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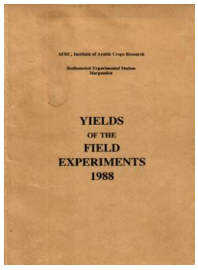
Yields of the Field Experiments 1988

Full Table of Content



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

Rothamsted Research

Rothamsted Research (1989) *88/R/B/1 Factors Limiting Yield - W. Barley ;* Yields Of The Field Experiments 1988, pp 168 - 184 **- DOI: https://doi.org/10.23637/ERADOC-1-43**

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88/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 - Great Harpenden 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, G.F.J. Milford, Dr. E.D. Baxter (Brewing Research Foundation).

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 (25 Sept, 1987) and given cypermethrin at 0.025 kg in 220 l on 3 Nov:

1.	**PREVCROP**	Previous cropping:
	BARLEY	S. beans 1985, w. wheat 1986, w. barley 1987
	OATS	S. beans 1985, w. wheat 1986, w. oats 1987
2.	**WINTER N**	Nitrogen fertilizer in winter (kg N) as urea (46% N):
	0	None
	NOV+FEB	On 17 Nov, 1987 33 to BARLEY, 54 to OATS, on 18 Feb, 1988 25 to BARLEY and OATS
3.	**SPRING N**	Nitrogen fertilizer in spring (kg N) as 'Nitro-Chalk':
	125	
	200	
4.	**N TIME**	Timing of spring nitrogen application:
	14 MAR	14 March, 1988
	13 APR	13 April
5.	**E FUNG**	Early fungicides:
	NONE	None
	TFSD	Triadimenol and fuberidazole seed dressing
6.	**L FUNG**	Late fungicides:
	NONE	None
	SPRAYS	Foliar sprays of prochloraz at 0.40 kg, carbendazim at 0.15 kg and tridemorph at 0.52 kg in 220 l on 12 Apr, 1988. 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 125 kg N in spring, not given cypermethrin in the autumn:

1. **SOWDATEV**

25 SEPT	25 September, 1987
26 OCT	26 October

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

0	None
33+25	33 on 17 Nov, 1987, 25 on 18 Feb, 1988

3. **E FUNGV** Early fungicides:

NONE	None
TFSD	Triadimenol and fuberidazole seed dressing

4. **N TIMEV** Timing of spring nitrogen application:

14 MAR	14 March, 1988
13 APR	13 April

plus 2 extra treatments following fallow, sown 25 September and given early and late fungicides, cypermethrin, 125 kg spring nitrogen but not given winter nitrogen:

N TIMEF Timing of spring nitrogen application:

14 MAR	14 March, 1988 (duplicated)
13 APR	13 April (duplicated)

plus 1 extra treatment following barley, sown 25 September given early and late fungicides, cypermethrin, 200 kg spring nitrogen in April:

WINTER NX Extra winter nitrogen (kg N):

58+25	58 kg on 17 Nov, 1987, 25 kg on 18 Feb, 1988 (duplicated)

plus 1 extra treatment following barley, sown 25 September, and given early and late fungicides, cypermethrin but no nitrogen:

EXTRA NO

0+0+0	No nitrogen (duplicated)

Basal applications: Weedkillers: Glyphosate at 0.27 kg in 200 l. Chlortoluron at 3.5 kg in 200 l. Diclofop-methyl at 0.95 kg in 200 l. Fluroxypyr at 0.20 kg with clopyralid at 0.07 kg and bromoxynil at 0.34 kg in 200 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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88/R/B/1

Cultivations, etc.:- Rotary cultivated (fallow and barley plots only): 19 Aug, 1987. Glyphosate applied: 18 Sept. Cultivated by rotary grubber: 23 Sept. Early-sown plots rotary harrowed, seed sown: 25 Sept. Later-sown plots rotary harrowed, seed sown: 26 Oct. Chlortoluron applied: 6 Nov. Diclofop-methyl applied: 18 Nov. Remaining weedkillers applied: 25 Apr, 1988. Growth regulators with wetting agent applied: 26 Apr. Combine harvested: 4 Aug. Previous crops: W. wheat 1986, w. barley, w. oats, fallow 1987.

