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Yields of the Field Experiments 1983

Full Table of Content

83/R/WW/3 Factors Limiting Yield - W. Wheat

Rothamsted Research

Rothamsted Research (1984) *83/R/WW/3 Factors Limiting Yield - W. Wheat ;* Yields Of The Field Experiments 1983, pp 212 - 228 **- DOI: https://doi.org/10.23637/ERADOC-1-44**

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83/R/WW/3

WINTER WHEAT

FACTORS LIMITING YIELD

Object: To study the effects of a range of factors on the incidence of pests and diseases and on the growth and yield of w. wheat - Little Hoos.

Sponsors: R.D. Prew, B.M. Church, A.M. Dewar, J. Lacey, A. Penny, R.T. Plumb, G.N. Thorne, A.D. Todd, T.D. Williams.

Associate sponsors: D.S. Jenkinson, A.H. Weir, P.J. Welbank, F.V. Widdowson.

Design: Half replicate of 2^8 + 49 extra plots, arranged in 4 blocks with PREVCROP on blocks.

Whole plot dimensions: 3.0 x 15.2.

Treatments: Combinations of:-

Blocks

1. PREVCROP	Previous cropping:
BARLEY	Potatoes 1980, w. wheat 1981, w. barley 1982
OATS	Potatoes 1980, w. wheat 1981, w. oats 1982

Whole plots

2. SOWDATE	Dates of sowing:
15 SEP	15 September, 1982
26 OCT	26 October
3. TOTAL N	Total amount of N fertilizer (kg N) as 'Nitro-Chalk':
180	
250	
4. N TIME	Timing of nitrogen fertilizer applications:
EARLY	2 February, 1983, 4 March, 3 May
LATE	4 March, 5 April, 16 May
5. GROWREG	Growth regulator:
NONE	None
CHLORMEQ	Chlormequat chloride + choline chloride (as 'New 5 C Cycocel' at 1.75 l) at Zadoks GS 30 on 8 March for SOWDATE 15 SEPT and 14 April for SOWDATE 26 OCT
6. SPR FUNG	Spring fungicide:
NONE	None
TRIDEMOR	Tridemorph at 0.52 kg on 13 April

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7. SUM FUNG — Summer fungicide:

NONE	None
PROPICON	Propiconazole at 0.12 kg, alone in 220 l on 25 May with carbendazim at 0.25 kg and maneb at 1.6 kg in 220 l on 22 June

8. PESTCIDE — Autumn and summer pesticides:

NONE	None
ALD+PIR	Aldicarb at 7.0 kg worked into seedbed + pirimicarb at 0.14 kg in 220 l on 23 June

Plus all combinations of the following (all given chlormequat chloride + choline chloride, tridemorph, propiconazole, carbendazim, maneb, aldicarb, pirimicarb; the plots sown 15 Sept were given N timed early and plots sown 26 Oct given N timed late):

Blocks

1. PRECROPX — Previous cropping:

BARLEY	Potatoes 1980, w. wheat 1981, w. barley 1982
OATS	Potatoes 1980, w. wheat 1981, w. oats 1982

Whole plots

2. SOWDATEX — Dates of sowing:

15 SEPT	15 September, 1982
26 OCT	26 October

3. TOTAL NX — Total amount of N fertilizer (kg N) as 'Nitro-Chalk':

0
145
215
285

Plus a half replicate of the following combinations (all trickle irrigated to lessen a deficit of 37.5 mm to 12.5 mm, and given chlormequat chloride + choline chloride, tridemorph, propiconazole, carbendazim, maneb, aldicarb and pirimicarb):

Blocks

1. PRECROPI — Previous cropping:

BARLEY	Potatoes 1980, w. wheat 1981, w. barley 1982
OATS	Potatoes 1980, w. wheat 1981, w. oats 1982

Whole plots

2. SOWDATEI — Dates of sowing:

15 SEPT	15 September, 1982
26 OCT	26 October

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3. TOTAL NI — Total amount of N fertilizer (kg N) as 'Nitro-Chalk':

