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ROTHAMSTED  
RESEARCH

## Report for 1931

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### **Rothamsted Experimental Station; Woburn Experimental Farm; and Imperial Bureau of Soil Staff List**

#### **Rothamsted Research**

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## Experimental Station Staff

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Director : SIR E. JOHN RUSSELL, D.Sc., F.R.S.

Assistant Director : B. A. KEEN, D.Sc., F.INST.P.

### INSTITUTE of PLANT NUTRITION and SOIL PROBLEMS

#### The James Mason Bacteriological Laboratory—

Head of Department .. H. G. THORNTON, B.A., D.Sc.  
Assistant Bacteriologist .. HUGH NICOL, M.Sc., A.I.C.  
Laboratory Assistant .. SHEILA ARNOLD  
Laboratory Attendant .. MOLLY JOHNSON

#### Botanical Laboratory—

Head of Department .. WINIFRED E. BRENCHLEY, D.Sc.,  
F.L.S.  
Assistant Botanist .. KATHERINE WARINGTON, M.Sc.  
Laboratory Assistant .. KATHLEEN DELLAR.  
Laboratory Attendants .. MAY DOLLIMORE  
.. MARJORIE MESSENGER

#### Chemical Laboratory—

Head of Department .. E. M. CROWTHER, D.Sc., F.I.C.  
Assistant Chemists .. R. G. WARREN, B.Sc.  
.. H. L. RICHARDSON, M.Sc., Ph.D.,  
A.I.C.  
.. SIGNE G. HEINTZE, Mag.<sup>1</sup> Phil.  
Post - Graduate Research  
Workers .. .. A. WALKLEY, B.A., B.Sc.  
.. E. R. ORCHARD, B.Sc. (Agric.)

Barley Investigations  
(Institute of Brewing  
Research Scheme) .. L. R. BISHOP, M.A., Ph.D.  
.. F. E. DAY, B.Sc., F.I.C.  
.. DORIS R. M. MARX, M.Sc.

Special Assistant .. E. GREY

Laboratory Assistants .. A. H. BOWDEN  
.. F. J. SEABROOK  
.. G. LAWRENCE  
.. H. A. SMITH  
.. J. W. DEWIS

Laboratory Attendants .. MURIEL RUSSELL  
.. ALICE KINGHAM



**Laboratory for Fermentation Work—**

Head of Department	..	E. H. RICHARDS, B.Sc., F.I.C. (Iveagh Research Chemist).
Assistant Chemist	..	S. H. JENKINS, M.Sc., Ph.D., F.I.C.
Post - Graduate Research Workers	.. ..	J. A. DAJI, M.Ag., B.Sc. J. G. SHRIKHANDE, M.Sc.
Laboratory Attendant	..	MABEL PAYNE

**Laboratory for Insecticides and Fungicides—**

Head of Department	..	F. TATTERSFIELD, D.Sc., F.I.C.
Assistant Chemist	..	J. T. MARTIN, B.Sc., A.I.C.
Laboratory Assistant	..	IRENE RANDALL
Laboratory Attendant	..	MOLLY JOHNSON

**General Microbiology Laboratory—**

Head of Department	..	D. WARD CUTLER, M.A., F.L.S., F.Z.S.
Assistant Microbiologists	..	LETTICE M. CRUMP, M.Sc., F.Z.S. N. W. BARRITT, M.A. ANNIE DIXON, M.Sc., F.R.M.S. JANE MEIKLEJOHN, B.Sc.
Laboratory Assistant	..	MABEL DUNKLEY
Laboratory Attendant	..	HILDA PARSONS

**Physical Laboratory—**

Head of Department	..	B. A. KEEN, D.Sc., F.Inst.P.
Colloid Physicist	..	R. K. SCHOFIELD, M.A., Ph.D. (Empire Cotton Growing Corporation Soil Physicist)
Assistant Physicists	..	G. W. SCOTT BLAIR, M.A. (Goldsmiths' Company Physicist) G. H. CASHEN, M.Sc. E. W. RUSSELL, M.A.
Post - Graduate Research Worker	.. ..	W. C. VISSER
Assistant	.. ..	JESSIE WALKER
Laboratory Assistants	..	W. C. GAME R. F. S. HEARMON
Laboratory Attendants	..	H. GIBSON STELLA WARD



**Statistical Laboratory—**

Head of Department	..	R. A. FISHER, M.A., Sc.D., F.R.S.
Assistant Statisticians	..	F. YATES, B.A. A. MARGARET WEBSTER, B.A.
Post - Graduate Research Workers	.. ..	R. J. KALAMKAR, B.Sc., Ph.D. J. W. HOPKINS, M.Sc. H. J. BUCHANAN-WOLLASTON
Assistant Computers	..	A. D. DUNKLEY FLORENCE PENNELLS KITTY ROLT

**INSTITUTE of PLANT PATHOLOGY**

**Entomological Laboratory—**

Acting Head of Department	.. ..	H. F. BARNES, M.A., Ph.D.
Apiarist	.. ..	D. M. T. MORLAND, M.A.
Assistant Entomologist	..	H. C. F. NEWTON, B.Sc., A.R.C.S.
Post - Graduate Research Worker	.. ..	MARGOT E. METCALFE, Ph.D.
Apicultural Assistant	..	A. C. ROLT
Laboratory Assistant	..	EDITH COOPER
Laboratory Attendant	..	ELIZABETH SIBLEY