NOTES: (1) Soil was sampled to measure nitrate and ammonium contents in October, 1987, November and February, 1988. Crop samples were taken to measure nitrate N concentrations from November to July.
(2) Plants were sampled in March, April, June and July 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	NOV+FEB	Mean
PREVCROP			
BARLEY	5.38	5.73	5.56
OATS	6.08	6.56	6.32
Mean	5.73	6.15	5.94

SPRING N	125	200	Mean
PREVCROP			
BARLEY	5.26	5.86	5.56
OATS	6.19	6.45	6.32
Mean	5.72	6.15	5.94

SPRING N	125	200	Mean
WINTER N			
0	5.55	5.91	5.73
NOV+FEB	5.90	6.40	6.15
Mean	5.72	6.15	5.94

N TIME	14 MAR	13 APR	Mean
PREVCROP			
BARLEY	5.68	5.43	5.56
OATS	6.25	6.39	6.32
Mean	5.96	5.91	5.94

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88/R/B/1

GRAIN TONNES/HECTARE

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

N TIME	14 MAR	13 APR	Mean
WINTER N			
0	5.85	5.61	5.73
NOV+FEB	6.08	6.21	6.15
Mean	5.96	5.91	5.94

N TIME	14 MAR	13 APR	Mean
SPRING N			
125	5.74	5.70	5.72
200	6.19	6.12	6.15
Mean	5.96	5.91	5.94

E FUNG	NONE	TFSD	Mean
PREVCROP			
BARLEY	5.60	5.51	5.56
OATS	6.18	6.46	6.32
Mean	5.89	5.98	5.94

E FUNG	NONE	TFSD	Mean
WINTER N			
0	5.70	5.76	5.73
NOV+FEB	6.09	6.20	6.15
Mean	5.89	5.98	5.94

E FUNG	NONE	TFSD	Mean
SPRING N			
125	5.69	5.75	5.72
200	6.10	6.21	6.15
Mean	5.89	5.98	5.94

E FUNG	NONE	TFSD	Mean
N TIME			
14 MAR	5.80	6.13	5.96
13 APR	5.99	5.83	5.91
Mean	5.89	5.98	5.94

L FUNG	NONE	SPRAYS	Mean
PREVCROP			
BARLEY	5.27	5.84	5.56
OATS	5.85	6.79	6.32
Mean	5.56	6.31	5.94

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88/R/B/1

GRAIN TONNES/HECTARE

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

L FUNG	NONE	SPRAYS	Mean
WINTER N			
0	5.37	6.08	5.73
NOV+FEB	5.75	6.54	6.15
Mean	5.56	6.31	5.94

L FUNG	NONE	SPRAYS	Mean
SPRING N			
125	5.52	5.92	5.72
200	5.60	6.71	6.15
Mean	5.56	6.31	5.94

