Indian J. Trop. Biodiv. **18(1)** : 109-113 (2010)

EVALUATION OF COTTON GENOTYPES FOR FIBER PARAMETERS AND BIOTIC RESISTANCE

D. S. TOMAR[1], P. P. SHASTRY AND G. K. KOUTU
J. N. Krishi Vishwa Vidyalaya
College of Agriculture, Tikamgarh 472 001 (M. P.), India
[1]Corresponding author : dineshst74@yahoo.com

ABSTRACT: Thirty superior genotypes of *G. hirsutum* received from various locations were evaluated against JKHy-3 as local check. CCH - 4 (1788.53 kg/ha) was the highest yielder, closely followed by JKHY-3 (LC) (1576.19 kg/ha) and NH-615 (1547.79 kg/ha). The highest G.P. was recorded for CCH - 4 (36.6 %) followed by CNH-1102 (35.4 %) and CSH-2575 (35.0 %). The observations on the fibre quality parameters indicate that the fibre length (2.5% Span Length) varied between 33.3 mm for BRS-3 and 25.4 mm for CSH-2575. The range for fibre strength was observed to be between 23.5 g/tex for H-1287 and 19.3 g/tex for AKH-0401. Entries namely CCH-2575, P-57-P-6, CNH-1101, KHH-124 and BRS-5 showed moderate resistant reaction against bacterial leaf blight disease, while Pusa-95-27-2-P-2, CNH-1102, BS-144-3 and h-1263 exhibited moderate resistant reaction against Myrothecium leaf blight disease.

Keyword : *Cotton genotypes, Diseases resistance, Fiber quality, G. hirsutum, Yield.*