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# AGRICULTURE IN MYSORE

DEPARTMENT OF AGRICULTURE

MYSORE STATE

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# REPORT

ON

## THE PROGRESS OF AGRICULTURE IN MYSORE

*(Second and revised edition)*



BANGALORE :

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## PREFACE TO THE SECOND EDITION.

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The first edition of this Hand Book was published more than twelve years ago on the occasion of the visit to the State of the Royal Commission on Agriculture in India. The object of the publication was to acquaint the members of the Commission with facts and figures pertaining to agricultural conditions in the State, indicating the lines of improvement that were being attempted by the department and the results that had been achieved till then. Besides serving the purpose indicated above, for which it was specially written, the book has been of considerable help to all the Officers of the department, engaged each in his own line of work, in giving them that comprehensive view of the work of the department as a whole that is so essential for a proper co-ordination of their individual efforts in achieving the common goal of all, *viz.*, the improvement of the lot of the Mysore raiyat.

Officers of other departments and non-officials interested in agricultural improvement in the State have also found it a valuable book of reference.

Marked improvements have been effected in the agricultural practices of the State during the last twelve years and considerable progress has been made in almost every line of work the department has been pursuing.

The following are but a few of the outstanding items that deserve mention in this connection :—

(i) Soil survey of the Irwin Canal Tract, the establishment of the Irwin Canal Farm and the phenomenal expansion in the cultivation of sugarcane which has resulted in the starting and successful working of one of the biggest Sugar Factories in India.

(ii) A state-wide survey of soils and conditions suitable for tobacco and the introduction into cultivation

on over 5,000 acres of a new variety of cigarette tobacco with the aid of the Mysore Tobacco Company.

(iii) The starting of a Cattle Breeding Station at Ajjampur for a more intensive work on cattle breeding both for draught and milk.

(iv) The starting of the Serum Institute which has enabled the Civil Veterinary Department to tackle cattle diseases and epidemics more effectively and expeditiously.

(vi) Large scale production of clean jaggery which promises to increase the profits from sugarcane cultivation by at least 15 per cent in localities not served by the Sugar Factory

(vii) Attempts at popularising the manufacture of compost from farm refuse which, should they succeed, promise to confer a double blessing on the rural population of the State by enabling them to keep their surroundings clean and healthy and at the same time adding to their stock of valuable organic manure.

The demonstration staff of the department has been considerably strengthened and arrangements made to carry successful results of research to the very doors of the raiyats by thousands of demonstration plots distributed all over the State.

All these and other changes that have taken place during the last twelve years have been incorporated in the present revised edition.

It is earnestly hoped that this second edition of "*Agriculture in Mysore*" will be found as useful as the first to all those that are interested in, and working in several different ways for, the betterment of the Mysore raiyat.

Before concluding I desire to make special mention of the retirement from service in February 1934 of Dr. Leslie C. Coleman the first Director of Agriculture in Mysore, who organised the department in its present form and guided almost every line of its varied activities for over twenty-five years. The good work recorded in these pages is due as much to the solid foundations laid by Dr. Coleman and the far-sighted policy pursued by him as to the willing and loyal co-operation he had from his colleagues.

The policy and programme of the department continue on the general lines chalked out by Dr. Coleman and I confidently hope that with the increased interest that Government and other public bodies have of late been evincing in Agriculture and Rural Development, the Department of Agriculture in Mysore will avail itself to the full of the numerous opportunities it now has for useful service in the cause of agricultural improvement.

BANGALORE, }  
*9th February 1939.* }

T. G. RAMA IYER,  
*Director of Agriculture.*

## PREFACE TO THE FIRST EDITION.

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The object of this Handbook is to give a rough outline of the work of the Agricultural Department since its inception ; while the present organisation as a Department was sanctioned in 1914 the period covering the activities which led up to the present organisation lies between 1900 and 1914 and this period is included so that the actual report covers the years from 1900 onward.

There have, however, been many interesting, though periodic, activities in Botanical, Horticultural and Agricultural work dating back as far as the latter part of the 18th century and which have influenced later work, so that for this reason and for historical completeness, I think it advisable to give a short account in this introductory chapter.

Both Hyder Ali and his son Tipoo Sultan did much to improve Agriculture and Horticulture. The development of the Amrut Mahal Breed of cattle dates from that time. Sugarcane was brought from the low countries and some of Tippoo's officers from Mauritius brought new varieties from that country.

Hyder Ali established the Lal-bagh at Bangalore and Tipoo greatly developed it. Fruit cultivation was encouraged and grafting practiced and some of the old mango trees are even to-day standing as witnesses of those days.

After the fall of Seringapatam, the Lal-bagh was placed in charge of the East India Company Botanist and many varieties of vegetable and fruits were introduced and grown.

In 1819, Major Waugh, in a memorial sent through Mr. Cole, the then Resident at Mysore, offered the Lal-bagh, as his garden, to the Government of Fort St. George. The Governor-General (the Honourable Marquis of Hastings) accepted the gift and after consultation with Dr. Wallich directed that the garden should be placed

under the administration of the Calcutta Botanic Garden and the maintenance be paid from Imperial funds.

