

**AICRP Results 2013-14**  
**Sugarcane Research Station, Buralikson**

**Table 1. Evaluation of sugarcane varieties/genotypes against red rot**

Sl. No.	Variety/ genotype	Reaction to Red Rot					
		CF 07			CF 08		
		Plug method	Reaction	Nodal method	Plug method	Reaction	Nodal method
AVT (ML) I Plant							
1.	BO 153	3.00	MR	R	3.65	MR	R
2.	CoP 08436	3.50	MR	R	4.14	MS	R
3.	CoSe 09452	3.45	MR	R	4.15	MS	R
IVT (ML)							
4.	CoSe 10451	3.70	MR	R	3.85	MR	R
5.	CoSe 10452	3.72	MR	R	3.80	MR	R
6.	CoSe 10453	3.00	MR	R	3.40	MR	R
AVT (ML) I Plant							
7.	BO 154	3.80	MR	R	3.98	MR	R
8.	CoP 09437	5.37	MS	R	4.00	MR	R
AVT (ML) II Plant							
9.	CoP 08437	3.75	MR	R	3.86	MR	R
10.	CoSe 08451	8.50	HS	S	8.0	S	S
11.	CoSe 08452	7.67	S	S	5.57	MS	R

## **PP22. Survey of Sugarcane diseases naturally occurring on important sugarcane varieties**

The survey programme was conducted in various locations of seven sugarcane growing districts of Assam, viz., Golaghat, Jorhat, Nagaon, Kokrajhar, Kamrup, Sonitpur and Dhemaji. The different cultivars/varieties were examined at random for infection of diseases like red rot, wilt, smut, grassy shoot, rust and other minor diseases like leaf spots. The incidences of diseases as observed are presented in Table 2.

The data on survey of sugarcane diseases revealed that there is no widespread occurrence of major diseases of the crop in the surveyed areas, except in Kokrajhar district where red rot was found to be occurring in higher proportions. In the surveyed areas in this district it was found that a very susceptible unknown variety was being cultivated. Leaf spots and mosaic disease was found to be very common in all the surveyed areas. Among the leaf spots, ring spots, eye spots and brown spots were common. Among other diseases, grassy shoot disease was found to be occurring in considerable proportions in Majuli sub division of Jorhat district. Besides, in the districts Golaghat, Jorhat and Nagaon the occurrence of Pokkah Boeng disease in small proportions was observed.

**Table 2. Survey of Sugarcane diseases naturally occurring on important sugarcane varieties**

Sl. No.	Districts	No. Of locations	Disease Incidence(%)								
			Leaf spots	Rust	Red rot	Grassy shoot	Smut	Wilt	Pokkah Boeng	RSD	Mosaic
1.	Golaghat	12	20	-	-	-	-	2	3	-	40
2.	Jorhat	10	15	-	-	10	-	-	2	-	30
3.	Nagaon	5	5	-	-	-	-	-	2	-	10
4.	Kokrajhar	3	10	-	10-25	-	-	-	-	-	10
5.	Kamrup	5	5	-	-	-	-	>1	-	-	5
6.	Sonitpur	3	5	-	-	-	-	-	-	-	5
7.	Dhemaji	3	10	-	1	-	-	-	-	-	10