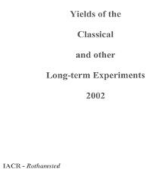
ROTHAMSTED RESEARCH

Yields of the Field Experiments 2002



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Conventions

Rothamsted Research

Rothamsted Research (2003) *Conventions ;* Yields Of The Field Experiments 2002, pp 1 - 4 **- DOI: https://doi.org/10.23637/ERADOC-1-259**

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	$MgSO_4.7H_2O$ 10% magnesium and 13% sulphur
Fishmeal	approximately 6.5% nitrogen
FYM	Farmyard manure (from bullocks)
Gypsum	17.5% sulphur
Kieserite	$MgSO_4H_2O$ 17.7% magnesium and 23.3% sulphur
Manganese sulphate	$Mn_2(SO_4)_3$ 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	$(NH_4)_2SO_4$ 21% nitrogen 24% sulphur
Sulphate of potash	K_2SO_4 50% K_2O and 18.4% sulphur
Tiger 90	90% sulphur

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Thiovit	80% sulphur
Triple superphosphate (TSP)	47% P_2O_5

Cereal straw is removed unless otherwise stated.

In the experimental diary;
T: Refers to treatments applied to part of the experiment.
B: Refers to basal operations and applications to the whole experiment.
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.
Carrier	Drill with rigid tines 11.5 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.
Rotaspike	Spiked rotary cultivator
Rotaridger	Rotary spiked cultivator for forming potato ridges
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
Thistlebar	Shallow cultivator used to weed fallows

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.

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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		

TRADE NAME	FUNCTION	ACTIVE INGREDIENT
Ally	H	20% w/w metsulfuron-methyl
Amistar	F	250 g/l azoxystrobin
Aphox	I	50% w/w pirimicarb
Ardent	H	40:400 g/l diflufenican + trifluralin
Avadex Excel 15G	H	15% w/w tri-allate
Aventis Manganse 500		500 g/l manganese
Barclay Mutiny	H	250 g/l bromoxynil
BASF 3C Chlormequat 720	GR	720 g/l chlormequat
Baytan Flowable	F	22.5:187.5 g/l fuberidazole + triadimenol
Bravo 500	F	500 g/l chlorothalonil
Copper 500		500 g/l copper
Cropoil	AD	99% highly refined mineral oil
Duplosan KV	H	600 g/l mecoprop-P
Egret	H	360 g/l glyphosate
Folicur	F	250 g/l tebuconazole
Gesaprim	H	500 g/l atrazine
Gesatop	H	500 g/l simazine
Hallmark with Zeon Technology	I	100 g/l lambda-cyhalothrin
Hawk	H	12:383 g/l clodinafop-propargyl + trifluralin
Landmark	F	125:125 g/l epoxiconazole + kresoxim-methyl
Legumex Extra	H	27:237:42.8 g/l benazolin + 2, 4-DB + MCPA
Lentagran WP	H	45% w/w pyridate
Lexus Class WSB	H	33.3:16.7% w/w carfentrazone-ethyl + flupyrsulfuron-methyl
Lexus 50 DF	H	50% w/w flupyrsulfuron-methyl
Mesurol	M,I	methiocarb seed treatment
Moddus	GR	250 g/l trinexapac-ethyl
Opera	F	50:133 g/l epoxyconazole + pyraclostrobin
Opus	F	125 g/l epoxiconazole
Phase II	AD	95% w/w esterified rapeseed oil
Raxil S	F	20:20 g/l tebuconazole + triazoxide
Roundup Biactive	H	360 g/l glyphosate
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
Sting ECO	H	120 g/l glyphosate
Stomp 400 SC	H	400 g/l pendimethalin

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Tolkan Liquid	**H**	500 g/l isoproturon
Topik	**H**	240 g/l clodinafop-propargyl
Twist	**F**	125 g/l trifloxystrobin
Unix	**F**	75% w/w cyprodinil

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