

AGRONOMISTS' ASSOCIATION

Cat No: 1563

1. Particulars of the project:

Soil analysis Date: 18/3/1987

pH	OM%	Clay %	Silt %	Sand %		
				Coarse	Med	Fine
5.8	3.3	16	9	12	18	45

ppm

P	K	Ca	Mg	Zn	S
53	105	665	> 220	2, 3	24

Irrigation : Nil

November

Rainfall	:	124,8
LTM	:	117,8

Application details:

Applicator : Gas operated knapsack
Nozzle : APM Green
Pressure : 1,0 Bar
Output : 373 l ha⁻¹

To test chemicals for the long term control of *Digitaria scalarum*.

Rate (kg or l product ha⁻¹)

- | | |
|----------------------------|------------|
| 1. Asulox (40) | 11 |
| 2. Asulox + Actril DS (70) | 9 + 1,25 |
| 3. Roundup (36) | 4 |
| 4. Diuron (80) + Actril DS | 2,5 + 1,25 |

Treatments were applied directly over the *D. scalarum* foliage, the height of which was 40 cm at the time of spray. The nozzle was held at about 30 cm above the foliage. Each replicated area (8m long x 2m wide = 16m²) was sprayed with two passes giving an overlap of 60%. (Swath width of each pass = 1.6 m).

Table 1: Mean visual ratings of % scorch on D. scalarum foliage 25 and 36 days after treatment.

Treatment	% scorch	
	25 DAA*	36 DAA
1. Asulox	60	55
2. Asulox + Actril DS	60	45
3. Roundup	75	85
4. Diuron + Actril DS	5	5

* DAA - Days after application

CONCLUSIONS

1. No treatment resulted in an acceptable control of D. scalarum.
2. 36 days after application of treatments, regrowth of D. scalarum was apparent and the trial was discontinued.

FUTURE

Other products should be tested to improve control of Digitaria scalarum.

GW/MG
8 June, 1987