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Yields of the Field Experiments 1965

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

Rothamsted Research

Rothamsted Research (1966) *65/S/SA/A/10 Saxmundham - Rotation 1* ; Yields Of The Field Experiments 1965, pp 33 - 34 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

65/A/10.1

SAXMUNDHAM

ROTATION I 1965

(SA)

For history, treatments, rotations etc. see Rothamsted Report for 1964, pp. 228-232 and 'Results' 64/A/10.

The rotation is now sugar beet, barley, fallow, winter wheat. Manures are applied as hitherto, but the fallow receives dung, bonemeal, P and K but no nitrogen.

Area of each plot: 0.0546. Area harvested: Wheat and barley - 0.0275, sugar beet - 0.0107.

Cultivations, etc.:-

Sugar beet: Dung applied: Sept 21, 1964. Ploughed: Nov 10.

Bonemeal, superphosphate and muriate of potash applied:

Mar 17, 1965. Seed drilled: Apr 7. DDT applied: May 7.

Singled: May 15 - 29. Nitrate of soda applied: May 17.

Lifted: Oct 18. Variety: Klein E.

Barley: Dung applied: Nov 3, 1964. Ploughed: Nov 16. Bonemeal,

superphosphate and muriate of potash applied: Mar 15, 1965.

Seed drilled at 150 lb: Mar 30. Sprayed with hormonal

weedkiller: May 12. Nitrate of soda applied: May 17.

Combine harvested: Aug 31. Variety: Proctor.

Fallow: Dung applied: Sept 22, 1964. Ploughed: Nov 14.

Bonemeal, superphosphate and muriate of potash applied:

Apr 3, 1965. Ploughed 3 times: Apr 5, June 3 and

July 19 - 31.

Winter wheat: Ploughed: July 28 - Aug 20, 1964. Dung applied

and ploughed in: Sept 18. Bonemeal, superphosphate and

muriate of potash applied, seed drilled at 160 lb: Nov 6.

Nitrate of soda applied: Mar 6, 1965. Sprayed with hormonal

weedkiller: May 12. Combine harvested: Aug 31. Variety:

Cappelle.

65/A/10.2

SUMMARY OF RESULTS

Former Treatment plot no. 1965		Sugar beet					Barley		Wheat	
		Roots	Sugar %	Total sugar	Plant Tops	Plant Number	Grain	Straw	Grain	Straw
1	D	13.88	18.4	51.0	9.31	42.3	23.2	10.7	29.4	18.1
2	B	9.96	18.4	36.6	3.20	34.9	9.8	3.0	20.9	11.1
3	N	2.88	17.3	10.0	2.24	23.3	12.4	5.3	24.6	12.7
4	P	7.55	18.8	28.4	2.62	33.7	5.4	1.3	15.9	9.8
5	K	2.42	18.0	8.7	1.25	21.3	3.7	0.7	13.9	9.4
6	O	1.41	16.6	4.7	1.66	21.6	6.4	2.1	18.2	11.8
7	PK	6.79	18.9	25.6	1.91	26.8	5.9	0.6	16.9	10.2
8	NK	0.89	15.8	2.8	1.29	18.2	8.8	2.0	26.5	10.0
9	NP	10.23	18.7	38.2	3.07	29.7	23.6	10.4	24.3	10.5
10	NPK	11.00	18.8	41.4	3.12	30.4	21.2	7.6	24.8	13.2
Mean		6.70	18.0	24.7	2.97	28.2	12.0	4.4	21.5	11.7
Mean D.M. %:							81.3	80.6	78.9	76.8