In 1836, Sir Mark Cubbon started a Horticultural Society to whom His Highness the Maharaja Sri Krishna Raja Wodeyar III, made over the garden. The Society ceased, however, to exist in 1842 and the garden reverted to Government. In 1857, on the recommendation of Dr. Hugh Cleghorn, the garden was constituted as a Government Botanic garden and Mr. New was sent out from Kew as the first Superintendent. He brought out a number of Australian plants from Kew and others were, in the subsequent years, introduced. The large *Araucaria*, *Eucalyptus*, *Grevillas*, *Dalbergias* and *Casuarinas* date from that time.

In 1862, an Italian gentleman, Signor de Vicchy introduced a number of varieties of mulberry plants and some improved races of Japanese Silkworms, but the work seems to have been dropped as the disease then prevailing among the silkworms could not be eradicated.

Some attention was paid to the improvement of pasture and the introduction of Australian Rams by Sir Mark Cubbon but this was abandoned in 1862.

In 1869, the then Conservator of Forests Mr. Von Somerin did a good deal in the study of the indigenous Flora of Mysore and had published a booklet on the trees of Coorg. The Forest Department, as then constituted, was abolished as a separate department in 1878 and was attached to the then Agricultural Department, but was revived in 1895.

During that time an agricultural farm was opened under one Mr. Hermann very near to the present Sunkal Experimental Farm but was subsequently abandoned.

In 1874, after the death of Mr. New, Mr. Cameron was appointed as Superintendent of the Lal-bagh and with Mr. Rickets, who was then Conservator of Forests and also acted in Mr. Cameron's place during 1886-87, much useful work was done. The Hebbal Butts plantation was then established and many new trees introduced, such as Rain tree, Ceara Rubber, Shingle tree, etc. Considerable work was done in the introduction and distribution of imported good varieties of potatoes and the kidney variety, now largely grown, still goes under the name of "Ricket". Mr. Cameron continued to be in charge of the Lal-bagh till



his retirement in 1908. During his time a great amount of useful economic work was done in the introduction and cultivation of fruits and vegetables, cottons, coffee grafting experiments, introduction of sisal hemp, etc., as also in the development of the ornamental side of the Lal-bagh. The area of the Botanic Garden was extended from about 50 acres to 100 acres which is the present area of the Lal-bagh, and a number of new parks were laid out. A large conservatory costing Rs. 75,000 was built in 1889 in Lal-bagh. Mr. Cameron also compiled a Catalogue of plants in the Botanic Garden and its vicinity. The preparation of the botanical drawings was started. A school for Apprentice Gardeners was opened.

In 1899, Dr. Lehmann was appointed as Agricultural Chemist and on his work (separately described) is based the formation of the present Agricultural Department.

With the appointment in 1908 of the undersigned as Economic Botanist and Superintendent, Government Gardens the development of Horticulture and Economic work was organised on its present lines which is described in one of the following chapters.

In the following notes, the chapters dealing with the work of the different sections and allied departments have been written up by the officers in charge and the general compilation has been in the hands of the Deputy Director Mr. Yegnanarayana Iyer.

G. H. KRUMBIEGEL,  
*Offg. Director of Agriculture.*

## CONTENTS.

CHAPTER.	PAGE.
I. The Agricultural features of Mysore: a brief description. ...	1
II. Lines of improvement and work accomplished ...	12
III. The Department of Agriculture and allied Agencies...	27
IV. Resumé of work of Sections	
Research :--	
1. Chemical Section ...	32
2. Entomological Section ...	42
3. Mycological Section ...	51
4. Botanical Section ...	58
5. Agricultural Engineering Section ...	104
V. Research ( <i>Continued</i> )	
The Experimental Farms :--	
(a) The Hebbal Farm ...	106
(b) The Marthur Farm ...	108
(c) The Babbur Farm ...	109
(d) The Paddy Breeding Station ...	112
(e) The Coffee Experimental Station ...	113
(f) The Kar Ragi Breeding Station ...	116
(g) The Irwin Canal Farm ...	116
VI. Extension, Popularisation or District Work ...	120
VII. Agricultural Education ...	131
VIII. Department of Sericulture ...	136
IX. The Civil Veterinary Department ...	151
X. The Live Stock and Amrit-Mahal Department ...	156
XI. The Serum Institute ...	162
XII. The Department of Horticulture ...	166
XIII. Agricultural Co-operation ...	187
XIV. Publications and the Agricultural Press ...	191
XV. Summary and Conclusions ...	195

APPENDICES.		PAGE.
I.	Map showing the location of the Farms, Laboratories, Schools, Depots and other institutions of the Department of Agriculture.	
II.	Personnel of the present staff of the Department of Agriculture. ...	201
III.	Diary abstract headings of the Agricultural Inspectors. ...	209
IV.	List of publications of the Department of Agriculture	210

## APPENDIX II.

DEPARTMENT OF AGRICULTURE IN MYSORE,  
BANGALORE.

## STAFF.

## DIRECTION.

Messrs.—

- T. G. Rama Iyer, B.A., Director of Agriculture.  
 Venkata Rao K. Badami, L.Ag., Ph.D. (Cantab.), Deputy Director.  
 B. Sankara Rao Badami, M.A., Headquarter Assistant.  
 N. Venkataramaiah, B.Sc., Manager.

