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Yields of the Field Experiments 1967

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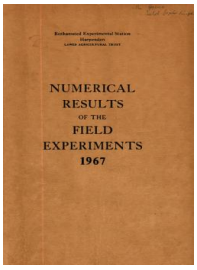

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CLASSICAL EXPERIMENTS*

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

ROTATION EXPERIMENTS

Ley and arable rotations	Rothamsted	(HLA & FLA)	B/1
Reference plots	Rothamsted & Woburn	(ERA, ERG, WERA & WERF)	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 1967

K, Mg and Na Rothamsted	Barley	(LM)	C/1
Intensive spring barley	Cereals	(IB)	C/2
Long term liming Rothamsted & Woburn	Barley	(LL & WLL)	C/3
Levels of N & K	Grass (10th year)	(AF)	C/4
Cereal disease reference plots	Wheat	(AQ)	C/5
Row spacing N and paraquat	Lucerne - 4th year	(AZ)	C/6
Irrigation	Beans & barley	(IR)	C/7
Soil structure 2 Woburn	Early carrots	(WEAH)	C/8

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CONTENTS 1967 (CONTD.)

CROP SEQUENCE EXPERIMENTS* (continued)

NPK	Old Grass (Park Grass Plot 5 Microplots)	(EPG)	C/9
NPK & cutting	Old Grass (Park Grass Plot 6 Microplots)	(EPG)	C/10
Sod seeding & pests	Winter wheat	(BH)	C/11
Intensive winter barley	Winter barley	(BJ)	C/12
Legumes & barley	Barley	(BP)	C/13
Previous crops & N for barley 1965-67	Barley	(BQ)	C/14
Previous crops & N for barley 1966-67	Barley	(BY)	C/15
Rate of action of P fertilisers 1965-67	Ryegrass	(EQ)	C/16
Rate of action of P fertilisers 1966-67	Barley and ryegrass	(ER)	C/17
Formalin & N - Rothamsted (2 sites)	Winter wheat	(EBR,EBS)	C/18
Fumigants - Woburn	Barley	(WEBO)	C/19
Lucerne virus control	Lucerne & lucerne/ cocksfoot - 3rd year	(BZ)	C/20
Levels and forms of N for beans	Winter wheat	(CA)	C/21
DD & Dazomet - Rothamsted & Woburn	Spring wheat	(ECC & WECD)	C/22
Intensive wheat - Saxmundham	Winter wheat	(SC)	C/23
Organic manuring - Woburn	Potatoes & grass	(WOM)	C/24
Irrigation of eelworm - Woburn	Potatoes	(WCE)	C/25
Direct seeding - Woburn	Winter wheat	(WBW)	C/26
Legumes and barley	Various crops	(CU)	C/27
Potato haulm - Rothamsted & Woburn	Potatoes	(CK & WCN)	C/28
Soil sterilants	Winter wheat	(EA)	C/29
N & growth regulators	Beans	(EZ)	C/30
Formalin and N	Grasses	(EAA)	C/31
IBDU	Grass	(EAB)	C/32
N fixation - Rothamsted & Woburn	Lucerne & grass	(EAT & WEAQ)	C/33
Placement of fumigant - Woburn	Potatoes	(WEAM)	C/34
Soil sterilization - Saxmundham	Barley potatoes and sugar beet	(SAX/SS/1)	C/35
Levels and placement of N	Spring beans	(CJ)	C/36
Chemical control of Take-all	Winter wheat	(EB)	C/37

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CROP SEQUENCE EXPERIMENTS* (continued)

Simulated grazing		(EAV)	C/38
Levels of N - Woburn	Spring beans	(WCL)	C/39
Ploughsole DD - Woburn	Sugar beet	(WCM)	C/40
Cereal Cyst Nematode - Woburn	Barley and spring wheat	(WECG)	C/41
Nematode resistant barley	Barley - Pathogen infested site	(WEC)	C/42
Nematode resistant barley	Barley - Pathogen free site	(WEAU)	C/43
Formalin N and Lime - Saxmundham	Barley	(SAX/B/1)	C/44
Phosphate & potash - Saxmundham	Red clover	(SAX/RCL/1)	C/45
Phosphate & potash - Saxmundham	Lucerne	(SAX/LU/1)	C/46
N and cutting - Saxmundham	Grass	(SAX/G/1)	C/47

