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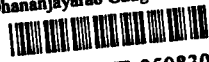
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**THE BASES OF AGRICULTURAL PRACTICE**

**THE BASES OF AGRICULTURAL  
PRACTICE AND ECONOMICS IN  
THE UNITED PROVINCES, INDIA**

BY

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With a Foreword by

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## FOREWORD

My friend, Mr. Martin Leake, has asked me to write a foreword to this volume, and I do so with much pleasure.

The work is based on the lectures delivered by the author when Principal of the Cawnpore Agricultural College, and is a valuable contribution to the study of Indian Agricultural Economics. There is an extraordinary tendency in India to get into water-tight compartments, and in nothing is such a policy more disastrous than in the teaching of agriculture. Agriculture taught as so many physical, chemical or botanical facts is but dry bones. To vitalise and energise the teaching of agriculture one must show how agriculture fits in with the ordinary economic system, and it is only as we can show its bearing on life as it is that we can expect teaching to be effective.

Again, it is of no avail to improve the outturn of the land if a business organisation does not exist to guarantee to the cultivator the full value of any improvements he may adopt. Thus, with "better farming" we must also have "better business" if the combination is to result in "better living." Till the cultivator can get facilities for the favourable disposal of his products, he is merely a producing machine at the mercy of any unscrupulous person who cares to exploit him. Fortunately the means of emancipation are now within his reach, and the co-operative movement—the underlying principles of which are very lucidly described by Mr. Leake—is rapidly gaining ground in India. The power of the village money-lender, whose business methods are ruthlessly exposed, is lessening, and we may hope that ere long the Indian cultivator will have the healthy stimulus to production which an assured and fair price guarantees.

The main feature of Mr. Leake's work is the emphasis of the economic aspect. Agriculture is depicted in its relation to the facts of life and to the community, or social fabric, as a whole. The interdependence between agricultural practice

and economic application is brought into prominence, and it is as a first serious contribution to the study of Indian agriculture in its economic bearings that we welcome this work. It should find a place not only in our Agricultural Colleges, but in the Faculties of Economics in all Indian Universities.

J. MacKENNA.

PUSA,

*March 24th, 1920.*

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AGRICULTURE is the oldest art in the world, and it has hitherto reposed mainly on experience and tradition. The day is approaching when this must be changed and the teaching of Experimental Science must be listened to even in Agriculture if we are to bear the burden of supporting the enormous and ever-growing population of to-day.

LORD MOULTON

in "Science and the Nation."

50830

# *Patanji Dharmajilney Part I.*

## CONTENTS

CHAPTER	PAGE
<b>PART I</b>	
<b>THE ORIGIN OF AGRICULTURE</b>	
I. THE FIELD COVERED BY AGRICULTURE - - -	1
II. MAN'S DEPENDENCE ON VEGETATION - - -	9
III. THE DAWN OF AGRICULTURE - - - - -	15
IV. LAND HUNGER AND CITY DEVELOPMENT - - -	21
V. THE INFLUENCE OF OPENING UP COMMUNICATIONS -	28
VI. THE FUTURE OF INDIAN AGRICULTURE - - -	35
<b>PART II</b>	
<b>THE BASIS OF AGRICULTURAL PRACTICE</b>	
VII. CULTIVATION AS IT AFFECTS THE PLANT - - -	42
VIII. THE PHYSICAL CONDITION OF THE SOIL - - -	50
IX. THE SOIL IN RELATION TO MOISTURE - - -	58
X. THE SOIL IN RELATION TO PLANT FOOD - - -	65
XI. THE BACTERIA OF THE SOIL - - - - -	73
XII. THE ATMOSPHERE AND PLANT LIFE - - - -	80
XIII. THE PLANT AND THE UNCONTROLLABLE CONDITIONS OF ITS ENVIRONMENT - - - - -	86
XIV. THE PLANT AND THE CONTROLLABLE CONDITIONS OF ITS ENVIRONMENT - - - - -	92
XV. LIMITING FACTORS AND DISEASE - - - - -	98
<b>PART III</b>	
<b>THE BASIS OF AGRICULTURAL ECONOMICS</b>	
XVI. WEALTH AND VALUE ; PRODUCTION AND CONSUMPTION -	104
XVII. LAND, LABOUR AND CAPITAL - - - - -	110
XVIII. SUPPLY AND DEMAND ; MARKETS - - - - -	116
XIX. THE OWNERSHIP OF LAND - - - - -	122
XX. LANDLORD, TENANT AND STATE - - - - -	128
XXI. AGRICULTURAL LABOUR AND CAPITAL - - - -	134

### ERRATA

CHAPTER IV., page 24, line 10, for "question" read "questions."  
CHAPTER V., page 32, line 28, for "village" read "villages."