*Publication and Library.*

- Mr. N. Venkatasubbaiya, F.B.H.S., Agricultural Inspector in charge of  
 Kannada Publications, Secretary, Agricultural and Experimental  
 Union and Officer in charge, Library.

*Statistician.*

- Mr. A. Ananthapadmanabha Rao, B.A., Department of Agriculture.

## CHEMICAL SECTION.

Messrs.—

- K. Bhima Rao, B.A., Agricultural Chemist.  
 B. T. Narayanan, B.A., Ph.D., D.I.C., Bio-Chemist.  
 M. Subbaiya, B.A., Assistant Chemist.  
 D. Hanumanthiah, B.A., B.Ag., Assistant Chemist.  
 B. Dasappa, B.A., B.Ag., Ph.D., (O.O.D., Assistant Director, Bangalore).  
 N. G. Chokkanna, M.Sc., Ph.D., Offg. Assistant Chemist.  
 S. Ramaswamy Sastry, Analyst (O. O. D., Mysore City Municipality).  
 G. P. Krishnaiyengar, B.Sc., Analyst.  
 B. Bhimasena Rao, B.Sc., Analyst (Offg.).  
 K. R. Anantaramiah, B.A., Analyst (Offg.).  
 K. Lakshminarayana Bhatta, B.Sc., Assistant Chemist, Fish Poisons Scheme.

## MYCOLOGICAL SECTION.

Messrs.—

- M. J. Narasimhan, B.A., Mycologist.  
 S. V. Venkatarayan, B.A., Senior Assistant Mycologist.  
 D. Gundu Rao, B.Sc., Junior Assistant Mycologist (Tirthahalli Circle).  
 N. S. Venkatakrishniah, B.Sc., Junior Assistant Mycologist.

*Artists.*

Messrs.—

- M. Ranganaikalu Naidu, Senior Artist. (On leave Preparatory to retirement.)  
S. Shadagopa Mudaliar, Assistant Artist.

## ENTOMOLOGICAL SECTION.

Messrs.—

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B. Krishnamurthy, B.Sc., Senior Assistant Entomologist.  
D. Seshagiri Rao, B.Sc., Junior Assistant Entomologist (Mandya).  
H. A. Abdur Rubb, B.Sc., Junior Assistant Entomologist, Chikmagalur.  
M. Puttarudriah, B.Sc. (Hons.), Junior Assistant Entomologist (Fish Poison Scheme).  
S. V. Vasudevan, M.Sc., Junior Assistant Entomologist (Offg.).

## BOTANICAL SECTION.

Messrs.—

- Venkata Rao K. Badami, L.Ag., Ph.D. (Cantab.), Deputy Director and Principal, Hebbal Agricultural School.  
M. Narayana Reddi, B.Sc. (Edin.), Vice-Principal, Agricultural School, Hebbal.  
V. N. Ranganatha Rao, L.Ag., Senior Assistant Botanist, Assistant Director, Chitaldrug.  
S. V. Sarma, Junior Assistant Botanist, Assistant Director, Mysore.  
K. Gopala Iyengar, M.Sc., Junior Assistant Botanist.  
T. Srinivasa Murthi, M.Sc., Junior Assistant Botanist (In charge Babbur Farm).  
K. Subba Rao, B.Sc., Agricultural Inspector, I/C Kar Ragi Breeding Station, Hunsur.  
A. Krishnaswami Iyengar, L.Ag., Agricultural Inspector, Paddy Breeding Station, Nagenahalli.  
N. Ramanna, B.Ag., Agricultural Inspector, Hebbal.  
R. S. Iyengar, B.Ag., Agricultural Inspector, Hebbal Agricultural School.  
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*Imperial Research Council Sugarcane Scheme.*

Messrs.—

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M. L. Subbanna, B.Sc. (Hons.), Junior Assistant Botanist.  
G. Srinivasa Iyengar, M.Sc., Junior Assistant Botanist, Mysore Doddahatti Scheme.  
S. G. Narasimbachar, M.Sc., Field Assistant, Mysore Doddahatti Scheme.

## EXPERIMENTAL SECTION.

Messrs.—

- Gundappa S. Kurpad, B.A., Senior Assistant Director, Kolar Circle.  
K. H. Srinivasan, M.A., B.Sc. (Edin.), Senior Assistant Director, Chikmagalur.  
C. Ellappa Chetty, L.Ag., Assistant Director, Tumkur.  
V. N. Ranganatha Rao, L. Ag. Chitaldrug.  
S. H. Bennur, L.Ag. (O. O. D., Mysore Sugar Company).  
B, Dasappa, B.A., B.Ag., Ph.D., Assistant Director, Bangalore.

## Messrs.—

- C. V. Ramiiah, Assistant Director (O. O. D., Mysore Tobacco Co.)  
 K. Krishna Murthy, Assistant Director, Mandya.  
 S. V. Sharma, Assistant Director, Mysore.  
 H. Venkoba Rao, Hassan.  
 K. A. Krishnan, Shimoga.

