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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.