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Results of the Classical and Other Long-term Experiments 2004

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Rothamsted Research

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Table of Contents and Conventions

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List of Experiments in the 2004 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

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
Kieserite	MgSO ₄ .H ₂ O 17.7% magnesium and 23.3% sulphur
Manganese sulphate	Mn ₂ (SO ₄) ₃ 27% manganese and 24% sulphur
Muriate of potash	60% K ₂ O
Nitrate of soda	NaNO ₃ 16% nitrogen and 27% sodium
Rhodoman	A seed dressing containing 500 g/l inorganic manganese
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 ₂ SO ₄ 50% K ₂ O and 18.4% sulphur
Triple superphosphate (TSP)	47% P ₂ O 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	

<u>TRADE NAME</u>	<u>FUNCTION</u>	<u>ACTIVE INGREDIENT</u>
Acanto	F	250 g/l picoxystrobin
Ally	H	20% w/w metsulfuron-methyl
Alpha Simazine 50 SC	H	500 g/l simazine
Amber	Ad	95% methylated vegetable oil
Amistar	F	250 g/l azoxystrobin
Aphox	I	50% w/w pirimicarb
Arelon 500	H	500 g/l isoproturon
Avadex Excel	H	15% tri-allate
Aventis Manganse 500		500 g/l manganese
Biotril 24/16	H	240:160 g/l bromoxynil + ioxynil
Carbetamex	H	70% carbetamide
Crystal	H	360 g/l flufenacet + pendimethalin
Cutonic Copper Ultra		250 g/l copper
Decoy Wetex	M	2% methiocarb
Duplosan KV	H	600 g/l mecoprop-P
Dursban 4	I	480 g/l chlorpyrifos
Egret	H	360 g/l glyphosate

Enhance Low Foam	Ad	900 g/l alkyl phenol ethylene oxide condensate with silicone anti-foaming agent
Folicur	F	250 g/l tebuconazole
Glydate	H	360 g/l glyphosate
Hallmark with Zeon Technology	I	100 g/l lambda-cyhalothrin
Harmony M	H	75% metsulphuron-methyl + thifensulfuron-methyl
Harvest	H	150 g/l glufosinate-ammonium
Landmark	F	125:125 g/l epoxiconazole + kresoxim-methyl
Lexus Class WSB	H	33.3:16.7% w/w carfentrazone-ethyl + flupyrsulfuron-methyl
Mesuro1	M, I	methiocarb seed treatment
Moddus	GR	250 g/l trinexapac-ethyl
Opera	F	50:133 g/l epoxiconazole + pyraclostrobin
Opus	F	125 g/l epoxiconazole
Oxytril CM	H	400 g/l bromoxynil + ioxynil
PDQ	H	80:120 g/l diquat + paraquat
Phase II	AD	95% w/w esterified rapeseed oil
Quantum 75 DF	H	75% tribenuron-methyl
Raxil S	F	20:20 g/l tebuconazole + triazoxide
Samson	H	4% nicosulphuron
Sibutol	F	375:23 g/l biteranol + fuberidazole
Sibutol Secur		140:8.6:87.5 g/l bitertanol + fuberidazole + imidacloprid
Starane 2	H	200 g/l fluroxypyr
Starane XL	H	2.5:100 g/l florasulam + fluroxypyr
Stomp 400 SC	H	400 g/l pendimethalin
Topik	H	240 g/l clodinafop-propargyl
Touchdown	H	330 g/l glphosate
Treflan	H	480 g/l trifluralin
Twist	F	125 g/l trifloxystrobin
Unix	F	75% w/w cyprodinil
Weedazol-TL	H	225 g/l amitrole