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ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1966

[Full Table of Content](#)



Contents 1966

Rothamsted Research

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Rothamsted Experimental Station

Harpenden

Lawes Agricultural Trust

NUMERICAL RESULTS

of the

FIELD

EXPERIMENTS

1966

This report includes only experiments conducted at Rothamsted, Woburn and Saxmundham. The design and supervision of these experiments are the responsibility of the Field Plots Committee (present members: F. Yates (Chairman), G.V. Dyke (Secretary), G.W. Cooke, P.H. Gregory, F.G.W. Jones, J.R. Moffatt, H.D. Patterson, C.A. Thorold, D.J. Watson).

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FORWARDED EXPERIMENTAL REPORT

REPORT

IN THE LABORATORY OF

PHYSICAL CHEMISTRY

OF THE

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ENERGY

1961

This report includes only experiments conducted at the Laboratory of Physical Chemistry, U.S. Department of Energy, and the responsibility for the results and conclusions is assumed by the author(s). The report is published as a technical report of the U.S. Department of Energy, Office of Energy Research and Development, Office of Basic Energy Sciences, Office of Chemical Physics, Office of High Energy Physics, Office of Nuclear Energy, Office of Particle Physics, Office of Plasma Physics, Office of Solid State Physics, Office of Superconductivity, Office of Theoretical Physics, Office of High Energy Physics, Office of Nuclear Energy, Office of Particle Physics, Office of Plasma Physics, Office of Solid State Physics, Office of Superconductivity, Office of Theoretical Physics.

Published 1961

CONTENTS 1966

CLASSICAL EXPERIMENTS*

Broadbalk	Wheat	(BK)	A/1
Hoosfield	Barley	(HB)	A/2
Hoosfield	Wheat after fallow	(HWF)	A/3
Agdell	Grass	(AG)	A/4
Barnfield	Fallow	(BN)	A/5
Park Grass	Hay	(PG)	A/6
Hoosfield Exhaustion Land	Barley	(EX)	A/7
Rothamsted Garden	Clover	(GC)	A/8
Woburn Stackyard	Fallow	(WPW & WPB)	A/9
Saxmundham	Rotation 1	(SA)	A/10
Saxmundham	Rotation 2	(SB)	A/11

ROTATION EXPERIMENTS

Ley and arable rotations	Rothamsted	(HLA & FLA)	B/1
Reference plots	Rothamsted & Woburn	(RA, RG, WRA&WRF)	B/2
Green manuring	Woburn	(WGM)	B/3
Ley and arable rotations	Woburn	(WLA)	B/4
Market garden soil	Woburn	(WMG)	B/5
Residual phosphate rotation	Rothamsted	(RP)	B/6
Cultivation-weedkiller rotation	Rothamsted	(CW)	B/7
Cultivation-weedkiller rotation	Woburn	(WCW)	B/8
Intensive cereals	Woburn	(WIC)	B/9

CROP SEQUENCE EXPERIMENTS*

CROPS IN 1966

K, Mg and Na Rothamsted	Kale	(LM)	C/1
Intensive spring barley	Cereals	(IB)	C/2
Long term liming Rothamsted & Woburn	Barley	(LL & WLL)	C/3
Methods of application of fertiliser 1965-66 Woburn	Spring wheat	(WBT)	C/4
Levels of N & K	Grass (9th year)	(AF)	C/5
Decline of take-all	Winter wheat	(AD)	C/6
Cereal disease reference plots	Wheat	(AQ)	C/7

CONTENTS 1966 (CONTD.)

