



Response of bread wheat (*Triticum aestivum* L.) and durum wheat (*Triticum durum* Desf.) genotypes to different sowing time on quality, nutrient uptake and economics in North Gujarat Agro-climatic conditions

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Abstract : A field experiment was conducted on loamy sand soil at the Agronomy Instructional Farm, S. D. Agricultural University, Sardarkrushinagar to study the response of bread wheat (*Triticum aestivum* L.) and durum wheat (*Triticum durum* Desf.) genotypes to different sowing time in North Gujarat Agro-climatic conditions during *Rabi* season of the year 2008-09. The experiment comprised of sixteen treatment combinations was laid out in Split Plot Design with four replications. The results of experiment revealed that the highest protein content (11.97 %) was recorded when wheat genotypes were sown on 25th November. The wheat crop sown on 25th November had uptake the highest amount of N, P₂O₅ and K₂O than rest of the sowing times. Protein content of wheat seed remained unaffected due to different wheat genotypes. The variety GW 322 showed higher uptake of nitrogen, phosphorus and potash (115.67, 46.00 and 19.85 kg ha⁻¹, respectively) than GW 1139 and more or less equal values were also gained by GW 496 and GW 173 in respect of uptake. As regards to individual factors, the maximum net realization was recorded by 25th November sowing (Rs.28805 ha⁻¹ with a BCR 2.28) and variety GW 322 (Rs.27917 ha⁻¹ with a BCR 2.23) but in combinations maximum net realization of Rs.30864 ha⁻¹ with a BCR 2.36 was recorded under the treatment of S₂V₁ (25th November sowing x GW 322).

Key Words : Wheat, Durum wheat, Genotypes, Time of sowing, Benefit cost ratio

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