

504. **Singh, P.N., Joshi, B.P. and Gurmel Singh. 1987.** Water use and yield response of wheat to irrigation and nitrogen on an alluvial soil in North India. *Agri. Wat. Manage.*, 12(4): 311-321.

Field studies were conducted for four years at Dehradun to determine the water use, water use efficiency and yield performance of a semi-dwarf high-yielding wheat variety (*Triticum aestivum* L.) in response to irrigation schedule and nitrogen fertilization. The yield and yield attributes were highest and irrigation efficiency was maximum when irrigation was applied at an IW/CPE ratio of 0.75 in a normal-rainfall year and at 0.90 in a low-rainfall year. Nitrogen fertilization increased the yield of wheat linearly and was maximum at 120 kg nitrogen/ha.