L FUNG	NONE	SPRAYS	Mean
N TIME			
14 MAR	5.43	6.50	5.96
13 APR	5.69	6.13	5.91
Mean	5.56	6.31	5.94

L FUNG	NONE	SPRAYS	Mean
E FUNG			
NONE	5.51	6.28	5.89
TFSD	5.61	6.35	5.98
Mean	5.56	6.31	5.94

	SPRING N	125	200
PREVCROP	**WINTER N**		
BARLEY	0	5.15	5.61
	NOV+FEB	5.36	6.10
OATS	0	5.94	6.21
	NOV+FEB	6.43	6.69

	N TIME	14 MAR	13 APR
PREVCROP	**WINTER N**		
BARLEY	0	5.61	5.15
	NOV+FEB	5.75	5.71
OATS	0	6.09	6.06
	NOV+FEB	6.41	6.71

	N TIME	14 MAR	13 APR
PREVCROP	**SPRING N**		
BARLEY	125	5.37	5.14
	200	5.98	5.73
OATS	125	6.11	6.26
	200	6.39	6.51

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88/R/B/1

GRAIN TONNES/HECTARE

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

	N TIME	14 MAR	13 APR
WINTER N	SPRING N		
0	125	5.71	5.38
	200	5.99	5.83
NOV+FEB	125	5.78	6.02
	200	6.38	6.41

	E FUNG	NONE	TFSD
PREVCROP	WINTER N		
BARLEY	0	5.41	5.35
	NOV+FEB	5.79	5.67
OATS	0	5.98	6.17
	NOV+FEB	6.39	6.74

	E FUNG	NONE	TFSD
PREVCROP	SPRING N		
BARLEY	125	5.38	5.13
	200	5.83	5.88
OATS	125	6.01	6.37
	200	6.36	6.54

	E FUNG	NONE	TFSD
WINTER N	SPRING N		
0	125	5.55	5.54
	200	5.84	5.98
NOV+FEB	125	5.83	5.97
	200	6.36	6.44

	E FUNG	NONE	TFSD
PREVCROP	N TIME		
BARLEY	14 MAR	5.53	5.83
	13 APR	5.68	5.18
OATS	14 MAR	6.07	6.43
	13 APR	6.30	6.48

	E FUNG	NONE	TFSD
WINTER N	N TIME		
0	14 MAR	5.66	6.04
	13 APR	5.73	5.49
NOV+FEB	14 MAR	5.93	6.23
	13 APR	6.25	6.18

	E FUNG	NONE	TFSD
SPRING N	N TIME		
125	14 MAR	5.56	5.93
	13 APR	5.83	5.58
200	14 MAR	6.04	6.33
	13 APR	6.16	6.09

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88/R/B/1

GRAIN TONNES/HECTARE

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

PREVCROP	L FUNG WINTER N	NONE	SPRAYS
BARLEY	0	5.15	5.61
	NOV+FEB	5.39	6.08
OATS	0	5.60	6.56
	NOV+FEB	6.11	7.01

PREVCROP	L FUNG SPRING N	NONE	SPRAYS
BARLEY	125	5.21	5.30
	200	5.32	6.39
OATS	125	5.82	6.55
	200	5.88	7.02

WINTER N	L FUNG SPRING N	NONE	SPRAYS
0	125	5.41	5.68
	200	5.33	6.49
NOV+FEB	125	5.63	6.17
	200	5.87	6.92

PREVCROP	L FUNG N TIME	NONE	SPRAYS
BARLEY	14 MAR	5.23	6.13
	13 APR	5.31	5.56
OATS	14 MAR	5.63	6.87
	13 APR	6.08	6.70

WINTER N	L FUNG N TIME	NONE	SPRAYS
0	14 MAR	5.24	6.46
	13 APR	5.51	5.71
NOV+FEB	14 MAR	5.62	6.54
	13 APR	5.88	6.55

SPRING N	L FUNG N TIME	NONE	SPRAYS
125	14 MAR	5.47	6.02
	13 APR	5.57	5.83
200	14 MAR	5.39	6.99
	13 APR	5.82	6.42

PREVCROP	L FUNG E FUNG	NONE	SPRAYS
BARLEY	NONE	5.36	5.85
	TFSD	5.17	5.84
OATS	NONE	5.66	6.71
	TFSD	6.05	6.86

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88/R/B/1

GRAIN TONNES/HECTARE

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

WINTER N	L FUNG / E FUNG	NONE	SPRAYS
0	NONE	5.29	6.11
	TFSD	5.46	6.06
NOV+FEB	NONE	5.74	6.45
	TFSD	5.76	6.64

SPRING N	L FUNG / E FUNG	NONE	SPRAYS
125	NONE	5.55	5.83
	TFSD	5.48	6.02
200	NONE	5.47	6.72
	TFSD	5.73	6.69

N TIME	L FUNG / E FUNG	NONE	SPRAYS
14 MAR	NONE	5.24	6.36
	TFSD	5.61	6.65
13 APR	NONE	5.78	6.20
	TFSD	5.60	6.06

WINTR NV / SOWDATEV	0	33+25	Mean
25 SEPT	5.82	6.16	5.99
26 OCT	5.28	5.89	5.59
Mean	5.55	6.03	5.79

E FUNGV / SOWDATEV	NONE	TFSD	Mean
25 SEPT	5.92	6.06	5.99
26 OCT	5.58	5.59	5.59
Mean	5.75	5.83	5.79

E FUNGV / WINTR NV	NONE	TFSD	Mean
0	5.67	5.43	5.55
33+25	5.83	6.23	6.03
Mean	5.75	5.83	5.79

N TIMEV / SOWDATEV	14 MAR	13 APR	Mean
25 SEPT	6.34	5.65	5.99
26 OCT	5.57	5.60	5.59
Mean	5.96	5.62	5.79

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88/R/B/1

GRAIN TONNES/HECTARE

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

N TIMEV WINTR NV	14 MAR	13 APR	Mean
0	5.64	5.46	5.55
33+25	6.27	5.79	6.03
Mean	5.96	5.62	5.79

