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Yields of the Field Experiments 1966



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66/R/C/21 Rate of Action of P Fertilisers 1966-67 - Early Potatoes and Radishes

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66/C/21.1

EARLY POTATOES FOLLOWED BY RADISHES

(ER)

The rate of action of P fertilisers, Delharding, 1966, the first year.

Design: 3 replicates of 7 x 2 x 2 plus 2 plots per block without P, in 6 blocks of 16 plots.

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

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

1.	Phosphatic fertilisers:	(0)
	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 (12) P.
 - 3. Type of fertiliser: Powder, less than 1 mm. (P), granular 1-4 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). Weedkiller: To potatoes: 1 lb linuron plus 0.75 lb ion paraquat in 50 gals. Insecticide: To radishes: DDT at 5 oz in 40 gals.
- Cultivations, etc.: Ploughed: Oct 25, 1965. Limed: Mar 2, 1966.

66/C/21.2

Potatoes: Fertilisers applied: Mar 28, 1966. Rotary cultivated, potatoes planted: Mar 30. Weedkiller applied: Apr 28. Harvested: July 11. Variety: Arran Pilot.

Radishes: Rotary cultivated, basal NK applied, seed drilled at 25 lb: July 14, 1966. Insecticide applied: July 25.

Harvested: Sept 6. Variety: French Breakfast. Previous crops: Fallow 1964 and 1965.

NOTE: The soil was sampled in spring 1966 for P determination.

Standard error per plot.

Potatoes, Total tubers: 1.000 or 11.2% (59 d.f.)
Radishes, Fresh weight: 2.004 or 12.0% (60 d.f.)

66/c/21.3

SUMMARY OF RESULTS

	0	S	K	SK	М	SM	KM	SKU	Mean
			POT	ATOES:	TOTAL T	UBERS			
	5.62	10.09	9.34	9.96	8.25	10.28	9.01	9.08	8.95
(±0.289	89) (±0.408)						(±0.134)		
L1 L2		8.85 11.33	8.85 9.82	8.84		9.63	7.83 10.18	8.05 10.12	
P G		10.45 9.73	9.28 9.39	9.86 10.05	9.41 7.10	10.62 9.93	9.99 8.02	9.76 8.41	
RADISHES: FRESH WT.									
Mean		17.50	19.76	17.83	18.29	17.89	17.55	17.35	16.63
(±0.578	5)	(±0.818)						(±0.268)	
L1 L2		15.91 19.08	18.08 21.44	16.17	15.31 21.26	16.07 19.72	16.20 18.90	16.61	A STATE OF THE STA
P G		17.16 17.83	18.05 21.48	16.65 19.01	18.07 18.50		16.79 18.30	16.87 17.83	