



## RESEARCH PAPER

# Determining the yield performance of near isogenic lines (NILs) in maize

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**Abstract :** The present experiment was conducted at Department of Millets, Centre for Plant breeding and Genetics, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India to analysis the yield performance of sorghum down mildew resistant near isogenic lines in Maize. The objective of this study was to assess the yield performance of four sorghum downy mildew resistant NILs in maize. Four SDM resistant NILs viz., 79/936-C1-7-7-7-46-2, 79/936-C1-7-7-7-80-17, 79/936-C1-7-7-7-92-1 and 79/936-C1-7-7-7-92-7 were used for this purpose. Nine biometrical characters viz., days to 50% of tasseling, days to 50% of silking, Days to maturity, Plant height, Ear height, Cob length, Cob diameter, 100 grain weight and yield per plant were taken for analysis. The study revealed that all the four NILs showed better *per se* performance for yield contributing characters and more mean values than the parents hence, these four Near Isogenic Lines (NILs) may be used as a parent to develop hybrid in maize breeding programme.

**Key Words :** Bio metrical observation, Sorghum Downy Mildew resistant NILs and Maize

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