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Yields of the Field Experiments 1964

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64/S/SA/A/10 Saxmundham - Rotation 1

Rothamsted Research

Rothamsted Research (1965) *64/S/SA/A/10 Saxmundham - Rotation 1* ; Yields Of The Field Experiments 1964, pp 37 - 38 - DOI: <https://doi.org/10.23637/ERADOC-1-160>

64/A/10.1

SAXMUNDHAM

ROTATION I

(SA)

The long term effects of manuring on a poor clay-loam soil - Harwoods Field 1964, the sixty fifth year. See Rothamsted Report for 1964, pp 228-232.

Rotation: Mangolds and sugar beet, barley, peas, winter wheat.

Design: 4 blocks of 10 plots each, one block for each crop.

Area of each plot: 0.0546. Area harvested: Wheat and barley - 0.0500, sugar beet and mangolds - 0.0114.

Treatments: 6 tons dung (D), 4 cwt bone meal (B) and all combinations of:-

1. Nitrate of soda (N): None, 2 cwt
2. Superphosphate (P): None, 2 cwt
3. Muriate of potash (K): None, 1 cwt.

Basal dressing: None.

Cultivations, etc.:-

- Mangolds and sugar beet. Dung applied: Sept 17, 1963. Ploughed: Oct 11. Bone meal applied: Mar 2, 1964. Superphosphate applied: Mar 12. Seed drilled at 7 lb per acre: Apr 13. Nitrate of soda applied: Apr 30. DDT applied at 14 lb powder: May 6. Muriate of potash applied: May 7. Singled: May 22. Sugar beet sprayed (no details): June 27. Sugar beet sprayed with demeton methyl: July 24. Harvested: Sept 30. Varieties: Mangolds - Golden Tankard, sugar beet - Klein E.
- Barley. Dung applied: Oct 28, 1963. Ploughed: Oct 29. Bone meal applied: Mar 2, 1964. Superphosphate applied, seed drilled at 2.75 bushels: Mar 11. Nitrate of soda applied: Apr 30. Muriate of potash applied: May 7. Harvested: Aug 13. Variety: Proctor.
- Peas. Dung applied: Oct 28, 1963. Ploughed: Oct 29. Bone meal applied: Mar 2, 1964. Superphosphate applied: Mar 12. Nitrate of soda applied: Mar 23. Seed drilled at 12 stones: Apr 9. Muriate of potash applied: Apr 30. Peas ploughed up because of bird damage: June 23. Variety: Lincoln Blue.
- Winter wheat. Dung applied: Sept 15, 1963. Ploughed: Sept 16. Bone meal, superphosphate and muriate of potash applied: Sept 26. Seed drilled: Sept 27. Nitrate of soda applied: Mar 23, 1964. Harvested: Aug 5. Variety: Cappelle.

64/A/10.2

SUMMARY OF RESULTS

Former Treatment plot no.	1964	Mangolds Roots + tops	Roots	Sugar beet Sugar Total % sugar Tops	Barley Grain Straw	Wheat Grain Straw
1	D	11.86	9.78	19.9	21.3	25.3
2	B	3.97	3.20	18.9	7.4	18.2
3	N	1.65	0.71	17.5	11.7	21.3
4	P	3.85	3.10	19.0	5.2	19.7
5	K	0.98	0.65	18.5	2.0	9.9
6	O	1.41	1.10	18.5	2.8	13.9
7	PK	2.55	2.28	19.6	3.1	18.1
8	NK	1.10	0.92	19.6	11.1	20.8
9	NP	7.62	5.48	19.5	14.4	27.4
10	NPK	8.25	7.13	20.0	16.1	25.2
Mean		4.33	3.44	19.1	9.5	20.0
Mean D.M.%:				13.4	12.7	34.2
				1.26	84.1	83.5
				3.02	89.3	87.0
				39.0		
				12.1		
				2.5		
				11.8		
				2.4		
				4.1		
				8.9		
				3.6		
				21.4		
				28.5		