.3	2.6	4.0
10	Trimec Classic + Drive	2.6	3.3	4.3
11	Control	1.0	1.0	1.0
	LSD <sub>(0.05)</sub>	2.6	2.3	1.5

<sup>1</sup> Injury ratings taken on a 1-9 scale where 1=none and 9=dead.