## CONTENTS

### PART IV

#### THE DEVELOPMENT OF AGRICULTURAL PRACTICE

CHAPTER	PAGE
XXII. THE CROP - - - - -	140
XXIII. SELECTION - - - - -	147
XXIV. HYBRIDISATION, SPORTS AND ACCLIMATISATION - - - - -	154
XXV. FACTORS OF CULTIVATION; THE FALLOW - - - - -	162
XXVI. FACTORS OF CULTIVATION; INTERCULTURE AND MANURING - - - - -	170
XXVII. FACTORS OF CULTIVATION; PHYSICAL CONDITION AND SPACING - - - - -	178
XXVIII. THE EXPERIMENTAL METHOD - - - - -	186
XXIX. AGRICULTURAL POWER - - - - -	194

### PART V

#### THE DEVELOPMENT OF AGRICULTURAL ECONOMICS.

XXX. THE NEED FOR CAPITAL; FAMINE - - - - -	201
XXXI. SOURCES OF CAPITAL - - - - -	208
XXXII. FACTORS GOVERNING CAPITAL LOANS - - - - -	213
XXXIII. THE PROBLEM OF AGRICULTURAL CAPITAL - - - - -	220
XXXIV. THE PRINCIPLES OF CO-OPERATIVE CREDIT - - - - -	227
XXV. THE PRINCIPLES OF CO-OPERATIVE SALE - - - - -	234
XXXVI. ADDITIONAL OPENINGS FOR CO-OPERATIVE ACTIVITY - - - - -	240
XXXVII. THE ZEMINDAR'S ROLE IN AGRICULTURAL DEVELOPMENT - - - - -	247
XXXVIII. GOVERNMENT'S ROLE IN AGRICULTURAL DEVELOPMENT - - - - -	254
XXXIX. THE MONEY-LENDER'S ROLE IN AGRICULTURAL DEVELOPMENT - - - - -	260
XL. THE ECONOMIC ASPECT OF CATTLE - - - - -	267

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GLOSSARY - - - - -	273
INDEX - - - - -	275

50830

## GLOSSARY

ANNA.	16 annas equal one rupee ; one anna roughly equals a penny.
ARHAR.	<i>Cajanus indicus</i> , Spreng. ; the pigeon pea.
BAINSURAI.	<i>Pluchea lanceolata</i> , Oliver and Hiem.
BAJRA.	<i>Pennisetum typhoideum</i> , Rich.
BAZAAR.	Any market or collection of shops.
BHUSA.	Straw in the broken condition after the grain has been trodden out by cattle.
BUJA.	Any rick such as a hay rick.
CHARI.	<i>Andropogon sorghum</i> , Brot. when grown for fodder.
CHOWKIDARI.	The business of guarding ; from chowkidar, a watchman.
DOFASLI.	Adj., from fasli, a crop season ; a dofasli system is one in which two crops are grown on the same land in one year.
EKFASLI.	cf. dofasli ; one crop only is produced in the year under an ekfasli system.
GWALA.	A cowherd.
JHAO.	<i>Tamarix gallica</i> , Linn.
JHEEL.	A swamp.
JOWAR.	<i>Andropogon sorghum</i> , Brot.
KADIR.	The low-lying land of a river bed subject to inundation.
KANKAR.	Nodules of limestone found in the alluvial deposits of the Ganges valley ; in cases they may coalesce to form a practically continuous stratum.
KANS.	<i>Saccharum spontaneum</i> , Linn.
KAPAS.	Seed cotton.
KARINDA.	An agent.
KHARIF.	As applied to crops refers to a crop grown during the rainy season.
KHUD KASHT.	Cultivation by owner.
KHURPA.	A hand hoe.
KUCHHA.	Crude ; when applied to roads=unmetalled, e.g. a cart track.

