



RESEARCH PAPER

REML/BLUP to estimate GxE interaction in co-ordinated wheat trials

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Abstract : Significant linear trend has been observed for wheat production under irrigated timely (IT) and late (IL) sown conditions along with marginal improvement for restricted irrigation (RI) timely sown wheat trials for Northern Western Plains Zone of country. Production elevated to the level of 57, 50 and 49q/ha for irrigated timely, late sown and RI timely sown trials. Significant values of intercept at 0.01 per cent for first two conditions along with significant value for third condition. More over significant values (at $P < 0.005$) of slope for linear trend exhibited by irrigated timely and late sown trials with significant change at large values of probability for remaining condition. Desirable small value of CV had been portrayed by irrigated timely and late sown trials as compared to large value for restricted irrigated condition. Average production was 51.6q/ha, 42.3q/ha and 45.6q/ha in 2008-09 and by the end of period 0.62, 0.91 and 0.04 quintal yield could be added in subsequent trials, respectively.

Key Words : Mixed model analysis, REML, BLUP, FA

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