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Yields of the Field Experiments 1978

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78/W/RN/4 Market Garden - Ryegrass

Rothamsted Research

Rothamsted Research (1979) *78/W/RN/4 Market Garden - Ryegrass* ; Yields Of The Field Experiments 1978, pp 80 - 81 - DOI: <https://doi.org/10.23637/ERADOC-1-30>

78/W/RN/4

MARKET GARDEN

Object: To study the residual effects of fertilisers and organic manures applied in the period 1942-67 - Woburn Lansome I.

Sponsor: A.E. Johnston.

The 37th year, ryegrass.

For previous years see 'Details' 1967 & 1973 and 74-77/W/RN/4.

Design: 2 series each of 40 plots divided into 4 blocks of 10 plots.
Series B has the plots split into 2.

Whole plot dimensions: 8.53 x 5.18.

NOTE: Yields were not taken and no new treatments were applied.

Basal applications: Manures: 80 kg N, as 'Nitro-Chalk 25' in spring and as 'Nitra-Shell 34' after the first cut.

Seed: RvP Italian ryegrass at 40 kg, sown 16 Sept, 1974.

Cultivations, etc.: - Both series.

N applied: 8 Mar, 1978, 23 June. Cut three times: 6 Jan, 12 June, 17 Aug.

78/R/RN/5

ARABLE REFERENCE PLOTS

Object: To study the long term effects of FYM and N, P and K fertilisers on the yield and mineral content of crops - Great Field IV.

Sponsor: F.V. Widdowson.

The 23rd year of the rotation, barley, ley, potatoes, winter wheat, kale.
The 19th year of the same rotation on the additional plots.
The 22nd year of permanent grass.

For previous years see 58/Bc/1(t), 59/Bc/1(t), 60/B/3(t), 61-64/B/2, 65/B/2(t), 66/B/2(t), 67/B/2, 68/B/3(t) and 69-77/R/RN/5.

Design: 1 block of 12 plots for each crop on original plots. 1 block of 7 plots for each crop on additional plots.

Whole plot dimensions: 2.13 x 2.44.

Treatments: Fertilisers and farmyard manure:

MANURE

Original plots

O
N1
P
N1P
K
N1K
PK
N1PK
N2PK
D
N1PKD
N2PKD

N1, 2 (kg N): 19, 38 (ley): 56, 112 (barley): 75, 150 (wheat): 125, 250 (potatoes - 75, 150 until 1975): 125, 250 (kale and permanent grass) as 'Nitro-Chalk'

P: 63 kg P205 as superphosphate
K: 250 kg K20 as muriate of potash
D: 38 tonnes FYM (permanent grass): 50 tonnes (kale and potatoes): none to other crops.

NOTE: Since 1977 all wheat on these plots receives a standard dressing of 82 kg MgO as Epsom salts. Before 1976 potatoes tested 0 v 82 kg MgO on sub plots, dressing balanced-up after harvest before wheat.