   180
   250

4. N TIMEI — Timing of fertilizer application:

   EARLY — 2 February, 1983, 4 March, 3 May
   LATE — 4 March, 5 April, 16 May

5. AUT NI — Autumn applied N fertilizer:

   NONE — None
   AUT N — 40 kg N applied to seedbed in addition to spring N

Plus seven extra treatments (all, except NONE plots, given chlormequat chloride + choline chloride, tridemorph, propiconazole, carbendazim, maneb, aldicarb, pirimicarb):

EXTRA

SE GREGX — Sown 15 Sept, after barley given additional chlormequat chloride + choline chloride (as '5 C Cycocel' at 1.0 l) at Zadoks GS 13/21 on 9 Nov, 1982, and 220 kg N at N TIME EARLY (duplicated)
SL GREGX — Sown 26 Oct, after barley given additional chlormequat chloride + choline chloride (as '5 C Cycocel' at 1.0 l) at Zadoks GS 13/21 on 27 Jan, 1983 and 220 kg N at N TIME LATE (duplicated)
SE FAL — Sown 15 Sept after fallow and given 250 kg N at N TIME EARLY (triplicated)
SL FAL — Sown 26 Oct after fallow and given 250 kg N at N TIME LATE (triplicated)
SE NONE B — Sown 15 Sept after barley
SE NONE F — Sown 15 Sept after fallow
SL NONE F — Sown 26 Oct after fallow

NOTES: (1) TOTAL N fertilizer was given in three applications, 40 kg N on the first and third dates for each N TIME the remainder on the second.
(2) Half of the plots with treatment combinations including SOWDATE 15 SEPT and PREVCROP OATS had a second treatment of growth regulator in error on 14 April. Observations suggested that this had no further effect and the presentation of results has not been amended to take account of the error.
(3) The irrigation treatment was as follows (mm water):-

June 28	25
June 29	25
July 14	37.5
July 21	25
Total	112.5

Basal applications: Manures: (0:18:36) at 420 kg. Weedkillers: Paraquat at 0.56 kg ion in 250 l. Glyphosate at 1.4 kg in 250 l. Isoproturon at 2.1 kg with dicamba, mecoprop and MCPA (as 'Poly-Farmon CMPP' at 4.2 l) in 250 l.

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Seed: Avalon, sown at 170 kg.

Cultivations, etc.:- Glyphosate applied: 17 Aug, 1982. Disced: 25 Aug, 1 Sept. PK applied, paraquat applied: 10 Sept. Ploughed: 13 Sept. Aldicarb applied for SOWDATE 15 SEPT, rotary harrowed, seed sown: 15 Sept. Aldicarb applied for SOWDATE 26 OCT: 20 Oct. These plots rotary harrowed, seed sown: 26 Oct. Isoproturon with 'Poly-Farmon CMPP' applied: 11 Mar, 1983. Combine harvested: 11 Aug.

NOTE: Soil was sampled for nematodes, shoot borers, water and mineral N contents. Plants were assessed for foot and root rots throughout the season. The above-ground crop was examined for barley yellow dwarf virus, aphids, foliar diseases and microflora. Light interception, dry weight, leaf area, shoot numbers and N and K content of the above-ground crop and stem nitrate were measured on several occasions.

