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Yields of the Field Experiments 1988

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

Rothamsted Research

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88/R/B/1

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)
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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)
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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.

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 PREVCROP	0	NOV+FEB	Mean
BARLEY	5.38	5.73	5.56
OATS	6.08	6.56	6.32
Mean	5.73	6.15	5.94
SPRING N PREVCROP	125	200	Mean
BARLEY	5.26	5.86	5.56
OATS	6.19	6.45	6.32
Mean	5.72	6.15	5.94
SPRING N WINTER N	125	200	Mean
0	5.55	5.91	5.73
NOV+FEB	5.90	6.40	6.15
Mean	5.72	6.15	5.94
N TIME PREVCROP	14 MAR	13 APR	Mean
BARLEY	5.68	5.43	5.56
OATS	6.25	6.39	6.32
Mean	5.96	5.91	5.94

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

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

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

88/R/B/1

GRAIN TONNES/HECTARE

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

	L FUNG	NONE	SPRAYS
PREVCROP	WINTER N		
BARLEY	0	5.15	5.61
	NOV+FEB	5.39	6.08
OATS	0	5.60	6.56
	NOV+FEB	6.11	7.01
	L FUNG	NONE	SPRAYS
PREVCROP	SPRING N		
BARLEY	125	5.21	5.30
	200	5.32	6.39
OATS	125	5.82	6.55
	200	5.88	7.02
	L FUNG	NONE	SPRAYS
WINTER N	SPRING N		
0	125	5.41	5.68
	200	5.33	6.49
NOV+FEB	125	5.63	6.17
	200	5.87	6.92
	L FUNG	NONE	SPRAYS
PREVCROP	N TIME		
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
	L FUNG	NONE	SPRAYS
WINTER N	N TIME		
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
	L FUNG	NONE	SPRAYS
SPRING N	N TIME		
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
	L FUNG	NONE	SPRAYS
PREVCROP	E FUNG		
BARLEY	NONE	5.36	5.85
	TFSD	5.17	5.84
OATS	NONE	5.66	6.71
	TFSD	6.05	6.86

88/R/B/1

GRAIN TONNES/HECTARE

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

	L FUNG	NONE	SPRAYS
WINTER N	E FUNG		
0	NONE	5.29	6.11
	TFSD	5.46	6.06
NOV+FEB	NONE	5.74	6.45
	TFSD	5.76	6.64
	L FUNG	NONE	SPRAYS
SPRING N	E FUNG		
125	NONE	5.55	5.83
	TFSD	5.48	6.02
200	NONE	5.47	6.72
	TFSD	5.73	6.69
	L FUNG	NONE	SPRAYS
N TIME	E FUNG		
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	0	33+25	Mean
SOWDATEV			
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	NONE	TFSD	Mean
SOWDATEV			
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	NONE	TFSD	Mean
WINTR NV			
0	5.67	5.43	5.55
33+25	5.83	6.23	6.03
Mean	5.75	5.83	5.79
N TIMEV	14 MAR	13 APR	Mean
SOWDATEV			
25 SEPT	6.34	5.65	5.99
26 OCT	5.57	5.60	5.59
Mean	5.96	5.62	5.79

88/R/B/1

GRAIN TONNES/HECTARE

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

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

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

SOWDATEV	E FUNGV	NONE	TFSD
	WINTR NV		
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	14 MAR	13 APR
	WINTR NV		
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	14 MAR	13 APR
	E FUNGV		
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	14 MAR	13 APR
	E FUNGV		
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	14 MAR	13 APR
		E FUNGV		
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

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

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

88/R/B/1

STRAW TONNES/HECTARE

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

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

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

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

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

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

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

88/R/B/1

STRAW TONNES/HECTARE

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

	N TIME	14 MAR	13 APR
PREVCROP	SPRING N		
BARLEY	125	3.04	3.05
	200	3.39	3.13
OATS	125	3.70	4.00
	200	4.03	4.19
	N TIME	14 MAR	13 APR
WINTER N	SPRING N		
0	125	3.16	3.53
	200	3.66	3.46
NOV+FEB	125	3.57	3.52
	200	3.76	3.86
	E FUNG	NONE	TFSD
PREVCROP	WINTER N		
BARLEY	0	2.90	3.13
	NOV+FEB	3.45	3.13
OATS	0	3.91	3.87
	NOV+FEB	3.89	4.25
	E FUNG	NONE	TFSD
PREVCROP	SPRING N		
BARLEY	125	3.11	2.98
	200	3.24	3.28
OATS	125	3.78	3.91
	200	4.01	4.21
	E FUNG	NONE	TFSD
WINTER N	SPRING N		
0	125	3.23	3.46
	200	3.58	3.54
NOV+FEB	125	3.66	3.43
	200	3.68	3.94
	E FUNG	NONE	TFSD
PREVCROP	N TIME		
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
	E FUNG	NONE	TFSD
WINTER N	N TIME		
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

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

88/R/B/1

STRAW TONNES/HECTARE

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

	L FUNG	NONE	SPRAYS
PREVCROP	E FUNG		
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	NONE	SPRAYS
0	E FUNG		
	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	NONE	SPRAYS
125	E FUNG		
	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	NONE	SPRAYS
14 MAR	E FUNG		
	NONE	3.15	4.06
	TFSD	3.12	3.82
13 APR	NONE	3.38	3.56
	TFSD	3.53	3.91
WINTR NV	0	33+25	Mean
SOWDATEV			
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	NONE	TFSD	Mean
SOWDATEV			
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	NONE	TFSD	Mean
WINTR NV			
0	3.32	3.77	3.54
33+25	3.52	3.99	3.75
Mean	3.42	3.88	3.65

88/R/B/1

STRAW TONNES/HECTARE

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

N TIMEV	14 MAR	13 APR	Mean
SOWDATEV			
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	14 MAR	13 APR	Mean
WINTR NV			
0	3.58	3.51	3.54
33+25	4.08	3.43	3.75
Mean	3.83	3.47	3.65
N TIMEV	14 MAR	13 APR	Mean
E FUNGV			
NONE	3.68	3.16	3.42
TFSD	3.98	3.77	3.88
Mean	3.83	3.47	3.65
SOWDATEV	E FUNGV	NONE	TFSD
25 SEPT	WINTR NV		
	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	14 MAR	13 APR
25 SEPT	WINTR NV		
	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	14 MAR	13 APR
25 SEPT	E FUNGV		
	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	14 MAR	13 APR
0	E FUNGV		
	NONE	3.41	3.22
	TFSD	3.76	3.79
33+25	NONE	3.95	3.09
	TFSD	4.21	3.76

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			