

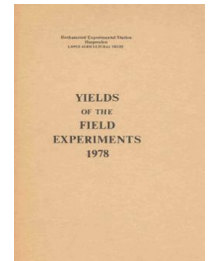
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78/R/CS/200 and 78/W/CS/200 Factors Affecting Yield - Ryegrass, Clover, Lucerne

Rothamsted Research

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78/R/CS/200 and 78/W/CS/200

FACTORS AFFECTING YIELD

Object: To study some of the factors limiting yield of grass, clover and lucerne - Rothamsted (R), Pastures and Woburn (W), Butt Furlong.

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The second year, ryegrass, white clover, lucerne.

For previous year see 77/R&W/CS/200.

Design: Single replicate of 2 plots split into 50.

Whole plot dimensions: Pastures (R): 23.8 x 24.5.
Butt Furlong (W): 22.3 x 24.5.

Treatments: Combinations of:-

Whole plots

1. IRRIGTN	Irrigation:
NONE	None
FULL	Irrigated to reduce a soil moisture deficit of 25 mm to zero

Sub plots

2. TREATMNT Treatments, combinations of:

Species:

Ryegrass, S.23, (RG)
Ryegrass, S.23 + Clover, Blanca (GB)
Ryegrass, S.23 + Clover, S.100 (GS)
Clover, Blanca (CL)
Lucerne, Vertus (LU)

Cutting frequencies:

Three times (3)
Six times (6)

Amounts of nitrogen fertiliser (kg N total per annum, applied as (25:0:16)):

0, 100, 200, 300, 400, 500, 600 (N0, N1, N2, N3, N4, N5, N6)

Times of applying nitrogen fertiliser:

Not applied (--), NO only
Divided equally between cuts (DE)
In spring only (SP)
Half in spring, half in summer (SS)

78/R/CS/200 and 78/W/CS/200

Control of pathogens:

None (-)

Controlled (C)

The following combinations are tested:

RG6NO---	GB3NO--- (duplicated)	CL3NO--- (duplicated)
RG6N1DE-	GB3N1DE-	CL3N2DE-
RG6N2DE-	GB3N2DE-	CL3NO--C
RG6N3DE-	GB3N3DE-	CL3N2DEC
RG6N4DE-	GB3N4DE-	
RG6N5DE-		LU3NO---
RG6N6DE-	GB3NO--C	LU3NO--C
	GB3N1DEC	
GB6NO---	GB3N2DEC	
GB6N1DE-	GB3N3DEC	
GB6N2DE-	GB3N4DEC	
GB6N3DE-		
GB6N4DE-	GB3N1SP- (duplicated)	
	GB3N1SS-	"
GS6NO---	GB3N2SS-	"
GS6N1DE-		
GS6N2DE-	RG3N2DE-	"
GS6N3DE-	RG3N2DEC	"
GS6N4DE-		

- NOTES: (1) Pathogen control consisted of:- (1) Aldicarb at 10 kg applied in the spring, (2) benomyl foliar spray at 0.56 kg + phorate at 5.0 kg, applied as granules, after each cut.
(2) Irrigation was applied as follows (mm water):

Pastures (R)

26 May	25
1 June	25
14 June	25
12 July	25
26 July	25
25 Aug	25
19 Sept	25
Total	175

Butt Furlong (W)

25 May	25
1 June	25
15 June	25
23 June	25
14 July	25
21 July	25
27 July	12.5
24 Aug	25
31 Aug	25
20 Sept	25
Total	237.5

- (3) NO plots receive 64 kg K2O, as muriate of potash, after the fourth cutting occasion.

78/R/CS/200 and 78/W/CS/200

Standard applications:

Pastures (R) All plots: Manures: (0:14:28) at 1070 kg. Weedkillers, to RG plots only: Dicamba with mecoprop and MCPA ('Tetralex plus' at 5.6 kg in 170 l).

Butt Furlong (W) All plots: Manures: Magnesian limestone at 2.5 tonnes. (0:14:28) at 1080 kg. Weedkillers, to RG plots only: Dicamba with mecoprop and MCPA ('Tetralex Plus' at 5.6 kg in 170 l).

