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Yields of the Field Experiments 1966

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66/R/AZ/C/8 Row Spacing N and Paraquat - Lucerne 3rd Year

Rothamsted Research

Rothamsted Research (1967) *66/R/AZ/C/8 Row Spacing N and Paraquat - Lucerne 3rd Year* ; Yields Of The Field Experiments 1966, pp 143 - 147 - DOI: <https://doi.org/10.23637/ERADOC-1-158>

66/c/8.3

DRY MATTER				
2ND CUT				
	NO	N1	N2	Mean
Mean (± 0.52)	26.4	26.1	26.2	26.3
		(± 0.74)		(± 0.43)
C	27.9	26.5	26.6	27.0
W	24.9	25.8	25.9	25.5
		(± 0.74)		(± 0.43)
PO	26.5	25.4	25.5	25.8
PI	26.2	26.9	26.9	26.7
	C	W		
	(±0.60)			
PO	26.4	25.2		
PI	27.5	25.8		

Mean D.M. %:16.3

66/C/8.4

DRY MATTER

3RD CUT

	NO	N1	N2	Mean
Mean (± 0.39)	15.0	16.4 (± 0.55)	15.3	15.6 (± 0.32)
C	15.8	16.2	15.2	15.7
W	14.2	16.5 (± 0.55)	15.4	15.4 (± 0.32)
PO	15.8	17.1	16.4	16.4
PI	14.2	15.7	14.3	14.7
	C	W		
	(±0.45)			
PO	16.7	16.2		
PI	14.8	14.6		

Mean D.M. %: 23.8

66/c/8.5

DRY MATTER
TOTAL OF 3 CUTS

	NO	N1	N2	Mean
Mean (± 1.13)	73.0	75.3 (± 1.60)	76.9	75.0 (± 0.92)
C	76.3	76.4	77.2	76.6
W	69.7	74.2 (± 1.60)	76.6	73.5 (± 0.92)
PO	77.1	80.8	82.1	80.0
Pl	68.8	69.8	71.7	70.1

	C	W
	(± 1.31)	
PO	81.4	78.6
Pl	71.8	68.4

Mean D.M. %: 20.2

66/C/9.1

IRRIGATION

(IRA and IRB)

The effect of irrigation on potatoes and barley - Great Field I and II 1966. For previous years' results see 'Results' 65/C/14.

Design:

Potatoes: Two replicates of 4 x 2 x 3 x 2 in two blocks. Each block is divided into 4 whole plots for irrigation treatments, and at right angles into 6 strips for varieties and spacing.

There is a further split for N.

Barley: Two randomised blocks of 4 plots, with plots split for N.

Area of each sub plot:

Potatoes: 0.0214
Barley: 0.1286

Area harvested:

0.0080
0.0689

Treatments: Potatoes: All combinations of:-

Whole plots. 1. Irrigation: None (O), early (A), late (B), full (C).

To strips of 1/6th plots.

2. Varieties: Majestic (M), King Edward (E).
Unchitted seed.

3. Spacing: Seed 12 (S1), 15 (S2), 18 inches (S3) apart in rows.

1/12th plots. 4. Nitrogen: 1.2 (N1), 1.8 (N2) cwt N as compound fertiliser (basal) and 'Nitro-Chalk'.

Barley: All combinations of:-

Main plots. 1. Irrigation: None (O), early (A), late (B), full (C).

Sub plots. 2. Nitrogen: 0.6 (N1), 0.8 (N2) cwt N as compound fertiliser (basal) and 'Nitro-Chalk'.

Basal applications:

Potatoes: 12 cwt compound fertiliser (10:10:18). Weedkiller: Linuron at 1 lb and paraquat at 0.75 lb ion in 37 gals.

Fungicide: Mancozeb at 1.2 lb in 37 gals on 3 occasions.

Barley: 3 cwt compound fertiliser (20:10:10) combine drilled.

Weedkiller: Mecoprop/2,4-D (Methoxone Extra at 6 pints in 40 gals).

Cultivations, etc.:-

Potatoes: Sprayed with dalapon at 8.8 lb a.e. in 40 gals:

Nov 8, 1965. Ploughed: Jan 5, 1966. Basal compound