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80/S/RN/2 Rotation II

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80/S/RN/2

ROTATION II

Object: To measure, by crop yields and soil analysis, the residual value of P applied as FYM or superphosphate in the periods 1899-1964 and 1965-1967 and of fresh dressings since - Saxmundham.

Sponsors: G.E.G. Mattingly, A.E. Johnston.

The eleventh year of revised scheme, w. wheat, w. beans.

For previous years see 'Details' 1967 & 1973, and 74-79/S/RN/2.

Whole plot dimensions: 5.49 x 39.8.

Treatments: From 1899-1964 the experiment tested farmyard manure and nitrogen and phosphate fertilisers applied to a rotation of crops. Since 1965 the treatments have been changed to evaluate old residues of P (from FYM and superphosphate) and new residues from treatments applied 1965-1967. All crops of the rotation - potatoes, s. barley, sugar beet, s. barley - were grown until 1974. The whole experiment was sown to s. barley in 1975 and 1976, alternating w. wheat and s. barley from 1977 to 1979, w. beans and w. wheat in 1980. Combinations of the following treatments are tested:

Whole plots

1. RESIDUE

Residues of previous treatments:-

| | | Approximate total dressing 1899-1964 | Total dressing 1965-1967 |
|----------|--------|---|-------------------------------------|
| (O)O | Plot 1 | None | None |
| (D)O | Plot 2 | 400 tonnes FYM | None |
| (DP)O | Plot 3 | 400 tonnes FYM, 2.7 tonnes P205 | None |
| (DP)D2 | Plot 4 | 400 tonnes FYM, 2.7 tonnes P205 | 100 tonnes FYM |
| (DP)D2P1 | Plot 5 | 400 tonnes FYM, 2.7 tonnes P205 | 100 tonnes FYM, 0.56 tonnes P205 |
| (DP)P1 | Plot 6 | 400 tonnes FYM, 2.7 tonnes P205 | 0.56 tonnes P205 |
| (DP)P2 | Plot 7 | 400 tonnes FYM, 2.7 tonnes P205 | 1.13 tonnes P205 |
| (DP52)O | Plot 8 | 326 tonnes FYM, 4.3 tonnes P205 (until 1952 only) | None |

W. beans in 1980 (after w. wheat 1979) tests in addition to 1:-

Sub plots