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# Yields of the Field Experiments 1986

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## 86/R/RA/9 Forms and Times of N - W. Oilseed Rape

### Rothamsted Research

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86/R/RA/9

WINTER OILSEED RAPE

FORMS AND TIMES OF N

Object: To compare the effects of single and divided dressings of urea and 'Nitro-Chalk' on the yield of w. oilseed rape - Little Hoos.

Sponsor: R.J. Darby.

Design: 3 randomised blocks of 15 plots.

Whole plot dimensions: 4.0 x 13.0.

Treatments: All combinations of:-

1. N FORM                      Forms of nitrogen fertilizer:  
    AMM NIT                    Ammonium nitrate, (as 'Nitro-Chalk' 26% N)  
    UREA                        Prilled urea
2. N TIME                      Times of applying a total dressing of 200 kg N:  
    4 - - -                      All on 12 Mar, 1986  
    3 1 - -                      Three quarters on 12 Mar, one quarter on 26 Mar  
    3 - 1 -                      Three quarters on 12 Mar, one quarter on 24 Apr  
    2 2 - -                      Half on 12 Mar, half on 26 Mar  
    2 - 2 -                      Half on 12 Mar, half on 24 Apr  
    2 1 1 -                      Half on 12 Mar, quarter on 26 Mar, quarter on 24 Apr  
    1 1 1 1                      One quarter on 12 Mar and 26 Mar and 24 Apr and 7 May

plus one extra treatment

EXTRA

NONE                          No nitrogen fertilizer

Basal applications: Weedkillers: Fluazifop-P-butyl at 0.19 kg in 200 l with a wetting agent ('Agral' at 0.20 l). Clopyralid and propyzamide (as 'Matrikerb' at 1.6 kg) in 500 l. Fungicides: Iprodione at 0.50 kg in 500 l. Insecticide: Deltamethrin at 0.0062 kg in 500 l. Desiccant: Diquat at 0.60 kg ion in 500 l with a wetting agent ('Agral' at 0.50 l).

Seed: Mikado, dressed gamma HCH, thiram and fenpropimorph, sown at 8.0 kg.

Cultivations, etc.: - Rotary grubbed: 17 Aug, 1985. Discd, spring-tine cultivated, seed sown: 22 Aug. Fluazifop-P-butyl with wetting agent applied: 27 Sept. Insecticide applied: 31 Oct. 'Matrikerb' applied: 19 Dec. Fungicide applied: 25 June, 1986. Desiccant with wetting agent applied: 24 July. Combine harvested: 3 Aug. Previous crops: W. wheat 1984, w. barley 1985.

NOTE: Incidence of light leaf spot and downy mildew on pods was assessed at the end of July.

86/R/RA/9

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

N FORM N TIME	AMM NIT	UREA	MEAN
4 - - -	4.08	3.75	3.92
3 1 - -	4.12	3.76	3.94
3 - 1 -	4.01	3.82	3.91
2 2 - -	4.09	3.96	4.03
2 - 2 -	3.77	3.80	3.79
2 1 1 -	3.94	3.83	3.88
1 1 1 1	3.96	3.92	3.94
MEAN	3.99	3.84	3.91

EXTRA NONE 1.67

GRAND MEAN 3.77

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

TABLE	N FORM	N TIME	N FORM N TIME & NONE
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SED	0.059	0.110	0.156

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

STRATUM	DF	SE	CV%
BLOCK.WP	28	0.191	5.1
GRAIN MEAN DM%	89.2		
PLOT AREA HARVESTED	0.00300		