

## LIST OF TABLES

Table	Particulars	Page
1.	Meteorological observations at Genda Singh Sugar cane Breeding and Research Centre Seorahi, Deoria (U.P. during cropping period.	39
2.	Some important physio-chemical characteristics of soils	43
3.	Dates of Major Operations	45
4.	Range and average values of Physico-chemical properties soils of Districts Deoria and Gorakhpur.	52
5.	Range and average values of available nutrients in soils of districts Deoria and Gorakhpur.	54
6.	Availability categories of available nutrients in soils of districts Deoria and Gorakhpur.	56
7.	Correlation coefficients between physico-chemical properties and available nutrients in soil type I (Bhat)	62
8.	Correlation coefficients between physico-chemical properties and available nutrients in soil Type II (Bangar).	63
9.	Correlation coefficients between physico-chemical properties and available nutrients in soil Type III (Kachhar).	64
10.	Effect of levels and varieties on grain and straw yields.	66

11.	Effect of S and varieties on N contents in plants.	68 - 69
12.	Effect of S and varieties on N uptake by grain and straw (Kg/ha).	70
13.	Effect of S and varieties on $P_2O_5$ in plant.	74 - 75
14.	Effect of S and varieties on $P_2O_5$ uptake in plant in grain and straw in Kg/ha.	76
15.	Effect of S and $K_2O$ content in plant.	78 - 79
16.	Effect of S and varieties on K uptake by grain and straw (Kg/ha).	80
17.	Effect of S and varieties on S content in plant.	83 - 84
18.	Effect of S and varieties on S uptake by grain and straw (Kg/ha).	85
19.	Effect of S and varieties on Zn contents in plant (PPM).	87 - 88
20.	Effect of S and varieties on Zn uptake in grain and straw (gm/ha).	89
21.	Available S (PPm) in soils determined by different extractants and S contents in rice plant (%).	91 - 92
22.	Coefficients of correlation and regression equations between available S contents in soils extracted by different extractants and S contents in plants.	92
23.	Optimum requirement of sulphur for maximum grain yield of different varieties of paddy.	94