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GRAIN TONNES/HECTARE

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

SOWDATE	15 SEPT	26 OCT	MEAN
PREVCROP			
BARLEY	7.62	8.26	7.94
OATS	10.03	9.61	9.82
MEAN	8.83	8.94	8.88

TOTAL N	180	250	MEAN
PREVCROP			
BARLEY	7.75	8.12	7.94
OATS	9.74	9.91	9.82
MEAN	8.75	9.02	8.88

TOTAL N	180	250	MEAN
SOWDATE			
15 SEPT	8.72	8.94	8.83
26 OCT	8.77	9.10	8.94
MEAN	8.75	9.02	8.88

N TIME	EARLY	LATE	MEAN
PREVCROP			
BARLEY	7.82	8.06	7.94
OATS	9.74	9.91	9.82
MEAN	8.78	8.99	8.88

N TIME	EARLY	LATE	MEAN
SOWDATE			
15 SEPT	8.60	9.05	8.83
26 OCT	8.95	8.92	8.94
MEAN	8.78	8.99	8.88

N TIME	EARLY	LATE	MEAN
TOTAL N			
180	8.67	8.82	8.75
250	8.88	9.16	9.02
MEAN	8.78	8.99	8.88

GROWREG	NONE	CHLORMEQ	MEAN
PREVCROP			
BARLEY	7.98	7.90	7.94
OATS	9.82	9.83	9.82
MEAN	8.90	8.86	8.88

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GRAIN TONNES/HECTARE

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

GROWREG SOWDATE	NONE	CHLORMEQ	MEAN
15 SEPT	8.78	8.87	8.83
26 OCT	9.03	8.85	8.94
MEAN	8.90	8.86	8.88

GROWREG TOTAL N	NONE	CHLORMEQ	MEAN
180	8.76	8.73	8.75
250	9.04	9.00	9.02
MEAN	8.90	8.86	8.88

GROWREG N TIME	NONE	CHLORMEQ	MEAN
EARLY	8.81	8.75	8.78
LATE	8.99	8.98	8.99
MEAN	8.90	8.86	8.88

SPR FUNG PREVCROP	NONE	TRIDEMOR	MEAN
BARLEY	7.74	8.14	7.94
OATS	9.77	9.88	9.82
MEAN	8.75	9.01	8.88

SPR FUNG SOWDATE	NONE	TRIDEMOR	MEAN
15 SEPT	8.68	8.97	8.83
26 OCT	8.83	9.04	8.94
MEAN	8.75	9.01	8.88

SPR FUNG TOTAL N	NONE	TRIDEMOR	MEAN
180	8.69	8.80	8.75
250	8.82	9.22	9.02
MEAN	8.75	9.01	8.88

SPR FUNG N TIME	NONE	TRIDEMOR	MEAN
EARLY	8.62	8.94	8.78
LATE	8.89	9.08	8.99
MEAN	8.75	9.01	8.88

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GRAIN TONNES/HECTARE

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

SPR FUNG GROWREG	NONE	TRIDEMOR	MEAN
NONE	8.83	8.98	8.90
CHLORMEQ	8.68	9.04	8.86
MEAN	8.75	9.01	8.88

SUM FUNG PREVCROP	NONE	PROPICON	MEAN
BARLEY	7.64	8.24	7.94
OATS	9.48	10.17	9.82
MEAN	8.56	9.20	8.88

SUM FUNG SOWDATE	NONE	PROPICON	MEAN
15 SEPT	8.57	9.08	8.83
26 OCT	8.55	9.33	8.94
MEAN	8.56	9.20	8.88

SUM FUNG TOTAL N	NONE	PROPICON	MEAN
180	8.55	8.94	8.75
250	8.57	9.47	9.02
MEAN	8.56	9.20	8.88

SUM FUNG N TIME	NONE	PROPICON	MEAN
EARLY	8.45	9.10	8.78
LATE	8.66	9.31	8.99
MEAN	8.56	9.20	8.88

SUM FUNG GROWREG	NONE	PROPICON	MEAN
NONE	8.65	9.15	8.90
CHLORMEQ	8.47	9.26	8.86
MEAN	8.56	9.20	8.88

SUM FUNG SPR FUNG	NONE	PROPICON	MEAN
NONE	8.36	9.15	8.75
TRIDEMOR	8.76	9.26	9.01
MEAN	8.56	9.20	8.88

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GRAIN TONNES/HECTARE

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

