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Yields of the Field Experiments 1987

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87/R/B/1 Factors Limiting Yield - W. Barley

Rothamsted Research

Rothamsted Research (1988) *87/R/B/1 Factors Limiting Yield - W. Barley ;* Yields Of The Field Experiments 1987, pp 167 - 182 **- DOI: https://doi.org/10.23637/ERADOC-1-37**

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87/R/B/1

WINTER BARLEY

FACTORS LIMITING YIELD

Object: To study the effects of a range of factors on the quality and yield of winter barley - Summerdells II.

Sponsors: J.F. Jenkyn, R.J.Gutteridge, R.T. Plumb, D.G. Christian, R.J. Darby, S.H.T. Harper, L.A. Mullen, N. Carter, G.J.S. Ross.

Associate sponsors: B.R. Kerry, W.Day.

Design: A single replicate of 2 x 2 x 2 x 2 x 2 x 2 + 24 extra plots.

Whole plot dimensions: 3.0 x 15.2.

Treatments: All combinations of the following, all sown early (18 Sept, 1986) and given cypermethrin at 0.025 kg in 220 l on 31 Oct:

1. PREVCROP	Previous cropping:
BARLEY	W. wheat 1984, s. barley 1985, w. barley 1986
OATS	W. wheat 1984, s. barley 1985, w. oats ploughed out and resown to s. oats 1986
2. WINTER N	Nitrogen fertilizer in winter (kg N) as prilled urea (46% N):
0	None
26+25	26 on 17 Nov, 1986, 25 on 16 Feb, 1987
3. SPRING N	Nitrogen fertilizer in spring (kg N) as 'Nitro-Chalk':
105	
155	
4. N TIME	Timing of spring nitrogen application:
16 MARCH	16 March, 1987
13 APRIL	13 April
5. E FUNG	Early fungicides:
NONE	None
TFSD	Triadimenol and fuberidazole seed dressing
6. L FUNG	Late fungicides:
NONE	None
SPRAYS	Prochloraz at 0.40 kg, carbendazim at 0.15 kg and tridemorph at 0.52 kg in 220 l on 15 Apr, 1987. Propiconazole at 0.12 kg and tridemorph at 0.22 kg in 220 l on 27 May

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plus all combinations of the following all after barley and given late fungicides and 105 kg N in spring, not given cypermethrin in the autumn:

1. SOWDATEV

18 SEPT	18 September, 1986
17 OCT	17 October

2. WINTR NV — Nitrogen fertilizer in winter (kg N) as prilled urea (46 %N):

0	None
26+25	26 on 17 Nov, 1986, 25 on 16 Feb, 1987

3. E FUNGV — Early fungicides:

NONE	None
TFSD	Triadimenol and fuberidazole seed dressing

4. N TIMEV — Timing of spring nitrogen application:

16 MARCH	16 March, 1987
13 APRIL	13 April

plus 2 extra treatments following fallow, sown 18 September and given early and late fungicides, cypermethrin, 105 kg spring nitrogen but not given winter nitrogen:

N TIMEF — Timing of spring nitrogen application:

16 MARCH	16 March, 1987 (duplicated)
13 APRIL	13 April (duplicated)

plus 1 extra treatment following barley, sown 18 September given early and late fungicides, cypermethrin, 155 kg spring nitrogen in April:

WINTER NX — Extra winter nitrogen (kg N):

51+25	51 kg on 17 Nov, 1986, 25 kg on 16 Feb, 1987 (duplicated)

plus 1 extra treatment following barley, sown 18 September, and given early and late fungicides, cypermethrin but no nitrogen:

EXTRA NO

0+0+0	No nitrogen (duplicated)

Basal applications: Weedkillers: Paraquat at 0.60 kg ion in 200 l on two occasions. Isoproturon at 2.5 kg, clopyralid at 0.07 kg, bromoxynil at 0.34 kg and mecoprop at 2.5 kg in 200 l. Glyphosate at 1.4 kg in 220 l. Growth regulators: Mepiquat chloride at 0.61 kg and 2-chloroethylphosphonic acid at 0.31 kg with a wetting agent ('Cittowet' at 0.08 l) in 200 l.

Seed: Magie, sown at 300 seeds per square metre.

