

SEVEN WAYS TO SIXTY: REFINING VELOCITY TIMING FOR MAXIMUM EFFICACY

Ronald N. Calhoun and Aaron D. Hathaway

Velocity Herbicide (bispribac-sodium) was labeled in Michigan in 2003 for use in bentgrass fairways for the postemergence removal of *Poa annua*. In 2004 this label was expanded to Texas, New Jersey, South Carolina, Georgia and Florida for the removal of Poa from overseeded ryegrass fairways. Currently, Velocity is on the EPA work plan for fourth-quarter 2004. It is expected that Velocity will receive federal registration at that time.

Previous studies at MSU have shown the most predictable results from Velocity applications that total 60 g ai per acre. However, a single 60 g application does not work as well as two applications of 30 g and three applications...you get the idea. Early recommendations suggested reapplying on a 28 day interval. In 2003, we observed that reducing the treatment interval from 28 to 21 to 14 to 7 days increased Poa control efficacy. The 2003 interval study was conducted on a Poa fairway, so although the efficacy was shown the effect of four-to-eight applications on bentgrass was not known. This study was designed to explore several ways of achieving 60 g ai per acre on a bent/poa fairway (~80/20).

Various Combinations of Velocity Treatments to Total 60 g ai per Acre.

Velocity Herbicide Rate	Formulation	Interval	Applications Needed	Comments
60 g ai/A	80 WP		1	
30 g ai/A	80 WP	7-d	2	
20 g ai/A	80 WP	7-d	3	
15 g ai/A	80 WP	7-d	4	
10 g ai/A	80 WP	7-d	6	
5 g ai/A	80 WP	7-d	12	
40+20 g ai/A	80 WP	7-d	2	
Untreated				