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66/W/WBU/C/10 Row Spacing and Fertilisers 1965066 - Barley

Rothamsted Research

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SOIL STRUCTURE 2

Effects of peat (annual applications) and subsoiling (1963 only)
Woburn Stackyard Field, plot 6 of the Continuous Barley site,
early potatoes followed by red beet 1966, the fourth year.

Design: 4 randomised blocks of 5 plots split into two for P.
Two blocks subsoiled.

Area of each plot: 0.0016. Area harvested: Potatoes - 0.0006,
red beet - 0.0011.

Treatments: All combinations of:-

- | | |
|--------------|---|
| Blocks. | 1. Subsoiling: None (O), subsoiled (S) by hand to a depth of 20 inches in 1963. |
| Whole plots. | 2. Peat: None (O), 62.5 cwt peat dry matter applied to top 2 inches of soil in 1965 only (Sb65), 1963-66 cumulative dressings, 62.5 cwt peat dry matter applied annually to top 2 inches of soil alone (Sb), or with peat dug in annually to a depth of 8 inches either at the same rate (Dg1), or at twice the rate (Dg2). |
| Half plots. | 3. Phosphate*: None (O), 75 lb P2O5 (P) applied as triple superphosphate three quarters dug in, and a quarter in the seedbed. |

*not tested on red beet.

Basal applications: Monoammonium phosphate, potassium nitrate, ammonium nitrate and magnesium sulphate to supply 120 lb N, 75 lb P, 150 lb K, 50 lb Mg, to the potatoes, and 200 lb N, 75 lb P, 250 lb K, and 50 lb Mg to red beet. Three quarters being dug in, and a quarter in the seedbed in each case.

Cultivations, etc.:

Early potatoes:

Fertilisers and peat for digging in applied: Mar 25, 1966. All plots dug: Mar 28. Seedbed fertilisers and peat applied, setts planted: Apr 4. Earthed up: May 20. Lifted: July 7.
Variety: Arran Pilot.

Red beet:

Chalk applied at 1 ton: July 15, 1966. Fertilisers applied to seedbed, seedbed prepared, and seed drilled at 30 lb: July 27. Singled to 4 inch spacing: Aug 24. Lifted: Oct 28. Variety: Crimson Globe.