N TIMEV E FUNGV	14 MAR	13 APR	Mean
NONE	6.07	5.43	5.75
TFSD	5.84	5.82	5.83
Mean	5.96	5.62	5.79

SOWDATEV	E FUNGV WINTR NV	NONE	TFSD
25 SEPT	0	5.81	5.84
	33+25	6.03	6.29
26 OCT	0	5.54	5.02
	33+25	5.62	6.16

SOWDATEV	N TIMEV WINTR NV	14 MAR	13 APR
25 SEPT	0	6.20	5.44
	33+25	6.48	5.85
26 OCT	0	5.09	5.48
	33+25	6.06	5.72

SOWDATEV	N TIMEV E FUNGV	14 MAR	13 APR
25 SEPT	NONE	6.35	5.48
	TFSD	6.32	5.81
26 OCT	NONE	5.78	5.38
	TFSD	5.36	5.82

WINTR NV	N TIMEV E FUNGV	14 MAR	13 APR
0	NONE	5.96	5.39
	TFSD	5.33	5.53
33+25	NONE	6.18	5.47
	TFSD	6.35	6.10

SOWDATEV	WINTR NV	N TIMEV E FUNGV	14 MAR	13 APR
25 SEPT	0	NONE	6.05	5.56
		TFSD	6.34	5.33
	33+25	NONE	6.66	5.41
		TFSD	6.29	6.29
26 OCT	0	NONE	5.86	5.23
		TFSD	4.32	5.73
	33+25	NONE	5.71	5.54
		TFSD	6.41	5.91

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88/R/B/1

GRAIN TONNES/HECTARE

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

N TIMEF	14 MAR	13 APR	Mean
	6.04	6.32	6.18

WINTER NX	58+25
	6.00

EXTRA NO	0+0+0
	1.68

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

(not including extra plots)

Margin of two factor tables	0.123
Two factor tables	0.174
Three factor tables	0.246

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

Stratum	d.f.	s.e.	cv%
WP	22	0.492	8.3

GRAIN MEAN DM% 80.9

STRAW TONNES/HECTARE

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

WINTER N	0	NOV+FEB	Mean
PREVCROP			
BARLEY	3.01	3.29	3.15
OATS	3.89	4.07	3.98
Mean	3.45	3.68	3.57

SPRING N	125	200	Mean
PREVCROP			
BARLEY	3.04	3.26	3.15
OATS	3.85	4.11	3.98
Mean	3.45	3.68	3.57

SPRING N	125	200	Mean
WINTER N			
0	3.35	3.56	3.45
NOV+FEB	3.55	3.81	3.68
Mean	3.45	3.68	3.57

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88/R/B/1

STRAW TONNES/HECTARE

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

N TIME	14 MAR	13 APR	Mean
PREVCROP			
BARLEY	3.21	3.09	3.15
OATS	3.86	4.09	3.98
Mean	3.54	3.59	3.57

N TIME	14 MAR	13 APR	Mean
WINTER N			
0	3.41	3.49	3.45
NOV+FEB	3.67	3.69	3.68
Mean	3.54	3.59	3.57

N TIME	14 MAR	13 APR	Mean
SPRING N			
125	3.37	3.52	3.45
200	3.71	3.66	3.68
Mean	3.54	3.59	3.57

E FUNG	NONE	TFSD	Mean
PREVCROP			
BARLEY	3.17	3.13	3.15
OATS	3.90	4.06	3.98
Mean	3.54	3.59	3.57

E FUNG	NONE	TFSD	Mean
WINTER N			
0	3.40	3.50	3.45
NOV+FEB	3.67	3.69	3.68
Mean	3.54	3.59	3.57

E FUNG	NONE	TFSD	Mean
SPRING N			
125	3.44	3.45	3.45
200	3.63	3.74	3.68
Mean	3.54	3.59	3.57

