ROTHAMSTED RESEARCH

Yields of the Field Experiments 2000

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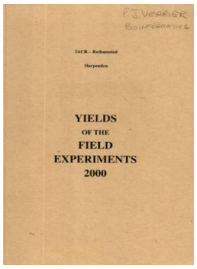

Fertilizers

Rothamsted Research

Rothamsted Research (2001) *Fertilizers ;* Yields Of The Field Experiments 2000, pp 6 - 7 **- DOI: https://doi.org/10.23637/ERADOC-1-55**

CONVENTIONS 2000

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

For each experiment, other than annuals, 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

46% N means nitrogen as urea

Ashlade Nu Trace	5% magnesium and 1% copper
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
Marshland Liquid Manganese Complex	150 g/l manganese, 7.5 g/l magnesium oxide (4.5 g/l Mg) and 223.6 g/l sulphur trioxide (89.4 g/l S)
Muriate of potash	60% K_2O
Nitrate of soda	$NaNO_3$ 16% nitrogen and 27% sodium
Phosyn Manganese	150 g/l manganese
Profol 500	500 g/l manganese
Profol Copper 500	500 g/l copper
Profol RM	5% boron, 7% manganese, 0.4% molybdenum, 13.3% magnesium oxide (8% Mg) and 36.3% sulphur trioxide (14.5% S)

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Fertilizers (continued)

Resistim	10.9% w/w potassium and 6.3% w/w phosphorus combined with natural betaines
Rhodoman	A seed dressing containing manganese
Silicate of soda	Na_2SiO_3 37% sodium and 23% silica
Sulphan	30% nitrogen and 7.6% sulphur
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
Thiovit	80% sulphur
Triple superphosphate	47% P_2O_5
Vytel Manganese	6.4% manganese

Compound fertilizers are indicated as - (20:10:10) = (20% N, 10% P_2O_5, 10% K_2O), granular unless otherwise stated.

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
Fiona	Drill with Suffolk coulters 12 cm apart
Flexitine	Heavy spring-tine cultivator.
Hege	Drill with coulters 14 cm apart
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

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