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# Performance of new summer groundnut varieties in different agro-climatic zones of Uttar Pradesh

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**ABSTRACT:** The experiments were laid out from 2006 to 2008 at Regional Research Station, Mainpuri, C.S. Azad University of Agriculture and Technology, Kanpur, RATDSs, Hardoi and Mathura on varietal performance. The main objective was to find out the high yielding suitable groundnut varieties to summer season cultivation. ICRISAT supplied six groundnut genotypes for evaluation during summer season of 2006. Genotype ICGV 99195 registered significantly higher pod yield (2.78 t ha<sup>-1</sup>) compared with all the test varieties except ICGV 00298 (2.77 t ha<sup>-1</sup>). Local check (G 201) reduced pod yield by a margin of 1.17 t ha<sup>-1</sup> and 1.16 t ha<sup>-1</sup> in comparison to ICGV 99195 and ICGV 00298, respectively at Regional Research Station, Mainpuri. The order of performance of the cultivars at Regional Agricultural Testing and Demonstration Station, Hardoi was ICGV 99195 (1.66 t ha<sup>-1</sup>), ICGV 02099 (1.58 t ha<sup>-1</sup>), ICGV 00298 (1.57 t ha<sup>-1</sup>), ICGV 00310 (1.55 t ha<sup>-1</sup>), ICGV 02022 (1.51 t ha<sup>-1</sup>), ICGV 94361 (1.25 t ha<sup>-1</sup>) and Kaushal (1.04 t ha<sup>-1</sup>). At Regional Agricultural Testing and Demonstration Station, Mathura, the highest pod yield of 1.63 t ha<sup>-1</sup> was reaped from genotype ICGV 00298 compared with other test genotypes during summer season. Local check ICGS 44 gave pod yield of 1.33 t ha<sup>-1</sup>. Therefore, the order of performance of the genotypes was ICGV 00298 (1.63 t ha<sup>-1</sup>), ICGV 00310 (1.57 t ha<sup>-1</sup>), ICGV 99195 (1.51 t ha<sup>-1</sup>), ICGV 02099 (1.39 t ha<sup>-1</sup>), ICGV 94361 (1.36 t ha<sup>-1</sup>), ICGS 44 (1.33 t ha<sup>-1</sup>) and ICGV 02022 (1.30 t ha<sup>-1</sup>). The both high yielder varieties were found suitable under low fertility and moisture stress conditions and negligible losses under both optimum and late sown conditions was seen.

**Key Words :** Agro-climatic zone, Bunch, Non-dormant, Spanish, Valencia, Virginia

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