ROTHAMSTED RESEARCH

Yields of the Field Experiments 1959

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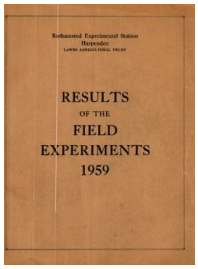

59/R/CF/5 and 59/W/CF/5 Potatoes - Control of Weeds (Sprays)

Rothamsted Research

Rothamsted Research (1960) *59/R/CF/5 and 59/W/CF/5 Potatoes - Control of Weeds (Sprays) ;* Yields Of The Field Experiments 1959, pp 98 - 99 **- DOI: https://doi.org/10.23637/ERADOC-1-179**

Summary of Results

0	S_1	S_2	S_3	Mean
		Spray		
		Total tubers: tons per acre		
		Great Field I (R)		
4.55	11.91	11.81 (±0.941)	11.16	9.86
		Great Hill (W)		
3.16	3.96	4.57 (±0.721)	3.60	3.82
		Percentage ware*		
		Great Field I (R)		
86.8	90.8	93.2	91.5	90.6
		Great Hill (W)		
19.4	26.3	22.8	23.4	23.0
		Percentage shrivelled tubers		
		Great Hill (W)		
54.6	50.0	54.1	48.0	51.7

*Riddle size (R) $1\frac{1}{2}$"; (W) $1\frac{5}{8}$".

Note: On both fields treated strips outside the experimental area gave the following results.

	Total tubers: tons per acre	% ware ($1\frac{1}{2}$" riddle)	% shrivelled tubers
Great Field I (R); 2-chloro-4-ethylamino-6-isopropylamino-s-triazine (Atrazine) at 2 lb in 80 gallons per acre	12.40	91.1	
Normal mechanical weed control	13.66	91.0	
	Total tubers: tons per acre	% ware ($1\frac{5}{8}$" riddle)	% shrivelled tubers
Great Hill (W) Atrazine	3.64	25.8	43.6
Normal mechanical weed control	9.59	57.1	16.7
Simazine at 4 lb in 160 gallons per acre	4.80	47.8	25.1

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GRASS

Slow acting nitrogenous fertilizers - Harwoods Piece 1959, the second year.

Design: 4 randomized blocks of 16 plots each.

Area of each plot: 0.0087 acres. Area harvested: 0.0035 acres.

Treatments: None (2 plots per block) and all combinations of:-

Materials and methods of application

Ureaformaldehyde (37.2% N) applied: in 1958; in 1959; in 1958 and 1959.

'Nitro-Chalk' (15.5% N) applied: in spring 1959.

'Nitro-Chalk' applied $\frac{1}{3}$ in spring; $\frac{1}{3}$ after each of 1st and 2nd cuts: in 1958; in 1959; in 1958 and 1959.

Rates of application

1.0; 2.0 cwt N per acre

Basal dressing: 5 cwt compound fertilizer (10% P_2O_5, 20% K_2O) per acre.

Cultivations, etc.: Basal fertilizer applied: Feb 12, 1959. Ureaformaldehyde and 'Nitro-Chalk' applied: Mar 10. 2nd and 3rd dressings of 'Nitro-Chalk' applied: Apr 28 and June 22. Cut 3 times: Apr 28, June 18 and Aug 24. Variety: S22 Italian Ryegrass.

Standard errors per plot. Dry matter:

1st cut:	1.74 cwt per acre or 9.6%	(46 d.f.)
2nd cut:	2.83 cwt per acre or 13.5%	(46 d.f.)
3rd cut:	1.26 cwt per acre or 11.8%	(46 d.f.)
Total of 3 cuts:	4.94 cwt per acre or 9.9%	(46 d.f.)

Note: For details of the previous years results see "Results of the Field Experiments" 58/Cg/1. On page 58/Cg/1.1 the % of K_2O in the basal dressing should read '20' not '10'.

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