

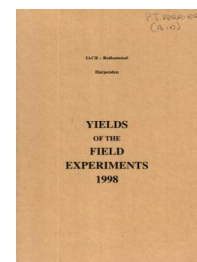
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98/W/CS/491 Efficiency of S Fertilisers - W. Wheat

Rothamsted Research

Rothamsted Research (1999) *98/W/CS/491 Efficiency of S Fertilisers - W. Wheat* ; Yields Of The Field Experiments 1998, pp 112 - 113 - DOI: <https://doi.org/10.23637/ERADOC-1-52>

98/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 - Woburn, Stackyard III.

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

The first year, w. wheat.

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

Plot dimensions: 4.0 x 12.0.

Treatments:-

1. S FORM	Form of sulphur:
T+A	Tiger 90 and ammonium sulphate
AS	Ammonium sulphate
T90	Tiger 90
NAS	Sodium thiosulphate

2. APP TIME	Time of application:
SB	To the seedbed
MAR	17-Mar-98

EXTRA

-	None
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NOTE: Nitrogen fertilizer was applied to balance the nitrogen supplied by ammonium sulphate, this was 26 kg to the seedbed and to give a total of 180 kg N in March.

Experimental diary:

29-Sep-97 : B : Ploughed.
01-Oct-97 : B : Rolled.
02-Oct-97 : B : Rotary harrowed.
03-Oct-97 : **T** : **APP TIME** SB: Sulphur treatments applied to give 30 kg S.
 : **T** : Balancing nitrogen applied as 27% N.
03-Oct-97 : B : Riband, dressed Sibutol, drilled at 385 seeds per m².
13-Nov-97 : B : Stomp 400 SC at 2.0 l with Isoproturon 500 at 1.0 l and
 Cyperkill 10 at 0.25 in 200 l.
17-Mar-98 : **T** : **APP TIME** MAR: Sulphur treatments applied to give 30 kg S.
 : **T** : Balancing nitrogen applied as 27% N.
04-May-98 : B : Alto 100 SL at 0.6 l in 200 l. Tripart Brevis at 1.5 l
 in 200 l.
31-May-98 : B : Opus at 0.8 l in 200 l.
12-Jun-98 : B : Folicur at 0.3 l with Bavistin DF at 0.3 kg in 200 l.
13-Aug-98 : B : Combine harvested.

Previous crops: W. rye 1996, potatoes 1997.

98/W/CS/491

NOTE: Soils were sampled in October and August and analysed for sulphur.
Plants were sampled in April, July and August for sulphur and nitrogen.

GRAIN TONNES/HECTARE

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

APP TIME	SB	MAR	Mean
S FORM			
T+A	9.41	8.98	9.19
AS	9.37	9.38	9.37
T90	9.11	9.15	9.13
NAS	9.19	9.30	9.24
Mean	9.27	9.20	9.24
EXTRA	9.37		

GRAND MEAN 9.25

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

S FORM	APP TIME	S FORM APP TIME & EXTRA
0.177	0.125	0.250

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	24	0.353	3.8

GRAIN MEAN DM% 87.9

PLOT AREA HARVESTED 0.00230