LOHAR.	A worker in iron.
LOTAH.	A brass domestic utensil, chiefly used for holding drinking water.
MAIDAN.	A plain, open country.
MAKKAI.	<i>Zea mais</i> , Linn.
MALGUZARI.	The tax on land.
MAUND.	A variable measure, the standard maund=approx. 82 lbs.
MORUSI.	Adj. hereditary. A morusi, or occupancy, tenant is one who retains a permanent lien on his land.
PALEWAT. } PALEO. }	An irrigation applied before sowing a crop. After irrigation the land is ploughed and immediately sown.
PATHA.	A wooden beam drawn over the land to produce a tilth.
PHAORA.	A tool for digging used in the manner of an adze.
PUKKA.	Well formed; applied to a road=metalled, to a well refers to one built of masonry.
PYAZI.	<i>Asphodelus fistulosus</i> , Linn.
RABI.	As applied to crops refers to a crop grown during the cold weather.
RAYAT.	A tenant.
REH.	The salt efflorescence which appears on the surface of alkali lands.
RUI.	Cotton lint.
RUPEE.	A coin= 1s. 4d. under pre-war rates of exchange.
SAL.	<i>Shorea robusta</i> , Gaertn.
SEER.	$\frac{1}{6}$ maund; roughly two pounds. (or 40 seers = 1 maund)
SHISHAM.	<i>Dalbergia sisoo</i> , Roxb.
TAKKAVI.	A loan made by Government for a specific purpose. Takkavi loans are freely given in years of famine for building wells, purchase of seed, etc.
USAR.	Barren; usar soils are barren soils whether the cause be mechanical or chemical. Reh soils are, therefore, a particular type of usar.
ZEMINDAR.	A landholder.

## INDEX

- Agriculture, two branches of, 7, 14 ; history of, 14 ; stages in development of, 34 ; present condition of, in India, 36, 235 ; dependence of, on economic system, 40 ; dependence of, on climate, 82 *sqq.*, 151 *sqq.* ; improvements in, ch. xxvii., 259 ; and the zemindar, ch. xxxvii. ; and the Government, ch. xxxviii.
- Alkali lands, 70 *sq.*
- Artisan class, influence of, on agriculture, 25, 38
- Aspect, influence of, on crops, 84
- Atmosphere, influence of, on plant growth, ch. xii.
- Bacteria, action of, on soil, ch. xi. 167, 174 *sqq.*
- Bahraich district, the, 22
- Banking system, the, relation of, to agriculture, 39 *sqq.*
- Banks, purpose of, 40, 121 ; loans from, 213 *sqq.*, 216 *sq.* ; Central, 229 *sqq.*, 265 ; Apex, 230 ; Provincial, 231
- Batai system, the, 131 *sq.*
- Bengal, jute in, 34 ; influence of climate in, 89 *sqq.* ; Permanent Settlement of, 126 ; soil of, 180 ; famine in, 202 *sqq.*
- Bhils, the, 19
- Bullock, the, importance of, in agriculture, 194 *sqq.* ; as a power unit, 197 ; economic aspect of, 267 *sq.*
- Canal Colonies of the Punjab, the, 32, 179, 236 263 ; wheat in, 205
- Canals, communication by, 32, 137 ; Government construction of, 255
- Capital, an essential factor of production, 111, 114 *sq.*, 135 ; price of, 120 ; a form of wealth, 121 ; three classes of, 136 *sqq.* ; lack of, 207 ; sources of, ch. xxxi. ; and the money-lender, ch. xxxiii. ; provision of, 237 *sqq.* ; of the zemindar, 249 *sq.*
- Cattle, improvements in, 196 *sqq.* ; economic aspect of, ch. xl.
- Central Provinces, the, rice-growing in, 37
- Chenchus, the, 17, 36
- Chess-board system, the, 188
- City, development of, 25 *sq.* ; dependence of, on railways, 30
- Climate, the, effect of, on density of population, 22 ; governs the localisation of crops, 33 ; relation of humidity to, 82 ; influence of, on plant growth, 89 *sqq.* ; influence of, on crops, 151 *sqq.*
- Communications, *see* Transport
- Consumption, compared with production, 108 *sq.*
- Co-operative credit, ch. xxxiv., 239 ; sale, ch. xxxv. ; societies, 240 *sq.*, 244 *sqq.*, 249, 260 *sq.*, 265
- Cotton, distribution of, 33 ; inheritance in, 147 ; fertilisation in, 148 *sq.* ; selection in, 154 *sqq.* ; Egyptian, 160 ; American, 161 ; error of experiment in, 188
- Crops, localisation of, 33 ; definition of, 42, 143 ; cultivation of, 46 *sqq.* ; choice of, 142 *sq.*, 178 ; artificial selection of, ch. xxxii. ; improvement of, 186
- Cultivation, effect of, on plant, ch. vii., 56, 89, 94 *sqq.* ; factors of, the fallow, ch. xxv. ; interculture and manuring, ch. xxvi. ; physical condition and spacing, ch. xxvii. ; agricultural power, ch. xxix. ; raising the unit of, 259
- Dairy produce, sale of, 246
- Demand, definition and organisation of, ch. xviii.
- Diminishing return, law of, 190
- Disease in plants, 102 *sq.*
- Drain gauges, at Cawnpore, 62, 69
- Drainage, importance of, 94, 164
- Famine, fundamental facts of, 17 ; in India, ch. xxx., 208, 257 ; cattle and, 268 *sq.*
- Fertilisation of cotton, 148 *sq.* ; of poppy, 150

