

Vol. 03, Issue 01, 2025 | ISBN: 978-81-960392-1-9

PROCEEDINGS OF



Jan 17-19, 2025, OUAT, Bhubaneswar, Odisha



(SARM in collaboration with OUAT)

7th International Conference on **Agriculture for Food Security & Nutrition**



WWW.AGRIVISION.IN

CONFERENCE PROCEEDINGS

Vol.03, Issue 01, 2025

ISBN: 978-81-960392-1-9



7th International Conference on

Agriculture for Food Security & Nutrition

January 17-19, 2025 | Odisha University of Agriculture and Technology (OUAT)
Bhubaneswar, Odisha, India

Organized by



In collaboration with



Society for Agricultural Research & Management

कृषि अनुसंधान और प्रबंधन संस्थान

Conference Proceedings of
7th International Conference on
Agriculture for Food Security & Nutrition

January 17-19, 2025 | Odisha University of Agriculture and Technology (OUAT),
Bhubaneswar, Odisha, India

Vol. 03, Issue 01, 2025

Editor's Name:

Er. Rajesh Kumar Guru

Published By:

Society for Agricultural Research & Management (SARM)
Das Villa, Jobra Majhi Sahi, College Square
Cuttack- 753003, Odisha, India

Copyright © 2025 by SARM & Agri Vision

<https://sarm.in> and <https://agrivision.in>

All rights reserved. No part of this publication may be reproduced or distributed in any form or by any means, electronics, mechanical, recording, or otherwise stored in a data base or retrieval system, without the prior written permission of the publisher. The program listing (if any) may be entered, stored, and executed in a computer system, but they may not be reproduced for publication.

ISBN: 978-81-960392-1-9

Printed at:

AB Imaging & Prints Pvt. Ltd.
62 & 63, Ganga Nagar, Unit-6,
Bhubaneswar-751001, Odisha, India

Cover (illustration) by:

Rajesh Kumar Guru

ISBN 978-81-960392-1-9



9 788196 039219

Information contained in this book has been obtained by SARM & Agri Vision-2025 from sources believed to be reliable. However, neither SARM/ Agri Vision nor its Editors guarantee the accuracy or completeness of any information published herein, and neither SARM/ Agri Vision nor its Editors shall be responsible for any errors, omissions, or damages arising out of using this information. Authors of the respective articles will be responsible for any factual information, legal aspects of the information, and or the above-stated. This work is published with the understanding that SARM/Agri Vision/Editors are supplying information but are not attempting to render professional services. If such services are required, the assistance of an appropriate professional should be sought. This publication is designed to provide accurate and authoritative information for Business Owners. It is freely available under the express understanding that any decisions or actions you take as a result of reading this book must be based on your commercial judgment and will be at your sole risk. The authors, editors, or publishers will not be held responsible for the consequences of any actions and/or decisions taken as a result of any information given or recommendations made.

Economic profitability of organic Chickpea vs. organic Wheat in the cotton-based production system in a long-term experimental trial in India



Ishwar Patidar¹, Bhupendra Singh Sisodia^{1*}, Dharmendra Patel¹, Sawan Kushwaha¹, Manish Chouhan¹, Christelle Ledroit², Chigusa Keller², Akanksha Singh²

¹ bioRe Association Agronomy, India

²Research Institute of Organic Agriculture (FiBL) Switzerland

Abstract:

FiBL and its partner bioRe have established a long-term farming systems comparison field trial (LTE) to compare the performance of conventional and organic production systems for a period of 20 years from 2007 to 2026. Among other parameters, the trial aims to compare the productivity and profitability of cotton rotational systems under different management scenarios (organic, biodynamic, conventional, and Bt-conventional) in central India. Cotton is grown in a 2-year crop rotation at this study site, including soybean, wheat, and chickpea as rotational crops.

Wheat had been grown after harvesting the cotton in all the systems until 2018. The production and market price of wheat has been low. Therefore, to improve the profitability of the system, chickpea has been sown instead of wheat in organic and biodynamic systems in 2019. This presentation will present the effect of integrated chickpea crops in the rotational systems on the economic profitability in the organic and biodynamic systems.

In both organic systems (organic and biodynamic) the gross margin increased and chickpea has shown to be more profitable than growing wheat in this rotation crop system. Overall, this study showed that planting chickpea crop in organic systems significantly increased the overall profitability of the organic system.

Keywords: Organic, Biodynamic, Conventional, Cotton, Chickpea, Wheat, Productivity, Gross Margin

Biography:

Bhupendra Singh Sisodia, have been working with a research organization as a scientific research coordinator for more than 12 years. My post-graduation is also in Agriculture. I have a great interest in the Agricultural research field.

Research Interest: To find out the more sustainable options for organic cotton rotational crop systems

E: biore.bhupendra@gmail.com