RESISTANCE SOURCES

Evaluation of sunflower genotypes for resistance to downy mildew

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Sunflower (Helianthus annuus L.) is one of the major oilseeds crop of Maharashtra, where irrigation facilities are available. Downy mildew is important in Marathwada region (M.S.) (2). The paper reports the evaluation of newly developed genotypes of sunflower for resistance to downy mildew.

Sick plot technique adopted by Mayee and Patil (2) was used to screen sunflower lines. The genotypes were sown 3 meter long rows with a distance of 45 x 15 cm plant desirable for max. disease incidence. Three days old 20 geminated seeds were inoculated with 2.5 x 10^4 sporangial propagules/ml by radical inoculation technique and immediately sown in sick plot. After sowing sick plot was irrigated and subsequent irrigation was given at an intervals of 3 days till the complete expression of systemic downy mildew symptoms. Downy mildew was recorded according to the scale developed by Mayee and Datar (1).

The genotypes 1962 and LDMRSH-3 were found completely free from disease incidence and classified with resistant category (0-10% infection).

REFERENCES


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