PESTCIDE	NONE	ALD+PIR	MEAN
PREVCROP			
BARLEY	8.09	7.79	7.94
OATS	9.80	9.85	9.82
MEAN	8.94	8.82	8.88

PESTCIDE	NONE	ALD+PIR	MEAN
SOWDATE			
15 SEPT	8.90	8.75	8.83
26 OCT	8.98	8.89	8.94
MEAN	8.94	8.82	8.88

PESTCIDE	NONE	ALD+PIR	MEAN
TOTAL N			
180	8.79	8.70	8.75
250	9.10	8.94	9.02
MEAN	8.94	8.82	8.88

PESTCIDE	NONE	ALD+PIR	MEAN
N TIME			
EARLY	8.92	8.64	8.78
LATE	8.97	9.00	8.99
MEAN	8.94	8.82	8.88

PESTCIDE	NONE	ALD+PIR	MEAN
GROWREG			
NONE	8.99	8.81	8.90
CHLORMEQ	8.90	8.83	8.86
MEAN	8.94	8.82	8.88

PESTCIDE	NONE	ALD+PIR	MEAN
SPR FUNG			
NONE	8.81	8.70	8.75
TRIDEMOR	9.08	8.94	9.01
MEAN	8.94	8.82	8.88

PESTCIDE	NONE	ALD+PIR	MEAN
SUM FUNG			
NONE	8.64	8.47	8.56
PROPICON	9.24	9.17	9.20
MEAN	8.94	8.82	8.88

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GRAIN TONNES/HECTARE

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

SOWDATE	15 SEPT		26 OCT	
TOTAL N	180	250	180	250
PREVCROP				
BARLEY	7.46	7.77	8.05	8.48
OATS	9.97	10.10	9.50	9.73

SOWDATE	15 SEPT		26 OCT	
N TIME	EARLY	LATE	EARLY	LATE
PREVCROP				
BARLEY	7.33	7.90	8.30	8.22
OATS	9.88	10.19	9.60	9.63

TOTAL N	180		250	
N TIME	EARLY	LATE	EARLY	LATE
PREVCROP				
BARLEY	7.70	7.80	7.93	8.32
OATS	9.65	9.83	9.83	9.99

TOTAL N	180		250	
N TIME	EARLY	LATE	EARLY	LATE
SOWDATE				
15 SEPT	8.54	8.89	8.67	9.20
26 OCT	8.81	8.74	9.09	9.11

SOWDATE	15 SEPT		26 OCT	
GROWREG	NONE	CHLORMEQ	NONE	CHLORMEQ
PREVCROP				
BARLEY	7.57	7.66	8.39	8.13
OATS	9.98	10.08	9.66	9.57

TOTAL N	180		250	
GROWREG	NONE	CHLORMEQ	NONE	CHLORMEQ
PREVCROP				
BARLEY	7.79	7.71	8.17	8.08
OATS	9.74	9.74	9.91	9.92

TOTAL N	180		250	
GROWREG	NONE	CHLORMEQ	NONE	CHLORMEQ
SOWDATE				
15 SEPT	8.63	8.80	8.92	8.95
26 OCT	8.89	8.66	9.16	9.04

N TIME	EARLY		LATE	
GROWREG	NONE	CHLORMEQ	NONE	CHLORMEQ
PREVCROP				
BARLEY	7.87	7.77	8.09	8.03
OATS	9.75	9.73	9.89	9.93

N TIME	EARLY		LATE	
GROWREG	NONE	CHLORMEQ	NONE	CHLORMEQ
SOWDATE				
15 SEPT	8.51	8.70	9.05	9.05
26 OCT	9.11	8.79	8.94	8.91

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GRAIN TONNES/HECTARE

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

N TIME	EARLY		LATE	
GROWREG	NONE	CHLORMEQ	NONE	CHLORMEQ
TOTAL N				
180	8.69	8.66	8.84	8.79
250	8.93	8.83	9.15	9.16

SOWDATE	15 SEPT		26 OCT	
SPR FUNG	NONE	TRIDEMOR	NONE	TRIDEMOR
PREVCROP				
BARLEY	7.32	7.91	8.15	8.37
OATS	10.03	10.04	9.51	9.72

TOTAL N	180		250	
SPR FUNG	NONE	TRIDEMOR	NONE	TRIDEMOR
PREVCROP				
BARLEY	7.68	7.82	7.79	8.46
OATS	9.69	9.79	9.85	9.97

TOTAL N	180		250	
SPR FUNG	NONE	TRIDEMOR	NONE	TRIDEMOR
SOWDATE				
15 SEPT	8.58	8.85	8.78	9.09
26 OCT	8.80	8.75	8.87	9.34

