

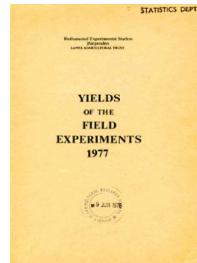
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Yields of the Field Experiments 1977

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77/S/C/1 Varieties, N and Ccc - Barley

Rothamsted Research

Rothamsted Research (1978) 77/S/C/1 *Varieties, N and Ccc - Barley* ; Yields Of The Field Experiments 1977, pp 302 - 311 - DOI: <https://doi.org/10.23637/ERADOC-1-29>

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VARIETIES, N AND CCC

Object: To study the effects of varieties, fungicides, and rates and times of applying nitrogen fertiliser on the incidence of foliar diseases and on yield of barley - Saxmundham, Oldershaw's and Garner's plots.

Sponsors: F.V. Widdowson, A.E. Johnston

The 12th year, barley.

For previous years see 66/C/30(t), 67/C/23(t), 68/C/39, 69-70/S/CS/1, 71/S/CS/1(t), 72/S/CS/1(t) and 73-76/S/CS/1.

Design: A single replicate of 2^6 in 4 blocks of 4 plots each split into half and quarter plots, plus one additional plot per block similarly split. Treatments to wheat 1966-1976 have been ignored.

Whole plot dimensions: 5.49 x 40.2.

Treatments: All combinations of:-

Whole plots

1. VARIETY Varieties:-

JULIA
WING

2. MILDFUNG Fungicides to control mildew:

NONE None
ETH+TRI Ethirimol seed dressing + tridemorph foliar spray

Half plots

3. S N RATE Rates of solid nitrogen fertiliser (kg N):

50
100

4. S N TIME Times of applying solid nitrogen fertiliser:

SEEDBED Seedbed on 7 Apr, 1977
TOPDRESS Top dressed on 19 May

Quarter plots

5. L N RATE Rates of liquid nitrogen fertiliser (kg N):

0
50 (half 15 June, half 6 July)

6. RUSTFUNG Fungicide to control rust:

NONE None
BENODANI Benodanil foliar spray

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XTRA WMR Plus one additional whole plot per block sown to variety Wing, seed dressed ethirimol, given foliar sprays of tridemorph and benodanil and testing all combinations of:

Half plots

1. S N Rates of solid nitrogen fertiliser (kg N):

25+25 25 to seedbed + 25 top dressed
50+50 50 to seedbed + 50 top dressed

Quarter plots

2. L N Rates of liquid nitrogen fertiliser (kg N):

0 None
25+25 25 on 15 June + 25 on 6 July

NOTES: (1) Tridemorph at 0.53 kg applied with the weedkillers on 25 May.
(2) Benodanil applied at 1.12 kg in 340 l on 15 June and 6 July.

Basal applications: Manures: P₂O₅ at 50 kg with K₂O at 50 kg applied as (0:20:20).

Weedkillers: Ioxynil at 0.42 kg with mecoprop at 1.3 kg applied in 340 l.

Seed: Sown at 190 kg.

Cultivations, etc.: Ploughed: 23 Nov, 1976. Seed sown, PK applied: 6 Apr, 1977.
Weedkillers applied: 25 May. Combine harvested: 8 Sept.

	25+25	50+50	0	25+25
15 June	25	50	0	25
6 July	25	50	0	25
Total	50	100	0	50
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	0
SE	0	0	0	0
CV%	0	0	0	0
Min	25	50	0	25
Max	25	50	0	25
Range	0	0	0	0
Mean	25	50	0	25
SD	0	0	0	

