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

Rothamsted Research

Rothamsted Research (1978) *77/R/WF/3 Wheat and Fallow - Wheat* ; Yields Of The Field Experiments 1977, pp 21 - 21 - DOI: <https://doi.org/10.23637/ERADOC-1-29>

77/R/WF/3

WHEAT AND FALLOW

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

The 122nd year, winter wheat.

For previous years see 'Details' 1967, 1973 and 74-76/R/WF/3.

Whole plot dimensions: 9.60 x 52.1.

Treatments:

PLOT Phase of fallowing cycle (up to 1977):-

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

W = wheat, F = fallow.

Basal applications: Weedkillers: Dicamba with mecoprop and MCPA ('Banlene Plus' at 4.9 l in 220 l). Insecticide: Pirimicarb at 0.14 kg in 280 l.

Seed: Cappelle, sown at 200 kg.

Cultivations, etc.:-

Wheat plots: Ploughed: 1 Oct, 1976. Rotary harrowed and seed sown: 24 Nov.

Weedkillers applied: 24 May, 1977. Insecticide applied: 15 July. Combine harvested: 8 Sept.

Fallow plots: Ploughed: 1 Oct, 1976, 18 May, 1977 and 20 July. Spring-tine cultivated: 11 Aug.

GRAIN TONNES/HECTARE

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

PLOT	4/FALL1	6/FALL1	8/FALL3	MEAN
	1.95	2.09	2.49	2.17

GRAIN MEAN DM% 81.1

STRAW TONNES/HECTARE

PLOT	4/FALL1	6/FALL1	8/FALL3	MEAN
	1.21	1.18	1.24	1.21

STRAW MEAN DM% 89.7

PLOT AREA HARVESTED 0.01483