I J P S INTERNATIONAL JOURNAL OF PLANT SCIENCES
ISSN-0973-1547 Volume 19 | Issue 1 | January, 2024 | 24-31

DOI: 10.15740/HAS/IJPS/19.1/24-31
Visit us - *www.researchjournal.co.in*

RESEARCH ARTICLE

Morpho-physiological studies in *desi* cotton genotypes (*Gossypium arboreum* L.)

■ S. B. Borgaonkar, M. B. Patil, A. B. Jadhav and G. S. Pawar

SUMMARY

The present investigation entitled "Morpho-physiological analysis of *desi* cotton genotypes (*Gossypium arboreum* L.)" was carried out to evaluate promising cotton genotypes for morpho-physiological and yield contributing traits at Cotton Research Station, Mahboob baugh farm, VNMKV, Parbhani, during *Kharif* season-2022. The present experiment conducted on fifteen promising genotypes of cotton (*Gossypium arboreum* L.) including two checks. The genotypes tested were PA-904, PA-906, PA-907, PA-927, PA-929, PA-932, PA-936, PA-941, PA-942, PA-945, PA-947, PA-948, PA-950 along with two checks PA-742 (C) and NH-615 (C). The present experiment revealed that, PA-907 and PA-906 were observed as early flowering genotypes whereas, PA-942 was the late desi cotton genotype. PA-904 was highest among rest of the genotypes in term of height and at par with the both upland and lowland cotton checks. Genotype PA-950 produced highest dry matter as compare to desi cotton genotype check PA-402. PA-906 recorded highest ginning out turn than upland cotton check NH-615. Genotype PA-904 had highest leaf area, leaf area index, specific leaf weight, number of bolls and high seed cotton yield among desi cotton genotypes and appeared as a most promising genotype among rest of the *desi* genotypes studied for yield parameter.

Key Words : Ginning outturn, Staple length, Dry matter, Boll weight

How to cite this article : Borgaonkar, S. B., Patil, M. B., Jadhav, A. B. and Pawar, G. S. (2024). Morpho-physiological studies in *Desi* cotton genotypes (*Gossypium arboreum* L.). *Internat. J. Plant Sci.*, **19** (1): 24-31, **DOI: 10.15740/HAS/IJPS/19.1/24-31,** Copyright@ 2023:Hind Agri-Horticultural Society.

Article chronicle : Received : 17.10.2023; **Revised :** 15.11.2023; **Accepted :** 15.12.2023

MEMBERS OF THE RESEARCH FORUM

Author to be contacted :
S.B. Boragaonkar, Cotton Research Station, Vasantrao Naik Marathwada Krishi Vidyapeeth, **Parbhani (M.S.) India**

Address of the Co-authors:
M.B. Patil, A.B. Jadhav and G.S. Pawar, Cotton Research Station, Vasantrao Naik Marathwada Krishi Vidyapeeth, **Parbhani (M.S.) India**