- Food supply, dependence of living organisms on, ch. ii.; dependence of man on, ch. iii., 118
- Fertility, factors influencing, 65 *sq.*, 178 *sqq.*
- Ganges area, the, agriculture in 36; soil in, 66, 180; climate in, 89 *sq.*
- Gonda district, the, 22
- Gonds, the, 19
- Government, communal, 23; racial or national, 24; influence of, on agriculture and social life, 24 *sq.*, 38, 123 *sqq.*, 236, 247, ch. xxxviii. 260; as land-owner, 38, 122 *sqq.*, 127, ch. xx., ch. xxxviii.; and loans, 215; farms, 218; and seed supply, 243 *sq.*
- Grain, as basis of exchange, 23
- Haisiyat Register, the, 231
- Harrowing, effect of, 171
- Hybridisation, ch. xxiv.
- Indigo, effect of flooding on crop of, 101 *sq.*
- Inheritance, laws of, in India, 262 *sq.*
- Irrigation, 171 *sqq.*
- Jungle, cultivation in the, 22; plant growth in the, 43 *sqq.*
- Jute, production of, in Bengal, 34
- Kankar beds, 182
- Kankut system, the, 131 *sq.*
- Labour, an essential factor of production, 111 *sqq.*, 121, ch. xxi.; as agricultural power, ch. xxix.
- Land, ownership of, 5, 19, 23, 25, 38, chs. xix., xx., 257; price of, 25, 31, 134, 257; an essential factor of production, 111 *sq.*, 126; as a form of wealth, 112, 120; classification of, 178 *sqq.*
- Maize, fertilisation of, 150
- Man, dependence of, on vegetation, ch. ii.; and beginnings of agriculture, ch. iii.; use of implements by, 194
- Manures, effect of, 175 *sqq.*; experiments with, 189; 219
- Market, the, definition of, 118 *sq.* importance of, 202, 208
- Moghul Empire, the, land administration under, 125, 129 *sq.*
- Moisture, and plant food, 50, 64, 88 *sq.*, 93, 98, 171, 178; in relation to soil, ch. ix.; in the atmosphere, ch. xii.; 163; conservation of, 165 *sqq.*, 186
- Money, as basis of exchange, 27, 38 *sq.*, 107; as capital, 210 *sq.*
- Money-lender, the, 138 *sq.*, 211, 215, ch. xxxiii.; and co-operative credit, 229; and seed supply, 244; and agricultural development, 265 *sq.*
- Nitrates, *see* Nitrogen
- Nitrification, defined, 74; process of, ch. xi.
- Nitrogen, importance of, as plant food, 65, 73 *sqq.*, 167, 174; and manures, 175 *sqq.*; experiments with, 189 *sqq.*
- Pitting, and green manuring, 177
- Plants, man's dependence on, ch. ii.; effect of cultivation on, ch. vii.; dependence of, on soil, chs. viii.-xi.; on atmosphere, ch. xii.; growth of, ch. xiii.; effect of ploughing on growth of, 95 *sq.*; limiting factors of growth of, ch. xv.; improvements of, *see* Selection
- Ploughing, effect of, 165, 167 *sq.*, 218; and green manuring, 176 *sq.*
- Ploughs, types of, 167 *sq.*, 195
- Power, agricultural, ch. xxix., 251
- Production, compared with consumption, 108 *sqq.*; essential factors of, ch. xvii., 116; improvements in, 141 *sq.*
- Punjab, the, production of wheat in, 33, 91, 205; agricultural progress in, 36; influence of climate in, 89 *sqq.*, 179; *see also* Canal Colonies
- Purity, in race-selection, 149 *sqq.*
- Races of wheat, 91, 143 *sqq.*, 153
- Railway, communication by, 28 *sqq.* 35, 255
- Rayat, the, and land-ownership, 122 *sq.*, 127, ch. xx.
- Reh lands, 181 *sq.*
- Rent, and land-ownership, 122; definition of, 131; extortion of, 132, 248 *sq.*