## AGRICULTURAL INSPECTORS ON DISTRICT WORK.

## Messrs.—

- C. V. Krishna Rao, Agricultural Inspector, Channapatna.  
 B. Srinivasiengar, L.Ag., do Davangere.  
 D. Balakrishna Rao, do Mysore.  
 T. J. Narasoji Rao, do Magadi.  
 B. R. Gopala Rao, do Devanhally (on leave.)  
 Bapu Shama Rao, L.Ag., do Kolar.  
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 S. Rangaswamy do Education Department.  
 M. Krishnamurthy, do Challakere.  
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 T. C. Thimmaiah, L.Ag., do Saklespur.  
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 Grass Farm (Military Department).  
 S. V. Haridas, L.Ag., Agricultural Inspector, Sagar.  
 B. Narasimha Murthy Rao, do Tumkur.  
 H. Venkataramaniah, do Chamaraajnagar.  
 M. B. Ranganatha Rao, L.Ag., do Hole-Narsipur  
 K. Chayapathy, do Tiptur.  
 M. S. Ramachandra Rao, L.Ag., do Chikmagalur.  
 K. Ramaiyer, do Goribidnur.  
 K. Narayanachar, do Marthur Farm.  
 M. V. Suryanarayan Rao, do Nanjangud.  
 K. V. Ramaswamy, do Bowringpet.  
 P. Kalingappa, L.Ag., do Irwin Canal Farm.  
 N. Sreenivasa Murthy, do Tarikere.  
 D. Srikantaiah, do Chitaldrug.  
 N. C. Madan Gopal, do Holalkere.  
 K. A. Krishnan, do O. O. D., Assistant Director,  
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 H. Venkoba Rao do O. O. D., as Assistant Director,  
 Hassan.  
 K. Ramachandra Iyer, do Chintamani.  
 G. Sundararaja Iyengar, do Mandya.  
 C. J. Madhwaraj, do O. O. D., Industries and Com-  
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 D. C. Rayalu, L.Ag., do Dodballapur.  
 H. G. Hanumiah Setty, do Mysore Sugar Company.  
 H. M. Subbiah, L.Ag., do do  
 K. Nagesha Rao, L.Ag., do do  
 H. Seshagiri Prabhu, L.Ag., do do  
 H. Shaikaranarayana, do S. K. V. D. Patasala.  
 M. Vasudevamurthy, do Koppa.

## Messrs.—

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M. Padmanabhasetty,	do Channagiri.
H. Padmanabha Rao,	do Kunigal.
C. Venkatachalaiah,	do Bagepalli.
V. S Ponnurangum,	do S. K. V. D. Patasala, in charge of Sira Range.
Syed Naziruddin	do Shimoga.
M. Abid Hussein	do Krishnaraj Nagar.
G P Visweswariah	do Krishnarajpet.
D. Venkataramanayya	do French-Rocks.
K. Anantharaja Urs	do Tirthahalli.
V. M. Gangiah	do Devanhalli.

## ENGINEERING SECTION.

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## Messrs.—

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## AGRICULTURAL SCHOOL, CHIKKENAHALLY.

## Messrs.—

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## AGRICULTURAL SCHOOL, RAMAKRISHNAPUR.

## Messrs.—

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## HEBBAL FARM.

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Arcot Devaraj, B.Ag., Farm Manager.  
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A. M. Bawkar, B.Sc.

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## BOTANY SECTION.

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C. Puttiah, Agricultural Inspector.  
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## MARTHUR FARM.

Mr. K. Narayanachar, Manager.

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Messrs.—

Y. R. Narayana Rao, L.Ag., Manager.  
G. N. Kale Gowda, Assistant Manager.  
R. L. Narasimhaswamy, M.Sc., Plant Breeding Inspector.

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Messrs.—

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## HUNSUR KAR RAGI BREEDING STATION.

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## IRWIN CANAL FARM.

Messrs.—

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D. P. Lakshminarasimhayya, B.A., Agricultural Inspector (Botanical Section).

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S. B. Vasudeva Rao, L.V.P., Veterinary Inspector, Hebbal.  
R. Ramaswamy, Veterinary Inspector, Poultry Farm, Hebbal.  
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## DAROGAS.

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N. D. Venkatakrishnayya, Holalkere Range.

## KAVAL RANGERS.

Messrs.—

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S. R. Gundappa, Hunsur.  
Abdul Latiff, Arsikere.



## CIVIL VETERINARY DEPARTMENT.

Messrs.—

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- 3 Subedar T. V. Manickyaraj, G.B.V.C., do Tumkur.
- 4 N. Krishnaiengar, G.B.V.C., do Bangalore.
- 5 N. R. Srinivasa Iyengar, G.B.V.C., do Shimoga.
- 6 K. Ranganatha Rao, G.B.V.C., do Scientific Section.
- 7 Dr. P. M. Narayanaswami Naidu, B.Sc., L. V. P., Sc.D. (Germany),  
F.F.A.S. (France), Veterinary Research Officer, Serum Institute.
- 8 S. R. Bapu, G.B.V.C., V. O. Forest Department.
- 9 C. V. Govinda Rao, G.B.V.C., Office Assistant to Superintendent, C. V. D.

