



## RESEARCH PAPER

# Estimation of heterosis for yield and yield components in okra [*Abelmoschus esculentus* (L.) Moench]

T.K. Darshini\* and S. Gangaprasad<sup>1</sup>

University of Agricultural and Horticultural Sciences, Shivamogga and Mallareddy University, Hyderabad (Telangana) India (Email: darshdarshini5@gmail.com)

**Abstract :** Exploitation of heterosis is primarily dependent on the selection of available germplasm that could be produced by better combinations of important agronomic characters. The heterosis was recorded for fruit and its fifteen component characters. The crosses showing significant heterosis over standard check were Varsha Upahar x Kashi Kiranthy for plant height and days to 50% flowering, 307-10-01 x Arka Anamika for number of leaves, Parbhani Kranthy x ZARS for internodal length, Varsha Upahar x ZARS for number of branches per plant, Pusa Makhmali x ZARS for number of nodes on main stem, Phule Utkarshi x Kashi Kiranthy for stem diameter, Punjab Padmini x ZARS for fruit length, Pusa Makhmali x Kashi Kiranthy for fruit diameter, VRU-109x Arka Anamika for number of fruits per plant, Punjab Padmini x ZARS for average fruit weight per plant and for total fruit yield per plant was maximum in the hybrid VRU-109 x Arka Anamika, followed by Phule Utkarshi x Kashi Kiranthy were these hybrids may be used for exploitation of hybrid vigour on commercial scale.

**Key Words :** Heterosis, Hybrid vigour

**View Point Article :** Darshini, T.K. and Gangaprasad, S. (2022). Estimation of heterosis for yield and yield components in okra [*Abelmoschus esculentus* (L.) Moench]. *Internat. J. agric. Sci.*, **18** (1): 383-391, DOI:10.15740/HAS/IJAS/18.1/383-391. Copyright@ 2022: Hind Agricultural Society.

**Article History :** Received : 22.09.2021; Revised : 30.10.2021; Accepted : 26.11.2021

---

\*Author for correspondence:

<sup>1</sup>University of Agricultural and Horticultural sciences, Shivamogga (Karnataka) India (Email: gangaprasad08@gmail.com)