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Yields of the Field Experiments 1972



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72/R/WW/3 Winter Wheat Weedkiller, Aqueous N and Fungicide

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72/R/WW/3

WINTER WHEAT

WEEDKILLER, AQUEOUS N AND FUNGICIDE

Object: To study the effects of combined sprays of liquid nitrogen fertiliser, hormone weedkiller and fungicide on foliar scorch and yield of winter wheat - Whittlocks.

Sponsors: S.C.R. Freeman, A. Penny.

Design: 4 randomised blocks of 21 plots.

Whole plot dimensions: 2.13 x 2.74. Area harvested: 0.00264.

Treatments: All combinations of:-

- 1. Forms of nitrogen: Solid as 'Nitro-Chalk' (S) (21% N) applied immediately after weedkiller and fungicide, liquid as urea/ammonium nitrate (26% N) mixed with the weedkiller and fungicide where appropriate.
- 2. Nitrogen: 56.5, 113 kg N.
- 3. Weedkiller (dichlorprop/MCPA) (H): None, 2.8 kg total a.e.
- 4. Fungicide (F): None (D), tridemorph at 0.53 kg (T)

together with 5 extra treatments:-

SNIE H TO, SN2E H TO, SNIE H TE, SN2E H TE, SN2 H TL, (N1 = 56.5, N2 = 113.0 kg N, H = H at 2.8 kg)

where 'Nitro-Chalk' and tridemorph were applied early (E), and tridemorph was applied late (L).

Basal applications: 280 kg (0:20:20) combine drilled.

Seed: Joss Cambier dressed dieldrin, sown at 200 kg.

Cultivations, etc.: Deep-tine cultivated twice: 28 Oct, 1971. Seed combine drilled: 29 Oct. N and tridemorph applied to E plots: 17 Apr, 1972. Remaining N and tridemorph treatments and weedkiller applied: 11 May. Cut by sickle: 30 Aug. Previous crops: Fallow 1970, potatoes 1971.

NOTE: Estimates were made of infection by mildew (Erysiphe graminis).

Grain samples were taken for determinations of dry matter and % N.

Standard error per plot.
Grain, tonnes/hectare: 0.375 or 6.9% (60 d.f.)

72/R/WW/3

TABLES OF MEANS

GRAIN: TONNES/HECTARE

	N: KG/HA		H: KG/HA		F: KG/HA		
de terres	56.5	113.0	0	2.8	0	0.53	Mean
FORM O	173.0	45.0	96.75 8 04	76.9	01.5	Die	
Solid Liquid	5.56 5.30	5.30 5.22	5.41 5.19	5.45 5.34	5.39 5.42	5.47 5.11	5.43 5.26
9.34		N: KG/HA 56.5 113.0	5.36 5.24	5.51 5.27	5.52 5.29	5.35 5.23	5.43 5.26
9,10	38.9 38.86	8,51 G	2.8.5	H: KG/H O 2.8	5.32 5.49	5.28 5.30	5.30 5.39
Mean	(2)	98 E3.00		SCHWeit 1	5.40	5.29	5.35

EXTRA

SWIEHTO SWIEHTE SWIEHTE SWIEHTL

5.86

5.30

5.45

STANDARD ERRORS OF DIFFERENCES

5.79 . 5.54

ALL MARGINAL ALL 2-FACTOR EXTRA MEANS TABLES

0.094

0.133

0.265

Grand mean: 5.40

Mean D.M. %: 84.9

72/R/WW/3 STRAW (FRESH): TONNES/HECTARE

		KG/HA 113.0	H:	KG/HA 2.8	F: K	G/HA 0.53	Mean
	1						
FORM		-					
Solid Liquid	9.81 9.27	9.40 9.27	9.87 9.63	9.34 8.91	9.54 9.49	9.67 9.06	9.60 9.27
		N: KG/HA 56.5 113.0	9.94 9.56	9 .1 5 9 .11	9.50 9.53	9.58 9.14	9.54 9.34
	- CENT	SELECTION (ST		H: KG/HA 0 2.8	9.82 9.21	9.69 9.04	9.75 9.13
Mean					9.51	9.36	9.44

EXTRA

SNIE H TO	SN2 H TO	SNIE H TE	SN2E H TE	SN2 H TL
10.89	10.61	11.08	11.17	9.29

Grand mean: 9.72