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GRAIN TONNES/HECTARE

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

MILDFUNG VARIETY	NONE	ETH+TRI	MEAN
JULIA	4.34	4.56	4.45
WING	4.35	4.62	4.48
MEAN	4.34	4.59	4.46
S N RATE VARIETY	50	100	MEAN
JULIA	4.02	4.87	4.45
WING	4.13	4.83	4.48
MEAN	4.08	4.85	4.46
S N RATE MILDFUNG	50	100	MEAN
NONE	4.06	4.62	4.34
ETH+TRI	4.09	5.08	4.59
MEAN	4.08	4.85	4.46
S N TIME VARIETY	SEEDBED	TOPDRESS	MEAN
JULIA	4.86	4.03	4.45
WING	4.80	4.16	4.48
MEAN	4.83	4.09	4.46
S N TIME MILDFUNG	SEEDBED	TOPDRESS	MEAN
NONE	4.80	3.89	4.34
ETH+TRI	4.87	4.30	4.59
MEAN	4.83	4.09	4.46
S N TIME S N RATE	SEEDBED	TOPDRESS	MEAN
50	4.26	3.89	4.08
100	5.40	4.30	4.85
MEAN	4.83	4.09	4.46
L N RATE VARIETY	0	50	MEAN
JULIA	4.38	4.52	4.45
WING	4.42	4.54	4.48
MEAN	4.40	4.53	4.46
L N RATE MILDFUNG	0	50	MEAN
NONE	4.28	4.40	4.34
ETH+TRI	4.52	4.65	4.59
MEAN	4.40	4.53	4.46

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GRAIN TONNES/HECTARE

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

L N RATE S N RATE	0	50	MEAN	
50	3.92	4.23	4.08	
100	4.88	4.83	4.85	
MEAN	4.40	4.53	4.46	
L N RATE S N TIME	0	50	MEAN	
SEEDBED	4.72	4.95	4.83	
TOPDRESS	4.08	4.11	4.09	
MEAN	4.40	4.53	4.46	
RUSTFUNG VARIETY	NONE	BENODANI	MEAN	
JULIA	4.36	4.53	4.45	
WING	4.34	4.62	4.48	
MEAN	4.35	4.58	4.46	
RUSTFUNG MILDFUNG	NONE	BENODANI	MEAN	
NONE	4.26	4.42	4.34	
ETH+TRI	4.44	4.73	4.59	
MEAN	4.35	4.58	4.46	
RUSTFUNG S N RATE	NONE	BENODANI	MEAN	
50	3.99	4.16	4.08	
100	4.71	4.99	4.85	
MEAN	4.35	4.58	4.46	
RUSTFUNG S N TIME	NONE	BENODANI	MEAN	
SEEDBED	4.75	4.92	4.83	
TOPDRESS	3.95	4.24	4.09	
MEAN	4.35	4.58	4.46	
RUSTFUNG L N RATE	NONE	BENODANI	MEAN	
0	4.31	4.49	4.40	
50	4.39	4.67	4.53	
MEAN	4.35	4.58	4.46	
MILDFUNG S N RATE	NONE	ETH+TRI		
VARIETY	50	100	50	100
JULIA	4.02	4.66	4.02	5.09
WING	4.11	4.59	4.15	5.08

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GRAIN TONNES/HECTARE

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

MILDFUNG S N TIME VARIETY	NONE		ETH+TRI	
	SEEDBED	TOPDRESS	SEEDBED	TOPDRESS
JULIA	4.92	3.75	4.80	4.31
WING	4.67	4.02	4.93	4.30
S N RATE S N TIME VARIETY	50		100	
	SEEDBED	TOPDRESS	SEEDBED	TOPDRESS
JULIA	4.20	3.84	5.53	4.22
WING	4.33	3.93	5.28	4.39
S N RATE S N TIME MILDFUNG	50		100	
	SEEDBED	TOPDRESS	SEEDBED	TOPDRESS
NONE	4.39	3.74	5.20	4.04
ETH+TRI	4.14	4.03	5.60	4.57
MILDFUNG L N RATE VARIETY	NONE		ETH+TRI	
	0	50	0	50
JULIA	4.29	4.39	4.46	4.65
WING	4.28	4.42	4.57	4.66
S N RATE L N RATE VARIETY	50		100	
	0	50	0	50
JULIA	3.89	4.15	4.86	4.89
WING	3.95	4.31	4.90	4.76
S N RATE L N RATE MILDFUNG	50		100	
	0	50	0	50
NONE	3.90	4.22	4.66	4.58
ETH+TRI	3.94	4.24	5.10	5.07
S N TIME L N RATE VARIETY	SEEDBED		TOPDRESS	
	0	50	0	50
JULIA	4.75	4.98	4.00	4.06
WING	4.69	4.91	4.15	4.17
S N TIME L N RATE MILDFUNG	SEEDBED		TOPDRESS	
	0	50	0	50
NONE	4.72	4.88	3.85	3.92
ETH+TRI	4.73	5.01	4.31	4.30
S N TIME L N RATE S N RATE	SEEDBED		TOPDRESS	
	0	50	0	50
50	4.06	4.47	3.78	3.99
100	5.39	5.42	4.37	4.24

