A STUDY OF FERTILISER UTILIZATION BEHAVIOUR OF FARMERS AND COMMUNICATION PATTERNS UNDER CONSTRAINTS

By

M.G. BHILEGAONKAR

A thesis submitted to the Faculty of the Post-Graduate School,
Indian Agricultural Research Institute, New Delhi,
in partial fulfilment of the requirements for
the degree of

DOCTOR OF PHILOSOPHY

IN

AGRICULTURAL EXTENSION

New Delhi

1976

Approved by :

Chairman : ..... (Dr. K.N. Singh)

Members : 1. ..... (Dr. S.N. Singh)

2. ..... (Dr. K.N. Singh)

3. ..... (Mr. K.V. Sathe)

CERTIFICATE OF AUTHENTICATION

I do hereby declare that the copy of the thesis submitted to the ICSSR is an authenticated copy of my ~~app~~ thesis approved for the award of degree of, Doctor of Philosophy by the University of Indian Agricultural Research Institute New Delhi 110012

SIGNATURE.

Date :- 8/3/99

(M.G. Bhilegaonkar)

PROFESSOR

University Department of Extension Education

Marathwada Krishi Vidyapeeth... Maharashtra

CERTIFICATE

I hereby certify that this thesis entitled "A Study of Fertiliser Utilisation Behaviour of Farmers and Communication Patterns Under Constraints", submitted in partial fulfilment of the requirements for the award of the degree of Doctor of Philosophy to the Post-graduate School, Indian Agricultural Research Institute, New Delhi, is a record of bona fide research work carried out by Shri M.G. Bhilegaonkar under my guidance and supervision. No part of the thesis has been submitted for any other degree or diploma. Such help or source of information, as has been availed of during the course of investigation, has been duly acknowledged by him.

Dated the 11th October, 1976

(K.N. Singh)
Chairman
Advisory Committee
and
Head of the Division of
Agricultural Extension,
I.A.R.I., New Delhi-110 012

ACKNOWLEDGEMENTS

I express my sincere and deep felt sense of gratitude to Dr. K.N. Singh, M.S., Ph.D. (Wisc.), U.S.A., Chairman Advisory Committee and Head of the Division of Agricultural Extension, Indian Agricultural Research Institute, New Delhi, for his learned counsel, untiring attention, valuable guidance and healthy suggestions all along during the investigation and organisation of this thesis.

My sincere thanks are due to Dr. S.N. Singh, Senior Agricultural Communication Specialist, Dr. K.N. Singh, Agronomist (Barley), Indian Agricultural Research Institute, New Delhi and Shri K.V. Sathe, Scientist (programming), Institute of Agricultural Research Statistics, members of my Advisory Committee for their valuable suggestions, able and unhesistant guidance.

I am also grateful to Dr. P.N. Mathur, Audio visual Aids specialist and Dr. B.P. Sinha extension specialist (TV), Division of Agricultural Extension for their timely advice and suggestions in preparation of this dissertation.

My colleagues who most generously have read, commented on and otherwise helped in the preparation of this report are Shri V.R. Kubde and Shri D.S. Mahajan and many others. To all of them I owe my gratitude.

I am grateful to respondent farmers and extension personnel who have supported for the research base.

I am deeply indebted to Marathwada Agricultural University, Parbhani for sponsoring me at Indian Agricultural Research Institute, New Delhi for Doctoral programme.

Finally, I am highly appreciative of the personal sacrifices of my children Deepak, Santosh and Prasad. To my wife Sou. Rajani Bhilegaonkar, I owe much for the encouragement given and for shouldering the family responsibilities.

(M.G. Bhilegaonkar)

New Delhi,

October 11th, 1976

CONTENTS

LIST OF TABLES

LIST OF TABLES CONTD.

LIST OF FIGURES