

Broadleaf Weed Control Study

This study was established to examine a new herbicide that will soon be available for use in turf. The herbicide triclopyr was tested in combination with other commonly used turf herbicides (Table 2). Excellent control was seen with a three-way combination of triclopyr, 2,4-D, and MCPP at 1.0, 1.0 and 0.5 lbs/A, respectively. Trimec and Trimec plus triclopyr also gave excellent results. A mixture of triclopyr and 2,4-D at 0.38 and 0.75 lbs. respectively gave nearly as good control of the target weeds as the above mentioned treatments. Triclopyr was applied as an ester formation; the potential for volatilization and subsequent damage to desirable trees and ornamentals is not known. More research is needed concerning the volatilization potential for this particular formulation. When triclopyr is formulated as an ester and mixed with 2,4-D amine a chemical reaction occurs which renders both herbicides ineffective. Triclopyr has been formulated as an amine. However, the herbicidal activity of the amine formulation has not been as good as the ester formulation. The formulation problems with triclopyr need to be resolved before it reaches the marketplace.

Table 2. 1983 MSU Broadleaf Weed Control Trial.

Treatment Name	Lowest Rating Indicates Least Amount of Broadleaves		
	7-7-83	7-21-83	8-11-83
Triclopyr + 2,4-D + MCPP 1.0 + 1.0 + .5 lbs/A	1.5 A*	1.0 A	1.2 A
Trimec 0.6 gal/A	1.7 AB	1.0 A	1.3 AB
EH 533 (Trimec + Triclopyr) 4 pts/A	1.5 A	1.0 A	1.2 A
Triclopyr + 2,4-D 0.38 lbs/A + .75 lbs/A	2.0 AB	1.7 A	1.7 AB
Triclopyr + 2,4-D .25 lbs/A + 1.0 lbs/A	2.5 AB	2.0 A	2.2 AB
Triclopyr + 2,4-D + MCPP .5 + .5 + .125 lbs/A	2.7 AB	2.0 A	1.8 AB
KIH 843-06-83 1.43 lbs/A	1.7 AB	2.3 A	1.7 AB
KIH 844-06-83 1.43 lbs/A	3.3 A	2.8 AB	3.3 BC
Triclopyr + 2,4-OD .125 lbs/A + 1.0 lbs/A	2.3 AB	3.0 AB	2.3 AB
2,4-D + McPP 1 lbs/A 0.5 lbs/A	2.3 AB	3.0 AB	1.7 AB
Triclopyr + 2,4-D 0.25 lbs/A + 0.5 lbs/A	2.8 AB	3.2 AB	2.5 AB
Demise 1.43 lbs/A	2.3 AB	3.3 AB	1.7 AB
2,4-D 1 lbs/A	3.2 AB	3.3 AB	2.5 AB
Check	6.0 C	6.2 CD	4.7 CD
Check	6.5 C	6.5 CD	5.8 DE
Check	7.0 C	7.0 CD	5.8 DE

* Treatments having the same letter are not significantly different. Mean separation by Duncan's MRT (5%).