

Gallery - A New Concept in Preemergence Weed Control

E. Miltner and B. E. Branham
Crop and Soil Sciences

Gallery is a new herbicide from Dow/Elanco providing a totally different approach to broadleaf weed control. Gallery is a preemergence broadleaf herbicide. All other broadleaf herbicides available in the turf market are postemergence products. Gallery controls a wide spectrum of broadleaf weeds as they germinate but has no postemergence activity.

This study was initiated on 5 May 1990. A broad spectrum postemergence herbicide, Trimec at 4 pts/A, was applied one week later to control existing broadleaf weeds. The treated areas were watered in on 7 May. This area did not receive any additional irrigation or fertility during 1990.

Results are shown in Table 7. Only three weed species were present in significant quantity. Neither broadleaf species was completely controlled by Gallery alone. There were no significant differences in oxalis control among any of the treatments. The best oxalis treatments were Pre M at 3.0 lb AI/A and the combination of Team 2G + Gallery at 2.0 + 0.75 lbs AI/A. Gallery alone provided some suppression of oxalis when compared to the control.

For dandelion, the Pre M treatment had significantly more dandelion than any of the treatments including the control.

The crabgrass data is interesting in that the Gallery shows some suppression of crabgrass. Best control was seen with Gallery plus Team or Pre M. All the Gallery treatments provided significantly better crabgrass control than the untreated plots. The Pre M treatment showed excellent crabgrass control which left some bare ground that was invaded by dandelion resulting in the very high counts for this treatment. The control treatments had higher crabgrass populations than any other treatments. Because crabgrass is a very aggressive weed it will limit the invasion of other weed species, such as dandelion and oxalis, into the plots. Thus, the control of the crabgrass by Pre M allows the dandelion population to explode. Where Gallery was applied, suppression of dandelion results. This is obscured by the suppression of dandelion by crabgrass in the control plots.

Gallery is a new product and it will be interesting to follow its use by the turf industry. It remains to be seen whether this product will find a significant niche in the market.

Table 7. Effect of Gallery on Three Weed Species.

Herbicide	Rate	% Crabgrass		Oxalis Plant Counts		Dandelion Plant Counts	
		7/9	8/15	7/9	8/15	7/9	8/15
Gallery 75 DF + Team 2G	0.75 + 2.0	0.7	0.7	2.3	3.3	5.7	25.3
Pre M 65 WDG	3.0	0.7	1.8	1.0	3.0	13.0	83.3
Gallery 75 DF	1.0	2.0	10.0	4.0	7.3	1.0	34.3
Gallery 75 DF	0.75	1.7	5.3	5.7	8.0	4.3	31.3
Gallery 75 DF	0.50	1.3	8.3	8.3	9.7	8.7	20.0
Control		4.7	25.0	10.3	15.3	3.3	24.0
LSD(P=0.05)		1.2	8.7	NS	NS	NS	25.0