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GRAIN TONNES/HECTARE

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

MILDFUNG	NONE	ETH+TRI	
RUSTFUNG	NONE BENODANI	NONE BENODANI	
VARIETY			
JULIA	4.28	4.40	4.45
WING	4.24	4.45	4.43
S N RATE	50	100	
RUSTFUNG	NONE BENODANI	NONE BENODANI	
VARIETY			
JULIA	3.98	4.06	4.75
WING	4.00	4.26	4.68
S N RATE	50	100	
RUSTFUNG	NONE BENODANI	NONE BENODANI	
MILDFUNG			
NONE	3.98	4.14	4.54
ETH+TRI	4.00	4.18	4.88
S N TIME	SEEDBED	TOPDRESS	
RUSTFUNG	NONE BENODANI	NONE BENODANI	
VARIETY			
JULIA	4.81	4.92	3.92
WING	4.69	4.91	3.99
S N TIME	SEEDBED	TOPDRESS	
RUSTFUNG	NONE BENODANI	NONE BENODANI	
MILDFUNG			
NONE	4.73	4.86	3.79
ETH+TRI	4.77	4.97	4.11
S N TIME	SEEDBED	TOPDRESS	
RUSTFUNG	NONE BENODANI	NONE BENODANI	
S N RATE			
50	4.24	4.29	3.74
100	5.26	5.54	4.16
L N RATE	0	50	
RUSTFUNG	NONE BENODANI	NONE BENODANI	
VARIETY			
JULIA	4.33	4.42	4.40
WING	4.30	4.55	4.38
L N RATE	0	50	
RUSTFUNG	NONE BENODANI	NONE BENODANI	
MILDFUNG			
NONE	4.21	4.36	4.32
ETH+TRI	4.42	4.61	4.46
L N RATE	0	50	
RUSTFUNG	NONE BENODANI	NONE BENODANI	
S N RATE			
50	3.92	3.92	4.06
100	4.71	5.05	4.71

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GRAIN TONNES/HECTARE

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

L N RATE	0	50
RUSTFUNG	NONE	BENODANI
S N TIME		NONE BENODANI
SEEDBED	4.72	4.73
TOPDRESS	3.91	4.25
		3.99
		4.23

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

TABLE	VARIETY	MILDFUNG	S N RATE	S N TIME
SED	0.158	0.158	0.087	0.087
TABLE	L N RATE	RUSTFUNG	VARIETY	VARIETY
			MILDFUNG	S N RATE
SED	0.062	0.062	0.224	0.181
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
VARIETY				0.123
TABLE	MILDFUNG	VARIETY	MILDFUNG	S N RATE
	S N RATE	S N TIME	S N TIME	S N TIME
SED	0.181	0.181	0.181	0.123
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
VARIETY		0.123		
MILDFUNG	0.123		0.123	
S N RATE				0.181
S N TIME				0.181
TABLE	VARIETY	MILDFUNG	S N RATE	S N TIME
	L N RATE	L N RATE	L N RATE	L N RATE
SED	0.170	0.170	0.107	0.107
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
VARIETY	0.088			
MILDFUNG		0.088		
S N RATE			0.088	
S N TIME				0.088
TABLE	VARIETY	MILDFUNG	S N RATE	S N TIME
	RUSTFUNG	RUSTFUNG	RUSTFUNG	RUSTFUNG
SED	0.170	0.170	0.107	0.107
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
VARIETY	0.088			
MILDFUNG		0.088		
S N RATE			0.088	
S N TIME				0.088

