

## TOUGH TO CONTROL WEEDS: GROUND IVY (*GLECHOMA HEDERACEA*)

Ronald Calhoun and James H. Baird  
 Department of Crop and Soil Sciences  
 Michigan State University

Most broadleaf weeds in turf can be controlled with a well-timed application of a postemergence herbicide. However, weeds that are not controlled by three-way herbicides (2,4-D, MCP, dicamba) can quickly infest a lawn unless further action is taken. Often a repeat application of the herbicide, 3-4 weeks after the initial application, can be the difference between success and failure. Some weeds, including ground ivy, continue to persist even after repeat applications have been made.

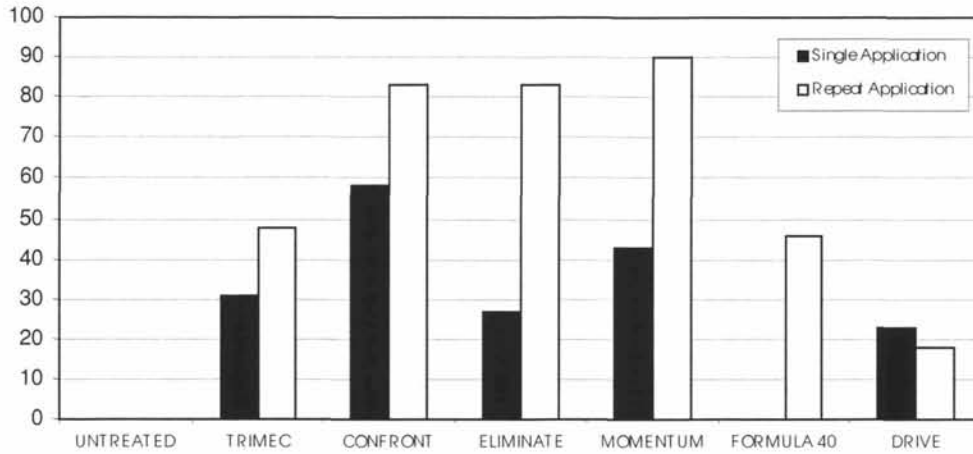
A study was established in 1998 to look at postemergence control of ground ivy. The products included in this trial were Trimec Classic, Confront, Eliminate, Momentum, and Formula 40. Each of these products was applied alone and in a tankmix with Drive (quinclorac) on June 17. Drive is a postemergence herbicide that has excellent crabgrass control and some activity on certain broadleaf weeds. Research has shown that Drive will increase the activity of postemergence herbicides when included in a tankmix. See Table 1 for a complete list of treatments. On July 10, half of the plots received a second herbicide application in order to measure any increased effectiveness that repeat applications may offer.

Initial ground ivy cover for each plot was recorded and used to determine percent control. Turfgrass quality was rated at 10, 20, and 34 days after treatment (DAT). Acceptable turfgrass quality was maintained by all treatments in this study. A repeat application made 28 days after the initial application increased ground ivy control (Figure 1). Tankmixing postemergence broadleaf herbicides with Drive dramatically increased herbicide efficacy (Figure 2).

**Table 1: Herbicide Treatments for the Control of Ground Ivy**

Treatment	Active Ingredient	Formulation	Rate
1 Untreated			
2 Trimec Classic	2,4-D+MCP+dicamba	3.3 EC	3 pt/a
3 Confront	Triclopyr+clopyralid	2 EC	1.5 pt/a
4 Eliminate	dicamba+MCP+triclopyr	4.56 EC	3 pt/a
5 Momentum	2,4-D+triclopyr+clopyralid	3.07 EC	4 pt/a
6 Formula 40	2,4-D	4 EC	1 lb/a
7 Drive	quinclorac	75 DF	0.75 lb/a
8 Trimec Classic + Drive	2,4-D+MCP+dicamba + quinclorac	3.3 EC 75 DF	3 pt/a 0.75 lb/a
9 Confront + Drive	triclopyr+clopyralid + quinclorac	2 EC 75 DF	1.5 pt/a 0.75 lb/a
10 Eliminate + Drive	dicamba+MCP+triclopyr + quinclorac	4.56 EC 75 DF	3 pt/a 0.75 lb/a
11 Momentum + Drive	2,4-D+triclopyr+clopyralid + quinclorac	3.07 EC 75 DF	4 pt/a 0.75 lb/a
12 Formula 40 + Drive	2,4-D + quinclorac	4 EC 75 DF	1 lb/a 0.75 lb/a

**Figure 1: Ground Ivy Control as Affected by Repeat Applications**



**Figure 2: Ground Ivy Control as Affected by Tankmixing with Drive**