## VETERINARY INSPECTORS.

Messrs.—

- 1 S. R. Bapu, G.B.V.C., O. O. D., Forest Department.
- 2 C. V. Govinda Rao, G.B.V.C., Office Asst., C. V. D. Superintendent.
- 3 G. Subramanya Iyer, G.B.V.C., Sidlaghatta.
- 4 L. V. Shallam Iyengar, G.B.V.C., T-Narsipur.
- 5 C. Narayaniengar, G.B.V.C., (on leave).
- 6 N. Krishna Murthy, G.B.V.C., Chintamani.
- 7 M. R. Kenchैया, G.B.V.C., Hassan.
- 8 T. Chendu, G.B.V.C., Mysore Serum Institute.
- 9 M. Ramaswami Naidu, G.B.V.C., Madhugiri.
- 10 T. V. Venkatachalam, G.B.V.C., Hiriyyur.
- 11 C. S. Prabhakar, G.B.V.C., Davangere.
- 12 H. B. Kulkarni, G.B.V.C., Tumkur.
- 13 P. K. Shama Rao, G.B.V.C., Chitaldrug.
- 14 C. Nanjundiah, G.M.V.C., Tiptur.
- 15 B. Sheik Peer, G.M.V.C., Mysore Serum Institute.
- 16 T. Aswatha Sastry, G.B.V.C., Dodballapur.
- 17 G. V. Ramaiya, G.B.V.C., Mysore.
- 18 G. Narayana Murthy, G.B.V.C., Serum Institute.
- 19 K. Sreekantaiya, G.B.V.C., Bangalore.
- 20 V. Jagannath, G.B.V.C., O. O. D., Mysore Lancers.
- 21 S. Kalyanasundaram, G.M.V.C., Closepet.
- 22 M. Subba Rao, G.M.V.C., Kolar.
- 23 B. Venkatesaiah, G.B.V.C., Arsikere.
- 24 B. Somasundaram Pillay, G.B.V.C., Pavagada (on leave).
- 25 M. Sreekantaiya, G.B.V.C., Bagepalli.
- 26 Syed Nuruddin, G.M.V.C., (O. O. D., Palace Stables).
- 27 K. Krishna Murthy, G.M.V.C., Chikballapur.
- 28 N. Narayana Rao, G.M.V.C., Hole-Narsipur.
- 29 P. C. Adikalani, G.M.V.C., Krishnarajnagar.
- 30 Kuppaswamy Mudaliar, G.M.V.C., Mysore Serum Institute.
- 31 R. M. Purushotham Naidu, G.B.V.C., do
- 32 K. R. Ramachandra Rao, G.M.V.C., Rampur (on leave).
- 33 K. S. Gopala Rao, G.M.V.C., Tirthahalli.
- 34 H. N. Doraswamiyengar, G.M.V.C., Channapatna.
- 35 N. Seshagiri Rao, G.M.V.C., Malvalli.
- 36 K. J. Subramanyam, G.M.V.C., Mandya.
- 37 S. G. K. Iyengar, G.B.V.C., Mobile Corps (on leave).

## Messrs.—

- 38 S. M. Pantambekar, G.M.V.C., French-Rocks.
- 39 Syed Masum, G.M.V.C., Pavagada.
- 40 Syed Yusuff, G.P.V.C., Malur.
- 41 S. M. Abdul Hakim, G.P.V.C., Shikarpur.
- 42 G. Zachariah, G.B.V.C., Kolar Gold Fields.
- 43 D. N. Vasudeva Mudaliar, G.M.V.C., Maddur.
- 44 S. Parthasarathy, G.M.V.C., Anekal.
- 45 G. N. Srikantiah, G.M.V.C., O. O. D., Foreign Service, Jodhpur.
- 46 S. Ramakrishna, G.B.V.C., Arkalgud.
- 47 L. Gurunathan, G.M.V.C., Chiknaikanhalli.
- 48 J. P. Wesley, G.B.V.C., Gubbi.
- 49 H. Bandiah, G.B.V.C., Turvekere.
- 50 R. Shadagoparamanujam, G.M.V.C., Magadi.
- 51 P. K. Nair, G.B.V.C. Hoskote.
- 52 P. K. Kurian, G.M.V.C., Chamarajnagar.
- 53 Abid Hussain Khan, G.B.V.C., Sorab.
- 54 M. M. Kulakarni, G.B.V.C., Harihar.
- 55 H. Khader Khan, G.M.V.C., Hunsur (on leave).
- 56 T. Krishna Rao, G.M.V.C., Gundlupet.
- 57 M. V. Srinivasa Rao, G.M.V.C., Bangalore.
- 58 S. V. R. Swamy, G.M.V.C., Kadur.
- 59 Mahomed Davood, L.V.P., Kunigal Stud Farm.
- 60 J. Muniappa, L.V.P., Bowringpet.
- 61 G. K. Mahomed Ibrahim, L.V.P., Mudgere.
- 62 K. N. Subba Rao, B.A., L.V.P., Chikmagalur.
- 63 M. Bhima Rau, G.M.V.C., Kunigal.
- 64 J. D. Sampathkumaran, L.V.P., Rayanakere Dairy Farm.
- 65 M. G. Shekharan, L.V.P., Serum Institute.
- 66 K. S. Krishnappa, G.M.V.C., Devanhalli.
- 67 B. L. Subramanyam, G.M.V.C., Sira.
- 68 A. N. Venkatanarayana Sarma, G.M.V.C., Challakere.
- 69 K. K. Murthy, G.B.V.C., Channagiri.
- 70 N. M. Krishna, G.B.V.C., Gudibanda.
- 71 C. Puttaswamy, L.V.P., Saklespur.
- 72 K. S. Sri Ram, B.A., B.Sc., L.V.P., Jagalur.
- 73 M. Abdul Rahimon, L.V.P., Koppa.
- 74 B. Krishna Singh, L.V.P., Nagamangala.
- 75 S. B. Vasudeva Rao, L.V.P., O. O. D., Hebbal.
- 76 C. T. Tirumalai Swamy Modaliar, B.A., G.M.V.C., Belur.
- 77 D. Ramaiah Setty, L.V.P., Tarikere.
- 78 H. S. Ramaswamy, G.B.V.C., Shimoga.
- 79 H. R. Bhashyam, G.M.V.C., Goribidnur.
- 80 P. T. Krishnappa, L.V.P., Honnali.
- 81 P. N. Mukundu, B.A., G.M.V.C., Holalkere.
- 82 C. V. Govindaiya, L.V.P., Hosdurga.
- 83 L. Rama Rao, G.B.V.C., Kankanhalli.
- 84 Mohamed Hussain, L.V.P., Sagar.
- 85 B. C. Nanjundaiah, L.V.P., Forest Department.
- 86 H. Abdul Rahiman, L.V.P., Kalasa.
- 87 A. M. Jambulingam, G.M.V.C., Hosnagara.
- 88 M. Appaiah, G.M.V.C., Heggaddevankote.
- 89 Syed Habibulla, G.M.V.C., Saligrama.
- 90 D. S. Eswarappa, L.V.P., Nanjangud.