**Mycological Laboratory—**

Head of Department	..	W. B. BRIERLEY, D.Sc., F.L.S.
Assistant Mycologist	..	MARY D. GLYNNE, M.Sc., F.L.S.
Bacterial Diseases	..	R. H. STOUGHTON, B.Sc., A.R.C.S., F.L.S.
Virus Diseases	.. ..	J. HENDERSON SMITH, M.B., Ch.B., B.A.
Special Staff— Empire Marketing Board Scheme :		
Physiologist	.. ..	J. CALDWELL, B.Sc., Ph.D.
Cytologist	.. ..	FRANCES M. L. SHEFFIELD, Ph.D., F.L.S.
Entomologist	.. ..	MARION A. HAMILTON, Ph.D.
Glasshouse Superintendent		MARGARET M. BROWNE
Post - Graduate Research Workers	.. ..	L. M. J. KRAMER, M.A. D. MACCLEMENT, B.A. J. SINGH, M.Sc.
Laboratory Assistant	..	DORIS TUFFIN
Laboratory Attendants		EDNA EVENETT JOAN CHINCHEN
Glasshouse Attendant	..	NANCY MOULES

### FIELD EXPERIMENTS

Guide Demonstrators	..	H. V. GARNER, M.A., B.Sc.
		E. H. GREGORY
Plant Physiologist	..	D. J. WATSON, M.A.
Assistant .. ..	..	G. T. DETLEFSEN
Field Superintendent	..	B. WESTON
Assistants .. ..	..	G. F. COLE
		S. A. W. FRENCH
		G. WILCOCK
Plant Physiologists for	F. G. GREGORY, D.Sc.	
Special Experiments	A. T. LEGG	
(Imperial College of Sci-	F. J. RICHARDS, M.Sc.	
ence and Technology) ..	W. G. TEMPLEMAN, B.Sc.	
Field Assistant .. ..	G. W. MESSENGER	
Laboratory Attendant ..	KATHLEEN KEYS	

### FARM

Director .. ..	..	H. G. MILLER, B.Sc.
Assistant .. ..	..	J. R. MOFFAT, B.Sc.
Bailiff .. ..	..	H. CURRANT
Ploughmen .. ..	..	F. STOKES
		F. A. LEWIS
Stockmen .. ..	..	E. DAVIES
		J. R. DAVIES
		R. DAVIES
Tractor Driver .. ..	..	J. UNDERHILL
Labourers .. ..	..	W. HOLLAND
		T. J. LEWIS
		F. DAVIES

### LIBRARY

Librarian .. ..	..	MARY S. ASLIN
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### SECRETARIAL STAFF

Secretary .. ..	..	W. BARNICOT
Assistant Secretary	..	CONSTANCE K. CATTON
Director's Private Secre-		
tary .. ..	..	ANNIE E. MACKNESS
Senior Clerk .. ..	..	BEATRICE E. ALLARD
Junior Clerks .. ..	..	NORA LEVERTON
		ROSE ROBINSON
		LUCY ARNOLD

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Photographer .. ..	..	V. STANSFIELD, F.R.P.S.
Laboratory Steward and		
Storekeeper .. ..	..	A. OGGELSBY
Engineer and Caretaker ..	..	W. PEARCE
Assistant Caretaker ..	..	F. K. HAWKINS



## Woburn Experimental Farm

Hon. Local Director	..	J. A. VOELCKER, C.I.E., M.A., Ph.D.
Assistant Director	..	H. H. MANN, D.Sc., F.I.C. (Kaisar-i-Hind Gold Medal)
Chemist	.. ..	T. W. BARNES, M.Sc.
Laboratory Assistant	..	R. DEACON

### FARM STAFF

Assistant Manager	..	T. C. V. BRIGHT
Ploughmen	.. ..	G. TYLER J. McCALLUM
Stockman	.. ..	W. McCALLUM
Assistant Stockman	..	D. McCALLUM
Labourer	.. ..	K. McCALLUM

### Members who have left since last Report and the Appointments to which they proceeded

A. D. IMMS, M.A., D.Sc., F.R.S.	University Reader in Entomology, Cambridge.
J. O. IRWIN, M.A., D.Sc. ..	Member of Staff of Statistical Committee, Medical Research Council, London
J. WISHART, M.A., D.Sc. ..	Reader in Statistics, Cambridge University
A. F. JOSEPH, D.Sc., F.I.C.	Resigned, August, 1931

### TEMPORARY WORKERS, 1931

In addition to those temporary workers recorded in the list of staff, the following sent officially by Governments or Universities, or coming on their own resources, have worked at the Station for various periods during the year 1931 :

#### (1) FROM THE EMPIRE :

*Colonial Office Agricultural Officers:* H. R. Hosking (Uganda), C. G. Trapnell (Northern Rhodesia), J. H. Simmonds (Queensland).

*Australia:* Miss E. C. Andrews (Perth), E. C. Tommerup (Queensland).

*Canada:* Professor R. F. Summerby.

*India:* C. G. Hawes, T. J. Mirchandani.

*New Zealand:* J. T. Campbell.

*Federated Malay States:* F. Billington.

#### (2) FROM FOREIGN COUNTRIES :

*Rockefeller Foundation Fellows:* Dr. F. R. Immer (United States of America), Dr. H. Janert (Germany).

*France:* Dr. C. Zinzadze.