

EFFECT OF DATES OF SOWING ON GROWTH, YIELD AND ECONOMICS OF SMALL MILLETS

Sanjay Kumar*¹, Kumer Singh Malviya¹, Lakhan Bakoriya², Sachin Aske¹, V.D. Dwivedi¹, S.K. Singh³ and D.K. Malviya¹

¹Department of Agronomy, JNKVV College of Agriculture, Rewa-486 001 (M.P.)

²Department of Agronomy, JNKVV College of Agriculture, Tikamgarh- 472001 (M.P.)

³Food Corporation of India, FSD, Mokama, District Office, Patna- 803302 (Bihar)

Email: rupanksha.231302@gmail.com

Received-07.02.2019, Revised-26.02.2019

Abstract: A field experiment was carried out during rainy season 2017 at the Instructional Farm, JNKVV College of Agriculture, Rewa (M.P.). To study the effect of dates of sowing on growth, yield and economics of small millets. The growth and development of kodo millet was found superior followed by little millet and then barnyard millet under the influence of normal sowing date. The 15 July (normal sowing) was found the best sowing date for mitigating the climatic changes on kodo millet, little millet and barnyard millet, followed by early sowing and late sowing dates. The maximum grain yield (17.75 q/ha) and net income (Rs 33962/ha) was obtained when kodo millet was sown on 15th July.

Keywords: Dates of sowing, Growth, Yield, Economics, Small millets

REFERENCES

- Ali Azam, S.N. and Squire, G.R. (2002). *Principle of Tropical Agronomy*. CABI Publishing: Wallingford, United Kingdom.
- Bashir, M.M.H., Yagoub, S.O. and Ahmed Mohammed, S.A. (2015). Effect of different sowing dates on growth and yield of three pearl millet (*Pennisetum glaucum* (L.) R. Br) cultivars in West Darfur Sudan. *International Journal of Plant & Soil Science*, 5(4): 191-200.
- Craufurd, P.Q. and Bidinger, F.R. (1989). Potential and realized yield in pearl millet (*Pennisetum americanum*) as influenced by plant population density and life-cycle duration original research article. *Field Crop Research*, 22 (3): 211-225.
- Dubey, O.P., Upadhyaya, S.P. and Chourasia, S.K. (1993). Effect of sowing date and plant spacing on kodo millet (*Paspalum scrobiculatum*). *Indian Journal of Agronomy*, 38 (1): 160-162.
- Hawladar, M.S.H. and Islam, M.H. (1991). Response of foxtail millet varieties to varying dates of sowing in kharif season. *Bangladesh Journal of Scientific and Industrial Research*. 26 (1-4): 204-207.
- Kamara, A.Y., Ekeleme, F., Chikoye, D. and Omoigui, L.O. (2009). Planting date and cultivar effects on grain yield in Dryland corn production. *Agronomy Journal*, 100: 91- 98.
- Patel, B.J. and Patel, I.S. (2002). Response of summer pearl millet (*Pennisetum glaucum*) to different dates, methods of sowing and nitrogen levels under north Gujrat Agro-climatic Conditions. *Crop Research Hisar*, 24 (3): 476-480.
- Yang, J. and Zhang, J. (2006). Grain filling of cereals under soil drying. *New Philologist*, 169: 223-236.

*Corresponding Author