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64/W/WW301/DA/3 Spring Wheat - "scorch" Study

Rothamsted Research

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64/Da/3.1

SPRING WHEAT

(WW 301)

'Scorch' study - Woburn Butt Close 1964.

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

Area of each plot: 0.0032. Area harvested: 0.0014.

Treatments. All combinations of:-

1. Fumigant: None (F0), sprayed twice with formalin (F) on Dec 16, 1963 and Feb 21, 1964. 266 gals formalin (38% formaldehyde) in 3.700 gals water, on each occasion.
2. Fungicide: None (S0), sprayed with nabam 3 times (S) - at 10 lb nabam in seedbed, at 5 lb on May 7 (3-4 leaf stage), at 5 lb in late May (at ground cover stage). Each application in 100 gals.
3. Irrigation: None (W0), irrigated (W).
4. Nitrogen: 0.6 (N1), 1.2 (N2), 1.8 (N3) cwt N as 'Nitro-Chalk', applied half in seedbed, half on May 6.

Basal dressing: 2.5 cwt 0:20:20.

Cultivations, etc.: Ploughed: Oct 2, 1963. Seedbed N and all PK applied: Feb 20, 1964. Seed sown at 2.5 bushels: Mar 26. Sprayed with mecoprop/2,4-D (Methoxone Extra at 6 pints in 50 gals): May 14. W plots irrigated 10 times - 0.25 in: May 19, 0.75 in: May 26, 0.17 in: June 4, 0.375 in: June 15, 0.50 in: June 30, 0.25 in: July 3, 0.375 in: July 6, 0.5 in: July 14, 0.75 in: July 20, 0.75 in: July 28. Harvested: Aug 25. Variety: Jufy I. Previous crops: Spring beans 1962, winter wheat 1963.

NOTE: Green crop samples were taken at fortnightly intervals from early June to mid-July.

Standard error per plot.

Grain: 2.66 or 11.5% (22 d.f.)

64/Da/3.2

SUMMARY OF RESULTS

GRAIN

	FO	F	SO	S	WO	W	Mean
	(±0.77)						
SO	14.7	30.9					
S	16.1	30.7					
	(±0.77)		(±0.77)				
WO	13.0	27.3	20.4	19.9			
W	17.8	34.3	25.2	26.9			
	(±0.94)		(±0.94)		(±0.94)		(±0.66)
N1	10.3	28.1	18.7	19.7	17.7	20.8	19.2
N2	16.7	33.1	25.3	24.5	22.1	27.8	24.9
N3	19.1	31.1	24.3	26.0	20.7	29.6	25.1
Mean (±0.54)	15.4	30.8	22.8	23.4	20.1	26.0	23.1

Mean D.M. %: 88.5

STRAW

SO	24.1	45.4					
S	26.5	44.1					
WO	22.7	41.3	31.8	32.1			
W	27.9	48.3	37.7	38.5			
N1	16.0	39.8	27.1	28.6	26.0	29.7	27.9
N2	26.6	46.5	36.8	36.3	34.1	39.0	36.6
N3	33.3	48.0	40.4	40.9	35.7	45.6	40.7
Mean	25.3	44.8	34.8	35.3	32.0	38.1	35.0

Mean D.M. %: 89.9