## Messrs.—

- 91 M. K. Veerendra, O. O. D., Palace Stables.
- 92 D. C. Mahadeviah, L.V.P., Kumsi.
- 93 K. Srinivasa Murthy, B.Sc., L.V.P., Johnes Disease Investigation.
- 94 B. R. Seshachar, G.B.V.C., Under Marketing Officer.
- 95 K. Malliah, G.V.Sc., Anandapuram.
- 96 P. G. Rajagopal, G.V.Sc., Channarayapatna.
- 97 D. Narasimha Murthy Rao, B.A., G.V.Sc., Krishnarajpet.
- 97 R. Ramaswamy, G.V.Sc., O. O. D., Hebbal, Bangalore.
- 98 B. Chandrashekar, G.V.Sc., Mobile Corps, Ajjampur.
- 99 G. Krishne Urs, G.B.V.C., P.G. (Edin.), Mysore.
- 100 A. V. Srinivasa Rao, G.V.Sc., Rampur.
- 101 D. Rudrayya, G.V.Sc., Hunsur.
- 102 A. H. Potgris, L.V.P., Poultry Disease Investigation Scheme.
- 103 B. S. Srinivasamurthy, B.A., G.M.V.C., Mobile Corps.
- 104 A. Sundaramurthy, G.V.Sc., M.C., Nelamangala.
- 105 K. N. Gopala Iyengar, G.B.V.C., M.C.
- 106 N. V. Doraswamy, G.V.Sc., M.C.

## MYSORE SERUM INSTITUTE.

- Mr. S. D. Achar, G.B.V.C., P.G. (Punjab), Superintendent.  
 „ P. U. Nayar, G.B.V.C., Bacteriological Assistant.  
 „ K. Ranganatha Rao, G.M.V.C., Assistant Superintendent, Scientific section.  
 Dr. P. M. Narayanaswami Naidu, B.Sc., (L.V.P., Sc.D. (Germany), F.F.A.S. (France), Veterinary Research Officer.  
 Mr. T. Chandu, G.B.V.C., Veterinary Inspector, Serum Section.  
 „ B. Sheik Peer, G.M.V.C., Viterinary Inspector, Virus Section.  
 „ V. S. Kuppuswamy Mudaliar, G.M.V.C., Veterinary Inspector, Blackquarter Section.  
 „ R. M. Purushotham, G.B.V.C., Veterinary Inspector, Laboratory Section.  
 „ G. N. Srikantiah, G.M.V.C., Veterinary Inspector, Services lent to Jodhpur State.  
 „ M. G. Sekharan, L.V.P., Veterinary Inspector, Research Section.  
 „ G. Narayanamurthy, G.B.V.C., Veterinary Inspector, Laboratory and Sterilising Section.  
 „ K. Srinivasamurthy, B.Sc., L.V.P., Veterinary Inspector, Johnes Disease Investigation Scheme, subsidised by the Imperial Council of Agricultural Research.
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## APPENDIX III.

MONTHLY REPORT OF WORK DONE BY THE AGRICULTURAL  
INSPECTOR.

Range.....		For.....	193
1. Number of days on tour	...	...	...
2. Number of villages selected for intensive work in the Range	...	...	...
3. Number of villages visited	...	...	...
4. Number of ploughing demonstrations held	...	...	...
5. Total number of demonstration plots in raiyats' fields	...	...	...
6. Number of plots inspected out of 5 above	...	...	...
7. Number of demonstrations held in—			
(a) Transplantation	...	...	...
(b) Selection of ear-heads for seed	...	...	...
(c) Improved methods of cultivation	...	...	...
8. Implements sold—			
Ploughs	...	...	...
Plough shares	...	...	...
Cultivators	...	...	...
Sugarcane mills sold to—			
(a) Individuals	...	...	...
(b) Co-operative Societies	...	...	...
9. Supply of improved seeds—		Kind.	Quantity.
Ragi	...	...	...
Paddy	...	...	...
Sugarcane	...	...	...
Groundnut	...	...	...
Cotton	...	...	...
Gingelly	...	...	...
Jola	...	...	...
Sunnhemp	...	...	...
Others, if any	...	...	...
10. Sprayers and chemicals supplied	...		
11. Brief remarks about insect pests, plant or cattle diseases and seasonal condition	...	...	...

