

SOUTH AFRICAN SUGAR INDUSTRY
AGRONOMISTS' ASSOCIATION

Cat. No.: 1373

TITLE: Spot spraying for sugarcane regrowth control (observation) after Roundup application

Purpose

To compare Roundup and paraquat spot sprays for the control of regrowth after minimum tillage with Roundup.

Soil

Waldene series

Treatments

Application: CP3 knapsack sprayer fitted with a yellow polijet nozzle covered with a plastic shield. Output = 7,7 ml/S. Walking pace was 1 m/s, trigger opened wherever regrowth was apparent.

Date of initial Roundup treatment : January 1979

Date of spot sprays of regrowth : 19 July 1979

Results

Chemical	Rate	EWRC (1-9) Rating T + 18 days	Counts (regrowth) T+63 days	
			Stools/100 m	Stools/100 m
Paraquat	3 l/ha	6	117	47
Roundup	10 l/ha	8	69	30
Roundup	1 % solution	7	114	46
Paraquat	1 % solution	5	155	53
Roundup	2,5 l/ha	7	-	56

Comments

1. Effects of Roundup at 10 l/ha were better than a 1% solution and the other treatments but no treatment was really satisfactory.
2. Paraquat treatments showed healthy regrowth compared with Roundup treatments where shoots were usually chlorotic and unhealthy.

Conclusion

1. Repeated sprays of paraquat were not evaluated and may have been better than a single spray.
2. Hand hoeing is expected to be more effective than either chemical for removal of regrowth.

PETT/VJ
19 July 1983