

Bombay Province

Agriculture Dept.

Annual Report

1940/41

## CONTENTS.

### CHAPTER I.

	PARAS.	PAGES.
<b>Features of the year—</b>		
The Agricultural Year, 1940-41—Climate and rainfall .. .. .	1	1
Crop statistics—areas .. .. .	2	2
Crop statistics—production .. .. .	3	3
Crop prices .. .. .	4	5
Agricultural legislation .. .. .	5	6

### CHAPTER II.

<b>Agricultural Research—</b>		
Introduction .. .. .	6-7	7

#### SECTION A.

<b>Soil and Irrigation Research—</b>		
A. The Bombay-Deccan Sugarcane Research Scheme, Padegaon .. .. .	8	9
B. The Bombay Dry Farming Research Scheme, Sholapur and Bijapur .. .. .	9	11

#### SECTION B.

<b>The Improvement of crops—</b>		
A. <i>Cotton</i> —		
Gujarat—		
Surat—Botanical work on cotton improvement .. .. .	11	13
Broach—Broach Cotton Breeding Scheme .. .. .	12	13
Viramgam—Scheme for improvement of Wagad cottons .. .. .	13	14
Khandesh—		
Jalgaon—Khandesh Cotton Breeding Scheme .. .. .	14	15
Southern Division—		
Dharwar—Botanical work on cotton improvement .. .. .	15	15
Miscellaneous—		
Research work on cotton wilt disease .. .. .	16	16
Interspecific hybridization work, Surat .. .. .	17	16
Cotton Agronomy .. .. .	18	17
B. <i>Rice</i> —		
Karjat and Vadgaon .. .. .	20	17
Mugad .. .. .	21	18
Kumpts and Ratnagiri .. .. .	22	18

CHAPTER II—*contd.*SECTION B—*contd.*

The improvement of crops— <i>contd.</i>				PARAS.	PAGES,
C. <i>Wheat</i>	..	..	..	23	19
-D. <i>Other Cereals</i>	..	..	..	25	20
E. <i>Tobacco</i> —					
Nadiad	..	..	..	27	20
Nipani	..	..	..	28	21
F. <i>Other Crops</i> —					
Linseed	..	..	..	29	22
Castor	..	..	..	30	22
Other oil-seed crops	..	..	..	31	22
Gram	..	..	..	32	22
Tur	..	..	..	33	22
Potatoes	..	..	..	34	23
Sugarcane	..	..	..	35	23
Groundnut	..	..	..	36	23
G. <i>Grazing and Fodder Crops</i> —					
Provincial and District Fodder and Grazing Committees	..	..	..	38	24

## SECTION C.

## Livestock Research Work—

Cattle	..	..	..	39	24
Sheep	..	..	..	40	25
Poultry	..	..	..	41	26
Goats	..	..	..	42	26
Bees	..	..	..	43	27

## SECTION D.

## Miscellaneous Research Work—

(1) <i>Horticultural Research</i> —					
Cold Storage Research Scheme, Ganeshkhind	..	..	..	44	27
Government Fruit Experimental Station, Ganeshkhind	..	..	..	45	28
(2) <i>Research work in Agricultural Engineering</i>					
	..	..	..	46	28
(3) <i>Research Work in Crop Protection</i> —					
Against Plant Diseases	..	..	..	48	29
Against Insect Pests	..	..	..	49	32
(4) <i>Agricultural Economics and Marketing</i>					
	..	..	..	50	33

## SECTION E.

## Further Research Schemes—

Imperial Council of Agricultural Research	..	..	..	51	33
Indian Central Cotton Committee	..	..	..	52	34
Sir Sassoon David Trust Fund, Bombay	..	..	..	53	35
Sugar Excise Fund	..	..	..	54	35

CONTENTS.

iii

CHAPTER III.

Livestock Work—	PARAS.	PAGES.
Introduction .. .. .	55	36
Premium Bulls .. .. .	56	36
His Excellency the Viceroy's Gift Bull Scheme .. .. .	57	37
Scheme for Buffalo Breeding and Improvement .. .. .	58	37
Application of Livestock Improvement Act, 1933 .. .. .	59	37
Co-operation with Gowshalas and Panjarpoles .. .. .	60	37
Cattle Shows, Rallies and Demonstrations .. .. .	61	38
Advisory and Propaganda work in the districts .. .. .	62	38
Formation of Milk Recording Societies .. .. .	63	38
Definition of Breed Characteristics .. .. .	64	39
Poultry Improvement in villages .. .. .	65	39
Egg Marketing Scheme, Belgaum .. .. .	66	40
Egg Producers' Association, Satara district .. .. .	67	40

CHAPTER IV.

Agricultural Service and Propaganda—	PARAS.	PAGES.
Introduction .. .. .	68	41
Seed Supply—		
Cotton .. .. .	70	41
Rice .. .. .	74	43
Other crops .. .. .	75	43
Taluka Demonstration Centres .. .. .	76	44
Crop Protection—		
Against wild animals .. .. .	77	44
Against plant diseases and insect pests .. .. .	78	45
Agricultural Engineering .. .. .	79	45
Poona Agricultural College—services rendered to the public by Heads of Sections .. .. .	80	46

CHAPTER V.

Agricultural Education—	PARAS.	PAGES.
The College of Agriculture, Poona .. .. .	81	47
District Agricultural Schools .. .. .	82	48
Agricultural Bias Classes .. .. .	83	48
Special Agricultural Training Courses .. .. .	84	48
Rural Assistants' Training Centres .. .. .	85	49

CHAPTER VI.

Administration and Finance—	PARAS.	PAGES.
Introduction .. .. .	86	50
A. ADMINISTRATION—		
Staff .. .. .	87	52
Retirements .. .. .	88	53
Obituary .. .. .	89	53
B. FINANCE—		
Departmental Expenditure and Receipts .. .. .	90	54
Subsidies and Grants .. .. .	91	54
Personal Ledger Account .. .. .	92	59

## APPENDICES.

	PAGES.
A—Summary of work done under the Deputy Director of Agriculture, Southern Division .. .. .	61
B—Summary of work done under the Deputy Director of Agriculture, Northern Division .. .. .	84
C—Summary of work done under the Livestock Expert to the Government of Bombay, Poona .. .. .	100
D—Summary of work done at the Poona College of Agriculture .. .. .	128
E—Summary of work done under the Professor of Agriculture, Agricultural College, Poona .. .. .	134
F—Summary of work done under the Plant Pathologist to the Government of Bombay, Poona .. .. .	140
G—Summary of work done under the Economic Botanist to the Government of Bombay, Poona .. .. .	150
H—Summary of work done under the Agricultural Chemist to the Government of Bombay, Poona .. .. .	156
I—Summary of work done under the Crop Botanist to the Government of Bombay, Karjat .. .. .	159
J—Summary of work done under the Agricultural Engineer to the Government of Bombay, Poona .. .. .	165
K—Summary of work done under the Horticulturist to the Government of Bombay Poona .. .. .	170
L—Summary of work done under the Professor of Agricultural Economics, Agricultural College, Poona .. .. .	175
M—Summary of work done under the Professor of Agricultural Engineering, Physics and Mathematics, Agricultural College, Poona .. .. .	178
N—Summary of work done under the Professor of Entomology, Agricultural College, Poona .. .. .	181