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Yields of the Field Experiments 1961



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61/R/DE/4 and 61/W/DE/4 Potatoes - Control of Weeds

Rothamsted Research

Rothamsted Research (1962) 61/R/DE/4 and 61/W/DE/4 Potatoes - Control of Weeds; Yields Of The Field Experiments 1961, pp 131 - 132 - DOI: https://doi.org/10.23637/ERADOC-1-182

61/De/4.1

POTATOES

The control of weeds by triazine weedkillers - Rothamsted (R)
Long Hoos III and Woburn (W) Warren Field S 1961.

Design: Long Hoos III (R): 3 randomised blocks of 6 plots each.
Warren Field (W): 4 randomised blocks of 6 plots each.

Area of each plot (acres):

Long Hoos III (R): 0.0145

Warren Field (W): 0.0161

Area harvested (acres):

0.0032

0.0054

Treatments: No weed control (0);
Mechanical weed control (M);
Simazine: ½ lb (S₁); 1 lb (S₂) active material in 40 gallons
 per acre.
Methyl-mercapto-triazine: 1½ lb (T₁); 2½ lb (T₂) active
 material in 40 gallons per acre.

Basal dressing per acre:
Long Hoos III (R): 10 cwt compound fertiliser, 10% N, 10% P₂O₅,
18% K₂O_•
Warren field (W): 10 cwt compound fertiliser, 17% N, 11% P₂O₅,
22% K₂O_•

Cultivations, etc.:Long Hoos III (R): Ground chalk applied at 23 cwt per acre: Sept 17 Dec 19, 1960. Ploughed: Dec 29. Basal fertiliser applied:
Apr 17, 1961. Rotary cultivated, machine planted: Apr 24.
Sprays applied: May 1. M plots earthed up: July 6. Sprayed
with zineb at 2 lb in 40 gallons per acre: Aug 3. Sprayed
with undiluted BOV at 15 gallons per acre: Sept 21. 2 rows
per plot hand dug and weighed: Sept 25. Variety: Ulster
Supreme. Previous crop: Winter wheat

Warren Field (W): Ground chalk applied at 59 cwt per acre:

Dec 17, 1960. Ploughed: Dec 20. Basal fertiliser applied,
potatoes machine planted: Apr 17, 1961. Sprays applied:

Apr 28. M plots earthed up: July 5. Sprayed with zineb
at 2 lb in 40 gallons per acre: Aug 3. Sprayed with undiluted
BOV at 12 gallons per acre: Sept 18. Lifted: Sept 22.
Variety: King Edward. Previous crop: Winter beans.

Standard errors per plot. Total tubers tons per acre.

Long Hoos III (R): 0.945 tons per acre or 19.0% (10 d.f.)

Warren Field (W): 1.639 tons per acre or 17.3% (15 d.f.)

Long Hoos III (R): Chain harrowed once, grubbed 3 times, tractor weeded once, earthed up.
Warren Field (W). Harrowed once, grubbed once, earthed up.

					61/De/4.2	
		Summary	of Resu	lts		
		Weed Contro	<u>)</u>			
0	M	S ₁	S2	^T 1	T ₂	Mean
		Long Hoo	os III (R)		
		Total Tubers				
		(±0.545)	COLLE			
2.34	8.03		5.14	4.03	6.14	4.96
		Percentage wa	are (12"	riddle)		
77.2	96.4	88.1 92	2.7	91.9	93.0	89.9
		Warren I	Field (W	<u>)</u>		
		Total Tubers	tons	per acre		
		(±0.819)				
6.47	13.66	8.86	8.75	9.09	9.97	9.47
		Percentage w	are (11/2)	riddle)		
90.9	96.7	95.8 9			95.0	94.8
Weed Co	ontrol					
0 = No M = Mec S = Sin S = Sin T = Met	weed contro chanical wee mazine: ½ lt mazine: 1 lt	ed control active materia	lb activ		"	ons per acr
Note.	Two extra p	olots outside th	e main e	experiment	on Long Hoo	s III (R)
		ve material in	40 gallo	ons per acr	tubers	Percentage ware
		1½ 3			tons per acre 6.84 7.81	95•9 94•7