

## Influence of Different Temperature on Cotton *Verticillium* Wilt

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**Abstract:** The influence of different temperatures on cotton *Verticillium* wilt was studied through inoculating three pathogenic strains on three different resistance varieties under controlling conditions. The results indicated that 81 treatments were effected on cotton greatly and the difference was significant. It was also found that the temperature and the resistance of varieties had

obvious interactions. Under 25℃, the resistant variety BD18 behaved obvious resistance and the average disease index of 9 treatments was 25.97, but the disease index of susceptible variety 86-1 was 30.98. All the temperatures and varieties had significant effect on cotton *Verticillium* Wilt. This study would provided scientific basis for the study of the rule of the disease epidemic, geographic distribution, diseases resistance breeding and IPM of cotton *Verticillium* Wilt.

**Key words:** cotton; *Verticillium* wilt; temperature; variety strains