CROP SEQUENCE EXPERIMENTS* (continued)

Row spacing N and paraquat	Lucerne - 3rd year	(AZ)	C/8
Irrigation	Potatoes & barley	(IR)	C/9
Row spacing and fertilisers 1965 - 66 Woburn	Barley	(WBU)	C/10
Soil structure 2 Woburn	Early potatoes & red beet		C/11
Oxamide	Grass		C/12
NPK	Old Grass (Park Grass Plot 5 Microplots)	(PGM)	C/13
NPK & cutting	Old Grass (Park Grass plot 6 Microplots)	(PGM)	C/14
Sod seeding & pests	Spring wheat	(BH)	C/15
Intensive winter barley	Winter barley	(BJ)	C/16
Legumes & barley	Cereal & hay	(BP)	C/17
Previous crops & N for barley 1965 - 66	Barley	(BQ)	C/18
Previous crops & N for barley 1966 - 67	Spring wheat, kale & ryegrass	(BY)	C/19
Rate of action of P fertilisers 1965 - 66	Barley & ryegrass		C/20
Rate of action of P fertilisers 1966 - 67	Early potatoes & radishes		C/21
Formalin & N Rothamsted (2 sites)	Spring wheat	(BR, BS)	C/22
Scorch study Woburn	Spring wheat - 3rd year	(WBL)	C/23
Fumigants Woburn	Spring wheat	(WBO)	C/24
K & protein synthesis Woburn	Grass		C/25
Lucerne virus control	Lucerne & lucerne/ cocksfoot	(BZ)	C/26
Anhydrous ammonia	Established grass	(BX)	C/27
Levels and forms of N	Spring beans	(CA)	C/28
DD & Dazomet Rothamsted & Woburn	Spring wheat	(CC & WCD)	C/29
Intensive wheat Saxmundham	Winter wheat	(SC)	C/30
Organic manuring Woburn	Barley & grass	(WUM)	C/31
Irrigation & eelworm Woburn	Potatoes	(WCE)	C/32
Direct seeding Woburn	Spring wheat	(WBW)	C/33

ANNUAL EXPERIMENTS*

Winter wheat	Row spacing - Rothamsted & Woburn	(RW101&WW101)	Da/1
Winter wheat	Spun seed	(RW301)	Da/2
Winter wheat	Sowing dates and bulb fly	(BG13)	Da/3

CONTENTS 1966 (CONTD.)

ANNUAL EXPERIMENTS* (continued)

Spring wheat	Anhydrous ammonia - Rothamsted & Woburn	(RW601&WW301)	Da/4
Spring wheat	Sowing dates - Woburn	(WW201)	Da/5
Spring wheat	CCC	(RW701)	Da/6
Spring wheat	CCC & Irrigation - Woburn	(WW401)	Da/7
Winter & Spring wheat	Varieties and N	(RW401)	Da/8
Barley	Row spacing - Rothamsted & Woburn	(RB101&WB101)	Db/1
Barley	Spun seed	(RB201)	Db/2
Spring beans	Irrigation and row spacing	(RBe101)	Dc/1
Early potatoes	DSA	(RP1/1)	Dd/1
Potatoes	Soil fungicides Rothamsted & Woburn	(RP3/1&WP201)	Dd/2
Potatoes	Effect of gaps (2 sites)	(RP6/1&RP17/1)	Dd/3
Potatoes	Oospora	(RP7/1)	Dd/4
Potatoes	Rhizoctonia	(RP8/1)	Dd/5
Potatoes	Gangrene	(RP9/1)	Dd/6
Potatoes	Oospora (Dead eyes)	(RP10/1)	Dd/7
Potatoes	Time of burning off	(RP11/1)	Dd/8
Potatoes	Varieties - Woburn	(WP101)	Dd/9
Potatoes	Verticillium - Woburn	(WP301)	Dd/10
Potatoes	Tuber blight - Woburn	(WP401)	Dd/11
Carrots	Motley dwarf virus - Woburn	(WCt1)	De/1
Kale	Urea		Df/1

MISCELLANEOUS DATA

Meteorological records	Rothamsted & Woburn	E/1
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* At Rothamsted unless otherwise stated.

- NOTES (1) In the case of the classical, rotation and crop sequence experiments the letters in brackets are the code letters used on the plan. For the annual experiments the letters and numbers are the first plot number.
- (2) From 1966 wherever the potato variety King Edward is mentioned, this means the clone free from paracrinkle virus unless the contrary is stated.