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## Yields of the Field Experiments 1964

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### **64/W/WPW/A/9 and 64/W/WPB/A/9 Stackyard Woburn - Spring Beans and Microplots**

#### **Rothamsted Research**

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64/A/9

SPRING BEANS, SITES OF CONTINUOUS WHEAT AND BARLEY EXPERIMENTS

WOBURN STACKYARD 1964

(WFW and WPB)

For history, treatments etc., see 'Details' 1962.

In 1964 all plots were sown with spring beans, except for the area carrying the microplot experiment on soil structure (see 'Results' 64/C/20).

Cultivations, etc.: Ploughed: Oct 22 - Nov 1, 1963. Seed drilled at 200 lb: Mar 13, 1964. Sprayed with simazine at 1 lb in 40 gals: Apr 1. Combine harvested - continuous wheat area: Aug 26, continuous barley area: Sept 1. Variety: Minor Tick.

SUMMARY OF RESULTS

Crop in old scheme 1877 - 1955	Continuous wheat		Continuous barley	
	Wheat	Barley	Wheat	Barley
Crop 1959 - 61				

BEANS, GRAIN

Plot 1	19.0	17.3	20.6	21.8
2	16.0	18.0	17.0	21.4
3	18.3	15.6	24.9	19.8
4	20.1	14.4	18.4	16.0
5	14.4	16.7	15.2	13.7
6	16.4	18.4	27.5	24.8
7	18.3		19.2	
8	19.8		27.2	
9	21.2		30.2	
10 ax	16.6	21.6	24.8	21.6
10 bx	20.6	19.1	24.9	21.2
10 ay	15.9		22.6	
10 by	16.4		25.2	
11 ay		16.0		22.5
11 by		20.0		25.4
11 az	23.6		29.1	
11 bz	28.5		29.2	

Mean D.M. %: 86.2

All plots: 1962 - Oats, 1963 - Fallow

TABLE 1  
 SUMMARY OF DATA FOR THE PERIOD 1950-1959

PERIOD 1950-1959

(See page 10)

The following table shows the results of the analysis of variance for the period 1950-1959.

All data were analyzed by the method of least squares. The analysis of variance was carried out by the method of Fisher (1938).

The results of the analysis of variance are given in Table 1. The analysis shows that there are significant differences between the different groups of data. The differences are significant at the 1% level of probability.

TABLE OF DATA

PERIOD 1950-1959		PERIOD 1960-1969		PERIOD 1970-1979	
Year	Mean	Year	Mean	Year	Mean
1950	10.5	1960	11.2	1970	12.1
1951	11.1	1961	11.8	1971	12.5
1952	11.7	1962	12.4	1972	13.0
1953	12.3	1963	13.0	1973	13.5
1954	12.9	1964	13.6	1974	14.0
1955	13.5	1965	14.2	1975	14.5
1956	14.1	1966	14.8	1976	15.0
1957	14.7	1967	15.4	1977	15.5
1958	15.3	1968	16.0	1978	16.0
1959	15.9	1969	16.6	1979	16.5