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Cultivations, etc.:- Paraquat applied: 12 Aug, 1986. Heavy spring-tine cultivated, cultivated by rotary grubber: 18 Aug. Paraquat applied: 10 Sept. SOWDATE 18 SEPT plots spring-tine cultivated, rotary harrowed and seed sown: 18 Sept. SOWDATE 17 OCT plots rotary harrowed and seed sown: 17 Oct. Isoproturon, clopyralid, bromoxynil and mecoprop applied: 16 Apr, 1987. Growth regulators with wetting agent applied: 27 Apr. Glyphosate applied: 30 July. Combine harvested: 6 Aug. Previous crops: S. barley 1985, w. barley, s oats, fallow 1986.

NOTES: (1) Soil samples were taken to measure nitrate and ammonium contents in September, 1986, November and February, 1987. Crop samples were taken to measure nitrate N concentrations from November to April.
(2) Plants were sampled in March, April and June, to measure plant and shoot numbers, dry weights and nitrogen uptakes. After harvest thousand grain weights were measured.
(3) Leaf diseases, take-all, eyespot, barley yellow dwarf virus and aphid incidence were assessed.
(4) A cage was erected over the crop from early June to maturity to prevent damage by birds.

GRAIN TONNES/HECTARE

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

WINTER N	0	26+25	Mean
PREVCROP			
BARLEY	4.83	5.63	5.23
OATS	6.33	7.07	6.70
Mean	5.58	6.35	5.96

E FUNG	NONE	TFSD	Mean
PREVCROP			
BARLEY	5.21	5.25	5.23
OATS	6.74	6.66	6.70
Mean	5.97	5.95	5.96

E FUNG	NONE	TFSD	Mean
WINTER N			
0	5.58	5.58	5.58
26+25	6.36	6.33	6.35
Mean	5.97	5.95	5.96

L FUNG	NONE	SPRAYS	Mean
PREVCROP			
BARLEY	4.89	5.57	5.23
OATS	6.21	7.18	6.70
Mean	5.55	6.38	5.96

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GRAIN TONNES/HECTARE

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

L FUNG	NONE	SPRAYS	Mean
WINTER N			
0	5.18	5.98	5.58
26+25	5.92	6.77	6.35
Mean	5.55	6.38	5.96

L FUNG	NONE	SPRAYS	Mean
E FUNG			
NONE	5.56	6.39	5.97
TFSD	5.55	6.36	5.95
Mean	5.55	6.38	5.96

SPRING N	105	155	Mean
PREVCROP			
BARLEY	5.07	5.39	5.23
OATS	6.47	6.93	6.70
Mean	5.77	6.16	5.96

SPRING N	105	155	Mean
WINTER N			
0	5.30	5.86	5.58
26+25	6.23	6.46	6.35
Mean	5.77	6.16	5.96

SPRING N	105	155	Mean
E FUNG			
NONE	5.81	6.14	5.97
TFSD	5.73	6.18	5.95
Mean	5.77	6.16	5.96

SPRING N	105	155	Mean
L FUNG			
NONE	5.43	5.67	5.55
SPRAYS	6.10	6.65	6.38
Mean	5.77	6.16	5.96

N TIME	16 MARCH	13 APRIL	Mean
PREVCROP			
BARLEY	5.81	4.65	5.23
OATS	6.97	6.43	6.70
Mean	6.39	5.54	5.96

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GRAIN TONNES/HECTARE

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

N TIME WINTER N	16 MARCH	13 APRIL	Mean
0	6.16	5.00	5.58
26+25	6.61	6.08	6.35
Mean	6.39	5.54	5.96

N TIME E FUNG	16 MARCH	13 APRIL	Mean
NONE	6.38	5.57	5.97
TFSD	6.40	5.51	5.95
Mean	6.39	5.54	5.96

N TIME L FUNG	16 MARCH	13 APRIL	Mean
NONE	5.97	5.14	5.55
SPRAYS	6.81	5.95	6.38
Mean	6.39	5.54	5.96

N TIME SPRING N	16 MARCH	13 APRIL	Mean
105	6.18	5.36	5.77
155	6.60	5.73	6.16
Mean	6.39	5.54	5.96

