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# Yields of the Field Experiments 1980



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# 80/R/WW/4 Winter Wheat Seed and Divided N Dressings

## **Rothamsted Research**

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#### 80/R/WW/4

#### WINTER WHEAT

#### SEED RATES AND DIVIDED N DRESSINGS

Object: To study the effects of a range of rates of early nitrogen dressings on the growth and yield of w. wheat sown at half or standard seed rate - Gt. Knott III.

Sponsors: J. McEwen, R. Moffitt.

Design: 2 randomised blocks of 24 plots.

Whole plot dimensions: 4.27 x 8.08.

Treatments: All combinations of:-

1. SEEDRATE Seed rates (kg):

100 200

EARLY N Nitrogen fertiliser applied 4 Mar, 1980 (kg N):

0 25

50

75

3. APRIL N Nitrogen fertiliser applied 14 Apr (kg N):

75

100

125

Basal applications: Manures: (0:20:20) at 310 kg. Weedkillers: Paraquat at 0.56 kg ion in 220 l. Methabenzthiazuron at 1.5 kg in 220 l. Isoproturon at 2.9 kg in 250 l. Fungicide: Triadimefon at 0.13 kg in 250 l. Insecticide: Demeton-s-methyl at 0.24 kg in 250 l. Growth regulator: Chlormequat at 1.7 l in 250 l.

Seed: Flanders.

- Cultivations, etc.:- Heavy spring-tine cultivated twice: 24 Sept, 1979.
  Paraquat applied: 15 Oct. PK applied, spring-tine cultivated, seed sown: 22 Oct. Methabenzthiazuron applied: 24 Oct. Isoproturon applied: 24 Apr, 1980. Growth regulator applied: 7 May. Fungicide applied: 3 June. Insecticide applied: 23 June. Combine harvested: 22 Aug. Previous crops: S. barley 1978, s. oats 1979.
- NOTES: (1) Plant counts were made in January, tiller counts in April and ear counts in July.
  - (2) 1000 grain weights and N content of grain were measured.

FIRM KIND

## 80/R/WW/4

GRAIN TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

EARLY N SEEDRATE	0	25	50	75	MEAN
100	6.66	7.32	7.94	7.83	7.44
200	7.22	7.36	7.80	7.86	7.56
MEAN	6.94	7.34	7.87	7.85	7.50
APRIL N SEEDRATE	75	100	125	MEAN	
100	7.29	7.38	7.64	7.44	
200	7.13	7.68	7.87	7.56	
MEAN	7.21	7.53	7.76	7.50	
APRIL N EARLY N	75	100	125	MEAN	
0	6.56	6.96	7.31	6.94	
25	6.87	7.46	7.69	7.34	
50	7.65	8.10	7.85	7.87	
75	7.77	7.59	8.18	7.85	
MEAN	7.21	7.53	7.76	7.50	
	APRIL N	75	100	125	
SEEDRATE	EARLY N				
100	0	6.22		7.10	
	25	7.12		7.47	
	50	8.05		7.84	
***	75	7.77		8.16	
200	0	6.90		7.51	
	25	6.62		7.90	
	50	7.25		7.86	
	75	7.77	7.62	8.20	

\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

TABLE	SEEDRATE .	EARLY N	APRIL N	SEEDRATE EARLY N
SED	0.089	0.126	0.109	0.178
TABLE	SEEDRATE APRIL N	EARLY N APRIL N	SEEDRATE EARLY N APRIL N	
SED	0.154	0.218	0.308	

\*\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*\*

STRATUM DF SE CV%
BLOCK.WP 23 0.308 4.1

GRAIN MEAN DM% 84.0 PLOT AREA HARVESTED 0.00246