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Yields of the Field Experiments 1948

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48/CD/3 Potatoes - Time of Planting

Rothamsted Research

Rothamsted Research (1949) *48/CD/3 Potatoes - Time of Planting* ; Yields Of The Field Experiments 1948, pp 83 - 85

48/Ca/3.1

POTATOES

The effects of four times of planting, of dung, sulphate of ammonia, superphosphate and muriate of potash.

RP - Sawyers II, 1948

System of replication: 4 randomized blocks of 16 plots each, certain high order interactions being confounded with block differences.

Area of each plot: 0.0133 acre

Treatments:

Time of planting: 10th April, 24th April, 8th May, 22nd May.

Dung: None, 15 tons F.Y.M. per acre

Sulphate of ammonia: None, 0.6 cwt. N per acre

Superphosphate: None, 0.6 cwt. P_2O_5 per acre

Muriate of Potash: None, 1.0 cwt. K_2O per acre.

Cultivations: Whole experiment; Ploughed: during Jan. Cultivated: Mar 16
Tooth harrowed: Mar 25. Sprayed with Perenox: Aug 10. Sprayed with
20% B.O .V. to kill off haulm: Sept 15. Lifted: Oct 4-5.

1st planting; Bouted: Apr 8. Artificially applied: Apr 9.

Dung applied, potatoes planted and covered in: Apr 10. Rolled ridges:
Apr 12. Chain harrowed: May 18. Grubbed: June 14 and again June 19.
Earthed up: June 21.

2nd planting; Ridged, dung and artificially applied, potatoes
planted and covered in: Apr 24. Rolled ridges: May 6. Chain harrowed:
May 18. Grubbed: June 14 and again June 19. Earthed up: June 26.

3rd planting; Thistles cut, ridged, dung and artificially
applied, potatoes planted and covered in: May 7. Rolled ridges: May 8.
Chain harrowed: June 5. Weeded: July 5. Earthed up: July 7.

4th planting; Thistles cut: May 7. Dung and artificially
applied, potatoes planted and covered in: May 21. Rolled ridges: May 22.
Chain harrowed: June 5. Weeded: July 5. Earthed up: July 29.

Variety: Majestic (Scotch A), Previous crop: Barley.

Standard error per plot: Total tubers, ± 1.98 tons per acre or 21.0% (34 d.f.)

Total tubers: tons per acre

48/Ca/3.2

	Time of Planting				Mean
	10th April	24th April	8th May	22nd May	
Mean (± 0.496)	12.15	9.22	9.42	6.91	9.42
No Dung (± 0.701)	10.75	8.35	8.61	7.10	8.71
Dung	13.55	10.08	10.23	6.71	10.14
Response to Dung (± 0.992)	2.80	1.73	1.62	-0.39	1.43 ⁽¹⁾
No Nitrogen (± 0.701)	11.96	9.53	8.92	6.54	9.24
Nitrogen	12.34	8.91	9.92	7.28	9.61
Response to Nitrogen (± 0.992)	0.38	-0.62	1.00	0.74	0.37 ⁽¹⁾
No Superphosphate (± 0.701)	10.98	8.63	9.46	7.36	9.11
Superphosphate	13.32	9.81	9.38	6.46	9.74
Response to Superphosphate (± 0.992)	2.34	1.18	-0.03	-0.90	0.63 ⁽¹⁾
No Potash (± 0.701)	11.22	9.19	9.17	6.83	9.10
Potash	13.08	9.25	9.68	6.99	9.75
Response to Potash (± 0.992)	1.86	0.06	0.51	0.16	0.65 ⁽¹⁾
Standard Error (1) ± 0.496					

48/00/3.3

Responses to Treatments ± 0.701

Response to	Dung		Sulphate of Ammonia		Super-Phosphate		Muriate of Potash	
	Abs.	Pres.	Abs.	Pres.	Abs.	Pres.	Abs.	Pres.
Dung	-	-	1.14	1.74	1.69	1.19	1.97	0.91
Sulphate of ammonia	0.07	0.67	-	-	0.41	0.33	0.60	0.14
Super-phosphate	0.89	0.39	0.68	0.60	-	-	0.58	0.70
Muriate of potash	1.18	0.12	0.88	0.42	0.59	0.71	-	-