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Yields of the Field Experiments 1964

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64/S/SB/A/11 Saxmundham - Rotation 2

Rothamsted Research

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64/A/11.1

SAXMUNDHAM

ROTATION II

(SB)

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

Rotation: Mangolds and sugar beet, barley, peas, winter wheat - two courses present each year (1964 mangolds and sugar beet, winter wheat).

Design: 2 blocks of 7 plots each, one block for each course present.

Area of each plot: 0.0545. Area harvested: Mangolds and sugar beet - 0.0114, winter wheat - 0.0500.

Treatments: 10 tons dung (D), 1.5 cwt nitrate of soda (N), 7.5 cwt superphosphate (P) applied as follows:-

	Plot						
Crop	1	2	3	4	5	6	7
Roots	-	-	NP	D	D	P	P
Barley	-	-	-	-	-	-	N
Peas	-	-	-	-	P	-	-
Wheat	-	D	D	NP	N	DN	D

Basal dressing: None.

Cultivations, etc.:-

Mangolds and sugar beet. Dung applied: Sept 11, 1963. Ploughed: Sept 12. Superphosphate applied: Mar 11, 1964. Seed drilled at 7 lb: Apr 8. Nitrate of soda applied: Apr 30. DDT applied at 14 lb powder: May 5. Singled: May 19 - 27. Sprayed (no details): June 27. Sprayed with demeton methyl: July 24. Harvested: Sept 28. Varieties: Sugar beet - Klein E, mangolds - Golden Tankard.

Winter wheat. Nitrate of soda applied: Mar 23, 1964. Harvested: Aug 5. Variety: Cappelle.

64/A/11.2

SUMMARY OF RESULTS

Plot no.	Treatment 1964	Mangolds Roots + tops	Sugar beet			
			Roots	Sugar %	Total sugar	Tops
1	-	0.75	0.88	20.0	3.5	0.47
2	-	4.44	2.71	20.9	11.3	0.86
3	NP	12.96	7.78	21.2	32.9	2.20
4	D	7.70	4.42	20.9	18.5	1.18
5	D	10.88	6.13	20.9	25.7	1.81
6	P	9.07	6.76	20.7	28.0	2.00
7	P	8.05	7.03	20.6	29.0	2.16
Mean		7.69	5.10	20.7	21.3	1.53

		Wheat	
		Grain	Straw
1	-	10.6	18.4
2	D	26.7	43.2
3	D	28.0	40.5
4	NP	29.3	45.3
5	N	27.4	46.0
6	DN	33.3	55.6
7	D	30.2	45.2
Mean		26.5	42.0
Mean D.M. %:		83.2	80.2