

SOUTH AFRICAN SUGAR INDUSTRY  
AGRONOMISTS' ASSOCIATION

Cat. No.: 1374

TITLE: To test a new chemical PP009 from ICI for cane killing

Site : CFS

Soil : Clansthal Series

Application : Applicator : CP<sub>3</sub> knapsack sprayer  
 Nozzle : TK5 floodjet  
 Method : Nozzle held directly over the cane rows-  
 Plot size : 3 rows x 8 m x 1,4 m = 33,6 m<sup>2</sup>  
 Replications : 2  
 Conditions : On the day of spray:

Rainfall (mm) : 4,7  
 Sunshine hours : 5  
 Temperature °C 8 am : 17,9  
                   2 pm : 19,7  
 Rel. humidity % 8 am : 85  
                   2 pm : 37  
 Date of spray : 24.07.1981

Treatments

1. PP009 3 l/ha
2. PP009 4 l/ha
3. PP009 6 l/ha
4. PP009 4 l/ha + surfactant Agrowett at 0,2 % v/v.

T4 - only one cane line sprayed.

Results

Treatments	EWRS Ratings 1 - 9 1 = no effect 9 = dead		New shoots 1000/ha T + 73 days	% Regrowth of orig. shoot No. T + 73 days
	T + 25 days	T + 33 days		
PP009 3 l/ha	5	5,8	15,476	15,9
PP009 4 l/ha	5,5	6	5,655	8,7
PP009 6 l/ha	5,5	6,3	0,89	1,4

Comments

1. No difference was apparent between treatments with or without surfactant.
2. Sprayed cane shoots remained standing and had some green colour on the leaves even after 73 days. All growing points were however dead.
3. Although ratings showed relatively little difference between rates, regrowth counts showed a large advantage to higher rates.

Conclusion

1. Very good potential for cane killing was shown by this initial trial conducted in winter.
2. Unfortunately no comparison was made with Roundup.
3. The optimum rate of PP009 for killing cane could be higher than 6 l/ha but this appeared adequate.

PETT/VJ  
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