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88/R/RA/5 Precision Sowing - W. Oilseed Rape

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88/R/RA/5

WINTER OILSEED RAPE

PRECISION SOWING

Object: To compare three drills at four seed rates on two sowing dates with and without an insecticide - Whittlocks.

Sponsor: D.P. Yeoman.

Design: 2 replicates of 32 plots arranged in 4 blocks of 16 plots.

Whole plot dimensions: 3.0 x 15.0.

Treatments: All combinations (duplicated) of:-

- DRILL** Drills used to sow seed:

 ALPHA AC Alpha Accord sown in rows 12.5 cm apart, seeds randomly spaced
 CNVNTIAL Conventional, sown in rows 17.6 cm apart, seeds randomly spaced
 STANHAY Stanhay, sown in rows 25 cm apart, seeds precisely spaced
- SOW DATE** Dates of sowing:

 21 AUG 21 August, 1987
 11 SEP 11 September
- SEEDRATE** Seed rates:

 4 KG
 8 KG

Plus all combinations (duplicated) of:-

- A SDRTX** Alpha Accord sowing at extra seed rates:

 2 KG
 16 KG
- SOWDATEX** Dates of sowing:

 21 AUG
 11 SEP

NOTE: A planned test of deltamethrin in autumn was omitted.

Basal applications: Manures: 'Nitram' at 140 kg and later at 720 kg.
Weedkillers: TCA at 16 kg in 200 l. Metazachlor at 1.2 kg in 200 l.
Desiccant: Diquat at 0.60 kg ion with a wetting agent ('Enhance' at 0.50 l) in 520 l.

Seed: Ariana, dressed gamma HCH, thiram and fenpropimorph.

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Cultivations, etc.:- Discd twice, first N applied: 19 Aug, 1987. TCA applied, harrowed twice, rotary harrowed: 20 Aug. **SOW DATE** 21 AUG seed sown: 21 Aug. **SOW DATE** 11 SEP rotary harrowed, seed sown: 11 Sept. Metazachlor applied: 1 Oct. Second N applied: 19 Feb, 1988. Desiccant with wetting agent applied: 20 July. Combine harvested: 27 July. Previous crops: W. wheat 1986, w. barley 1987.

NOTE: Plant counts were made at establishment and in spring.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SOW DATE	21 AUG	11 SEP	Mean	
DRILL				
ALPHA C	2.32	3.25	2.79	
CNVNTIAL	2.96	3.47	3.22	
STANHAY	2.75	3.27	3.01	
Mean	2.68	3.33	3.00	
SEEDRATE	4 KG	8 KG	Mean	
DRILL				
ALPHA C	2.89	2.68	2.79	
CNVNTIAL	3.39	3.05	3.22	
STANHAY	3.03	2.99	3.01	
Mean	3.10	2.91	3.00	
SEEDRATE	4 KG	8 KG	Mean	
SOW DATE				
21 AUG	2.87	2.49	2.68	
11 SEP	3.34	3.33	3.33	
Mean	3.10	2.91	3.00	
SOW DATE	21 AUG		11 SEP	
DRILL SEEDRATE	4 KG	8 KG	4 KG	8 KG
ALPHA C	2.27	2.36	3.51	3.00
CNVNTIAL	3.28	2.64	3.49	3.46
STANHAY	3.05	2.46	3.01	3.53
SOWDATEX	21 AUG	11 SEP	Mean	
A SDRTX				
2 KG	2.92	3.61	3.26	
16 KG	1.94	2.75	2.35	
Mean	2.43	3.18	2.81	
GRAND MEAN	2.95			

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GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

DRILL	SOW DATE	SEEDRATE	DRILL SOW DATE
0.162	0.133	0.133	0.230
DRILL SEEDRATE	SOW DATE SEEDRATE	DRILL SOW DATE SEEDRATE	A SDRTX
0.230	0.187	0.325	0.230
SOWDATEX	A SDRTX SOWDATEX		
0.230	0.325		

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	47	0.459	15.5
MEAN DM%	80.0		
PLOT AREA HARVESTED	0.00345		