## APPENDIX IV.

PUBLICATIONS OF THE DEPARTMENT OF AGRICULTURE  
IN MYSORE, BANGALORE.

## ANNUAL REPORTS.

Annual Report of the Agricultural Chemist		1899-00
Do	do	1900-01
Do	do	1901-02
Do	do	1902-03
Do	do	1903-04
Do	do	1904-05
Do	do	1905-06
Do	do	1906-07
Do	do	1907-08
Do	do	1908-09
Do	do	1909-10
Annual Report of the Agricultural Department		1910-11
Do	do	1911-12
Do	do	1912-13
Do	do	1913-14
Do	do	1914-15
Do	do	1915-16
Do	do	1916-17
Do	do	1917-18
Do	do	1918-19
Do	do	1919-20
Do	do	1920-21
Do	do	1921-22
Do	do	1922-23
Do	do	1923-24
Do	do	1924-25
Do	do	1925-26
Do	do	1926-27
Do	do	1927-28
Do	do	1928-29
Do	do	1929-30 to 1930-31
Do	do	1931-32
		1932-33 to 1936-37

## THE MYSORE AGRICULTURAL CALENDARS.

English Calendars for the years 1915 to 1928	
Do	for the year 1929 to 1931
Do	1934 to 1938
Kannada Calendars for the years 1915 to 1928	
Do	for the year 1929
Do	do 1930
Do	do 1931
Do	do 1934 to 1938

## THE MYSORE HEBBAL AGRICULTURAL SCHOOL CALENDARS.

Calendars for the years 1917-18 to 1926-27 (out of print).  
 1927-28 to 1928-29 do  
 1929-30 do

## BULLETINS.

## GENERAL SERIES.

	Rs. a. p.
1. Green Manuring in Mysore (English and Kannada)	0 8 0
2. Experiments on Paddy Cultivation (English and Kannada)	0 8 0
3. Report on Agricultural Education ...	0 8 0
4. Report on an agricultural tour in Europe, America and Japan during 1912-13.	0 8 0
5. Short Report of the Mysore Agricultural Department (English and Kannada).	
6. Coffee: Its Cultivation and Manuring in South India (English and Kannada). Copies available.	0 2 0
7. A Note on the Milk Supply of Bangalore, in English only ...	0 4 0
8. Prospectus of the Chikkanahalli Agricultural School	
9. Methods of Butter-making, local and improved. (Kannada, available).	0 4 0
10. The Cultivation of the Areca Palm in Mysore (English and Kannada).	0 8 0
11. The Cultivation of Ragi in Mysore (English and Kannada) ...	1 0 0
12. Agriculture in Mysore (English only). ...	1 0 0
13. Improvement of the Coffee Industry in Mysore (English only)...	0 4 0
14. Agricultural Research and Demonstration in the Dutch East Indies (English only).	0 4 0
15. Improvement of Coffee in the Dutch East Indies (Eng. only)	1 0 0
16. Report on the Coffee Berry Borer, <i>Stephanodores Hempei</i> , (English only).	1 0 0
17. Notes on Sugarcane cultivation in Java (English only). ...	1 0 0
18. Development of the Sugar Industry in Mysore (English only)	0 8 0
19. Sugarcane cultivation on the Irwin Canal Farm ...	0 8 0

## CHEMICAL SERIES.

- |   |       |
|---|-------|
| 1. Some Manurial Earths of Mysore ( <i>boodi mannu</i> ) (English and Kannada). (Out of print). | 0 2 0 |
|---|-------|

## MYCOLOGICAL SERIES.

- |  |       |
|--|-------|
| 1. Ring Disease of Potatoes. Out of Print .. ...                                 | 0 8 0 |
| 2. Diseases of the Areca Palm. I. Koleroga, English and Kannada. (Out of print). | 2 0 0 |
| 3. Spike Disease of Sandal (English) ... ..                                      | 1 0 0 |
| 4. Proceedings of the Conference on the Spike Disease of Sandal.                 | 0 8 0 |
| 5. Black Rot or Koleroga of Coffee in Mysore (English) ...                       | 0 8 0 |

