

Impact of weather parameters in linseed (*Linum usitatissimum* L.) on various genotypes and sowing times

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Article Chronicle :

Received :

29.01.2015;

Revised :

22.03.2015;

Accepted :

13.04.2015

ABSTRACT : Split Plot Design with three replications was laid out in field experiment. The treatments consist of 6 dates of sowing D_1 : 40th MW, D_2 : 41st MW, D_3 : 42nd MW, D_4 : 43rd MW, D_5 : 44th MW and D_6 : 45th MW as main plot treatment and 3 cultivars V_1 : Kiran, V_2 : Garima, V_3 : RLC-4 as sub plot treatment at College of Agriculture latur during *Rabi* season. First date (D_1) and second date (D_2) crop sown in MW 40 and MW 41 recorded significantly higher leaf area index than other dates of sowing. Correlation study between seed yields and weather parameters of Garima cultivar reported significant positive correlation between T_{max} , T_{mean} , RHI, RHII, and RH_{mean} in P_2 stage (Emergence to branching) while at critical growth stages weather had no significant effect. In respect of cultivar kiran different trend was observed in P_4 stage (Flowering to capsule formation). Only T_{min} and GDD have reported positive correlation. When correlation study between straw yields and weather parameters of above cultivars was to known, Garima cultivar reported significant positive association with T_{min} , T_{mean} , RHI, RHII and RH_{mean} during P_3 stage (Branching to flowering). Cultivar Kiran have also reported significant positive correlation during P_3 stage (Branching to flowering). The significant negative correlation in respect of air temperature indicated that higher minimum temperatures are not ideal for optimum seed yield. The positive significant correlation of humidity values are explainable that higher air temperature indirectly decreased the humidity and there by seed yield.

Key Words :

Weather parameters, Linseed, Genotypes, Sowing time

HOW TO CITE THIS ARTICLE : Rokade, B.S., Madane, K.T., Jadhav, J.D. and Kamble, P.S. (2015). Impact of weather parameters in linseed (*Linum usitatissimum* L.) on various genotypes and sowing times. *Asian J. Environ. Sci.*, **10**(1): 20-28.

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