ROTHAMSTED RESEARCH

Yields of the Field Experiments 1965

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65/W/WBL/C/30 Scorch Study - Spring Wheat 2nd Year

Rothamsted Research

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65/C/30.1

SPRING WHEAT

(WBL)

'Scorch' study - Woburn Butt Close 1965, the second year.

Design: 3 x 2 x 2 x 2 x 2 in 4 randomised blocks of 12 plots.

Area of each plot: 0.0032. Area harvested: 0.0011.

Treatments: All combinations of:-

1. Fumigant 1965: None (0), sprayed with formalin *(F) on Dec 7, 1964.
2. Fumigant 1964: None (0), sprayed twice with formalin *(R).
3. Fungicide 1964: None (0), sprayed with nabam (S).
4. Irrigation 1964 and 1965: None (0), irrigated (W).
5. Nitrogen 1964 and 1965: 0.6 (N1), 1.2 (N2), 1.8 (N3) cwt N as 'Nitro-Chalk' applied half in seedbed, half on May 14.

* A 38% solution of formaldehyde at 266 gals in 3700 gals.

Basal applications: 2.5 cwt (0:20:20). Weedkiller: Dichlorprop/MCPA (Cornox RK Extra at 6 pints in 50 gals) on 2 occasions.

Cultivations, etc.: Ploughed: Nov 24, 1964. Basal dressing applied: Feb 10, 1965. Seedbed N applied, seed sown at 180 lb: Mar 12. Sprayed: May 7 and 21. W plots irrigated - 0.375 in: May 25, 0.125 in: June 1, 0.75 in: June 15. Harvested: Aug 31. Variety: Opal. Previous crops: Spring beans 1962, winter wheat 1963.

NOTES: (1) For previous year's results etc. see 'Results' 64/Da/3.
(2) Green crop samples were taken on 3 occasions for yield and N determination. Samples were taken for N determination at threshing.

Standard eror per plot.
Grain: 1.51 or 7.5% (8 d.f.)

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SUMMARY OF RESULTS

GRAIN

	O	R	O	W	N1	N2	N3	O	S	Mean
	(±0.51)		(±0.51)			(±0.63)		(±0.51)		(±0.36)
O	10.3	14.1	13.4	11.0	7.7	13.5	15.3	12.9	11.4	12.2
F	32.5	24.0	27.2	29.3	24.3	31.2	29.2	28.4	28.1	28.3
			(±0.51)			(±0.63)		(±0.51)		
O			21.6	21.2	17.8	23.2	23.2	22.1	20.7	21.4
R			19.0	19.1	14.2	21.6	21.4	19.2	18.9	19.1
						(±0.63)		(±0.51)		
O					16.6	21.4	23.0	20.7	19.9	20.3
W					15.4	23.4	21.6	20.6	19.7	20.1
								(±0.63)		(±0.44)
N1								15.0	17.0	16.0
N2								23.6	21.2	22.4
N3								23.4	21.2	22.3
Mean (±0.36)								20.7	19.8	20.2

Mean D.M. %: 81.7

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STRAW

	O	R	O	W	N1	N2	N3	O	S	Mean
O	17.4	21.4	21.4	17.4	14.9	20.3	23.0	19.3	19.4	19.4
F	41.5	30.7	33.6	38.5	30.9	38.4	39.0	36.4	35.7	36.1
O			28.9	29.9	24.7	30.6	33.0	29.4	29.5	29.4
R			26.1	26.0	21.0	28.1	29.0	26.4	25.7	26.0
O					23.7	27.8	30.9	27.2	27.8	27.5
W					22.0	30.8	31.0	28.5	27.4	28.0
N1								21.3	24.4	22.9
N2								30.8	27.9	29.3
N3								31.5	30.5	31.0
Mean								27.9	27.6	27.7

Mean D.M. %: 81.5

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