PREVCROP	E FUNG WINTER N	NONE	TFSD
BARLEY	0	4.80	4.86
	26+25	5.61	5.65
OATS	0	6.36	6.29
	26+25	7.12	7.02

PREVCROP	L FUNG WINTER N	NONE	SPRAYS
BARLEY	0	4.48	5.18
	26+25	5.30	5.95
OATS	0	5.89	6.77
	26+25	6.54	7.60

PREVCROP	L FUNG E FUNG	NONE	SPRAYS
BARLEY	NONE	4.90	5.51
	TFSD	4.88	5.62
OATS	NONE	6.22	7.27
	TFSD	6.21	7.10

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GRAIN TONNES/HECTARE

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

	L FUNG	NONE	SPRAYS
WINTER N	E FUNG		
0	NONE	5.19	5.98
	TFSD	5.18	5.97
26+25	NONE	5.93	6.80
	TFSD	5.91	6.75

	SPRING N	105	155
PREVCROP	WINTER N		
BARLEY	0	4.57	5.10
	26+25	5.57	5.69
OATS	0	6.04	6.62
	26+25	6.90	7.24

	SPRING N	105	155
PREVCROP	E FUNG		
BARLEY	NONE	5.10	5.31
	TFSD	5.03	5.47
OATS	NONE	6.52	6.96
	TFSD	6.42	6.89

	SPRING N	105	155
WINTER N	E FUNG		
0	NONE	5.35	5.81
	TFSD	5.25	5.90
26+25	NONE	6.27	6.46
	TFSD	6.20	6.46

	SPRING N	105	155
PREVCROP	L FUNG		
BARLEY	NONE	4.80	4.98
	SPRAYS	5.33	5.81
OATS	NONE	6.06	6.37
	SPRAYS	6.88	7.49

	SPRING N	105	155
WINTER N	L FUNG		
0	NONE	5.03	5.34
	SPRAYS	5.57	6.38
26+25	NONE	5.83	6.01
	SPRAYS	6.63	6.92

	SPRING N	105	155
E FUNG	L FUNG		
NONE	NONE	5.46	5.65
	SPRAYS	6.15	6.62
TFSD	NONE	5.40	5.69
	SPRAYS	6.05	6.67

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GRAIN TONNES/HECTARE

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

	N TIME	16 MARCH	13 APRIL
PREVCROP	WINTER N		
BARLEY	0	5.53	4.13
	26+25	6.08	5.17
OATS	0	6.79	5.87
	26+25	7.15	6.99

	N TIME	16 MARCH	13 APRIL
PREVCROP	E FUNG		
BARLEY	NONE	5.74	4.68
	TFSD	5.88	4.63
OATS	NONE	7.02	6.47
	TFSD	6.92	6.39

	N TIME	16 MARCH	13 APRIL
WINTER N	E FUNG		
0	NONE	6.14	5.02
	TFSD	6.18	4.97
26+25	NONE	6.61	6.12
	TFSD	6.62	6.05

	N TIME	16 MARCH	13 APRIL
PREVCROP	L FUNG		
BARLEY	NONE	5.43	4.36
	SPRAYS	6.19	4.95
OATS	NONE	6.51	5.91
	SPRAYS	7.42	6.94

	N TIME	16 MARCH	13 APRIL
WINTER N	L FUNG		
0	NONE	5.79	4.58
	SPRAYS	6.53	5.42
26+25	NONE	6.15	5.70
	SPRAYS	7.08	6.47

	N TIME	16 MARCH	13 APRIL
E FUNG	L FUNG		
NONE	NONE	5.98	5.14
	SPRAYS	6.78	6.00
TFSD	NONE	5.97	5.13
	SPRAYS	6.83	5.89

	N TIME	16 MARCH	13 APRIL
PREVCROP	SPRING N		
BARLEY	105	5.64	4.50
	155	5.98	4.81
OATS	105	6.73	6.21
	155	7.21	6.64

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GRAIN TONNES/HECTARE

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

WINTER N	N TIME SPRING N	16 MARCH	13 APRIL
0	105	5.85	4.75
	155	6.47	5.24
26+25	105	6.51	5.96
	155	6.72	6.21

E FUNG	N TIME SPRING N	16 MARCH	13 APRIL
NONE	105	6.24	5.38
	155	6.52	5.76
TFSD	105	6.13	5.33
	155	6.67	5.69

L FUNG	N TIME SPRING N	16 MARCH	13 APRIL
NONE	105	5.85	5.02
	155	6.09	5.25
SPRAYS	105	6.51	5.69
	155	7.10	6.20

WINTR NV SOWDATEV	0	26+25	Mean
18 SEPT	4.70	5.90	5.30
17 OCT	5.25	5.60	5.42
Mean	4.97	5.75	5.36

