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Yields of the Field Experiments 1976

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DEPARTMENT	EXPERIMENTAL AREA	TESTS
Breeding	Barley, Potatoes, Wheat	1000
Botany	Barley, Potatoes, Wheat	1000
Chemistry	Barley, Potatoes, Wheat	1000
Ecology	Barley, Potatoes, Wheat	1000
Entomology	Barley, Potatoes, Wheat	1000
Geography	Barley, Potatoes, Wheat	1000
Genetics	Barley, Potatoes, Wheat	1000
Microbiology	Barley, Potatoes, Wheat	1000
Nursery	Barley, Potatoes, Wheat	1000
Pathology	Barley, Potatoes, Wheat	1000
Pest Control	Barley, Potatoes, Wheat	1000
Physics	Barley, Potatoes, Wheat	1000
Soil Science	Barley, Potatoes, Wheat	1000
Statistics	Barley, Potatoes, Wheat	1000
Total	Barley, Potatoes, Wheat	1000
General	Barley, Potatoes, Wheat	1000
Geography	Barley, Potatoes, Wheat	1000
Botany	Barley, Potatoes, Wheat	1000
Ecology	Barley, Potatoes, Wheat	1000
Entomology	Barley, Potatoes, Wheat	1000
Genetics	Barley, Potatoes, Wheat	1000
Microbiology	Barley, Potatoes, Wheat	1000
Nursery	Barley, Potatoes, Wheat	1000
Pathology	Barley, Potatoes, Wheat	1000
Pest Control	Barley, Potatoes, Wheat	1000
Physics	Barley, Potatoes, Wheat	1000
Soil Science	Barley, Potatoes, Wheat	1000
Statistics	Barley, Potatoes, Wheat	1000
Total	Barley, Potatoes, Wheat	1000

76/R/B/1 Factors Affecting Mildew Control and Yield - Barley

Rothamsted Research

Rothamsted Research (1977) 76/R/B/1 *Factors Affecting Mildew Control and Yield - Barley* ; Yields Of The Field Experiments 1976, pp 294 - 297 - DOI: <https://doi.org/10.23637/ERADOC-1-15>

76/R/B/1

WINTER BARLEY

FACTORS AFFECTING MILDEW CONTROL AND YIELD

Object: To study the effects and interactions of sowing date, seed rate, mildew control and timing of spring nitrogen on the incidence of mildew and yield of winter barley - Gt. Knott I.

Sponsors: A. Bainbridge, M.E. Finney, J.F. Jenkyn.

Design: Single replicate of 2 x 2 x 2 x 2 x 2 x 2 x 2.

Whole plot dimensions: 2.13 x 6.10.

Treatments: All combinations of:-

1. SOW DATE Sowing Dates:

24 SEPT	24 September
6 NOV	6 November

2. SEEDRATE Seed Rates (kg):

78	78
156	156

3. TRIDEMOR(1) Tridemorph foliar spray to early growth:

NONE	None
SPRAYED	Sprayed (14 Nov to SOW DATE 24 SEPT, 25 Feb to SOW DATE 6 NOV)

4. TRIDEMOR(2) Tridemorph foliar spray in April:

NONE	None
SPRAYED	Sprayed (9 Apr)

5. TRIDEMOR(3) Tridemorph foliar spray in May:

NONE	None
SPRAYED	Sprayed (13 May)

6. N TIME Time of applying nitrogen (at 75 kg):

MARCH	Early March (9 Mar)
APRIL	Late April (27 Apr)

NOTE: Tridemorph applied at 0.53 kg in 340 l.

Basal applications: Weedkillers: Mecoprop at 1.7 kg in 340 l.

Seed: Astrix.

Cultivations, etc.: Ploughed: 16 Sept, 1975. Spring-tine cultivated twice: 16, 17 Sept. Rotary harrowed for early sowing: 22 Sept. Power harrowed for late sowing: 6 Nov. Weedkiller applied: 13 Nov. Combine harvested: 8 July, 1976. Previous crops: Winter wheat 1974, beans 1975.

NOTE: Seedling emergence counts were made. Leaf diseases were assessed on six occasions. Ear counts were made in early July.