- Rice, transplanting of, in Central Provinces, 37; and oxygen, 94, 164  
 Road, communication by, 28 *sqq.*, 252
- Scatter plots, experiments with, 188  
 Seed Supply Societies, 244  
 Seedsman, business of, 241 *sqg.*  
 Selection, natural, 43 *sqg.*, 46 *sqg.*; artificial, 47 *sq.*, ch. xxiii., 154  
 Soil, the, composition of, ch. viii.; and moisture, ch. ix. 81, 88; and plant food, ch. x.; bacteria of, ch. xi.; cultivation of, chs. xxv., xxvi., xxvii.; varieties of, in India, 179 *sqg.*  
 Spacing of crops, 182 *sqg.*  
 Sports, occurrence of, 160  
 Stall-feeding of cattle, 270  
 State, *see* Government  
 Sub-division of holdings, 230 *sq.*, 261 *sqg.*  
 Sugar-cane, 81; propagation of, 159 *sq.*  
 Supply, definition and organisation of, ch. xviii.; and price, 206
- Taxation of land, 124 *sqg.*, 128, 256, 261  
 Temperature, and plant growth, 81 *sqg.*, 98 *sq.*, and weathering, 165  
 Town, *see* City  
 Trade, beginnings of, 25 *sqg.*, 38 *sq.*
- Transport, development of, ch. v.; of raw material, 31; influence of, on agriculture, 35; influence of, on famine, 206, 208; cost of, 209, 255
- United Provinces, the, roads in, 29; agriculture in, 32 *sq.*, 46, 100, 164; alkali lands in, 70; influence of climate in, 39 *sq.*; cotton in, 91, 188; land-ownership in, 126, 235; wheat growing in, 152 *sq.*; Usar lands in, 179 *sqg.*; famine in, 204 *sq.*  
 Usar lands, the, 179, 181  
 Usury, practice of, 138 *sq.*, 223, 265
- Wage, the price of labour, 121, 135  
 Wealth, definition of, 105 *sq.*; compared with capital, 115, ch. xxxi.  
 Weathering, 55; and plant food, 67 *sqg.*, 97  
 Wheat, in the Punjab, 33; yield of, 100; effect of irrigation on growth of, 101; rust in, 103; races of, 143 *sqg.*, 153; inheritance in, 147; fertilisation of, 148 *sqg.*; in Canada, 160; growth of, 173 *sq.*; experiments in, 186 *sqg.*; price of, 206  
 Wood, as potential wealth, 110 *sq.*
- Zemindar, the, interests of, 122, 127, ch. xx.; and agricultural development, ch. xxxvii., 257 *sq.*

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