N TIMEV SOWDATEV	16 MARCH	14 APRIL	Mean
18 SEPT	5.90	4.70	5.30
17 OCT	5.85	4.99	5.42
Mean	5.88	4.85	5.36

N TIMEV WINTR NV	16 MARCH	14 APRIL	Mean
0	5.63	4.31	4.97
26+25	6.12	5.38	5.75
Mean	5.88	4.85	5.36

E FUNGV SOWDATEV	NONE	TFSD	Mean
18 SEPT	5.35	5.24	5.30
17 OCT	5.38	5.47	5.42
Mean	5.37	5.36	5.36

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GRAIN TONNES/HECTARE

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

E FUNGV WINTR NV	NONE	TFSD	Mean
0	4.88	5.06	4.97
26+25	5.85	5.65	5.75
Mean	5.37	5.36	5.36

E FUNGV N TIMEV	NONE	TFSD	Mean
16 MARCH	5.88	5.88	5.88
14 APRIL	4.86	4.83	4.85
Mean	5.37	5.36	5.36

SOWDATEV	N TIMEV WINTR NV	16 MARCH	14 APRIL
18 SEPT	0	5.34	4.05
	26+25	6.46	5.34
17 OCT	0	5.92	4.58
	26+25	5.79	5.41

SOWDATEV	E FUNGV WINTR NV	NONE	TFSD
18 SEPT	0	4.42	4.97
	26+25	6.29	5.51
17 OCT	0	5.34	5.16
	26+25	5.42	5.78

SOWDATEV	E FUNGV N TIMEV	NONE	TFSD
18 SEPT	16 MARCH	5.99	5.81
	14 APRIL	4.72	4.67
17 OCT	16 MARCH	5.77	5.94
	14 APRIL	4.99	5.00

WINTR NV	E FUNGV N TIMEV	NONE	TFSD
0	16 MARCH	5.55	5.71
	14 APRIL	4.21	4.42
26+25	16 MARCH	6.20	6.04
	14 APRIL	5.50	5.25

SOWDATEV	WINTR NV	E FUNGV N TIMEV	NONE	TFSD
18 SEPT	0	16 MARCH	4.91	5.77
		14 APRIL	3.93	4.17
	26+25	16 MARCH	7.06	5.86
		14 APRIL	5.51	5.17
17 OCT	0	16 MARCH	6.19	5.65
		14 APRIL	4.49	4.66
	26+25	16 MARCH	5.34	6.23
		14 APRIL	5.49	5.33

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GRAIN TONNES/HECTARE

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

N TIMEF	16 MARCH	14 APRIL	Mean
	7.34	6.79	7.06
WINTR NX	51+25		
	6.36		
EXTRA NO	0+0+0		
	2.45		

Grand mean 5.83

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

(not including extra plots)

Margin of two factor tables	0.101
Two factor tables	0.143
Three factor tables	0.202

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

Stratum	d.f.	s.e.	cv%
WP	22	0.404	6.8

GRAIN MEAN DM% 85.3

STRAW TONNES/HECTARE

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

WINTER N	0	26+25	Mean
PREVCROP			
BARLEY	2.36	2.73	2.55
OATS	2.72	2.91	2.81
Mean	2.54	2.82	2.68
E FUNG	NONE	TFSD	Mean
PREVCROP			
BARLEY	2.55	2.55	2.55
OATS	2.83	2.79	2.81
Mean	2.69	2.67	2.68
E FUNG	NONE	TFSD	Mean
WINTER N			
0	2.56	2.52	2.54
26+25	2.83	2.81	2.82
Mean	2.69	2.67	2.68

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STRAW TONNES/HECTARE

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

L FUNG	NONE	SPRAYS	Mean
PREVCROP			
BARLEY	2.31	2.79	2.55
OATS	2.41	3.21	2.81
Mean	2.36	3.00	2.68

L FUNG	NONE	SPRAYS	Mean
WINTER N			
0	2.26	2.82	2.54
26+25	2.46	3.18	2.82
Mean	2.36	3.00	2.68

L FUNG	NONE	SPRAYS	Mean
E FUNG			
NONE	2.36	3.03	2.69
TFSD	2.37	2.97	2.67
Mean	2.36	3.00	2.68

SPRING N	105	155	Mean
PREVCROP			
BARLEY	2.48	2.62	2.55
OATS	2.77	2.85	2.81
Mean	2.63	2.73	2.68

SPRING N	105	155	Mean
WINTER N			
0	2.43	2.65	2.54
26+25	2.82	2.81	2.82
Mean	2.63	2.73	2.68

