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64/R/RP101/DD/1 and 64/W/WP201/DD/1 Potatoes - Varieties and Chitting

Rothamsted Research

Rothamsted Research (1965) *64/R/RP101/DD/1 and 64/W/WP201/DD/1 Potatoes - Varieties and Chitting* ; Yields Of The Field Experiments 1964, pp 225 - 227 - DOI:

<https://doi.org/10.23637/ERADOC-1-160>

64/Dd/1.1

POTATOES

(RP101 and WP201)

Varieties and chitting - Rothamsted (R) Whittlocks and Woburn (W)
Horsepool 1964.

Design: 4 randomised blocks of 8 plots each.

Area of each plot: Whittlocks (R): 0.0107. Area harvested: 0.0043.
Horsepool (W): 0.0114. Area harvested: 0.0057.

Treatments: All combinations of:-

1. Chitting: Not chitted (O), chitted seed (C).
2. Varieties: Majestic (M), King Edward (KE).
3. Type of seed: Stock seed (SS), once grown seed (OG).

Basal dressing: Whittlocks (R): 8 cwt 17:11:22 and 8.5 tons dung.
Horsepool (W): 7 cwt 17:11:22.

Cultivations, etc.:

Whittlocks (R). Ploughed: Oct 11, 1963. Dung applied: Feb 6, 1964.
Rotary cultivated: Feb 12. Basal dressing applied: Apr 2.
Rotary cultivated, potatoes planted*: Apr 29. Earthed up:
June 23. Sprayed 3 times with Mancozeb at 1.2 lb in 35 gals:
June 30, July 16, July 31. Sprayed with undiluted BOV at
15 gals: Sept 7. Lifted: Sept 15. Previous crops: Winter
and spring wheat 1962, spring wheat 1963.

Horsepool (W). Chisel ploughed: Dec 7, 1963. Ploughed: Jan 3, 1964.
Rotary cultivated: Apr 28. Basal dressing applied: Apr 14.
Potatoes planted: Apr 30. Earthed up: June 16. Sprayed 3
times with mancozeb at 1.2 lb, the first in 50 gals, the second
and third in 36 gals: June 24, July 14, July 29. Sprayed with
diquat (Reglone at 4 pints in 40 gals): Sept 8. Lifted:
Sept 21. Previous crops: Grass 1962, winter wheat 1963.

*At the time of planting, seed for two rows of plots 116(M OG) and
124(C KE SS) was interchanged. The two remaining rows of each
plot were correctly planted.

Standard errors per plot. Total tubers:
Whittlocks (R): 1.078 or 10.2% (21 d.f.)
Horsepool (W): 1.242 or 11.0% (21 d.f.)

64/Da/1.2

SUMMARY OF RESULTS

WHITTLOCKS (R)

	M	KE	TOTAL TUBERS		Mean
			SS	OG	
			(±0.381)	(±0.381)	(±0.270)
O	10.70	9.28	10.57	9.41	9.99
C	11.88	10.51	11.19	11.21	11.20
		M	11.36	11.22	11.29
		KE	10.40	9.40	9.90
	Mean	(±0.270)	10.88	10.31	10.59

	M	KE	PERCENTAGE WARE		Mean
			SS	OG	
O	90.0	84.1	87.9	86.3	87.1
C	94.3	89.0	90.0	93.3	91.7
		M	92.4	92.0	92.2
		KE	85.5	87.6	86.6
	Mean		88.9	89.8	89.4

64/Dd/1.3

HORSEPOOL (W)

	M	KE	TOTAL TUBERS		Mean
			SS	OG	
	(±0.439)		(±0.439)		(±0.311)
O	12.13	9.50	11.12	10.51	10.82
C	13.17	10.50	11.52	12.15	11.84
		M	12.54	12.77	12.65
		KE	10.11	9.89	10.00
	Mean	(±0.311)	11.32	11.33	11.33

PERCENTAGE WARE

	M	KE	SS	OG	Mean
O	94.6	90.3	92.1	92.8	92.5
C	97.0	90.5	92.2	95.3	93.8
		M	95.5	96.1	95.8
		KE	88.8	92.0	90.4
		Mean	92.2	94.0	93.1