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Results of the Classical and Other Long-term Experiments 2006

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Long-term Experiments
2006

Rothamsted Research

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Table of Contents and Conventions

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List of Experiments in the 2006 Yield Book

R/BK/1	Broadbalk
R/HB/2	Hoos Barley
R/WF/3	Wheat and Fallow
R/EX/4	Exhaustion Land
R/PG/5	Park Grass
R/GC/8	Garden Clover
R/CS/326	Amounts of Straw
R/CS/477	Continuous Maize
W/RN/3	Ley Arable
W/RN/12	Organic Manuring
W/CS/326	Amounts of Straw
W/CS/478	Continuous Maize

CONVENTIONS

For each experiment current treatments are shown with the factor and level names which are used in the tables.

For each experiment references are given to previous years. These refer to the '(Numerical) (Results)' previous editions of 'Yields of the Field Experiments'.

For the classical and some long-term experiments reference is made to 'Details' - separate publications, giving full descriptions of treatments until 1977 & 1973, with full titles 'Details of the Classical and Long Term Experiments up to 1977' and 'Details of the Classical and Long Term Experiments up to 1973'.

The following conventions are observed unless otherwise stated.

All areas are in hectares. All plot dimensions are in metres.

All rates of application of fertilizers, sprays etc. are per hectare.

All yields are per hectare.

For any other crop, details of abbreviations are given as necessary.

Fertilizers

27% N or 34.5% N means nitrogen as ammonium nitrate

CopperMan	25% w/w soluble manganese (as Mn) + 5% w/w soluble copper (as Cu) + 43.3% w/w soluble sulphur (as SO ₃) + 17.4% w/w soluble (as S)
Double Top	27% nitrogen and 30% SO ₃
Epsom salts	MgSO ₄ ·7H ₂ O 10% magnesium and 13% sulphur
Fishmeal	approximately 6.5% nitrogen
FYM	Farmyard manure (from bullocks)
Gypsum	17.5% sulphur
Mn 500 Headland	500 g/l Manganese
Kieserite	MgSO ₄ ·H ₂ O 17.7% magnesium and 23.3% sulphur
Mancozin	18.8% w/w Manganese + 6.3% w/w Copper + 4.8% w/w Zinc
Manganese sulphate	Mn ₂ (SO ₄) ₃ 27% manganese and 24% sulphur
Mantrac 500	7% w/w Manganese
Muriate of potash	60% K ₂ O
Nitrate of soda	NaNO ₃ 16% nitrogen and 27% sodium
Pelleted poultry manure	3.5% N
Silicate of soda	Na ₂ SiO ₃ 37% sodium and 23% silica
Sulphur Gold	30% nitrogen and 7.6% sulphur
Sulphate of ammonia	(NH ₄) ₂ SO ₄ 21% nitrogen 24% sulphur

Sulphate of potash K_2SO_4 50% K_2O and 18.4% sulphur
Triple superphosphate (TSP) 47% P_2O_5

Cereal straw is removed unless otherwise stated.

GS: Growth stage.

tm): Tank mix; two or more products applied together.

tr.: means seed dressing

Machinery definitions as used in the diary.

Accord	Pneumatic drill with Suffolk coulters 12.5 cm apart.
Combine drilled	Drill mounted behind a rotary harrow.
Dutch harrow	Rigid tine harrow
Flexitine	Heavy spring-tine cultivator.
Nodet Gougis	Pneumatic precision drill with variable spacing.
Nordsten	Drill with Suffolk coulters 12 cm apart.
Oyjord	Drill with Suffolk coulters 14.2 cm apart.
Shakerator	Deep tine cultivator with vibrating tines 60 cm apart and 45 cm deep.
Subsoiler	Deep tine cultivator with vibrating tines 60 cm apart and 45 cm deep

Tables of means

The following abbreviations are used in variate headings:

Wheat, barley, oats, beans, lupins etc.
Grain: Grain (at 85% dry matter)
Straw: Straw (at 85% dry matter)

All crops
Mean D.M. %: Mean dry matter % as harvested

Standard errors

- NOTES:** (1) This report gives standard errors of differences, not of means.
(2) Annotations (e.g. * min rep, max-min, max rep) to S.E.Ds are only explained the first time they occur in any experiment.

PESTICIDES USED

The following list of pesticides is based on The UK Pesticides Guide, CAB International and The British Crop Protection Council. CABI Publishing

KEY TO ABBREVIATIONS

A Acaricide	Ad Adjuvant
D Desiccant	F Fungicide
GR Growth regulator	H Herbicide
I Insecticide	M Molluscicide
N Nematicide	TR Trace elements

<u>TRADE NAME</u>	<u>FUNCTION</u>	<u>ACTIVE INGREDIENT</u>
Acanto	F	250 g/l picoxystrobin
Ally Max SX	H	14.3:14.3 % w/w metsulfuron-methyl + tribenuron-methyl
Alpha IPU 500	H	500 g/l isoproturon
Amistar	F	250 g/l azoxystrobin

Amistar Opti	F	80:400 g/l azoxystrobin + chlorothalonil
Aphox	I	50% pirimicarb
Azural	H	360 g/l glyphosate
Bravo 500	F	500 g/l chlorothalonil
Corbel	F	750 g/l fenpropimorph
Crystal	H	60:300 g/l flufenacet + pendimethalin
Decis	I	25 g/l deltamethrin
Decoy Wetex	M	2% w/w methiocarb
Duplosan KV	H	600 g/l mecoprop-P
Fandango	F	100:100 g/l fluoxastrobin + prothioconazole
Flexity	F	300 g/l metrafenone
Fludioxonil	F	fludioxonil seed treatment
Folicur	F	250 g/l tebuconazole
Griffin Gex 1664	Ad	900 g/l ethylene oxide concentrate
Hallmark with Zeon Technology	I	100 g/l lambda-cyhalothrin
Ice	H	60:300 g/l flufenacet + pendimethalin
IPU 500	H	500 g/l isoproturon
Jester	H	60:3% w/w bromoxynil + prosulfuron
Lexus Class	H	33.3:16.7% w/w carfentrazone-ethyl + flupyrsulfuron-methyl
Mesuroi	M,I	methiocarb seed treatment
Metalaxyl-M	F	phenlyamide seed treatment
Methiocarb	M,I	methiocarb seed treatment
Moddus	GR	250 g/l trinemapac-ethyl
Opus	F	125 g/l epoxiconazole
Premis		Propyzamide seed dressing
Quantum SX	H	50% w/w tribenuron-methyl
Raxil Pro	F	Prothioconazole + tebuconazole + triazoxide seed dressing
Redigo Twin		Prothioconazole + fluoxastrobin seed dressing
Robust		Imazalil and triticonazole seed dressing
Samson	H	4% nicosulphuron
Sibutol		140:8.6:87.5 g/l bitertanol + fuberidazole
Sibutol Secur		140:8.6:87.5 g/l bitertanol + fuberidazole + imidacloprid
Starane 2	H	200 g/l fluroxypyr
Stomp 400 SC	H	400 g/l pendimethalin
Thiram	F	600 g/l thiram seed treatment
Unix	F	75% w/w cyprodinil
Vivid	F	250 g/l pyraclostrobin
Weedazol-TL	H	225 g/l amitrole