

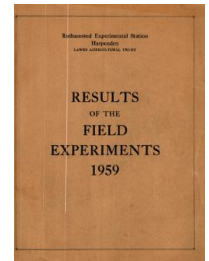
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Yields of the Field Experiments 1959

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59/W/A/9 Stackyard Woburn - Barley

Rothamsted Research

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59/Ba/1.1

SIX COURSE ROTATION EXPERIMENT

The 30th year

Seasonal effects of fertilizers - Rothamsted Long Hoos IV and Woburn Stackyard 1959.

For history, treatments, etc., see "Details of the Classical and Long Term Experiments" 1956.

In 1959 the cereals on the Woburn experiment were combine harvested the yields being estimated from one central cut.

Magnesium test 1959 (Woburn only): Magnesium sulphate was applied to half plots on the potato crop to give a test of MgO chemically equivalent to 0 v 1 cwt K₂O per acre.

Area of each plot (acres): Rothamsted - 0.0250; Woburn - 0.0265.
Area harvested: Rothamsted - full area; Woburn - Sugar beet - full area; Barley, wheat, rye - 0.0101; Potatoes (sub plot) - 0.0095.

Cultivations, etc.:

Rothamsted

Sugar beet.

Ploughed twice: Sept 24, 1958 and Apr 7, 1959. Fertilizers applied, seed drilled at 18 $\frac{3}{4}$ lb per acre: Apr 22. Hand sprayed with miscible DDT at 3 pints in 8 gallons per acre: May 27. Singled: June 4 - 9. Sprayed with demeton methyl at 12 fluid oz in 60 gallons per acre: June 11. Lifted: Oct 26. Harvested: Nov 6 - 14. Variety: Klein E.

Barley.

Sugar beet tops spread: Dec 9, 1958. Ground chalk applied at 19 cwt per acre: Feb 10, 1959. Ploughed: Feb 11. Fertilizers applied: Mar 12. Seed drilled at 2 $\frac{3}{4}$ bushels per acre: Mar 17. Clover seed undersown: Apr 29. Harvested: Aug 4. Variety: Plumage Archer.

Clover.

Seed undersown in barley at 40 lb per acre: Apr 25, 1958. Autumn fertilizers applied: Jan 2, 1959. Sulphate of ammonia applied: Apr 2. Cut: June 17. Variety: S123 Late Flowering Red.

Wheat.

Ploughed twice: July 18 and Oct 17, 1958. Autumn fertilizers applied, seed drilled at 2 $\frac{3}{4}$ bushels per acre: Oct 22. Sulphate of ammonia applied by hand: Apr 2, 1959. Sprayed with CMFP, 6 pints in 40 gallons per acre: Apr 23. Harvested: Aug 4. Variety: Yeoman.

Potatoes.

Ploughed: Oct 17, 1958. Ridged, fertilizers applied, potatoes planted: Apr 14, 1959. Earthed up: June 18. Sprayed with copper fungicide, 5 lb in 40 gallons per acre: Aug 24. Sprayed with

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sulphuric acid, 15% BOV at 100 gallons per acre: Sept 7. Lifted: Sept 28. Variety: Majestic.

Rye.

Ploughed: Oct 17, 1958. Ground chalk applied at 16 cwt per acre, autumn fertilizers applied, seed drilled at 3 bushels per acre: Oct 22. Sulphate of ammonia applied: Apr 3, 1959. Sprayed with CMFP at 6 pints in 40 gallons per acre: Apr 23. Harvested: Aug 4. Variety: King II.

Woburn

Sugar beet.

Ploughed twice: Sept 23 and November 25, 1958. Fertilizers applied: Apr 1, 1959. Seed drilled at 12 lb per acre: Apr 6. Sprayed with dieldrin at 2 pints in 40 gallons per acre: May 26. Singled: May 27. Sprayed with demeton methyl at 12 oz in 40 gallons per acre: June 3 and June 20. Lifted: Oct 28. Variety: Klein E.

Barley.

Ploughed: Nov 1, 1958. Fertilizers applied: Mar 2, 1959. Seed drilled at 3 bushels per acre: Mar 13. Hydrated lime applied at 16 cwt per acre: May 12. Combine harvested: Aug 5. Variety: Herta.

Clover.

Ploughed: Sept 25 and Nov 21, 1958. Fertilizers applied, seed broadcast at 40 lb per acre: Mar 2, 1959. Sprayed with dieldrin at 2 pints in 40 gallons per acre: Apr 30. Sprayed with 2,4-D at 2 pints in 40 gallons per acre: May 12. Ploughed: June 3.

Wheat.

Ploughed twice: July 16 and Sept 25, 1958. Autumn fertilizers applied: Oct 17. Seed drilled at $2\frac{1}{2}$ bushels per acre: Oct 21. Sulphate of ammonia applied: Apr 13, 1959. Sprayed with TCB/MCPA at 4 pints in 40 gallons per acre: Apr 29. Combine harvested: Aug 18. Variety: Yeoman.

Potatoes.

Ploughed twice: Sept 23 and Nov 21, 1958. Fertilizers applied and potatoes hand planted: Apr 8, 1959. Earthed up: June 22. Sprayed with zineb at 2 lb and demeton methyl at 12 oz in 40 gallons per acre: Aug 15. Haulms destroyed mechanically: Sept 22. Lifted: Sept 30. Variety: Majestic.

Rye.

Ploughed: Oct 16, 1958. Ground chalk applied at 22 cwt per acre: Oct 18. Fertilizers applied, seed drilled at $2\frac{1}{2}$ bushels per acre: Oct 21. Sulphate of ammonia applied: Apr 13, 1959. Combine harvested: Aug 18. Variety: King II.

Note: At Woburn the clover was heavily infested with weeds and was therefore abandoned.