ISSN: 0972-8619 Volume 35 (2), July, 2021

JOURNAL OF COTTON RESEARCH AND DEVELOPMENT





Cotton Research and Development Association (CRDA)

CCS Haryana Agricultural University, Hisar-125 004 (Haryana), India

JOURNAL OF COTTON RESEARCH AND DEVELOPMENT (Founded 1986, Regd. No. 1967 of 2016)

An international journal, official organ of Cotton Research and Development Association, devoted to original research in cotton related agriculture and technology, its by products and allied products. It is published twice a year in January and July. Matters of general policy are the responsibilities of the Executive Council. The authors are solely responsible for the contents of the papers complied in this volume. The publishers or editors do not take any responsibility for the same in any manner.

EXECUTIVE COUNCIL (2021-2023)

President
Vice Presidents
Y. G. Prasad
M. Prabhakar Rao
Secretary
Joint Secretaries
Somveer Nimbal (H.Q.)
Satish Kumar Sain

Treasurer

Sandeep Kumar CORPORATE ADVISORS

M. Ramasami R.D. Shroff Amar Nath Chandrani R.G. Aggarwal

EDITORIAL BOARD

Editor Editor Secretary

(Crop Protection) (Social Sciences)

MEMBERS

S. K. Verma, Plant Breeding
N. M. Boopathi, Biotechnology
N. V.V.S. Durga Prasad, Entomology
N.V.V.S. Durga Prasad, Entomology
Vandana Gupta, Social Science
Devraj, Soil Science
Man Mohan Singh, Plant Pathology

COUNCILLORS

Arun Janu, Mumbai
V.N. Kulkarni, Hydrabad
S. Vennila, New Delhi
Suman Bala Singh, Nagpur
Karmal Singh, Hisar
Joginder Singh, Ludhiana
S. S. Patil, Dharwad
R. K. Kalyan, Banswara
D. B. Deosarkar, Parbhani
S. L. Bhattiprole, Guntur

TECHNICAL ADVISORS

M.S. Kairon, Nagpur
S. S. Siwach, Gurugram
R.S. Sangwan, Hisar
Parmjit Singh, Bathinda

Ashok K. Dhawan, Ludhiana
B.V. Patil, Raichur
P. Singh, Nagpur
K. R.Kranti, U.K.

Category	University/Govt. Scientists/Officers (Rs.)	Companies/Firms and their Scientists/Officers (Rs.)	Other Countries (US \$)
Ordinary member	500	800	100
Life member	5,000	8,000	800
Institutional member/libraries	2,000	3,000	400
Patron	50,000	50,000	5,000

Payments: Membership fee/subscription should be sent online through website www.crdaindia.com

Crop Production

Weed density, dry weight and productivity of cotton - maize cropping system	
as influenced by conservation agriculture and residue management	
- R. Veeraputhiran	214
Abiotic stress management in desi cotton (Gossypium arboreum) under	
rainfed condition	
- S. C. Wadile , N. E. Pathade, S. S. Chitodkar and Y. J. Patil	221
Effect of different levels of drip irrigation and fertigation on water use efficiency	
and seed cotton yield of <i>Bt</i> cotton	
- Annu, Karmal Singh, Priyanka Devi, Meena Sewhag and Shweta Malik	226
Effect of application methods and nitrogen scheduling on growth and quality of	
Bt (Bacillus thuringiensis) cotton	
- Priyanka Devi, Karmal Singh, S.K. Thakral, Meena Sehwag and	232
Sweta Malik	
Crop Protection	
Field efficacy of seed treatment against sucking pests and root rot in desi	
cotton under rainfed condition	
- V. K. Chaudhari, D. B. Sisodiya, and N. M. Gohel	238
Efficacy of insecticides against whitefly, Bemisia tabaci in cotton	
- Krishna Rolania, S. S. Yadav, Dalip Kumar, Dalip Kumar Bishnoi and	248
Manoj Kumar Jat	
Management of root rot (Macrophomina phaseolina) of cotton through combined	
application of <i>Trichoderma</i> spp and organic amendments	
- N. K. Yadav, Mukesh Kumar, Narender Singh and R. S. Chauhan	253
Field efficacy of Myclobutanil (10% WP) against major diseases of cotton	
- S. L. Bhattiprolu	260
Bioefficacy of novel insecticides and their combinations against Amrasca	
biguttula biguttula in cotton	
- A. S. R. Sarma, D. Lakshmi Kalyani and Y. Rama Reddy	267
Miscellaneous	
Measuring the price volatility and forecasting for market information system	
in cotton crop in Sirsa district of Haryana	
- Veer Sain, Vijay Kumar and Manoj Kumar Sharma	272
Cotton yield forecasting in districts of Haryana using fortnightly weather variables:	
A time series approach	
- Alisha Mittal and Baishali Mishra	280
Economic assessment of pesticides use in cotton cultivation	
- S. B. Mane and N. V. Shende	286

JOURNAL

OF

COTTON RESEARCH AND DEVELOPMENT

Vol. 35	July, 2021	No. 2
	Crop Improvement	
Visually assessable morph	nological descriptors-based establishment of distinctiveness,	
uniformity and sta	bility of tetraploid cotton (<i>Gossypium</i> spp.)	
- K. Rathinavel, C	. Priyadharshini and H. Kavitha	165
Genetic variability for seed	l cotton yield components and fibre quality traits in	
introgressed popul	ations of interspecific crosses between Gossypium hirsutum	
L. × G. barbadense	Ł.	
- S. M. Palve, V. N. Waghmare, P. K. Mandhyan and N. Kate		173
Estimates of direct and inc	direct effects among yield and yield contributing traits	
in American cotton	(Gossypium hirsutum L.)	
- Y. Satish		181
Studies on economic heter	osis for yield and fibre quality traits in American	
cotton (Gossypium	hirsutum L.)	
- Maggie Chakhole	oma, Somveer Nimbal, Omender Sangwan, V.S. Mor and	185
Ashish Jain		
Digenic inheritance of cleis	stogamous flowering type in Egyptian cotton	
(Gossypium barbad	dense L.)	
- A. Manivannan,	K. P. M. Dhamayanthi and K. Rathinavel	193
Inheritance pattern of resi	stance to cotton leaf curl disease (CLCuD) in	
Gossypium hirsutu	m L.	
- Surender K. Ver	ma, O.P. Tuteja, Rishi Kumar, S.K. Sain, Debashis Paul,	197
D. Monga and V.N	. Waghmare	
Correlation and path analy	ysis of quantitative and fiber quality traits with seed	
cotton yield in upla	and cotton	
- Meenakshi Rath	i, G.S. Dahiya and Omender Sangwan	204
Genetic studies in F2 popu	ulation of naturally brown coloured upland cotton	
(Gossypium hirsutı	um L.)	
- N. Premalatha, A	Amit Kumar Mazumder, A. Anbusrimathi and	209
S. S. Deepti Varsh	la	

Printed and Published by Dr. D. Monga, Editor-in-Chief, on behalf of Cotton Research and Development Association, CCS Haryana Agricultural University, Hisar-125 004 and printed by Dorex Offset Printers, D.N. College Road, Behind Swastik Gas Godown,
Satya Nagar, Hisar-125001

Ph.: 9896011117 (Date of Publication 28th July, 2021)

Website: www. crdaindia.com e-mail: crda1987india@gmail.com