Variability studies in local collections of *Lathyrus*

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Variability is basis for any crop improvement programme. For assessment of variability, hundred Lathyrus local collections were collected from the tribal farmers of Eastern Vidarbha Zone (Gadchiroli, Chandrapur, Gondia, Bhandara and Nagpur) of Maharashtra, India and evaluated in augmented design for yield and its contributing characters along with checks viz., Ratan, Prateek and Mahateora at College of Agriculture, Gadchiroli during 2011-12. Local collection showed significant variation for yield per plant (1.68 to 3.89 g), pods per plant (13 to 26), height of plant (24.4 to 34.7), 100 seed weight (6.36 to 9.66), number of branches per plant (4.7 to 7.4), days to flowering (53 to 64) and days to maturity (88 to 99). Five local collections were significantly superior over all checks for yield per plant. Similarly, 13 local collections for pods per plant and 14 local collections for number of branches per plant were significantly superior over all checks.

During year 2012-13, twenty six local collections along with three checks were evaluated in Randomized Block design. All the local collections showed significant variation for yield. Local collections CAGL-93, CAGL-43, CAGL-19, and CAGL-86 were identified as promising.

**Keywords:** Lathyrus, Local collection, variability and augmented design.

**Biography**

Sandeep R Kamdi has completed his PhD at the age of 27 years from Mahatma Phule Krishi Vidyapeeth, Rahuri, Dist. - Ahmadnagar (M.H.). Presently, He is working as Assistant Professor (Agricultural Botany) at College of Agriculture, Gadchiroli, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola (Maharashtra). He has more than 11 years experience in Teaching, Research and Extension. He is expertise in teaching various courses of Agricultural Botany to undergraduate students. He is working on two research project which are on *Valentia* Groundnut and Lathyrus. He has worked as research co-guide of 5 MSc Students. His two books namely, 1. Text book of Plant Breeding and 2. Breeding of Field and Horticultural crops will publish in near future. He has published more than 16 papers in reputed national and international journals and more than 20 popular articles and technical articles reputed magazines. He has delivered more than 10 radio talks and several lectures in Agricultural Faculty and Farmers training programme and Kisan mela.

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