

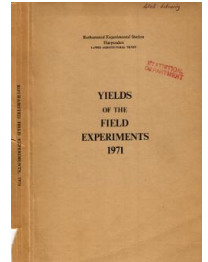
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71/S/B/2 N Rates After Grass and Arable - Barley

Rothamsted Research

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71/S/B/2

BARLEY

N RATES AFTER GRASS AND ARABLE

Object: To study the effects of a wide range of nitrogen levels on the yield of barley grown after grass (1967-69) or arable (1967-69) - Saxmundham Grove Plot.

Design: 4 randomised blocks (2 after grass and 2 after arable) of 8 plots.

Whole plot dimensions: 1.52 x 12.2. Area harvested: 0.00063.

Treatments:- Nitrogen: None, 25, 50, 75, 100, 125, 150, 175 kg N as 'Nitro-Chalk'.

Basal applications: Manures: 628 kg (0:20:20) broadcast. Weedkiller: Dichlorprop plus MCPA ('Mephetol Plus' at 5.6 l in 449 l).

Cultivations, etc.: Ploughed: 28 Oct, 1970. N and PK applied, seed drilled: 31 Mar, 1971. Weedkiller applied: 18 May. Harvested by sickle: 10 Aug. Variety: Midas. Previous crop: Barley 1970.

Standard error per plot. Grain, tonnes/hectare:
Sub plot: 0.334 or 14.4% (14 d.f.)

71/S/B/2

SUMMARY OF RESULTS

N: KG/HA

	0	25	50	75	100	125	150	175	Mean
GRAIN: TONNES/HECTARE									
(±0.236)*									
AFTER									
Grass	1.30	2.44	2.50	1.72	2.08	2.71	2.61	2.07	2.18
Arable	1.70	2.29	3.18	2.38	2.56	2.69	2.79	2.16	2.47
Mean (±0.167)	1.50	2.37	2.84	2.05	2.32	2.70	2.70	2.12	2.32

STRAW: TONNES/HECTARE

AFTER									
Grass	2.35	4.00	4.27	4.76	4.49	5.14	5.63	4.72	4.42
Arable	2.47	3.51	4.72	4.10	4.49	4.69	5.16	4.78	4.24
Mean	2.41	3.75	4.50	4.43	4.49	4.92	5.39	4.75	4.33

Mean D.M. %: Grain: 75.1
Straw: 68.1

* For use in horizontal and interaction comparisons only