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

Rothamsted Research

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79/R/WF/3

WHEAT AND FALLOW

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

The 124th year, winter wheat.

For previous years see 'Details' 1967, 1973 and 74-78/R/WF/3.

Whole plot dimensions: 9.60 x 52.1.

Treatments:

PLOT	Plot number and phase of fallowing cycle (up to 1979):-									
-	Plot 1	F	F	F	W	F	W	F	W	F
2 FALL 3	Plot 2	W	F	W	F	W	F	F	F	W
-	Plot 3	F	W	F	F	F	W	F	W	F
-	Plot 4	F	F	W	F	W	F	W	F	F
-	Plot 5	F	W	F	W	F	F	F	W	F
6 FALL 1	Plot 6	W	F	F	F	W	F	W	F	W
-	Plot 7	F	W	F	W	F	W	F	F	F
8 FALL 1	Plot 8	W	F	W	F	F	F	W	F	W

W = wheat, F = fallow.

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

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

Cultivations, etc.:-

Wheat plots: Ploughed: 9 Oct, 1978. Rotary harrowed: 10 Oct. Seed sown: 11 Oct. Weedkillers applied: 9 May, 1979. Combine harvested: 28 Aug.
 Fallow plots: Ploughed: 9 Oct, 1978. Spring-tine cultivated: 1 May, 1979. Ploughed: 24 May. Heavy spring-tine cultivated: 14 June. Ploughed: 11 July. Heavy spring-tine cultivated: 31 July.

GRAIN TONNES/HECTARE

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

PLOT	6 FALL 1	8 FALL 1	2 FALL 3	MEAN
	1.31	1.16	1.12	1.20

GRAIN MEAN DM% 82.8

STRAW TONNES/HECTARE

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

PLOT	6 FALL 1	8 FALL 1	2 FALL 3	MEAN
	0.37	0.36	0.25	0.33

STRAW MEAN DM% 91.7

PLOT AREA HARVESTED 0.01483