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Yields of the Field Experiments 1964

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64/R/AZ/C/13 Row Spacing N and Paraquat - Lucerne

Rothamsted Research

Rothamsted Research (1965) *64/R/AZ/C/13 Row Spacing N and Paraquat - Lucerne* ; Yields Of The Field Experiments 1964, pp 171 - 172 - DOI: <https://doi.org/10.23637/ERADOC-1-160>

64/C/13.1

LUCERNE

(AZ)

Row spacing, N and paraquat, Long Hoos VII 1964.

Design: 4 randomised blocks of 12 plots each.

Area of each plot: 0.0145. Area harvested: 0.0034.

Treatments: All combinations of:-

1. Row spacing: 8 inches (C), 16 inches (W).
2. Nitrogen: None (N0), 0.25 (N1), 0.5 (N2) cwt N as 'Nitro-Chalk' applied to seedbed.
3. Paraquat (to be applied in spring 1965): None (P0), sprayed with paraquat (P1).

Basal dressing: 4 cwt 0:14:28 in winter and 2 cwt after each cut except the last.

Cultivations, etc.: Ploughed: Sept 18, 1963. Sprayed twice with sodium trichloroacetate at 18 lb in 40 gals: Sept 25 and Oct 23. Chisel ploughed: Dec 17. Basal PK compound applied: Apr 14, 1964. 'Nitro-Chalk' applied: Apr 15. Rotary cultivated: May 5. Rotary cultivated second time, seed drilled at 28 lb: May 29. Sprayed with 2,4-DB at 42 oz a.e. in 40 gals: July 7. Cut: Aug 5. Basal PK compound applied: Aug 12. Irrigated: Aug 10, (1 in), Aug 11, (1 in), Aug 21, (1 in), Aug 22, (1 in). Cut second time: Oct 30. Variety: Du Puits. Previous crops: Winter wheat 1962 and 1963.

Standard errors per plot. Dry matter:

- 1st cut: 2.49 or 21.3% (39 d.f.)
- 2nd cut: 8.44 or 39.3% (39 d.f.)
- Total of 2 cuts: 9.25 or 27.8% (39 d.f.)

64/C/13.2

SUMMARY OF RESULTS

DRY MATTER

	NO	N1	N2	Mean
	1ST CUT			
		(±0.88)		(±0.51)
C	12.2	12.7	14.1	13.0
W	9.9	9.0	12.0	10.3
Mean (±0.62)	11.0	10.8	13.1	11.7

Mean D.M. %: 28.9

2ND CUT

		(±2.98)		(±1.72)
C	19.4	23.2	24.7	22.4
W	18.2	23.6	19.9	20.6
Mean (±2.11)	18.8	23.4	22.3	21.5

Mean D.M. %: 23.4

TOTAL OF 2 CUTS

		(±3.27)		(±1.89)
C	31.6	35.9	38.8	35.4
W	28.1	32.6	31.9	30.9
Mean (±2.31)	29.9	34.2	35.4	33.2

Mean D.M. %: 26.2