

ACKNOWLEDGEMENTS

ABSTRACT

Screening of Peanut Genotypes for Resistance to Rust
(*Puccinia arachidis*) in Trinidad

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Two local and 28 imported genotypes of *Arachis hypogaea* were screened under field condition for resistance to *Puccinia arachidis*. The trial was conducted at the U.W.I. Field Station during the period May to September 1990. Genotypes were screened using the ICRISAT 9-point rust field score. Components of resistance (incubation period, pustule diameter, and number of pustules per 10 cm² leaf area) were assessed and the inter-relationship among the components of resistance and rust field score were determined.

Of 28 breeding lines obtained from ICRISAT, 13 which had rust field scores of 1-1.7 showed marked resistance to *P. arachidis*. Six of them had rust field scores of 2-4.3 and the rest (9) had rust scores of 5.7-8.7. The two locally obtained genotypes; Robut 33-1 and NC2 were highly susceptible to rust. Genotypes which are resistant to *P. arachidis* at ICRISAT were also resistant in Trinidad. All the components of resistance evaluated were significantly correlated. Except incubation period, which is negatively correlated, the rest are positively correlated with one another.