N TIME	EARLY		LATE	
SPR FUNG	NONE	TRIDEMOR	NONE	TRIDEMOR
PREVCROP				
BARLEY	7.49	8.14	7.98	8.14
OATS	9.74	9.73	9.80	10.02

N TIME	EARLY		LATE	
SPR FUNG	NONE	TRIDEMOR	NONE	TRIDEMOR
SOWDATE				
15 SEPT	8.34	8.87	9.01	9.08
26 OCT	8.90	9.01	8.77	9.08

N TIME	EARLY		LATE	
SPR FUNG	NONE	TRIDEMOR	NONE	TRIDEMOR
TOTAL N				
180	8.64	8.71	8.73	8.90
250	8.59	9.17	9.05	9.26

GROWREG	NONE		CHLORMEQ	
SPR FUNG	NONE	TRIDEMOR	NONE	TRIDEMOR
PREVCROP				
BARLEY	7.90	8.06	7.57	8.22
OATS	9.75	9.89	9.79	9.87

GROWREG	NONE		CHLORMEQ	
SPR FUNG	NONE	TRIDEMOR	NONE	TRIDEMOR
SOWDATE				
15 SEPT	8.77	8.78	8.58	9.16
26 OCT	8.89	9.17	8.78	8.92

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GRAIN TONNES/HECTARE

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

GROWREG	NONE		CHLORMEQ	
SPR FUNG	NONE	TRIDEMOR	NONE	TRIDEMOR
TOTAL N				
180	8.83	8.70	8.54	8.91
250	8.82	9.25	8.82	9.18

GROWREG	NONE		CHLORMEQ	
SPR FUNG	NONE	TRIDEMOR	NONE	TRIDEMOR
N TIME				
EARLY	8.69	8.92	8.54	8.95
LATE	8.96	9.03	8.82	9.14

SOWDATE	15 SEPT		26 OCT	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
PREVCROP				
BARLEY	7.31	7.93	7.97	8.56
OATS	9.83	10.24	9.13	10.09

TOTAL N	180		250	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
PREVCROP				
BARLEY	7.60	7.90	7.67	8.58
OATS	9.50	9.98	9.46	10.36

TOTAL N	180		250	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
SOWDATE				
15 SEPT	8.64	8.79	8.49	9.38
26 OCT	8.46	9.09	8.64	9.56

N TIME	EARLY		LATE	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
PREVCROP				
BARLEY	7.45	8.18	7.82	8.30
OATS	9.46	10.02	9.50	10.32

N TIME	EARLY		LATE	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
SOWDATE				
15 SEPT	8.30	8.90	8.83	9.27
26 OCT	8.60	9.30	8.50	9.35

N TIME	EARLY		LATE	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
TOTAL N				
180	8.36	8.99	8.74	8.89
250	8.55	9.21	8.59	9.72

GROWREG	NONE		CHLORMEQ	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
PREVCROP				
BARLEY	7.76	8.20	7.51	8.28
OATS	9.54	10.11	9.42	10.23

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GRAIN TONNES/HECTARE

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

GROWREG	NONE		CHLORMEQ	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
SOWDATE				
15 SEPT	8.62	8.93	8.51	9.24
26 OCT	8.68	9.37	8.42	9.28

GROWREG	NONE		CHLORMEQ	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
TOTAL N				
180	8.67	8.85	8.43	9.03
250	8.63	9.45	8.51	9.49

GROWREG	NONE		CHLORMEQ	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
N TIME				
EARLY	8.55	9.07	8.36	9.13
LATE	8.75	9.23	8.57	9.38

SPR FUNG	NONE		TRIDEMOR	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
PREVCROP				
BARLEY	7.22	8.25	8.05	8.23
OATS	9.50	10.05	9.46	10.29

SPR FUNG	NONE		TRIDEMOR	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
SOWDATE				
15 SEPT	8.40	8.95	8.73	9.21
26 OCT	8.32	9.34	8.78	9.31