E FUNG	NONE	TFSD	Mean
N TIME			
14 MAR	3.60	3.47	3.54
13 APR	3.47	3.72	3.59
Mean	3.54	3.59	3.57

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88/R/B/1

STRAW TONNES/HECTARE

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

L FUNG	NONE	SPRAYS	Mean
PREVCROP			
BARLEY	2.86	3.44	3.15
OATS	3.73	4.23	3.98
Mean	3.29	3.84	3.57

L FUNG	NONE	SPRAYS	Mean
WINTER N			
0	3.21	3.70	3.45
NOV+FEB	3.38	3.97	3.68
Mean	3.29	3.84	3.57

L FUNG	NONE	SPRAYS	Mean
SPRING N			
125	3.23	3.67	3.45
200	3.36	4.01	3.68
Mean	3.29	3.84	3.57

L FUNG	NONE	SPRAYS	Mean
N TIME			
14 MAR	3.14	3.94	3.54
13 APR	3.45	3.73	3.59
Mean	3.29	3.84	3.57

L FUNG	NONE	SPRAYS	Mean
E FUNG			
NONE	3.27	3.81	3.54
TFSD	3.32	3.87	3.59
Mean	3.29	3.84	3.57

	SPRING N	125	200
PREVCROP	**WINTER N**		
BARLEY	0	2.92	3.11
	NOV+FEB	3.17	3.41
OATS	0	3.77	4.01
	NOV+FEB	3.92	4.21

	N TIME	14 MAR	13 APR
PREVCROP	**WINTER N**		
BARLEY	0	3.00	3.03
	NOV+FEB	3.43	3.15
OATS	0	3.82	3.96
	NOV+FEB	3.91	4.23

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88/R/B/1

STRAW TONNES/HECTARE

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

PREVCROP	N TIME SPRING N	14 MAR	13 APR
BARLEY	125	3.04	3.05
	200	3.39	3.13
OATS	125	3.70	4.00
	200	4.03	4.19

WINTER N	N TIME SPRING N	14 MAR	13 APR
0	125	3.16	3.53
	200	3.66	3.46
NOV+FEB	125	3.57	3.52
	200	3.76	3.86

PREVCROP	E FUNG WINTER N	NONE	TFSD
BARLEY	0	2.90	3.13
	NOV+FEB	3.45	3.13
OATS	0	3.91	3.87
	NOV+FEB	3.89	4.25

PREVCROP	E FUNG SPRING N	NONE	TFSD
BARLEY	125	3.11	2.98
	200	3.24	3.28
OATS	125	3.78	3.91
	200	4.01	4.21

WINTER N	E FUNG SPRING N	NONE	TFSD
0	125	3.23	3.46
	200	3.58	3.54
NOV+FEB	125	3.66	3.43
	200	3.68	3.94

PREVCROP	E FUNG N TIME	NONE	TFSD
BARLEY	14 MAR	3.29	3.13
	13 APR	3.05	3.12
OATS	14 MAR	3.92	3.81
	13 APR	3.88	4.31

WINTER N	E FUNG N TIME	NONE	TFSD
0	14 MAR	3.42	3.39
	13 APR	3.38	3.61
NOV+FEB	14 MAR	3.78	3.55
	13 APR	3.55	3.83

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88/R/B/1

STRAW TONNES/HECTARE

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

	E FUNG	NONE	TFSD
SPRING N	N TIME		
125	14 MAR	3.45	3.28
	13 APR	3.44	3.61
200	14 MAR	3.76	3.66
	13 APR	3.50	3.82

	L FUNG	NONE	SPRAYS
PREVCROP	WINTER N		
BARLEY	0	2.78	3.25
	NOV+FEB	2.94	3.64
OATS	0	3.63	4.15
	NOV+FEB	3.83	4.31

	L FUNG	NONE	SPRAYS
PREVCROP	SPRING N		
BARLEY	125	2.79	3.30
	200	2.93	3.59
OATS	125	3.66	4.04
	200	3.80	4.42

	L FUNG	NONE	SPRAYS
WINTER N	SPRING N		
0	125	3.11	3.58
	200	3.30	3.82
NOV+FEB	125	3.34	3.75
	200	3.43	4.19

	L FUNG	NONE	SPRAYS
PREVCROP	N TIME		
BARLEY	14 MAR	2.83	3.60
	13 APR	2.89	3.29
OATS	14 MAR	3.45	4.28
