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67/R/BQ/C/14 Previous Crops and N for Barley 1965-67 - Barley

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67/C/14.1

PREVIOUS CROPS X N FOR BARLEY

(BQ)

The effect of previous cropping and nitrogen on the yield of barley -
Stackyard 1967, the third year - barley.

Design: A single replicate of 3 x 3 x 3 x 3 in 3 blocks of 9 plots,
each split into 3 for N in 1966 and 1967.

Area of each sub plot: 0.0096. Area harvested: 0.0064.

Treatments: All combinations of:-

Whole plots (applied 1965):-

1. Cropping: Spring wheat (W), kale (K), Italian Ryegrass (G).
2. Nitrogen: None (Q0), 1.0 (Q2), 2.0 (Q4) cwt N as
'Nitro-Chalk'.

Sub plots (applied to barley 1966 and 1967):-

3. 1966 Nitrogen: None (R0), 0.5 (R1), 1.0 (R2) N as
'Nitro-Chalk'.
4. 1967 Nitrogen: None (N0), 0.5 (N1), 1.0 (N2) N as
'Nitro-Chalk'.

Basal applications: 2.5 cwt (0:20:20) combine drilled. Weedkiller:
Mecoprop/2,4-D (Methoxone Extra at 6 pints in 35 gals).

Cultivations, etc.: Ploughed twice: Sept 15, 1966 and Jan 3, 1967.
Seed drilled at 165 lb: Mar 13. 'Nitro-Chalk' applied: Mar 13.
Sprayed: May 11. Combine harvested: Aug 21. Variety:
Maris Badger.

NOTE: For previous years' results see 'Results' 65/C/27,
66/C/18.

Standard errors per plot. Grain:

Whole plot: 2.79 or 8.7% (16 d.f.)
Sub plot: 3.44 or 10.8% (40 d.f.)

67/C/14.2

SUMMARY OF RESULTS

GRAIN

Crop in 1965	N 1965			RO	RI	R2	NO	NI	N2	Mean
	Q0	Q2	Q4							
	(±1.61)			(1) and (2)			(1) and (2)			(±0.93)
W	31.2	28.8	32.1	30.4	29.9	31.8	17.5	33.1	41.5	30.7
K	30.1	30.7	29.2	30.0	28.8	31.1	14.7	32.4	42.8	30.0
G	33.2	35.5	36.9	35.2	35.2	35.1	20.4	40.1	45.1	35.2
				(1) and (2)			(1) and (2)			
	Q0			32.4	30.1	31.9	16.2	34.7	43.6	31.5
	Q2			30.6	32.1	32.3	17.7	34.5	42.9	31.7
	Q4			32.7	31.6	33.9	18.7	36.5	42.9	32.7
							(±1.15)			(±0.66)
				RO			17.6	34.0	44.1	31.9
				RI			17.7	33.8	42.4	31.3
				R2			17.3	37.9	42.8	32.7
Mean (±0.66)							17.5	35.2	43.1	32.0

(1) (±1.32) For use in vertical and diagonal comparisons

(2) (±1.15) For use in horizontal and interaction comparisons

Mean D.M. %: 82.1