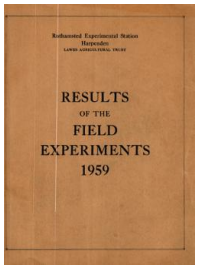
ROTHAMSTED RESEARCH

Yields of the Field Experiments 1959

Full Table of Content



59/R/CC/2 Spring Oats - Frit Fly Study (Sowing Dates)

Rothamsted Research

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CEREALS AND BEANS ROTATIONS

The effect of crop sequences on the incidence of cereal foot and root rot diseases - Great Field I 1959 - the 3rd year.

Design: Three series each of 3 randomized blocks of 6 plots, starting in each of the years 1957, 1958 and 1959.

Area of each plot: 0.0305 acres. Area harvested: 0.0201 acres.

Treatments:

Crop sequences for each series:

1st year:	WW	WW	WW	SW	O	B
2nd year:	WW	O	O	WW	WW	WW
3rd year:	SW	SW	Be	SW	SW	B

WW = Winter wheat, SW = Spring wheat, O = Oats, B = Barley, Be = Beans.

In the 4th year the plots will be split for N, and all cropped with winter wheat.

Basal dressing: 2 cwt compound fertilizer (16% P_2O_5, 16% K_2O) per acre combine drilled with seed; all blocks received 23 cwt ground chalk per acre in Nov 1956.

Nitrogen for cereals: 2.3 cwt 'Nitra-Shell' (20.5% N) per acre to spring wheat and 1.5 cwt 'Nitra-Shell' per acre to oats and barley, all in seedbed. 4.6 cwt 'Nitra-Shell' per acre to winter wheat as spring top dressing, half applied in March and half in May.

Cultivations, etc.: Ploughed: Oct 24, 1958. Beans combine drilled at 275 lb per acre: Nov 26. Winter wheat combine drilled at 2½ bushels per acre: Jan 23, 1959. Oats combine drilled at 4 bushels per acre: Mar 13. 'Nitra-Shell' applied to oats; barley combine drilled at 2 bushels per acre: Mar 14. 'Nitra-Shell' applied to barley and winter wheat: Mar 16. Spring wheat combine drilled at 3 bushels per acre: Mar 17. 'Nitra-Shell' applied to spring wheat: Mar 18. 2nd application of 'Nitra-Shell' to winter wheat, winter wheat, beans and oats sprayed with TCB/MCPA at 4 pints in 40 gallons per acre: May 7. Beans sprayed with demeton methyl at 12 fluid oz (50% active ingredient) in 60 gallons per acre: June 3. Combine harvested: Oats: Aug 5; barley: Aug 7; winter wheat: Aug 12; spring wheat: Aug 21. Varieties: Beans - S.Q; winter wheat - Cappelle; spring wheat - Koga II; barley - Proctor; oats - Sun II. Previous crop: Series starting in 1959; winter beans.

Note. The stand of winter beans was poor and irregular and yields were not recorded.

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