

## Stop #6: Postemergence Control of Crabgrass and Broadleaf Weeds in Bermudagrass

Alea Miehl and Jim Baird

<b>Species:</b>	'Princess 77' Bermudagrass
<b>Spray Information:</b>	CO <sub>2</sub> -powered bicycle sprayer TeeJet 8003VS nozzles; 19-inch spacing 1 gal/M
<b>Design:</b>	Randomized complete block; 3 replications
<b>Plot size:</b>	7 ft x 10 ft; 4-ft alleys
<b>Application Dates:</b>	13 June 2013 (initial application) 11 July 2013 (28 DAIT)
<b>Crabgrass seed date:</b>	26 April 2013
<b>Weekly Ratings:</b>	Turfgrass Quality (1 to 9 scale, 9 = best), Density (0-100%), and Color (1 to 9 scale, 9 = best), Turfgrass Injury (0-100%) Crabgrass and broadleaf weed cover (0-100%)

### Results:

- ✓ The majority of herbicide treatments provided effective control of crabgrass and other broadleaf weeds throughout the study period.
- ✓ The treatment combination of Tenacity (5 oz/A) + Xonerate (2 oz/A) + NIS (0.25% v/v) provided the best control of crabgrass, with no weed cover present 14 DAIT.
- ✓ Severe phytotoxicity (bleaching) was observed following treatment applications of Impact (1 oz/A) + Dicamba (8 oz/A) + MSO (0.5 %v/v), and Pylex (1 oz/A) + OneTime (64 oz/A) + MSO (0.5% v/v). However, the turf fully recovered within two weeks after application.

### Notes:

**2013 UCR Postemergence Broadleaf/Crabgrass Control in Bermudagrass  
Riverside, CA**

No.	Treatment	Company	Rate	Timing (d)
1	Control			
2	Dimension 2EW Dicamba NIS	Dow AgroSciences	32 oz/A 8 oz/A 0.25% v/v	0,28 0,28 0,28
3	MSMA Dicamba	Gordon's ProForm	87 oz/A 8 oz/A	0,28 0,28
4	Tenacity NIS	Syngenta	5 oz/A 0.25% v/v	0,28 0,28
5	Tenacity Dicamba NIS	Syngenta	5 oz/A 8 oz/A 0.25% v/v	0,28 0,28 0,28
6	Tenacity Xonerate NIS	Syngenta Arysta LifeScience	5 oz/A 1 oz/A 0.25% v/v	0,28 0,28 0,28
7	Tenacity Xonerate NIS	Syngenta Arysta LifeScience	5 oz/A 2 oz/A 0.25% v/v	0,28 0,28 0,28
8	Impact MSO	AMVAC	1 oz/A 0.5% v/v	0,28 0,28
9	Impact Dicamba MSO	AMVAC BASF	1 oz/A 8 oz/A 0.5% v/v	0,28 0,28 0,28
10	Tenacity Monument	Syngenta Syngenta	5 oz/A 10g/A	0,28 0,28
11	OneTime MSO	BASF	64 oz/A 0.5% v/v	0,28 0,28
12	Q4 NIS	Gordon's ProForm	128 oz/A 0.25% v/v	0,28 0,28
13	Solitare NIS	FMC	16 oz/A 0.25% v/v	0,28 0,28
14	Solitare NIS	FMC	21.3 oz/A 0.25% v/v	0,28 0,28
15	Drive XLR8 MSO	BASF	64 oz/A 0.5% v/v	0,28 0,28
16	Pylex OneTime MSO	BASF BASF	1 oz/A 64 oz/A 0.5% v/v	0,28 0,28 0,28

**2013 UCR Postemergence Broadleaf/Crabgrass Control in Bermudagrass**

North

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
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<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
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<b>13</b>	<b>6</b>	<b>7</b>	<b>9</b>	<b>12</b>	<b>16</b>	<b>10</b>	<b>1</b>
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<b>3</b>	<b>2</b>	<b>4</b>	<b>15</b>	<b>8</b>	<b>14</b>	<b>5</b>	<b>11</b>
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<b>14</b>	<b>9</b>	<b>1</b>	<b>16</b>	<b>6</b>	<b>4</b>	<b>3</b>	<b>12</b>
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<b>8</b>	<b>5</b>	<b>2</b>	<b>7</b>	<b>15</b>	<b>10</b>	<b>11</b>	<b>13</b>
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## Postemergence Control of Crabgrass in Tall Fescue

