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Numerical Results of the Field Experiments 1968

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68/B/5 Residual Phosphate Rotation - Potatoes, Barley, Swede

Rothamsted Research

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68/B/5.1

RESIDUAL PHOSPHATE ROTATION

(RP)

The long term and residual effects of phosphate fertilisers - Great Field IV and Sawyers I, the 9th year. For treatments and previous years' results see 'Details' 1967 and 'Results' 67/B/6.

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.

The basal nitrogen for barley is now 0.8 cwt N on Sawyers and 0.4 cwt N on Great Field IV, applied as 'Nitro-Chalk'.

Cultivations, etc. (both fields):- Ploughed: 20 Nov, 1967.

Potatoes: Fertilisers applied: 28 Mar, 1968. Plots rotary cultivated, potatoes planted: 28 Mar. Sprayed with paraquat at 0.38 lb ion and linuron at 0.75 lb in 36 gals: 3 May. Sprayed 3 times with mancozeb at 1.2 lb in 37 gals: 3 July, 19 July, 5 Aug. The spraying on 19 July included demeton-s-methyl at 3.5 oz. Sprayed with undiluted BOV at 15 gals: 30 Aug. Lifted: 2 Oct.

Barley: Fertilisers applied, seed drilled at 140 lb: 29 Feb, 1968. Combine harvested: 20 Aug.

Swedes: Fertilisers applied: 21 May, 1968. Seed drilled at 1.25 lb: 22 May. Singled: 26 June - 10 July. Lifted: 19 Nov.

Standard errors per plot.

Sawyers I:

Potatoes: 0.899 or 7.0% (11 d.f.)

Barley: 2.29 or 7.5% (11 d.f.)

Swedes: 1.586 or 12.9% (11 d.f.)

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SUMMARY OF RESULTS

POTATOES

Treat- ment	TOTAL TUBERS		PERCENTAGE WARE	
	Great Field IV Mean	Sawyers I Mean	Great Field IV Mean	Sawyers I Mean
		(± 0.636)		
O	11.87	12.27	97.8	97.7
A1	12.91	13.30	97.2	97.8
A2	12.32	13.48	96.2	97.3
A3	13.41	14.46	97.5	96.7
A4	14.25	14.89	96.1	97.2
T1	10.26	9.97	95.4	96.5
T2	13.16	12.20	97.3	98.2
R2	12.12	12.90	96.7	97.5
R3	13.89	13.79	97.0	97.0
R4	15.23	14.81	97.4	97.0
G1	11.42	10.79	96.6	96.6
S1	12.39	11.76	96.6	97.8
Mean	12.77	12.88	96.8	97.3

BARLEY

	GRAIN		STRAW	
		(± 1.62)		
O	25.4	27.6	31.4	35.3
A1	26.1	31.7	33.0	40.8
A2	25.8	33.5	33.6	50.1
A3	23.1	30.8	43.0	48.4
A4	24.9	31.0	32.5	45.0
T1	25.6	32.0	29.3	37.0
T2	26.8	31.4	32.1	38.2
R2	22.2	27.4	39.8	48.0
R3	26.6	33.4	44.8	44.4
R4	22.4	25.1	59.5	45.0
G1	27.6	32.2	27.5	37.2
S1	25.3	29.8	30.1	39.0
Mean	25.2	30.5	36.4	42.4
Mean D.M. %:	82.0	82.4	86.1	91.7

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SWEDES, ROOTS

Treat -ment	Great Field IV Mean	Sawyers I Mean
		(± 1.122)
O	8.20	3.05
A1	20.09	13.20
A2	21.30	15.15
A3	23.71	15.81
A4	19.77	15.36
T1	14.31	7.32
T2	18.34	10.57
R2	21.21	14.06
R3	22.04	17.76
R4	22.83	17.47
G1	15.37	7.93
S1	11.71	9.70
Mean	18.24	12.28