

SMALL-SCALE POULTRY PRODUCTION

FAO ANIMAL PRODUCTION AND HEALTH



SMALL-SCALE POULTRY PRODUCTION

technical guide

E.B. Sonaiya
S. E. J. Swan



E.B. Sonaiya
S. E. J. Swan



DISCOVERY PUBLISHING HOUSE

4831/24, Ansari Road, Darya Ganj
New Delhi-110002 (India)
Phone: 23279245, Fax.: 91-11-23253475
E-mail: dphbooks@rediffmail.com
dphtemp@indiatimes.com

ISBN 978-81-8356-243-0



9 788183 562430

7
pr
all
de
fe
ht
di
de
se
st
pi
k
v
sj
ii

cience.
geria.
altant.
-243 0

SMALL-SCALE POULTRY PRODUCTION

Technical Guide

By

E.B. Sonaiya

*Department of Animal Science
Obafemi Awolowo University
Ile-Ife, Nigeria*

and

S.E.J. Swan

*Village Poultry Consultant
Waimana, New Zealand*



DISCOVERY PUBLISHING HOUSE
NEW DELHI-110002

Published by arrangement with the Food and Agriculture Organization of the United Nations by Discovery Publishing House FOR SALE AND DISTRIBUTION IN INDIA ONLY

This Book was Originally Published by the Food and Agriculture Organization of the United Nations (FAO).

The designations employed and the presentation of material in this information product do not imply the expression of any opinion whatsoever on the part of the Food and Agriculture Organization of the United Nations concerning the legal or development status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

© FAO

First Indian Edition-2007

ISBN 978-81-8356-243-0

All right reserved. Reproduction and dissemination of material in this information product for educational or other non-commercial purposes are authorized without any prior written permission from the copyright holders provided the source is fully acknowledged. Reproduction of material in this information product for resale or other commercial purposes is prohibited without written permission of the copyright holders.

Published by

DISCOVERY PUBLISHING HOUSE

4831/24, Ansari Road, Prahlad Street, Darya Ganj, New Delhi-110002 (India)

Phone: 23279245 • Fax: 91-11-23253475

E-mail: dphbooks@rediffmail.com, dphtemp@indiatimes.com

Printed at:

Sachin Printers, Delhi

FOREWORD

Keeping poultry makes a substantial contribution to household food security throughout the developing world. It helps diversify incomes and provides quality food, energy, fertilizer and a renewable asset in over 80 percent of rural households.

Small-scale producers are however constrained by poor access to markets, goods and services; they have weak institutions and lack skills, knowledge and appropriate technologies. The result is that both production and productivity remain well below potential and losses and wastage can be high. However, adapted breeds, local feed resources and appropriate vaccines are available, along with proven technologies that can substantially improve productivity and income generation.

FAO recognizes the important contribution that poultry can make to poverty alleviation and has programmes that focus on small-scale, low-input, family based poultry production. These programmes target the more vulnerable households especially those affected by natural disasters, HIV Aids and conflict. This manual provides a comprehensive and valuable technical guide for those in government service or aid agencies, wishing to embark on projects that exploit the potential of small-scale poultry production to improve the livelihoods of the rural poor. All aspects of small-scale poultry production are discussed in this book including feeding and nutrition, housing, general husbandry and flock health. Regional differences in production practices are described.

FAO acknowledges and commends the effort that the authors have put into making such a comprehensive and valuable reference for those involved in poultry production in the developing world. The views expressed are, however, those of the authors and do not necessarily reflect those of FAO. Members of the International Network for the Development of Family Poultry (INFPD) have been involved in producing and reviewing this document and their contribution is also gratefully acknowledged. A major aim of the INFPD is to bring together and disseminate technical information that supports small-scale poultry producers throughout the world.

Contents

| | |
|--|-----|
| Chapter 1 | 1 |
| INTRODUCTION | |
| Chapter 2 | 7 |
| SPECIES AND BREEDS | |
| Chapter 3 | 13 |
| FEED RESOURCES | |
| Chapter 4 | 23 |
| GENERAL MANAGEMENT | |
| Chapter 5 | 37 |
| INCUBATION AND HATCHING | |
| Chapter 6 | 41 |
| HEALTH | |
| Chapter 7 | 57 |
| BREED IMPROVEMENT | |
| Chapter 8 | 63 |
| PRODUCTION ECONOMICS | |
| Chapter 9 | 67 |
| MARKETING | |
| Chapter 10 | 83 |
| RESEARCH AND DEVELOPMENT FOR FAMILY POULTRY | |
| BIBLIOGRAPHY | 109 |