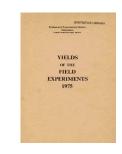
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Yields of the Field Experiments 1975



Full Table of Content

75/ R/WW/5 - Rates & Times of N & Varieties - Winter Wheat

Rothamsted Research

Rothamsted Research (1976) 75/ R/WW/5 - Rates & Times of N & Varieties - Winter Wheat; Yields Of The Field Experiments 1975, pp 295 - 296 - DOI: https://doi.org/10.23637/ERADOC-1-141

75/R/WW/5

WINTER WHEAT

RATES AND TIMES OF N AND VARIETIES

Object: To study the physiological basis of the response of three varieties of wheat to a wide range of nitrogen levels - Long Hoos IV 6.

Sponsor: G.N. Thorne.

Design: 2 blocks of 24 plots.

Whole plot dimensions: 1.65 x 9.76.

Treatments: All combinations of:-

Maris Fundin Maris Huntsman 2. Nitrogen fertiliser, as 'Nitro-Chalk' (kg N): None 30 60 90 120 150	1.	Varietie	5:					VARIETY
Maris Huntsman 2. Nitrogen fertiliser, as 'Nitro-Chalk' (kg N): None 30 60 90 120 150							•	CAPPELLE
2. Nitrogen fertiliser, as 'Nitro-Chalk' (kg N): None 30 60 90 120 150								FUNDIN
None 0 30 60 90 120 120 150		Maris	Huntsman					HUNTSMAN
30 60 90 120 150	2.	Nitrogen	fertiliser,	as	'Nitro-Chalk'	(kg N):		N
30 60 90 120 150 150		None						0
90 120 150 150		30						
90 120 150 150		60						60
120 150 150		90						
150								
-0-		150						
		180						180
210								

Basal applications: Manures: (0:14:28) at 820 kg. Fungicide: Tridemorph at 0.53 kg in 340 l. Iodine-benzanilide ('BASF 3170F' at 2.2 kg in 340 l).

Seed: Sown at 200 kg.

Cultivations, etc.:- Ploughed: 25 Sept, 1974. PK applied: 1 Oct. Spring-tine cultivated: 14 Oct. Power harrowed and seed sown: 6 Nov. 'Nitro-Chalk' applied: 18 Apr, 1975. Tridemorph applied: 13 June. Iodine-benzanilide applied: 16 June. Harvested by hand: 7 Aug. Previous crops: Maize 1973, oats 1974.

NOTE: Plant counts were made after germination and shoot counts throughout the season. Dry weight and leaf areas were determined on six occasions between 19 June and 7 Aug. Soil moisture was measured from April to August. Light penetration of the canopy was measured in July. Rates of photosynthesis and translocation were measured twice in June and once in July. Respiration of shoots and ears was measured at the end of June.

75/R/WW/5

GRAIN TONNES /HECTARE

*** TABLES OF MEANS ***

VAR LETY	0	30	60	90	120	150	180	210	MEAN
CAPPELLE FUNDIN	3.58	4.20	4.75	5.82	6-11	6.76	6.16	6.46	5.48
HUNTSMAN	3.42	4.04	5.40	6.40	6.61	6.97	6.60	7.01	5.81
MEAN	3.38	4.27	5.24	6.04	6.37	7.11	6.88	6.77	5.76

**** STANDARD ERRORS OF DIFFERENCES OF MEANS ****

TABLE	VARIETY	N	VARIETY N

SED	0.122	0.199	0.345

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION ****

 STRATUM
 DF
 SE
 CV%

 BLOCK.WP
 23
 0.345
 6.0

GRAIN MEAN DM% 89.8

PLOT AREA HARVESTED 0.00023