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99/W/CS/491 Efficiency of S Fertilizers - W. Rape

Rothamsted Research

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99/R/CS/488

Previous crops: W. rape 1997, w. wheat 1998.

GRAIN TONNES/HECTARE

***** Tables of means *****

FUNGCIDE CULTIVAR	-	P	C	Z	D	Mean
L	7.01	6.32	7.12	5.99	6.57	6.60
A	6.50	6.00	6.61	6.49	7.20	6.56
M	5.61	6.31	6.68	6.67	7.02	6.46
S	6.11	6.67	5.51	7.26	5.05	6.12
Mean	6.31	6.32	6.48	6.60	6.46	6.43

*** Standard errors of differences of means ***

CULTIVAR	FUNGCIDE	CULTIVAR FUNGCIDE
0.284	0.318	0.636

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	57	0.899	14.0

GRAIN MEAN DM% 88.3

PLOT AREA HARVESTED 0.00228

99/W/CS/491

EFFICIENCY OF S FERTILIZERS

Object: To measure the effect of different forms of sulphur on yields of wheat and a subsequent rape crop with and without fresh sulphur - Woburn, Stackyard III.

Sponsors: F.J. Zhao, S.P. McGrath.

The second year, w. rape.

For previous year see 98/W/CS/491.

Design: 4 randomised blocks of 4 x 2 + 1 split into 2.

Whole plot dimensions: 4.0 x 12.0.

Sub-plot dimensions: 2.0 x 12.0.

Treatments: All combinations of:-

Whole plots:

- | | |
|--------------------|--------------------------------|
| 1. S FORM | Form of sulphur in 1998: |
| (T+A) | Tiger 90 and ammonium sulphate |
| (AS) | Ammonium sulphate |
| (T90) | Tiger 90 |
| (NAS) | Sodium thiosulphate |
| 2. APP TIME | Time of application in 1998: |
| (SB) | To the seedbed |
| (MAR) | 17-Mar-98 |

Sub-plots:

- | | |
|-------------------|---------------------------|
| 3. GYP SUM | Gypsum (17.5% S) in 1999: |
| SG | Sulphur at 30 kg |
| S- | None |

EXTRA

- None (duplicated)

Experimental diary:

02-Sep-98	: B :	: Ploughed and pressed.
04-Sep-98	: B :	: Rotary harrowed. Drilled Apex, tr. Lindex-Plus FS Seed Treatment, at 120 seeds/m ² with the Accord drill.
16-Sep-98	: B :	: 34.5% N at 101 kg.
17-Sep-98	: B :	: tm)Butisan S at 1.0 l in 200 l.
	: B :	: tm)Cyperkill 10 at 250 ml in 200 l.
02-Dec-98	: B :	: tm)Cyperkill 10 at 250 ml in 200 l.
	: B :	: tm)Punch C at 0.4 l in 200 l.
22-Feb-99	: B :	: 34.5% N at 290 kg.

99/W/CS/491

Experimental diary:

23-Feb-99 : B : : Punch C at 0.4 l in 200 l.
 15-Apr-99 : T : SG : Gypsum at 171 kg.
 06-May-99 : B : : Bavistin DF at 1.0 kg in 200 l.
 : B : : Fastac at 200 ml.
 13-Jul-99 : B : : tm)Reglone at 3.0 l in 400 l.
 : B : : tm)Enhance at 400 ml in 400 l.
 22-Jul-99 : B : : Combine harvested.

NOTE: One sub-plot with treatment **EXTRA** - received the wrong treatment an estimated value was used in the analysis.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

***** Tables of means *****

APP TIME	(SB)	(MAR)	Mean
S FORM			
(T+A)	3.02	2.85	2.94
(AS)	2.59	2.90	2.75
(T90)	2.72	3.10	2.91
(NAS)	2.78	2.74	2.76
Mean	2.78	2.90	2.84

GYPSUM	SG	S-	Mean
S FORM			
(T+A)	3.41	2.47	2.94
(AS)	3.21	2.28	2.75
(T90)	3.51	2.32	2.91
(NAS)	3.36	2.16	2.76
Mean	3.37	2.31	2.84

GYPSUM	SG	S-	Mean
APP TIME			
(SB)	3.28	2.27	2.78
(MAR)	3.46	2.34	2.90
Mean	3.37	2.31	2.84

S FORM	GYPSUM	SG	S-
(T+A)	(SB)	3.49	2.55
	(MAR)	3.32	2.39
(AS)	(SB)	3.20	1.98
	(MAR)	3.22	2.58
(T90)	(SB)	3.21	2.22
	(MAR)	3.80	2.41
(NAS)	(SB)	3.22	2.33
	(MAR)	3.50	1.98

EXTRA - 1.88

GRAND MEAN 2.73