ANNUAL EXPERIMENTS*

Winter wheat	Seed rates, methods of sowing and bulb fly	(RW101)	Da/1
Winter wheat	CCC and eyespot	(RW201)	Da/2
Winter wheat	CCC	(RW301)	Da/3
Winter wheat	Spun and drilled seed	(RW401)	Da/4
Spring wheat	Comparison of combines	(RW512)	Da/5
Spring wheat	Effect of gaps	(RW601)	Da/6
Spring wheat	CCC	(RW701)	Da/7
Spring wheat	Anhydrous ammonia - Rothamsted & Woburn	(RW801&WW301)	Da/8
Spring wheat	CCC and Irigation - Woburn	(WW101)	Da/9
Spring wheat	Sowing dates and N - Woburn	(WW201)	Da/10
Winter wheat	Sowing date and bulb fly	(BG1)	Da/11
Barley	Spun and drilled seed	(RB101)	Db/1
Barley	Comparison of combines	(RB201)	Db/2
Barley	Spraying and wheelmarks	(RB301)	Db/3
Spring beans	Rhizobium strains	(RBe/101)	Dc/1
Potatoes	Effect of gaps	(RP2/1)	Dd/1
Potatoes	Oospora (skin spots)	(RP3/1)	Dd/2
Potatoes	Oospora (dead eyes)	(RP4/1)	Dd/3
Potatoes	Rhizoctonia	(RP5/1)	Dd/4
Potatoes	Gangrene	(RP6/1)	Dd/5

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ANNUAL EXPERIMENTS* (continued)

Potatoes	Rhizoctonia and storage	(RP7/1)	Dd/6
Potatoes	Oospora-free seed	(RP8/1)	Dd/7
Potatoes	Blight and aphid attack	(RP9/1)	Dd/8
Potatoes	Chitting and scab - Rothamsted & Woburn	(RP10/1&WP1/1)	Dd/9
Potatoes	Varieties, N and scab	(RP11/1)	Dd/10
Potatoes	Transmission of scab - 2 sites	(RP12/1&RP12/21)	Dd/11
Sugar beet	Soil compaction - Saxmundham		De/1
Grass	Anhydrous ammonia	(RG101)	Df/1
Grass	N and damage	(RG201)	Df/2
Oilseed rape	Row spacing, seed rate and N	(RRA101)	Dg/1

MISCELLANEOUS DATA

Meteorological records	Rothamsted & Woburn	E/1

* At Rothamsted unless othewise stated.

NOTES (1) In the case of the classical, rotation and crop sequence experiments the letters in brackets are the code letter 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.

(3) The variety of spring tick beans grown on several experiments in 1967 (Tarvin) was formerly called Pedigree.

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NUMERICAL RESULTS OF THE FIELD EXPERIMENTS, 1967

In this report the following conventions are observed unless otherwise stated.

All areas are in acres.

All seed rates, rates of application of fertilisers, sprays etc. are per acre.

All yields and plant numbers are per acre.

The following conventions are used in variate headings:

Wheat, barley, oats, rye, beans etc.

Grain:	Grain (at 85% dry matter): cwt per acre
Straw:	Straw (at 85% dry matter): cwt per acre

Potatoes

Total tubers:	Total tubers: tons per acre
Ware tubers:	Ware tubers: tons per acre
% ware:	Percentage ware (1.5 inch riddle)

Sugar beet

Roots:	Roots (washed): tons per acre
Sugar %:	Sugar percentage
Total sugar:	Total sugar: cwt per acre
Tops:	Tops: tons per acre

Mangolds

Roots:	Roots: tons per acre
Leaves:	Leaves: tons per acre

Swedes

Roots:	Roots: tons per acre

Carrots

Roots:	Roots: tons per acre
Tops:	Tops: tons per acre

Grass, clover, lucerne, etc.

Dry matter:	Dry matter: cwt per acre

Leeks, globe beet

All yields will be in tons per acre

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Kale

Fresh weight:	Fresh weight: tons per acre

Oilseed rape

Grain:	Grain (at 90% dry matter): cwt per acre
% fixed oil:	Percentage fixed oil
Yield of fixed oil:	Yield of fixed oil: lb per acre

Radishes

Fresh weight:	Fresh weight: tons per acre

All crops

Plant number:	Plant number: thousands per acre
Mean D.M. %:	Mean dry matter % as harvested

For any new crop details of abbreviations will be given as necessary.

The following abbreviated forms of reference will be used:

'Results' (Numerical) Results of the Field Experiments, with year of harvest given.

'Details' Details of the Classical and Long Term Experiments 1962.

Compound fertilisers indicated thus - (20:10:10) = compound fertiliser (20% N, 10% P_2O_5, 10% K_2O), granular unless otherwise stated.

Treatment symbols will be used in all summaries of results, and in the case of the annual experiments the key will be given with the descriptions of the treatments.

For the classical and long term experiments the full description of the treatments is given in the 'Details': where necessary the key to the symbols was given in the 1964 'Results'.

For crop sequence experiments in progress in 1964 the key was given in the 1964 'Results' and for future experiments it is given in the first year. Modifications will be given as they arise.