Alea Miehl and Jim Baird

- Spray Information:** CO<sub>2</sub>-powered bicycle sprayer  
TeeJet 8003VS nozzles; 19-inch spacing  
1 gal/M
- Design:** Randomized complete block; 3 replications
- Plot size:** 7 ft x 7 ft, 3-ft alleys
- Application Dates:** 13 June 2013 (initial application)  
3 July 2013 (21 DAIT) + Initial application of SquareOne treatments (14-16)  
11 July 2013 (28 DAIT)  
25 July 2013 (21 DAIT - treatment 15 only)
- Crabgrass seed date:** 26 April 2013
- Weekly Ratings:** Turfgrass Quality (1 to 9 scale, 9 = best), Density (0-100%), and Color (1 to 9 scale, 9 = best), Turfgrass Injury (0-100%), Crabgrass and broadleaf weed cover (0-100%)

### Results:

- ✓ All treatments of Pylex + MSO at different rates and application timings provided the best crabgrass control following initial application and throughout the study period.
- ✓ Phytotoxicity was not observed for any herbicide treatments, except for Tenacity and Xonerate combinations; causing moderate discoloration and thinning of tall fescue for 14 DAIT.

### Notes:

**2013 UCR Postemergence Crabgrass Control in Tall Fescue**  
Riverside, CA

No.	Treatment	Company	Rate	Timing (d)
1	Control	-	-	-
2	Dimension 2EW NIS	Dow AgroSciences	32 oz/A 0.25% v/v	0,28 0,28
3	Tenacity NIS	Syngenta	5 oz/A 0.25% v/v	0,28 0,28
4	Tenacity Turflon Ester NIS	Syngenta Dow AgroSciences	5oz/A 16 oz/A 0.25% v/v	0,28 0,28 0,28
5	Tenacity Xonerate NIS	Syngenta Arysta LifeScience	5 oz/A 1 oz/A 0.25% v/v	0,28 0,28 0,28
6	Tenacity Xonerate NIS	Syngenta Arysta LifeScience	5 oz/A 2 oz/A 0.25% v/v	0,28 0,28 0,28
7	Impact MSO	AMVAC	1 oz/A 0.5% v/v	0,28 0,28
8	Impact Turflon Ester MSO	AMVAC Dow AgroSciences	1 oz/A 16 oz/A 0.5% v/v	0,28 0,28 0,28
9	Pylex MSO	BASF	1 oz/A 0.5% v/v	0,28 0,28
10	Pylex MSO	BASF	1.5 oz/A 0.5% v/v	0,28 0,28
11	Pylex MSO	BASF	1 oz/A 0.5% v/v	0,21 0,21
12	Pylex MSO	BASF	1.5 oz/A 0.5% v/v	0,21 0,21
13	Pylex MSO	BASF	4 oz/A 0.5% v/v	0 0
14	Square One NIS	FMC	12 oz/A 0.25% v/v	0 0
15	Square One NIS	FMC	12 oz/A 0.25% v/v	0,21 0,21
16	Square One NIS	FMC	18 oz/A 0.25% v/v	0 0
17	Acclaim Extra	Bayer	20 oz/A	0
18	Drive XLR8 MSO	BASF	64 oz/A 0.5% v/v	0 0

No.	Treatment	Company	Rate	Timing (d)
19	Tenacity NIS	Syngenta	5 oz/A 0.25% v/v	0,21 0,21
20	Solitare NIS	FMC	16 oz/A 0.25% v/v	0 0
21	Solitare NIS	FMC	21.3 oz/A 0.25% v/v	0 0
22	OneTime MSO	BASF	64 oz/A 0.5% v/v	0 0
23	Q4 NIS	Gordon's ProForm	128 oz/A 0.25% v/v	0 0

**2013 UCR Postemergence Crabgrass Control in Tall Fescue**

North

Bay 4

16	1	2	3	4	5	6	7	8	9	10	11	12
15	13	X	X	X	17	18	19	20	21	22	23	14
16	23	21	9	11	7	2	6	X	8	14	X	20

Bay 2

18	X	15	1	22	3	12	5	17	13	4	10	19
1	23	12	8	13	X	19	14	11	X	20	4	9
21	17	7	22	2	5	3	10	X	6	18	15	16