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Yields of the Field Experiments 2007

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Conventions

Rothamsted Research

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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.

Anhydrous Sulphate of Soda

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
FYM	Farmyard manure (from bullocks)
Kieserite	$MgSO_4H_2O$ 17.7% magnesium and 23.3% sulphur
Magnesium Sulphate	16% MgO (9.6% Mg), 32% SO_3 (13% S)
Manganese sulphate	$Mn_2 (SO_4)_3$ 27% manganese and 24% sulphur
Muriate of potash	60% K_2O
Nitram	34.5% N as Ammonium Nitrate
Nitraprill	34.5% N (Nitric N 17.3%, Ammoniacal N 17.2%) as Ammonium Nitrate
Nitrate of soda	$NaNO_3$ 16% nitrogen and 27% sodium
Nitro-Chalk	Calcium Ammonium Nitrate 27% N

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Pelleted poultry manure	3.5% N
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
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 12.5cm 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
Plough/N	Furrow slice turned to the North (-/S = South, -/E = East, -/W = West)
Shakerator	Deep tine cultivator with vibrating tines 60cm apart and 45 cm deep
Subsoiler	Deep tine cultivator with vibrating tines 60cm apart and 45 cm deep

Application code: This is used to identify the kind of application
a = application (cultivations, harvest, etc), p = pesticide, f = fertiliser, and s = seed.

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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