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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: $3 \times 2 \times 2 \times 2 \times 2$ 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 error per plot.

Grain: 1.51 or 7.5% (8 d.f.)

65/C/30.2

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 F	10.3 32.5	14.1 24.0	13.4 27.2	11.0 29.3	7.7 24.3	13.5 31.2	15.3 29.2	12.9 28.4	11.4 28.1	12.2 28.3
			(±0.51)		(±0.63)		(±0.51)			
O R			21.6 19.0	21.2 19.1	17.8 14.2	23.2 21.6	23.2 21.4	22.1 19.2	20.7 18.9	21.4 19.1
					(±0.63)		(±0.51)			
O W					16.6 15.4	21.4 23.4	23.0 21.6	20.7 20.6	19.9 19.7	20.3 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

65/c/30.3

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