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## Details of the Classical and Long-term Experiments 1968-73

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

#### Rothamsted Research

Rothamsted Research (1977) *R/WF/3 Wheat and Fallow - Wheat* ; Details Of The Classical And Long-Term Experiments 1968-73, pp 14 - 15 - DOI: <https://doi.org/10.23637/ERADOC-1-193>

551-581 (Old Series 1N, 2N, 50,  
5A) Barley 0.0041

\* Harvested in pairs 1968 and 1969. 0.0022 in 1971 as 6 rows harvested per sub-plot instead of 5 as in other years.

Barley was harvested by a small combine (1.4 m cut) on plots 131-444 and by a large combine (2.8 m) on the remainder as were the beans. In 1970 plots 111-724 were used for a comparison of these two combines and a 2.1 m one (See *Yields 1970*, p.257).

(ii) In 1972 and 1973 the 2.1 m combine was used on all cereal and bean plots giving the harvested areas:

Plot	Crop	Area harvested
111-424	Barley	0.0026
611-724	Barley	0.0020
131-444	Barley	0.0014
	Potatoes	0.0019
	Beans	0.0014
551-581	Barley	0.0031

**Soil series.** Batcombe series with small area of Winchester and shallow Batcombe series

## WHEAT AND FALLOW, HOOSFIELD

(R/WF/3)

The wheat and fallow sequences started with a preliminary season in 1855 and following the modification in 1932, have continued unchanged providing a one and a three year fallow comparison. (*Details 1967*, pp 23-24).

**Manuring.** None since 1851

### Cropping, fallowing and weed control

(1) *Crop Sequences.*

New Plot Nos.	Strip A				Strip B			
	A1	A2	A3	A4	B1	B2	B3	B4
1968	W	W	F	W	F	F	F	F
1969	F	F	F	F	F	W	W	W
1970	W	W	W	F	F	F	F	F
1971	F	F	F	F	W	F	W	W
1972	F	W	W	W	F	F	F	F
1973	F	F	F	F	W	W	F	W

F = Fallow W = Wheat

(2) *Variety.* Cappelle, dressed with dieldrin.

(3) *Weedkillers.* 1968-71 Ioxynil with mecoprop  
1972 and 73 Dicamba, with mecoprop and MCPA.

Area harvested. 0.01483  
Soil series. Batcombe series with small area of Hook series.

### EXHAUSTION LAND, HOOSFIELD

(R/EX/4)

Barley has been grown continuously since fallowing in 1967 to test the residual value of manures applied 1856-1901 and N only has been applied subsequently. (*Details 1967*, pp 43-44)

#### Manures

Basal N at 88 kg N has been combine-drilled but no separate plot treatments have been applied.

#### Cropping and weed control

- (1) *Varieties.* 1968-69 Maris Badger  
1970-73 Julia (dressed with ethirimol 1972 and '73)  
All sown at 155 kg
- (2) *Weedkillers.* 1968-70, Dicamba with mecoprop and MCPA  
1972 & '73  
1969-70 Paraquat in autumn  
1971 Bromoxynil with ioxynil and dichlorprop  
1972 Aminotriazole with ammonium thiocyanate in autumn.

Area harvested. 0.03000

Soil Series. Batcombe with small area of Hook series.

#### Reference

Johnston, A.E., Warren, R.G. and Penny A. (1970)  
The value to arable crops of residues accumulated from superphosphate and from potassium fertiliser.  
*Rothamsted Experimental Station. Report for 1969, Part 2, 39-90.*