## ENTOMOLOGICAL SERIES.

	Rs.	a.	p.
1. The Rice Grasshopper in English and Kannada. ...	1	0	0
2. The Jola or Deccan Grasshopper in English and Kannada ...	1	0	0
3. Kamblihulas attacking crops in Mysore. ...	0	8	0
4. Some Scale Insect Pests of Coffee (English) ...	1	0	0
5. Ground Beetles attacking crops in Mysore ...	0	4	0
6. Pulse Beetles ...	0	4	0
7. The Function of the Prothoracic Plate in Mylabrid (Bruchid) Larvæ (A study in adaptation) in English only.	0	8	0
8. The Large Citrus Borer of South India (English) ...	0	8	0
9. The Potato Epilachna Beetle Epilachna [Viginti-Octo-Punctata (Fabr)].	0	4	0
10. Bee-keeping—A Subsidiary occupation for the Raiyats ...	0	8	0
11. The Coffee Stem Borer. (English) ...	0	8	0
12. Bee-keeping for beginners (Bull. No. 10 Revised) ...	0	10	0
13. Annual Report of the Coffee Scientific Officer 1933-34 ...	0	4	0
14. Do 1934-35 ...	0	4	0
15. Do 1935-36 ...	0	4	0
16. Factors affecting Spray Success in the Control of Coffee Leaf Disease (Hemilea vastatrix B. and Br.)	0	8	0
17. Annual Report of the Coffee Scientific Officer 1936-37	0	4	0
18. Do 1937-38 ...	0	4	0

## THE MYSORE COFFEE EXPERIMENT STATION SERIES.

1. The Mysore Coffee Experiment Station. What it is doing for the improvement of Mysore Coffee. (English and Kannada.)			
2. The Coffee Berry Borer—(Stephanodores Hampei.) A Preliminary Account (English and Kannada).			
3. Report of work on the Coffee Experiment Station, Balshonnur, for the years 1925-30. (English.)			
4. Seasonal Periodicity of Coffee Leaf Disease—(Hemilea Vastatrix, B. and Br.) (English).			
5. Annual Report of the Coffee Scientific Officer, 1930-31	0	8	0
6. Seasonal Periodicity of Coffee Leaf Disease, Hemilea Vastatrix B. and Br. 2nd Report (English) ...	0	8	0
7. Annual Report of the Coffee Scientific Officer 1931-32 ...	0	8	0
8. Report of work on the Coffee Experiment Station, Balshonnur, for the years 1930 and 1931 ...	0	8	0
9. Spraying of Coffee in South India. ...	1	0	0
10. Annual Report of the Coffee Scientific Officer 1932-33 ...	0	4	0
11. Nematode Worms in relation to the Cockchafer and Mealy Bug Problem in Coorg. ...	0	8	0

## CIRCULARS.

1. Koleroga of Supari, in Kannada and English.
2. About Grasshopper, in English and Kannada.
3. Koleroga of Supari, English and Kannada.
4. Directions for taking Samples of Soils and Manures, in English and Kannada.
5. Broach and Cambodia Cotton, in Kannada only.
6. Agricultural Implements and Machines, in English.

7. Green Bug on Coffee, in Kannada only.
8. Distribution of Broach Cotton Seeds to the Cultivators during the year 1913 (in Kannada only).
9. Distribution of Cambodia Cotton Seeds, in Kannada only.
10. Smut on Jola, in English and Kannada.
11. Use of Honge Oil-cake as Manure to Sugar-cane. Kannada only.
12. Price list of Implements sold in the Implement Depot of the Department, in English only.
13. Selection of Seeds by Salt Water Method, in Kannada only.
14. Koleroga of the Areca Palm, in English only.
15. Kamblihulas attacking Crops in Mysore, in Kannada only.
16. Kondalihula of Castor, in Kannada only.
17. Kokkre Roga of Paddy, in Kannada only.
18. Handbook of Exhibits, Mysore Dasara Exhibition, 1916, in English only.
19. Handbook of Exhibits, Mysore Dasara Exhibition, 1917, in English only.
20. How to combat Coffee Borer.
21. Kamblihula in Kannada only.
22. The Drying of Arecanuts, in English only.
23. Kamblihula with Black head, in Kannada only.
24. Insect Pest of Ear-head of *Gidda* Ragi, in Kannada only.
25. Methods of Cultivating Summer Season Crop, in Kannada only.
26. Methods of Cultivating Ragi, in Kannada only.
27. Methods of Cultivating *Bili* Jola and *Navane*, in Kannada only.
28. Methods of Cultivating short duration Paddies, in Kannada only.
29. Borer *hula*, in Kannada only.
30. List of Books available for lending from the Library of the Department of Agriculture in Mysore. (English only).
31. Cattle Breeding, in English and Kannada.
32. Pony Breeding, in English and Kannada.
33. Transplantation of Paddy, in Kannada only.
34. Kamblihula Pest Act, in Kannada only.
35. Instructions for conducting Ragi (*Eleusine coracana*) Varietal Tests. (English and Kannada.)
36. Instructions for conducting, Groundnut (*Arachis hypogæa*) Trials. English and Kannada.
37. Instructions for conducting Castor (*Ricinus communis*) Trials (Kannada only available).
38. Instructions for conducting Sugarcane Varietal Tests.
39. Manufacture of Ensilage (English and Kannada).
40. Prickly-pear as a Fodder for Cattle (English and Kannada).
41. Lime Tree Borer, (Kannada).
42. Sugarcane Borer, do
43. Jola Grasshopper, do
44. Spraying against Coffee Black Rot or Koleroga (English and Kannada).
45. Spraying against Diseases of Coffee. (English and Kannada).
46. The Lantana Bug (English and Kannada).
47. A mistaken impression about the Prickly-pear destroying insects in the Mysore State (English and Kannada).
48. Method to be adopted for the cultivation of Ragi in the Irwin Canal Area (Kannada only).