SPR FUNG	NONE		TRIDEMOR	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
TOTAL N				
180	8.33	9.05	8.77	8.83
250	8.39	9.25	8.74	9.69

SPR FUNG	NONE		TRIDEMOR	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
N TIME				
EARLY	8.24	8.99	8.67	9.21
LATE	8.48	9.30	8.85	9.31

SPR FUNG	NONE		TRIDEMOR	
SUM FUNG	NONE	PROPICON	NONE	PROPICON
GROWREG				
NONE	8.60	9.05	8.70	9.25
CHLORMEQ	8.12	9.24	8.82	9.27

SOWDATE	15 SEPT		26 OCT	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
PREVCROP				
BARLEY	7.83	7.40	8.34	8.18
OATS	9.97	10.10	9.62	9.61

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83/R/WW/3

GRAIN TONNES/HECTARE

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

TOTAL N	180		250	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
PREVCROP				
BARLEY	7.84	7.67	8.34	7.91
OATS	9.74	9.73	9.85	9.97

TOTAL N	180		250	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
SOWDATE				
15 SEPT	8.78	8.65	9.02	8.85
26 OCT	8.79	8.76	9.17	9.03

N TIME	EARLY		LATE	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
PREVCROP				
BARLEY	8.12	7.52	8.06	8.06
OATS	9.72	9.76	9.88	9.95

N TIME	EARLY		LATE	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
SOWDATE				
15 SEPT	8.81	8.39	8.99	9.10
26 OCT	9.02	8.88	8.94	8.90

N TIME	EARLY		LATE	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
TOTAL N				
180	8.93	8.42	8.65	8.98
250	8.90	8.86	9.29	9.02

GROWREG	NONE		CHLORMEQ	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
PREVCROP				
BARLEY	8.23	7.73	7.94	7.85
OATS	9.74	9.90	9.85	9.81

GROWREG	NONE		CHLORMEQ	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
SOWDATE				
15 SEPT	8.97	8.58	8.83	8.91
26 OCT	9.01	9.05	8.96	8.74

GROWREG	NONE		CHLORMEQ	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
TOTAL N				
180	8.76	8.77	8.82	8.64
250	9.22	8.86	8.98	9.02

GROWREG	NONE		CHLORMEQ	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
N TIME				
EARLY	9.04	8.58	8.79	8.70
LATE	8.93	9.05	9.00	8.95

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GRAIN TONNES/HECTARE

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

SPR FUNG	NONE		TRIDEMOR	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
PREVCROP				
BARLEY	7.90	7.57	8.28	8.00
OATS	9.72	9.83	9.88	9.88

SPR FUNG	NONE		TRIDEMOR	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
SOWDATE				
15 SEPT	8.69	8.66	9.11	8.84
26 OCT	8.93	8.74	9.04	9.05

SPR FUNG	NONE		TRIDEMOR	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
TOTAL N				
180	8.71	8.67	8.87	8.74
250	8.91	8.73	9.28	9.15

SPR FUNG	NONE		TRIDEMOR	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
N TIME				
EARLY	8.71	8.53	9.13	8.75
LATE	8.91	8.87	9.02	9.14

SPR FUNG	NONE		TRIDEMOR	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
GROWREG				
NONE	8.89	8.77	9.09	8.86
CHLORMEQ	8.73	8.63	9.06	9.02

SUM FUNG	NONE		PROPICON	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
PREVCROP				
BARLEY	7.83	7.44	8.34	8.14
OATS	9.45	9.51	10.14	10.19

SUM FUNG	NONE		PROPICON	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
SOWDATE				
15 SEPT	8.81	8.32	8.99	9.18
26 OCT	8.47	8.63	9.49	9.16

SUM FUNG	NONE		PROPICON	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
TOTAL N				
180	8.65	8.45	8.93	8.95
250	8.64	8.50	9.56	9.38

SUM FUNG	NONE		PROPICON	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
N TIME				
EARLY	8.62	8.29	9.22	8.98
LATE	8.67	8.66	9.27	9.35

