

# **Barricade (Prodiamine) Impregnated on Fertilizer for Crabgrass Control-2006, HPB850**

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## **Objectives:**

The objectives of this preemergence study were to evaluate single and split applications of Barricade (prodiamine) on fertilizer and Barricade in a 4L formulation for crabgrass control in a "Nassau" Kentucky bluegrass turf.

## **Materials and Methods:**

This study was conducted at the Iowa State University Turfgrass Research Facility. The plot area was seeded with crabgrass 18 April, 2006. Initial product applications were made 21 April (Table 1). The study consisted of both granular and liquid treatments, with the fertilizer being in granular form. The soil on the site is a disturbed Nicollet clay loam with a pH of 6.2, 30 ppm P, and 174 ppm K.

## **Results:**

There was sufficient granular product in each of the dry treatments to provide uniform coverage of plots. There was no phytotoxicity seen on any of the treated plots. All treatments provided excellent crabgrass control throughout the study period with the exception of treatments 9 and 10 that included Barricade in the 4 FL formulation only (Table 1). Dimension as a granular preemergence material, followed by Dimension 40WP 6 weeks after treatment (WAT) provided the best crabgrass control. Data were not taken until 3 June because crabgrass had not yet emerged to the point where data could be collected.

<b>Table 1.</b> Percentage crabgrass control for the Barricade (prodiamine) impregnated on fertilizer for crabgrass control-2006 study, HPB850.								
<b>Treatments</b>				<b>Percentage Crabgrass Control</b>				
<b>Trt</b>	<b>Product</b>	<b>Application Timing</b>	<b>Rate/acre</b>	<b>3-Jun</b>	<b>17-Jun</b>	<b>1-Jul</b>	<b>15-Jul</b>	<b>14-Aug</b>
<b>1</b>	Control	****	****	0.0	0.0	0.0	0.0	0.0
<b>2</b>	17-3-17	Preemergence	250 lb	78.8	40.0	18.8	11.0	9.5
<b>3</b>	A15395 17-3-17 Barricade 4FL	Preemergence Preemergence 6-8 WAIT	190 lb 60 lb 8 fl oz	98.5	94.8	96.0	95.5	91.3
<b>4</b>	A15395 17-3-17 Barricade 4FL	Preemergence Preemergence 6-8 WAIT	190 lb 60 lb 12 fl oz	98.3	98.0	97.8	99.0	90.8
<b>5</b>	A15395 17-3-17 Barricade 4FL	Preemergence Preemergence 6-8 WAIT	190 lb 60 lb 16 fl oz	97.0	98.8	98.3	98.5	95.5
<b>6</b>	A15395 Barricade 4FL	Preemergence 6-8 WAIT	250 lb 8 fl oz	99.3	98.8	99.3	98.5	92.8
<b>7</b>	A15395 Barricade 4FL	Preemergence 6-8 WAIT	250 lb 12 fl oz	95.8	96.3	97.3	97.0	94.3
<b>8</b>	A15395 Barricade 4FL	Preemergence 6-8 WAIT	250 lb 16 fl oz	99.3	98.5	98.5	98.5	95.5
<b>9</b>	Barricade 4FL 17-3-17 Barricade 4FL	Preemergence Preemergence 6-8 WAIT	12 fl oz 250 lb 16 fl oz	95.0	95.8	89.5	85.0	75.0
<b>10</b>	Barricade 4FL 17-3-17 Barricade 4FL	Preemergence Preemergence 6-8 WAIT	16 fl oz 250 lb 16 fl oz	88.3	87.3	87.3	81.0	70.0
<b>11</b>	EXC939 17-3-17 Pendulum 3.3EC	Preemergence Preemergence 6-8 WAIT	174 lb 250 lb 48 fl oz	97.3	98.8	99.0	97.5	90.8
<b>12</b>	EXC940 Dimension 40WP	Preemergence 6-8 WAIT	174 lb 0.5 lb	98.0	99.5	100.0	100.0	99.3
	<b>LSD 0.05</b>			<b>10.2</b>	<b>7.4</b>	<b>10.8</b>	<b>13.8</b>	<b>12.6</b>