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98/R/WW/3 Plant N Indicators - W. Wheat

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98/R/WW/3

WINTER WHEAT

PLANT N INDICATORS

Object: To relate chlorophyll concentrations in individual leaves of w. wheat to nitrogen supply and crop yield - Pastures.

Sponsors: P.B. Barraclough.

Design: 3 randomised blocks of 18 plots.

Whole plot dimensions: 3.0 x 25.0.

Treatments:

	Kg N and timing:				Total
	Early March (GS 24)	Mid April (GS 31)	Mid May (GS 37)	Late May (GS 51)	
-	0	0	0	0	0
A	40	40	0	0	80
B	40	40	40	0	120
C	40	40	80	0	160
D	40	80	0	0	120
E	40	80	40	0	160
F	40	80	80	0	200
G	40	120	0	0	160
H	40	120	40	0	200
I	40	120	80	0	240
J	40	160	0	0	200
K	40	0	0	0	40
L	40	0	40	0	80
M	40	0	80	0	120
N	40	0	0	80	120
O	40	40	0	80	160
P	40	80	0	80	200
Q	40	120	0	80	240

Experimental diary:

- 11-Sep-97 : B : Harvest at 3.0 l in 300 l.
- 26-Sep-97 : B : Ploughed. Rolled.
- 06-Oct-97 : B : Rotary harrowed, Hereward, dressed Anchor, drilled at 380 seeds per m².
- 24-Oct-97 : B : Tiger 90 at 15 kg.
- 26-Nov-97 : B : Atlas Fieldgard at 5.0 l with MSS Optica at 0.7 l in 100 l.
- 13-Mar-98 : T : **NITROGEN** applied as 34.5% N (GS 24).
- 08-Apr-98 : T : **NITROGEN** applied as 34.5% N (GS 31).
- 27-Apr-98 : B : Opus at 0.6 l with Tripart Brevis at 2.25 l in 200 l.
- 05-May-98 : B : Ally at 20 g with Starane 2 at 0.7 l in 200 l.

98/R/WW/3

Experimental diary:

15-May-98 : **T** : **NITROGEN** applied as 34.5% N (GS 37).
 : **B** : Bravo 500 at 1.0 l with Opus at 0.5 l in 200 l.
19-May-98 : **B** : Irrigated 15 mm.
28-May-98 : **T** : **NITROGEN** applied as 34.5% N (GS 51).
15-Jun-98 : **B** : Bavistin DF at 0.5 kg with Folicur at 0.5 l in 100 l.
19-Aug-98 : **B** : Combine harvested.

Previous crops: W. wheat 1996, s. beans 1997

NOTE:

GRAIN TONNES/HECTARE

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

NITROGEN

-	7.19
A	8.65
B	9.20
C	9.68
D	9.11
E	9.19
F	8.70
G	9.12
H	8.54
I	9.05
J	8.89
K	8.14
L	9.20
M	9.70
N	8.78
O	9.31
P	9.44
Q	8.35
Mean	8.90

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

NITROGEN

0.226

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	34	0.277	3.1
GRAIN MEAN DM%	88.1		
PLOT AREA HARVESTED	0.00437		