76/R/B/1

GRAIN TONNES/HECTARE

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

SEEDRATE	78	156	MEAN
SOW DATE			
24 SEPT	7.78	8.02	7.90
6 NOV	4.41	4.44	4.42
MEAN	6.09	6.23	6.16
TRIDEMOR(1)	NONE	SPRAYED	MEAN
SOW DATE			
24 SEPT	7.66	8.14	7.90
6 NOV	4.27	4.57	4.42
MEAN	5.97	6.35	6.16
TRIDEMOR(1)	NONE	SPRAYED	MEAN
SEEDRATE			
78	5.90	6.28	6.09
156	6.03	6.43	6.23
MEAN	5.97	6.35	6.16
TRIDEMOR(2)	NONE	SPRAYED	MEAN
SOW DATE			
24 SEPT	7.66	8.14	7.90
6 NOV	4.25	4.60	4.42
MEAN	5.95	6.37	6.16
TRIDEMOR(2)	NONE	SPRAYED	MEAN
SEEDRATE			
78	5.98	6.20	6.09
156	5.93	6.54	6.23
MEAN	5.95	6.37	6.16
TRIDEMOR(2)	NONE	SPRAYED	MEAN
TRIDEMOR(1)			
NONE	5.78	6.15	5.97
SPRAYED	6.12	6.59	6.35
MEAN	5.95	6.37	6.16
TRIDEMOR(3)	NONE	SPRAYED	MEAN
SOW DATE			
24 SEPT	7.80	8.00	7.90
6 NOV	4.35	4.49	4.42
MEAN	6.08	6.24	6.16
TRIDEMOR(3)	NONE	SPRAYED	MEAN
SEEDRATE			
78	5.99	6.19	6.09
156	6.17	6.29	6.23
MEAN	6.08	6.24	6.16

76/R/B/1

GRAIN TONNES/HECTARE

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

TRIDEMOR(3)	NONE	SPRAYED	MEAN
TRIDEMOR(1)			
NONE	5.96	5.98	5.97
SPRAYED	6.20	6.51	6.35
MEAN	6.08	6.24	6.16
TRIDEMOR(3)	NONE	SPRAYED	MEAN
TRIDEMOR(2)			
NONE	5.78	6.13	5.95
SPRAYED	6.38	6.36	6.37
MEAN	6.08	6.24	6.16
N TIME	MARCH	APRIL	MEAN
SOW DATE			
24 SEPT	7.69	8.11	7.90
6 NOV	4.25	4.59	4.42
MEAN	5.97	6.35	6.16
N TIME	MARCH	APRIL	MEAN
SEEDRATE			
78	5.88	6.31	6.09
156	6.06	6.40	6.23
MEAN	5.97	6.35	6.16
N TIME	MARCH	APRIL	MEAN
TRIDEMOR(1)			
NONE	5.78	6.16	5.97
SPRAYED	6.16	6.54	6.35
MEAN	5.97	6.35	6.16
N TIME	MARCH	APRIL	MEAN
TRIDEMOR(2)			
NONE	5.84	6.07	5.95
SPRAYED	6.10	6.63	6.37
MEAN	5.97	6.35	6.16
N TIME	MARCH	APRIL	MEAN
TRIDEMOR(3)			
NONE	5.86	6.29	6.08
SPRAYED	6.08	6.41	6.24
MEAN	5.97	6.35	6.16

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GRAIN TONNES/HECTARE

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

TABLE	SOW DATE	SEEDRATE	TRIDEMOR(1)	TRIDEMOR(2)
SED	0.124	0.124	0.124	0.124
TABLE	TRIDEMOR(3)	N TIME	SOW DATE	SOW DATE
			SEEDRATE	TRIDEMOR(1)
SED	0.124	0.124	0.175	0.175
TABLE	SEEDRATE	SOW DATE	SEEDRATE	TRIDEMOR(1)
	TRIDEMOR(1)	TRIDEMOR(2)	TRIDEMOR(2)	TRIDEMOR(2)
SED	0.175	0.175	0.175	0.175
TABLE	SOW DATE	SEEDRATE	TRIDEMOR(1)	TRIDEMOR(2)
	TRIDEMOR(3)	TRIDEMOR(3)	TRIDEMOR(3)	TRIDEMOR(3)
SED	0.175	0.175	0.175	0.175
TABLE	SOW DATE	SEEDRATE	TRIDEMOR(1)	TRIDEMOR(2)
	N TIME	N TIME	N TIME	N TIME
SED	0.175	0.175	0.175	0.175
TABLE	TRIDEMOR(3)	N TIME		
SED	0.175			

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

STRATUM	DF	SE	CV%
WP	22	0.495	8.0

GRAIN MEAN DM% 89.0

PLOT AREA HARVESTED 0.00130