SPRING N	105	155	Mean
E FUNG			
NONE	2.67	2.71	2.69
TFSD	2.58	2.75	2.67
Mean	2.63	2.73	2.68

SPRING N	105	155	Mean
L FUNG			
NONE	2.34	2.38	2.36
SPRAYS	2.91	3.08	3.00
Mean	2.63	2.73	2.68

N TIME	16 MARCH	13 APRIL	Mean
PREVCROP			
BARLEY	2.62	2.48	2.55
OATS	2.75	2.87	2.81
Mean	2.68	2.68	2.68

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STRAW TONNES/HECTARE

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

N TIME WINTER N	16 MARCH	13 APRIL	Mean
0	2.61	2.47	2.54
26+25	2.75	2.88	2.82
Mean	2.68	2.68	2.68

N TIME E FUNG	16 MARCH	13 APRIL	Mean
NONE	2.69	2.69	2.69
TFSD	2.67	2.66	2.67
Mean	2.68	2.68	2.68

N TIME L FUNG	16 MARCH	13 APRIL	Mean
NONE	2.34	2.39	2.36
SPRAYS	3.03	2.97	3.00
Mean	2.68	2.68	2.68

N TIME SPRING N	16 MARCH	13 APRIL	Mean
105	2.68	2.57	2.63
155	2.68	2.78	2.73
Mean	2.68	2.68	2.68

