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# Yields of the Field Experiments 1965



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# 65/R/C/28 Rate of Action of P Fertilisers - Early Potatoes and Radishes

## **Rothamsted Research**

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65/c/28.1

### EARLY POTATOES FOLLOWED BY RADISHES

The rate of action of P fertilisers, Sawyers II 1965, the first year.

Design: 4 replicates of 7 x 2 x 2 plus 2 plots per block without P, 8 blocks of 16 plots.

Area of each plot. Area harvested.
Potatoes: 0.0018 0.0009
Radishes: 0.0006 0.0003

Treatments: No P (0) (2 plots per block) and all combinations of:-

1	Ospratic iertilisers:	
	Triple superphosphate	(S)
	Potassium metaphosphate	(K)
	Triple superphosphate plus potassium metaphosphate*	(SK)
	Magnesium ammonium phosphate	(M)
	Triple superphosphate plus magnesium ammonium phosphate*	(SM)
	Potassium metaphosphate plus magnesium ammonium	
	phosphate*	(KM)
	Triple superphosphate plus potassium metaphosphate plus	
	magnesium ammonium phosphate*	(SKM)

- \* Each material supplying half the P (one third in treatment SKM).
- 2. Levels of P: 24 lb (L1), 48 lb (L2) P.
  - 3. Type of fertiliser: Powder, less than 1 mm. (P), granular 2-5 mm. (G).
- All applied to potatoes with 'Nitro-Chalk', muriate of potash and kieserite in amounts adjusted to give a total of 100 lb N, 200 lb K and 50 lb Mg.
- Basal applications: Ground chalk at 15 cwt. To radishes: 60 lb N and 50 lb K as (16:0:16).
- Cultivations, etc.: Ploughed: Jan 11, 1964. Limed: Mar 3, 1965.

  Potatoes: Fertilisers applied: Apr 5, 1965. Fertilisers rotary cultivated in, potatoes planted on the flat: Apr 6. Harvested: July 13. Variety: Arran Pilot.
  - Radishes: Basal NK applied and rotary cultivated in, seed drilled at 15 lb: July 19, 1965. Harvested: Sept 10. Variety: French Breakfast.

Previous crops: Spring wheat 1963 and 1964.

NOTE: The soil was sampled in December 1964 for P determination.

65/c/28.2

Standard errors per plot.

Potatoes, Total tubers: 1.134 or 12.2% (90 d.f.)
Radishes, Fresh weight: 1.511 or 13.2% (90 d.f.)

### SUMMARY OF RESULTS

	٥	S	K	SK	M	SM	KM	SKM	Mean
		-	PC	TATCES:	TOTAL	TUBERS	8100		######################################
									(±0.152)
Mean	6.02	11.26	9.44	10.93	8.09	9.65	8.87	9.91	9.27*
11 12	Fores					8.38			8.78 10.69
P G	ery acri	10.38	10.62	11.38	9.97	9.96 9.35	9.78 7.95	10.38	10.35
		RAI	ISHES:	FRESH W	T: TONS	PER AC	RE		
-	28 201								(±0,202)
Mean	5.43	12.05	12.28	12.07	12.46	11.93	12.75	12.62	11.45*
12								12.18	11.18

11.80 11.27 11.37 12.46 11.41 11.64 12.87 12.30 13.28 12.77 12.47 12.44 13.85 12.38

<sup>\*</sup> General mean