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Results of the Classical and Other Long-term Experiments 2005

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Table of Contents and Conventions

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List of Experiments in the 2005 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	$\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ 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	$\text{MgSO}_4 \cdot \text{H}_2\text{O}$ 17.7% magnesium and 23.3% sulphur
Manganese sulphate	$\text{Mn}_2(\text{SO}_4)_3$ 27% manganese and 24% sulphur
Muriate of potash	60% K_2O
Nitrate of soda	NaNO_3 16% nitrogen and 27% sodium
Rhodoman	A seed dressing containing 500 g/l inorganic manganese
Silicate of soda	Na_2SiO_3 37% sodium and 23% silica
Sulphur Gold	30% nitrogen and 7.6% sulphur
Sulphate of ammonia	$(\text{NH}_4)_2\text{SO}_4$ 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	

<u>TRADE NAME</u>	<u>FUNCTION</u>	<u>ACTIVE INGREDIENT</u>
Acanto	F	250 g/l picoxystrobin
Alistel	H	220:30:30 g/l 2,4-DB + linuron + MCPA
Ally SX	H	20% w/w metsulfuron-methyl
Alpha IPU 500	H	500 g/l isoproturon
Amber	Ad	95% methylated vegetable oil
Amistar	F	250 g/l azoxystrobin
Amistar Opti	F	80:400 g/l azoxystrobin + chlorothalonil
Atlantis	H	0.6:3.0% w/w iodosulfuron-methyl-sodium + mesosulfuron-methyl
Atlas Chlormequat 700	GR	700 g/l chlormequat
Azural	H	360 g/l glyphosate
Bravo 500	F	500 g/l chlorothalonil

BioPower	Ad	6.7% w/w 3,6- dioxaeicosylsulphate sodium salt + 20.2 w/w 3,6- dioxaoctadecylsulphate sodium saly
Bromotril P	H	240 g/l bromoxynil
Corbel	F	750 g/l fenpropimorph
Claymore	H	400 g/l pendimethalin
Dow Shield	H	200 g/l clopyralid
Duplosan KV	H	600 g/l mecoprop-P
Dursban 4	I	480 g/l chlorpyrifos
Fandango	F	100:100 g/l fluoxastrobin + prothioconazole
Fludioxonil	F	fludioxonil seed treatment
Folicur	F	250 g/l tebuconazole
Gesaprim	H	500 g/l atrazine
Glyphosate 360	H	360 g/l glyphosate
Hallmark with Zeon Technology	I	100 g/l lambda-cyhalothrin
Harmony M SX	H	4:40% w/w metsulfuron-methyl + thifensulfuron-methyl
Hawk	H	12:383 g/l clodinafop-propargyl + trifluralin
Lexus Class WSB	H	33.3:16.7% w/w carfentrazone- ethyl + flupyrsulfuron-methyl
Lupus	M	3% methiocarb
Mesurool	M, I	methiocarb seed treatment
Metalaxyl-M	F	phenlyamide seed treatment
Methiocarb	M, I	methiocarb seed treatment
Nufarm Cropoil	Ad	99% highly refined mineral oil
Opus	F	125 g/l epoxiconazole
Phase 2	AD	95% w/w esterified rapeseed oil
Raxil S	F	20:20 g/l tebuconazole + triazoxide
Samson	H	4% nicosulphuron
Sibutol Secur		140:8.6:87.5 g/l bitertanol + fuberidazole + imidacloprid
Starane 2	H	200 g/l fluroxypyr
Thiram	F	600 g/l thiram seed treatment
Tolkan Liquid	H	500 g/l isoproturon
Twist	F	125 g/l trifloxystrobin
Unix	F	75% w/w cyprodinil