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Numerical Results of the Field Experiments 1968

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68/A/9 Saxmundham Rotation I

Rothamsted Research

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68/A/9.1

SAXMUNDHAM

ROTATION I 1968

(SA)

For history, treatments, rotations etc. see Rothamsted Report for 1964, pp. 228 - 232 and 'Results' 66/A/10. For previous years' results see 'Results' 64/A/10, 65/A/10, 66/A/10, 67/A/9.

Area harvested:

New treatments, Sugar beet:	0.0072
Barley:	0.0257
Beans and wheat:	0.0230
Old treatments, Sugar beet:	0.0017
Barley, beans and wheat:	0.0014

In 1968 nitrogen was applied to sugar beet, barley and wheat at 1.0 cwt N in spring to all fertiliser plots receiving N. On the N2 plots this dressing was followed by a top-dressing of 0.5 cwt N (based on the needs of the crops as indicated by tissue-analysis). Nitrogen applications to beans and to FYM plots were unaltered.

Cultivations, etc.:

Sugar beet: FYM applied: 7 Sept, 1967. Ploughed: 7 and 18 Sept. Bonemeal applied: 5 Mar, 1968. P and K applied: 14 Mar. 'Nitro-Chalk' applied: 20 Mar. Seed drilled: 27 Mar. Sprayed with pyramin at 2.2 lb in 33 gals: 2 Apr. Singled: 20 May. Sprayed with DDT at 9 oz in 18 gals: 23 May. Additional 'Nitro-Chalk' applied to N2 plots: 25 July. Lifted: 24 Sept - 1 Oct. Variety: Klein E.

Barley: FYM applied, all plots ploughed: 7 Sept, 1967. Bonemeal applied: 5 Mar, 1968. P and K applied: 6 Mar. Seed drilled: 12 Mar. 'Nitro-Chalk' applied: 20 Mar. Sprayed with mecoprop at 27 oz and 2,4-D at 6.75 oz in 18 gals: 3 May. Additional 'Nitro-Chalk' applied to N2 plots: 28 May. Combine harvested: 22 Aug. Variety: Zephyr.

Spring beans: FYM applied: 7 Sept, 1967. Ploughed: 7 - 11 Sept. Bonemeal applied: 5 Mar, 1968. P and K applied: 6 Mar. Seed drilled: 8 Mar. 'Nitro-Chalk' applied: 20 Mar. Sprayed with simazine at 1 lb in 33 gals: 21 Mar. Combine harvested: 9 Sept. Variety: Maris Bead.

68/A/9.2

Winter wheat: FYM applied: 7 Sept, 1967. Ploughed: 7 - 9 Sept.
Bonemeal applied: 16 Sept. P and K applied: 5 Oct. Seed drilled:
9 Oct. 'Nitro-Chalk' applied: 20 Mar, 1968. Sprayed with
mecoprop at 32.5 oz and 2,4-D at 8 oz in 18 gals: 18 Apr.
Additional 'Nitro-Chalk' applied to N2 plots: 15 May.
Combine harvested: 22 Aug. Variety: Cappelle.

68/A/10

SAXMUNDHAM

ROTATION II 1968

(SB)

For history, treatments, rotations, etc. see Rothamsted Report for 1964, pp. 228 - 232 and 'Results' 66/A/11. For previous years' results see 'Results' 64/A/11, 65/A/11, 66/A/11, 67/A/10.

Area of each plot: 0.0273. Area harvested: 0.0149.

Barley was grown over the whole area. No treatments (phosphate or FYM) were applied.

Basal manuring: 3 cwt (25:0:16).

Cultivations, etc.:— Ploughed: 16 - 23 Oct, 1967. Basal NK compound applied: 6 Mar, 1968. Seed drilled: 11 Mar. Sprayed with mecoprop at 36 oz and 2,4-D at 9 oz in 32 gals: 3 May. Combine harvested: 14 Aug. Variety: Zephyr.

SUMMARY OF RESULTS

BARLEY

Plot	Treatment 1966 and 67	GRAIN	STRAW
1	P0	24.2	12.3
2	P0	29.7	15.8
3	P0	34.3	24.2
4	D	32.0	22.2
5	DP1	31.1	23.7
6	P1	31.4	21.5
7	P2	32.7	21.2
8	P0	32.2	21.9
Mean		31.0	20.4

Mean D.M. %: Grain: 84.6
Straw: 84.6

