Study of Correlation Between Some Morphological and Physiological Characters of Wheat and Fusarium Head Blight Infection

Authors: M. H. Yousefi, M. Tavakolizadeh, and M. Taha

Abstract

The study aimed to investigate the correlation between some morphological and physiological characters of wheat and Fusarium Head Blight (FHB) disease. A total of 120 samples were collected from different wheat varieties grown in different regions. The disease severity was evaluated using Disease Index (DI) and Disease Incidence (DI).

Key findings:
1. There was a significant positive correlation between the disease severity and the following morphological characters: plant height, flag leaf length, and number of spikelets per spike.
2. The disease severity was negatively correlated with the following physiological characters: chlorophyll content and photosynthetic rate.

Conclusion

The results indicate that the correlation between morphological and physiological characters can be used as a basis for selecting wheat varieties resistant to FHB. Further research is needed to validate these findings and develop effective management strategies.

References