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GRAIN TONNES/HECTARE

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

TABLE	L N RATE RUSTFUNG	VARIETY MILDFUNG S N RATE	VARIETY MILDFUNG S N TIME	VARIETY S N RATE S N TIME
SED	0.088	0.256	0.256	0.256
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
VARIETY				0.174
L N RATE	0.107			
RUSTFUNG	0.107			
VARIETY.MILDFUNG		0.174	0.174	
TABLE	MILDFUNG S N RATE S N TIME	VARIETY MILDFUNG L N RATE	VARIETY S N RATE L N RATE	MILDFUNG S N RATE L N RATE
SED	0.256	0.241	0.201	0.201
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
VARIETY			0.151	
MILDFUNG	0.174			0.151
VARIETY.MILDFUNG		0.124		
VARIETY.S N RATE			0.124	
MILDFUNG.S N RATE				0.124
TABLE	VARIETY S N TIME L N RATE	MILDFUNG S N TIME L N RATE	S N RATE S N TIME L N RATE	VARIETY MILDFUNG RUSTFUNG
SED	0.201	0.201	0.151	0.241
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
VARIETY	0.151			
MILDFUNG		0.151		
S N RATE			0.201	
S N TIME			0.201	
VARIETY.MILDFUNG				0.124
VARIETY.S N TIME	0.124			
MILDFUNG.S N TIME		0.124		
S N RATE.S N TIME			0.124	
TABLE	VARIETY S N RATE RUSTFUNG	MILDFUNG S N RATE RUSTFUNG	VARIETY S N TIME RUSTFUNG	MILDFUNG S N TIME RUSTFUNG
SED	0.201	0.201	0.201	0.201
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
VARIETY	0.151		0.151	
MILDFUNG		0.151		0.151
VARIETY.S N RATE	0.124			
MILDFUNG.S N RATE		0.124		
VARIETY.S N TIME			0.124	
MILDFUNG.S N TIME				0.124

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GRAIN TONNES/HECTARE

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

TABLE	S N RATE	VARIETY	MILDFUNG	S N RATE
	S N TIME	L N RATE	L N RATE	L N RATE
	RUSTFUNG	RUSTFUNG	RUSTFUNG	RUSTFUNG
SED	0.151	0.201	0.201	0.201
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
VARIETY		0.124		
MILDFUNG			0.124	
S N RATE	0.201			0.124
S N TIME	0.201			
L N RATE				0.151
RUSTFUNG				0.151
S N RATE.S N TIME	0.124			
VARIETY.L N RATE		0.151		
MILDFUNG.L N RATE			0.151	
VARIETY.RUSTFUNG		0.151		
MILDFUNG.RUSTFUNG			0.151	

TABLE	S N TIME
	L N RATE
	RUSTFUNG

SED	0.201
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:	
S N TIME	0.124
L N RATE	0.151
RUSTFUNG	0.151

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

STRATUM	DF	SE	CV%
BLOCK.WP	4	0.317	7.1
BLOCK.WP.HP	5	0.246	5.5
BLOCK.WP.HP.QP	10	0.249	5.6

GRAIN MEAN DM% 84.2

SUB PLOT AREA HARVESTED 0.00479

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XTRA WMR

GRAIN TONNES/HECTARE

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

S N	25+25	50+50	MEAN
L N			
25+25	4.47	5.45	4.96
50+50	4.74	5.45	5.10
MEAN	4.60	5.45	5.03

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

TABLE	S N	L N	S N
			L N
SED	0.116	0.100	0.154
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:			
S N		0.142	

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

STRATUM	DF	SE	CV%
BLOCK.WP.HP.QP	6	0.201	4.0

GRAIN MEAN DM% 83.9

SUB PLOT AREA HARVESTED 0.00479