PREVCROP	E FUNG WINTER N	NONE	TFSD
BARLEY	0	2.33	2.40
	26+25	2.77	2.69
OATS	0	2.78	2.65
	26+25	2.88	2.93

PREVCROP	L FUNG WINTER N	NONE	SPRAYS
BARLEY	0	2.14	2.59
	26+25	2.49	2.98
OATS	0	2.39	3.05
	26+25	2.44	3.37

PREVCROP	L FUNG E FUNG	NONE	SPRAYS
BARLEY	NONE	2.27	2.83
	TFSD	2.35	2.74
OATS	NONE	2.44	3.23
	TFSD	2.38	3.19

WINTER N	L FUNG E FUNG	NONE	SPRAYS
0	NONE	2.25	2.86
	TFSD	2.27	2.78
26+25	NONE	2.46	3.20
	TFSD	2.46	3.15

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STRAW TONNES/HECTARE

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

	SPRING N	105	155
PREVCROP	WINTER N		
BARLEY	0	2.21	2.52
	26+25	2.75	2.72
OATS	0	2.64	2.79
	26+25	2.90	2.91

	SPRING N	105	155
PREVCROP	E FUNG		
BARLEY	NONE	2.49	2.61
	TFSD	2.47	2.62
OATS	NONE	2.86	2.81
	TFSD	2.69	2.88

	SPRING N	105	155
WINTER N	E FUNG		
0	NONE	2.44	2.67
	TFSD	2.42	2.63
26+25	NONE	2.91	2.75
	TFSD	2.74	2.88

	SPRING N	105	155
PREVCROP	L FUNG		
BARLEY	NONE	2.27	2.35
	SPRAYS	2.69	2.88
OATS	NONE	2.41	2.41
	SPRAYS	3.13	3.29

	SPRING N	105	155
WINTER N	L FUNG		
0	NONE	2.16	2.36
	SPRAYS	2.69	2.94
26+25	NONE	2.52	2.40
	SPRAYS	3.13	3.23

	SPRING N	105	155
E FUNG	L FUNG		
NONE	NONE	2.36	2.35
	SPRAYS	2.98	3.07
TFSD	NONE	2.32	2.41
	SPRAYS	2.84	3.10

	N TIME	16 MARCH	13 APRIL
PREVCROP	WINTER N		
BARLEY	0	2.48	2.25
	26+25	2.76	2.71
OATS	0	2.74	2.69
	26+25	2.75	3.06

	N TIME	16 MARCH	13 APRIL
PREVCROP	E FUNG		
BARLEY	NONE	2.63	2.48
	TFSD	2.61	2.48
OATS	NONE	2.75	2.91
	TFSD	2.74	2.83

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STRAW TONNES/HECTARE

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

	N TIME	16 MARCH	13 APRIL
WINTER N	E FUNG		
0	NONE	2.60	2.51
	TFSD	2.62	2.42
26+25	NONE	2.78	2.88
	TFSD	2.73	2.89

	N TIME	16 MARCH	13 APRIL
PREVCROP	L FUNG		
BARLEY	NONE	2.38	2.24
	SPRAYS	2.85	2.72
OATS	NONE	2.29	2.54
	SPRAYS	3.21	3.21

	N TIME	16 MARCH	13 APRIL
WINTER N	L FUNG		
0	NONE	2.34	2.19
	SPRAYS	2.89	2.75
26+25	NONE	2.34	2.59
	SPRAYS	3.17	3.18

	N TIME	16 MARCH	13 APRIL
E FUNG	L FUNG		
NONE	NONE	2.31	2.40
	SPRAYS	3.07	2.99
TFSD	NONE	2.36	2.37
	SPRAYS	2.99	2.94

	N TIME	16 MARCH	13 APRIL
PREVCROP	SPRING N		
BARLEY	105	2.59	2.37
	155	2.65	2.59
OATS	105	2.78	2.76
	155	2.71	2.98

	N TIME	16 MARCH	13 APRIL
WINTER N	SPRING N		
0	105	2.54	2.32
	155	2.69	2.62
26+25	105	2.83	2.82
	155	2.68	2.95

	N TIME	16 MARCH	13 APRIL
E FUNG	SPRING N		
NONE	105	2.80	2.54
	155	2.58	2.85
TFSD	105	2.56	2.60
	155	2.79	2.72

	N TIME	16 MARCH	13 APRIL
L FUNG	SPRING N		
NONE	105	2.44	2.25
	155	2.23	2.53
SPRAYS	105	2.93	2.89
	155	3.13	3.04

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STRAW TONNES/HECTARE

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

WINTR NV	0	26+25	Mean
SOWDATEV			
18 SEPT	2.45	2.95	2.70
17 OCT	3.15	3.29	3.22
Mean	2.80	3.12	2.96

N TIMEV	16 MARCH	14 APRIL	Mean
SOWDATEV			
18 SEPT	2.99	2.41	2.70
17 OCT	3.45	2.99	3.22
Mean	3.22	2.70	2.96

N TIMEV	16 MARCH	14 APRIL	Mean
WINTR NV			
0	3.13	2.47	2.80
26+25	3.31	2.94	3.12
Mean	3.22	2.70	2.96

E FUNGV	NONE	TFSD	Mean
SOWDATEV			
18 SEPT	2.81	2.59	2.70
17 OCT	3.11	3.34	3.22
Mean	2.96	2.96	2.96

E FUNGV	NONE	TFSD	Mean
WINTR NV			
0	2.71	2.89	2.80
26+25	3.21	3.04	3.12
Mean	2.96	2.96	2.96

E FUNGV	NONE	TFSD	Mean
N TIMEV			
16 MARCH	3.29	3.14	3.22
14 APRIL	2.62	2.79	2.70
Mean	2.96	2.96	2.96

	N TIMEV	16 MARCH	14 APRIL
SOWDATEV	WINTR NV		
18 SEPT	0	2.79	2.10
	26+25	3.18	2.73
17 OCT	0	3.46	2.84
	26+25	3.44	3.15

	E FUNGV	NONE	TFSD
SOWDATEV	WINTR NV		
18 SEPT	0	2.36	2.53
	26+25	3.25	2.66
17 OCT	0	3.05	3.25
	26+25	3.16	3.43

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STRAW TONNES/HECTARE

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

SOWDATEV	E FUNGV N TIMEV	NONE	TFSD
18 SEPT	16 MARCH	3.21	2.76
	14 APRIL	2.40	2.43
17 OCT	16 MARCH	3.37	3.53
	14 APRIL	2.84	3.14

WINTR NV	E FUNGV N TIMEV	NONE	TFSD
0	16 MARCH	3.10	3.15
	14 APRIL	2.31	2.63
26+25	16 MARCH	3.48	3.14
	14 APRIL	2.93	2.95

SOWDATEV	WINTR NV	E FUNGV N TIMEV	NONE	TFSD
18 SEPT	0	16 MARCH	2.83	2.75
		14 APRIL	1.89	2.31
	26+25	16 MARCH	3.60	2.76
		14 APRIL	2.91	2.55
17 OCT	0	16 MARCH	3.37	3.55
		14 APRIL	2.74	2.94
	26+25	16 MARCH	3.37	3.51
		14 APRIL	2.95	3.34

N TIMEF	16 MARCH	14 APRIL	Mean
	3.37	3.28	3.32

WINTR NX	51+25
	3.45

EXTRA NO	0+0+0
	0.84

Grand mean 2.74

STRAW MEAN DM% 88.0

PLOT AREA HARVESTED 0.00245

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