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Yields of the Field Experiments 1965

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65/R/RP/B/7 Residual Phosphate Rotation

Rothamsted Research

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65/B/7.1

RESIDUAL PHOSPHATE ROTATION

(RP)

The long term and residual effects of a number of phosphate fertilisers compared with superphosphate - Great Field IV and Sawyers I 1965, the sixth year.

For treatments and rotation, etc. see 'Results' 63/B/8 and for previous years' results see 60/B/9, 61/B/8, 62/B/8, 63/B/8 and 64/B/7.

Area of each plot:

Great Field IV: 0.0193. Area harvested: Potatoes and barley - 0.0129, swedes - 0.0096.

Sawyers I: 0.0212. Area harvested: Potatoes and barley - 0.0141, swedes - 0.0106.

Treatments 4 and 5 (all crops) received 0.75 and 1.5 cwt P2O5 respectively in 1965 (as granular superphosphate).

Cultivations, etc. (both fields): Ploughed: Oct 27, 1964.

Potatoes: Fertilisers applied: Apr 8, 1965. Potatoes planted: Apr 14. Earthed up: June 17. Sprayed 3 times with mancozeb at 1.2 lb in 37 gals: July 1, July 27, Aug 10. Sprayed with undiluted BCV at 15 gals: Sept 2. Lifted: Oct 12.

Barley: Fertilisers applied: Feb 25, 1965. Seed drilled at 120 lb: Mar 17. Sprayed with mecoprop/2,4-D (Methoxone Extra at 6 pints in 40 gals): May 19. Combine harvested: Sept 15.

Swedes: Fertilisers applied: May 10, 1965. Seed drilled at 2 lb: May 11. Singled: June 21. Lifted: Nov 24.

Standard errors per plot.

Sawyers I:

Potatoes, total tubers: 0.963 or 5.7% (11 d.f.)

Barley, grain: 1.75 or 4.5% (11 d.f.)

Swedes, roots: 2.233 or 11.8% (11 d.f.)

65/B/7.2

SUMMARY OF RESULTS

POTATOES

Treat-ment	TOTAL TUBERS		PERCENTAGE WARE	
	Great Field IV Mean	Sawyers I Mean	Great Field IV Mean	Sawyers I Mean
		(±0.681)		
1	15.33	13.89	96.7	96.4
2	18.86	15.71	96.7	98.1
3	19.53	18.31	96.7	97.0
4	19.88	18.31	97.2	96.9
5	20.84	18.70	95.1	97.6
6	18.03	17.18	96.3	97.0
7	17.11	16.87	97.0	96.7
8	17.11	16.49	97.2	97.7
9	17.42	16.41	97.5	97.7
10	16.53	15.14	97.4	96.8
11	17.46	16.99	97.2	96.7
12	17.77	16.98	97.2	96.8
Mean	17.99	16.75	96.9	97.1

BARLEY

	GRAIN		STRAW	
			(±1.24)	
1	27.2	37.4	36.6	30.1
2	30.0	39.3	35.3	31.8
3	26.7	39.1	30.9	34.0
4	24.8	40.6	27.8	32.1
5	28.8	43.2	47.1	37.5
6	31.6	38.8	31.8	29.2
7	29.1	38.7	30.7	32.0
8	26.5	39.9	32.2	32.4
9	30.1	39.0	37.9	31.4
10	25.0	37.1	31.8	31.3
11	29.6	38.4	30.0	29.6
12	28.5	38.0	32.5	30.2
Mean	28.2	39.1	33.7	31.8
Mean D.M. %:	73.5	76.5	84.2	87.4

65/B/7.3

SWEDES, ROOTS

Treat-ment	Great Field IV Mean	Sawyers I Mean
		(±1.579)
1	6.99	6.40
2	21.44	21.61
3	23.98	22.52
4	24.59	23.68
5	27.87	25.34
6	18.43	20.35
7	19.91	17.32
8	20.14	21.11
9	18.94	16.44
10	18.06	17.36
11	17.36	15.95
12	18.52	19.83
Mean	19.69	18.99