

Forecasting of Winter Season Low Temperature and its Value for Growing Vegetable Crops in Riyadh Area, Saudi Arabia

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ABSTRACT. Growing vegetable crops during winter season faces a problem of low temperature below the zero vegetation point and natural resistance to frost. The natural hazard of low temperature causes a damage to the vegetable crops especially in Riyadh area where this hazard does not occur regularly, and therefore, farmers do not make a adjustments to this hazard.

Forecasting of winter low temperature is one of the most important aspects that will enable farmers to make a wise decision to protect their crops from the dangers of low temperature.

The results of this study indicate that there is a strong relationship between the minimum temperature of the fall season and the minimum temperature of the winter. Therefore, minimum temperature of the fall is one of the best variable which can be used for forecasting the minimum temperature of winter.