	13 APR	4.01	4.18

	L FUNG	NONE	SPRAYS
WINTER N	N TIME		
0	14 MAR	2.99	3.83
	13 APR	3.42	3.57
NOV+FEB	14 MAR	3.28	4.05
	13 APR	3.48	3.89

	L FUNG	NONE	SPRAYS
SPRING N	N TIME		
125	14 MAR	3.16	3.57
	13 APR	3.29	3.76
200	14 MAR	3.12	4.31
	13 APR	3.61	3.71

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88/R/B/1

STRAW TONNES/HECTARE

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

PREVCROP	L FUNG E FUNG	NONE	SPRAYS
BARLEY	NONE	2.88	3.46
	TFSD	2.84	3.42
OATS	NONE	3.65	4.15
	TFSD	3.81	4.31

WINTER N	L FUNG E FUNG	NONE	SPRAYS
0	NONE	3.18	3.63
	TFSD	3.23	3.76
NOV+FEB	NONE	3.35	3.98
	TFSD	3.41	3.97

SPRING N	L FUNG E FUNG	NONE	SPRAYS
125	NONE	3.27	3.62
	TFSD	3.18	3.71
200	NONE	3.26	3.99
	TFSD	3.46	4.02

N TIME	L FUNG E FUNG	NONE	SPRAYS
14 MAR	NONE	3.15	4.06
	TFSD	3.12	3.82
13 APR	NONE	3.38	3.56
	TFSD	3.53	3.91

WINTR NV SOWDATEV	0	33+25	Mean
25 SEPT	3.39	3.61	3.50
26 OCT	3.70	3.90	3.80
Mean	3.54	3.75	3.65

E FUNGV SOWDATEV	NONE	TFSD	Mean
25 SEPT	3.34	3.66	3.50
26 OCT	3.50	4.10	3.80
Mean	3.42	3.88	3.65

E FUNGV WINTR NV	NONE	TFSD	Mean
0	3.32	3.77	3.54
33+25	3.52	3.99	3.75
Mean	3.42	3.88	3.65

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88/R/B/1

STRAW TONNES/HECTARE

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

N TIMEV SOWDATEV	14 MAR	13 APR	Mean
25 SEPT	3.83	3.17	3.50
26 OCT	3.84	3.76	3.80
Mean	3.83	3.47	3.65

N TIMEV WINTR NV	14 MAR	13 APR	Mean
0	3.58	3.51	3.54
33+25	4.08	3.43	3.75
Mean	3.83	3.47	3.65

N TIMEV E FUNGV	14 MAR	13 APR	Mean
NONE	3.68	3.16	3.42
TFSD	3.98	3.77	3.88
Mean	3.83	3.47	3.65

SOWDATEV	E FUNGV WINTR NV	NONE	TFSD
25 SEPT	0	3.29	3.50
	33+25	3.39	3.82
26 OCT	0	3.35	4.04
	33+25	3.65	4.15

SOWDATEV	N TIMEV WINTR NV	14 MAR	13 APR
25 SEPT	0	3.59	3.19
	33+25	4.06	3.15
26 OCT	0	3.58	3.82
	33+25	4.10	3.70

SOWDATEV	N TIMEV E FUNGV	14 MAR	13 APR
25 SEPT	NONE	3.69	2.98
	TFSD	3.96	3.36
26 OCT	NONE	3.67	3.33
	TFSD	4.01	4.18

WINTR NV	N TIMEV E FUNGV	14 MAR	13 APR
0	NONE	3.41	3.22
	TFSD	3.76	3.79
33+25	NONE	3.95	3.09
	TFSD	4.21	3.76

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88/R/B/1

STRAW TONNES/HECTARE

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

SOWDATEV	WINTR NV	N TIMEV E FUNGV	14 MAR	13 APR
25 SEPT	0	NONE	3.33	3.24
		TFSD	3.85	3.15
	33+25	NONE	4.05	2.73
		TFSD	4.07	3.57
26 OCT	0	NONE	3.49	3.21
		TFSD	3.67	4.42
	33+25	NONE	3.85	3.46
		TFSD	4.35	3.95

N TIMEF	14 MAR	13 APR	Mean
	3.30	3.85	3.58

WINTER NX	58+25
	3.76

EXTRA NO	0+0+0
	0.76

STRAW MEAN DM% 86.9

PLOT AREA HARVESTED 0.00210

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