

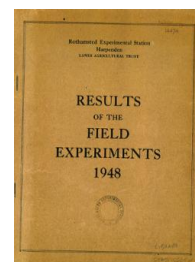
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Yields of the Field Experiments 1948

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48/CD/2 Potatoes - Cultivation

Rothamsted Research

Rothamsted Research (1949) *48/CD/2 Potatoes - Cultivation* ; Yields Of The Field Experiments 1948, pp 80 - 82

48/Ca/2.1

POTATOES

Effects of intensive intertillage, of earthing up, of mulching with straw, of applying artificials before and after ridging, and of spraying haulm before lifting.

RF - Sawyers II, 1948

System of replication: 4 randomized blocks of 10 plots each.

Area of each plot (after rejecting edge rows): 0.0098 acres.

Treatments:

Cultivations: All four combinations of intensive and little intertillage between rows, with and without earthing up; also intensive cultivation until the crop was well through the ground, then mulching with 3 tons chaffed straw per acre between rows.

Application of fertilizers: Broadcast before ridging, applied in the bouts.

Spraying: Two of the four blocks were sprayed with sulphuric acid to kill off haulm before lifting.

Cultivations, etc.:

Ploughed: during Jan. Cultivated: Mar 16. Harrowed: Mar 25.
Artificials applied before ridging: Apr 10. Ridged, artificials applied, potatoes planted and covered in: Apr 12. Rolled ridges: Apr 21. Chain-harrowed: May 18. Grubbed "intensive intertillage" plots: June 14. Grubbed, all plots: June 19. Earthed up, appropriate plots: June 26. Chaffed straw applied: July 8. Sprayed to kill off haulm: Sept 14. Lifted: Oct 5, 6. Variety: Majestic (Scotch A).
Previous crop: Barley.

Standard errors per plot:

Total tubers,	1.35 tons per acre or 10.2%
Percentage ware,	0.780
Percentage greened,	5.02

All standard errors estimated from 22 d.f.

	Little Intertillage			Intensive Intertillage			
	Not earthed up	Earthed up	Not earthed up	Earthed up	Mulched	Mean	Effect of Spraying
	Total tubers, tons per acre (± 0.673)						
Artificials applied before ridging	12.12	12.87	12.15	11.72	14.26	(± 0.301)	(± 0.602)
after ridging	13.69	13.19	13.72	13.21	15.00	12.63	-0.38
Mean (± 0.476)	12.91	13.03	12.93	12.46	14.63	13.76	-0.06
Effect of Spraying (± 0.952)	-0.26	0.60	-0.64	-0.57	-0.23	13.19	
	Percentage Warts (± 0.276)						
Artificials applied before ridging	97.92	97.75	97.42	98.90	98.08	(± 0.174)	(± 0.349)
after ridging	97.70	98.50	97.92	98.80	98.82	98.02	0.27
Mean (± 0.276)	97.81	98.12	97.68	98.85	98.45	98.35	0.54
Effect of Spraying (± 0.552)	0.32	0.40	-0.10	0.15	1.25	93.18	

48/Ca/2.3

	Little Intertillage		Intensive Intertillage		Mean	Effect of Spraying
	Not earthen up	Earthen up	Not earthen up	Earthen up		
Percentage Greened: (± 1.774)						
Artificials applied before ridging after ridging	3.61	4.93	13.56	5.82	(± 1.122)	(± 2.244)
	9.92	3.60	8.92	2.53	6.91	-3.16
	6.76	4.26	11.24	4.18	6.21	-3.05
Mean (± 1.774)	-3.52	-2.08	-0.69	-2.46	6.56	
Effect of Spraying (± 3.548)				-6.77		