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## Yields of the Field Experiments 1978

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### 78/R/WF/3 Wheat and Fallow - Wheat

#### Rothamsted Research

Rothamsted Research (1979) *78/R/WF/3 Wheat and Fallow - Wheat* ; Yields Of The Field Experiments 1978, pp 21 - 22 - DOI: <https://doi.org/10.23637/ERADOC-1-30>

78/R/WF/3

WHEAT AND FALLOW

Object: To study the effects of fallowing for one or three years on unmanured winter wheat - Hoosfield.

The 123rd year, winter wheat.

For previous years see 'Details' 1967, 1973 and 74-77/R/WF/3.

Whole plot dimensions: 9.60 x 52.1.

Treatments:

PLOT Phase of fallowing cycle (up to 1978):-

1 FALL1	Plot 1	F	F	F	W	F	W	F	W
-	Plot 2	W	F	W	F	W	F	F	F
3 FALL1	Plot 3	F	W	F	F	F	W	F	W
-	Plot 4	F	F	W	F	W	F	W	F
5 FALL3	Plot 5	F	W	F	W	F	F	F	W
-	Plot 6	W	F	F	F	W	F	W	F
-	Plot 7	F	W	F	W	F	W	F	F
-	Plot 8	W	F	W	F	F	F	W	F

W = wheat, F = fallow.

Basal applications: Weedkillers: Dicamba with mecoprop and MCPA ('Banlene Plus' at 4.9 l in 220 l).

Seed: Cappelle, seed dressed chlorfenvinphos, sown at 200 kg.

Cultivations, etc.:-

Wheat plots: Ploughed: 28 Sept, 1977. Rotary harrowed, seed sown: 19 Oct.

Weedkillers applied: 18 May, 1978. Combine harvested: 30 Aug.

Fallow plots: Ploughed: 28 Sept, 1977, 25 May, 1978. Rolled and heavy spring-tine cultivated: 15 June. Spring-tine cultivated: 26 June.

Ploughed: 5 July. Rolled and spring-tine cultivated: 12 July.

GRAIN TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

PLOT	1 FALL1	3 FALL1	5 FALL3	MEAN
	1.08	1.27	1.27	1.20

GRAIN MEAN DM% 77.0

STRAW TONNES/HECTARE

PLOT	1 FALL1	3 FALL1	5 FALL3	MEAN
	0.59	0.59	0.52	0.57

STRAW MEAN DM% 87.7

PLOT AREA HARVESTED 0.01483

78/R/EX/4

EXHAUSTION LAND

Object: To study the residual effects of manures, applied 1856-1901, on the yield of continuous barley - Hoosfield.

The 123rd year, barley.

For previous years see 'Details' 1967, 1973 and 74-77/R/EX/4.

Treatments: All combinations of:-

Whole plots

1. PLOTFERT(01) Fertiliser and farmyard manure 1876-1901:

1-	Plot 1 None
2-	Plot 2 None
3D	Plot 3 D
4D	Plot 4 D
5N	Plot 5 N
6N*	Plot 6 N*
7NMIN	Plot 7 N P K Na Mg
8N*MIN	Plot 8 N* P K Na Mg
9P	Plot 9 P
10MIN	Plot 10 P K Na Mg

N	- 96 kg N as ammonium salts
N*	- 96 kg N as nitrate of soda
P	- 34 kg P as superphosphate
K	- 137 kg K as sulphate of potash
Na	- 16 kg Na as sulphate of soda
Mg	- 11 kg Mg as sulphate of magnesia
D	- Farmyard manure at 35 tonnes
MIN	- P K Na Mg

Sub plots

2. N Nitrogen fertiliser (kg N as 'Nitro-Chalk 26') (basal until 1975, on a cyclic system since 1976):

0  
48  
96  
144

For a fuller record of treatments see 'Details' 1967 etc.

Basal applications: Weedkillers: Dicamba with mecoprop and MCPA ('Banlene Plus' at 4.9 l in 220 l). Fungicide: Tridemorph at 0.53 kg in 220 l.

Seed: Julia, seed dressed with ethirimol, sown at 160 kg.

Cultivations, etc.: - Ploughed: 28 Sept, 1977. Heavy spring-tine cultivated, harrowed, seed sown: 31 Mar, 1978. N applied: 17 May. Weedkillers and fungicide applied: 26 May. Combine harvested: 9 Sept.