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Yields of the Field Experiments 1967

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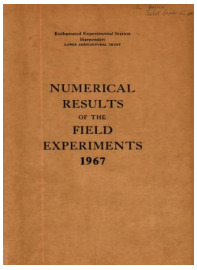

67/S/SA/A/9 Saxmundham - Rotation 1

Rothamsted Research

Rothamsted Research (1968) *67/S/SA/A/9 Saxmundham - Rotation 1 ;* Yields Of The Field Experiments 1967, pp 33 - 35 **- DOI: https://doi.org/10.23637/ERADOC-1-157**

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67/A/9.1

SAXMUNDHAM

ROTATION I 1967

(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.

The plots receiving FYM (excluding beans) received also 'Nitro-Chalk' at 0.5 cwt N (N1).

As large losses of nitrate were measured in the drainage water in early May, a test of extra N was made on the discard areas of the barley plots. There was a marked response, and the barley was therefore top-dressed on June 15 with 'Nitro-Chalk' at 0.25 and 0.5 cwt N to the N1 and N2 plots respectively. Sugar beet plots received similar extra dressings on July 18.

Cultivations, etc.:

Sugar beet: FYM applied: Sept 7, 1966. Ploughed: Sept 8. P,K, bonemeal and 'Nitro-Chalk' applied: Mar 8, 1967. Seed drilled: Mar 30, 1967. Singled: May 15 - 30. Sprayed with demeton-s-methyl: June 12 and July 7. Additional 'Nitro-Chalk' applied: July 18. Lifted: Sept 28. Variety: Klein E.

Barley: FYM applied: Oct 27, 1966. Ploughed: Oct - Dec, P,K and bonemeal applied: Mar 8, 1967. 'Nitro-Chalk' applied, seed drilled: Mar 22. Sprayed with mecoprop/2,4-D (Methoxone Extra): May 26. Additional 'Nitro-Chalk' applied: June 15. Combine harvested: Aug 17. Variety: Proctor.

Spring beans: FYM applied: Nov 4, 1966. Ploughed: Nov - Dec. P,K and bonemeal applied: Oct 13. Seed drilled at 260 lb: Mar 13, 1967. Sprayed with simazine at 1 lb in 32 gals: Mar 25. Sprayed with demeton-s-methyl at 3 oz in 37 gals: June 12. Combine harvested: Aug 24. Variety: Spring Tick.

Winter wheat: FYM applied: Sept 7. Ploughed: Sept 8. P,K and bonemeal applied: Oct 13. Seed drilled: Oct 14. 'Nitro-Chalk' applied: Mar 15, 1967. Sprayed with mecoprop/2,4-D (Methoxone Extra at 7 pints in 20 gals): Apr 27. Combine harvested: Aug 17. Variety: Cappelle.

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SUMMARY OF RESULTS

NEW TREATMENTS

Treatment 1899 - 1965	Treatment from 1966	SUGAR BEET Roots	Sugar %	Total sugar	Tops	BARLEY Grain	Straw	SPRING BEANS Grain	WINTER WHEAT Grain	Straw
D	DN1	19.18	17.4	66.6	5.96	24.0	14.4	23.2	45.3	47.2
B	B	5.24	16.9	17.7	2.13	11.8	6.8	17.5	14.0	13.7
N	N2P2	15.78	16.8	53.0	6.12	25.0	14.3	18.8	34.3	33.6
P	N1P1	10.80	17.0	36.8	4.03	16.5	6.6	18.6	27.7	27.1
K	N1P2K	11.95	18.4	43.9	3.73	16.2	6.0	17.0	25.9	21.7
-	N1P2	10.74	17.3	37.1	3.86	15.0	6.7	18.8	21.0	20.6
PK	N1P1K	11.75	17.5	41.2	3.93	20.8	11.0	22.8	29.2	20.7
NK	N2P2K	17.29	17.3	59.9	6.22	26.4	14.6	22.9	38.8	32.9
NP	N2P1	17.74	16.7	59.3	7.60	24.8	14.2	16.3	36.8	36.8
NPK	N2P1K	16.27	17.6	57.2	6.51	24.9	12.5	21.7	35.3	33.3
Mean		13.67	17.3	47.3	5.01	20.5	10.7	19.7	30.8	28.8
Mean D.M. %:						78.0	76.5	80.3	80.1	80.0

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SUMMARY OF RESULTS

OLD TREATMENTS

Plot No	Treatment 1899-1967	SUGAR BEET Roots	Sugar %	Total sugar	Tops	BARLEY Grain	Straw	SPRING BEANS Grain	WINTER WHEAT Grain	Straw
1	D	12.36	17.3	42.7	3.60	16.6	14.1	17.2	35.1	54.3
2	B	5.76	17.7	20.4	2.64	14.2	12.6	21.0	15.9	23.8
3	N	9.12	18.5	33.7	2.52	12.7	11.5	11.5	19.5	34.8
4	P	5.76	17.1	19.7	2.40	11.7	11.0	16.4	15.8	27.0
5	K	4.20	18.3	15.4	1.92	7.7	7.6	8.2	12.9	24.3
6	-	4.68	17.5	16.4	2.04	6.3	6.6	8.0	9.1	19.1
7	PK	6.96	18.1	25.3	2.76	8.1	7.5	15.6	15.3	26.9
8	NK	9.60	18.5	35.4	4.32	12.6	10.9	12.0	22.2	39.1
9	NP	9.36	18.1	33.9	3.36	15.8	14.3	19.2	29.1	44.7
10	NPK	8.52	18.4	31.4	4.32	17.5	15.3	19.3	32.4	54.9
Mean		7.63	17.9	27.4	2.99	12.3	11.2	14.8	20.7	34.9
Mean D.M. %:						69.0	57.9	78.4	77.5	65.9

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