Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1964



Full Table of Content

64/W/WCW/B/10 Cultivation-weedkiller Rotation

Rothamsted Research

Rothamsted Research (1965) *64/W/WCW/B/10 Cultivation-weedkiller Rotation*; Yields Of The Field Experiments 1964, pp 131 - 132 - **DOI:** https://doi.org/10.23637/ERADOC-1-160

64/B/10.1

CULTIVATION - WEEDKILLER ROTATION

(WCW)

- A comparison of weed control by various cultivation methods and by a pre-emergence weedkiller - Woburn Great Hill I and II 1964, the fifth year.
- For history, rotation etc., see 'Results' 60/B/11, 61/B/11, 62/B/11 and 63/B/11. Because of potato cyst nematode sugar beet replaces potatoes.
- Area of each plot: 0.0482. Area harvested: Sugar beet roots - 0.0121, tops - 0.0040, barley - 0.0115.

Treatments:

Sugar beet: Ploughed (P), rotary cultivated (R), rigid-tine cultivated (T). Normal mechanical cultivations after sowing. (Three plots per block for each treatment). No weedkiller applied.

Barley: P, R and T as for sugar beet.

Basal dressing. Sugar beet: 5 cwt agricultural salt, 6 cwt 20:10:10. Barley: 3.5 cwt 16:9:9 combine drilled.

Cultivations, etc.:

Both crops: T plots rigid-time cultivated twice, P plots ploughed, R plots rotary cultivated: Dec 2, 1963.

Sugar beet: Salt applied: Feb 4, 1964. T and P plots springtine cultivated: Feb 25. Basal NPK compound applied: Apr 6. T and P plots spring-time cultivated: Apr 9. plots rotary cultivated second time, all plots harrowed: Apr 10. Seed drilled at 5 lb: Apr 11. Singled: May 28. Lifted: Oct 14. Variety: Klein E.

Barley: All plots harrowed: Feb 14, 1964. Seed drilled at 2.5 bushels: Feb 15. Sprayed with mecoprop/2,4-D (Methoxone Extra at 6 pints in 40 gals): May 12. Combine harvested: Aug 26. Variety: Maris Badger.

Standard errors per plot.

Sugar beet. Roots (washed): 0.978 or 7.9% (14 d.f.)
Total sugar: 4.39 or 8.2% (14 d.f.)
Tops: 0.750 or 12.2% (14 d.f.)
Barley. Grain: 4.16 or 26.0% (14 d.f.)

SUMMARY R	OF RESULTS	FELLIO
R	T	
	CHEST V	Mean
SUGA	R BEET	en of weed eng
R	ROOTS	
(±0.399)		e malator y
12.46	12.20	12.31
SUG	AR %	
22.1	21.7	21.8
TOTAL	SUGAR	
(±1.79)		rag arely as
55.1	53.0	53•7
TO)PS	
(±0.306)		1,023 (17
6.19	5•93	6.15
DAT	ot Ev	
	in milita ta besit	and the Cha
14.7	16.9	16.0
	(±0.399) 12.46 SUG 22.1 TOTAL (±1.79) 55.1 TC (±0.306) 6.19 BAI	(±0.399) 12.46 SUGAR % 22.1 TOTAL SUGAR (±1.79) 55.1 TOPS (±0.306) 6.19 5.93