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GRAIN TONNES/HECTARE

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

SUM FUNG	NONE		PROPICON	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
GROWREG				
NONE	8.76	8.55	9.22	9.08
CHLORMEQ	8.53	8.40	9.26	9.25

SUM FUNG	NONE		PROPICON	
PESTCIDE	NONE	ALD+PIR	NONE	ALD+PIR
SPR FUNG				
NONE	8.51	8.21	9.11	9.19
TRIDEMOR	8.78	8.74	9.38	9.14

SOWDATEX	15 SEPT	26 OCT	MEAN
PREVCROPX			
BARLEY	6.54	6.46	6.50
OATS	8.64	8.32	8.48
MEAN	7.59	7.39	7.49

TOTAL NX	0	145	215	285	MEAN
PREVCROPX					
BARLEY	2.26	8.28	7.53	7.94	6.50
OATS	3.89	9.35	10.08	10.59	8.48
MEAN	3.08	8.81	8.80	9.27	7.49

TOTAL NX	0	145	215	285	MEAN
SOWDATEX					
15 SEPT	3.17	8.45	9.20	9.53	7.59
26 OCT	2.99	9.17	8.40	9.01	7.39
MEAN	3.08	8.81	8.80	9.27	7.49

SOWDATEI	15 SEPT	26 OCT	MEAN
PRECROPI			
BARLEY	6.97	8.68	7.83
OATS	10.21	9.22	9.71
MEAN	8.59	8.95	8.77

TOTAL NI	180	250	MEAN
PRECROPI			
BARLEY	7.89	7.76	7.83
OATS	9.37	10.06	9.71
MEAN	8.63	8.91	8.77

TOTAL NI	180	250	MEAN
SOWDATEI			
15 SEPT	8.35	8.83	8.59
26 OCT	8.91	8.99	8.95
MEAN	8.63	8.91	8.77

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GRAIN TONNES/HECTARE

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

N TIMEI	EARLY	LATE	MEAN
PRECROPI			
BARLEY	7.80	7.85	7.83
OATS	9.64	9.79	9.71
MEAN	8.72	8.82	8.77

N TIMEI	EARLY	LATE	MEAN
SOWDATEI			
15 SEPT	8.65	8.53	8.59
26 OCT	8.79	9.12	8.95
MEAN	8.72	8.82	8.77

N TIMEI	EARLY	LATE	MEAN
TOTAL NI			
180	8.60	8.66	8.63
250	8.83	8.98	8.91
MEAN	8.72	8.82	8.77

AUT NI	NONE	AUT N	MEAN
PRECROPI			
BARLEY	7.95	7.70	7.83
OATS	9.65	9.78	9.71
MEAN	8.80	8.74	8.77

AUT NI	NONE	AUT N	MEAN
SOWDATEI			
15 SEPT	8.42	8.76	8.59
26 OCT	9.18	8.73	8.95
MEAN	8.80	8.74	8.77

AUT NI	NONE	AUT N	MEAN
TOTAL NI			
180	8.59	8.68	8.63
250	9.01	8.80	8.91
MEAN	8.80	8.74	8.77

AUT NI	NONE	AUT N	MEAN
N TIMEI			
EARLY	8.79	8.64	8.72
LATE	8.80	8.84	8.82
MEAN	8.80	8.74	8.77

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GRAIN TONNES/HECTARE

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

SE GREGX	9.93
SL GREGX	10.15
SE FAL	7.49
SL FAL	10.39
SE NONE B	1.57
SE NONE F	7.33
SL NONE F	6.15
MEAN	8.37
GRAND MEAN	8.59

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

SED APPLY TO MAIN FACTORIAL PLOTS ONLY

MARGINS OF TWO FACTOR TABLES	0.090*
TWO FACTOR TABLES	0.189**
THREE FACTOR TABLES	0.267**

* NOT INCLUDING PREVCROP
** WITHIN SAME LEVEL OF PREVCROP ONLY

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

STRATUM	DF	SE	CV%
BLOCK.WP.SP	33	0.756	8.5

GRAIN MEAN DM% 86.8

PLOT AREA HARVESTED 0.00209

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