Seed: S.23 Perennial ryegrass alone sown at 20 kg

S.23 Perennial ryegrass sown at 10 kg either with Blanca white clover sown at 4 kg or with S.100 white clover at 4 kg

Blanca white clover alone, sown at 4 kg

Lucerne, Vertus, sown at 10 kg, inoculated with Rhizobium

Pastures (R) sown 20 May, 1977

Butt Furlong (W) sown 23 May, 1977.

Cultivations, etc.:-

Pastures (R): PK applied: 7 Feb, 1978. NK applied six times: 10 Mar, 9 May, 8 June, 4 July, 1 Aug, 29 Aug. Aldicarb applied: 14 Mar.

Benomyl and phorate applied: 25 October, 1977, 9 May, 1978, 8 June, 4 July, 1 Aug, 29 Aug. Weedkiller applied to RG plots only: 26 May.

'6-cut' plots cut: 9 May, 6 June, 4 July, 1 Aug, 29 Aug, 20 Sept.

'3-cut' plots cut: 6 June, 1 Aug, 20 Sept.

Butt Furlong (W): Benomyl and phorate applied: 18 Oct, 1977, 14 Mar, 1978, 10 May, 7 June, 5 July, 4 Aug, 30 Aug. Magnesian limestone, PK applied: 8 Nov, 1977. Aldicarb applied: 14 Mar, 1978. Weedkiller applied to RG plots only: 26 May. '6-cut' plots cut: 10 May, 7 June, 5 July, 4 Aug, 30 Aug, 27 Sept. '3-cut' plots cut: 7 June, 4 Aug, 27 Sept.

- NOTES: (1) At Butt Furlong (W) before the fourth cutting occasion, plots were damaged by bullocks. Forty-five plots (all '3-cut') were affected. These plots were cut on the fourth cutting occasion but yields were not recorded. Later cuts were not affected.
- (2) Assessments of pests and diseases were made during the season. Nitrogen percentages of crop produce were measured.

78/R/CS/200 PASTURES (R)

1ST CUTTING OCCASION (9/5/78) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.55	0.89	0.72
RG6N1DE-	1.35	1.49	1.42
RG6N2DE-	1.60	1.43	1.51
RG6N3DE-	2.04	1.38	1.71
RG6N4DE-	2.21	2.20	2.21
RG6N5DE-	2.40	1.80	2.10
RG6N6DE-	2.58	2.14	2.36
GB6N0---	1.13	1.08	1.11
GB6N1DE-	1.21	1.23	1.22
GB6N2DE-	1.57	1.46	1.51
GB6N3DE-	1.94	1.66	1.80
GB6N4DE-	2.34	1.97	2.16
GS6N0---	0.90	0.63	0.77
GS6N1DE-	1.10	1.20	1.15
GS6N2DE-	1.42	1.30	1.36
GS6N3DE-	1.65	1.65	1.65
GS6N4DE-	1.85	2.18	2.02
MEAN	1.64	1.51	1.57

1ST CUTTING OCCASION MEAN DM% 15.8

* USE STANDARD ERRORS ONLY TO COMPARE TREATMNT LEVELS
GB3N0---, GB3N1SP-, GB3N1SS-, GB3N2SS-, RG3N2DE-, RG3N2DEC,
CL3N0---, CL3N2DE-, CL3N0--C, CL3N2DEC, LU3N0---, LU3N0--C
AND WITHIN THE SAME LEVEL OF IRRIGATN.

78/R/CS/200 PASTURES (R)

2ND CUTTING OCCASION (6/6/78) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.99	1.00	0.99
RG6N1DE-	2.03	1.82	1.92
RG6N2DE-	2.88	3.05	2.97
RG6N3DE-	3.05	3.10	3.08
RG6N4DE-	3.56	3.63	3.59
RG6N5DE-	2.96	3.81	3.38
RG6N6DE-	2.93	3.57	3.25
GB6N0---	2.86	3.02	2.94
GB6N1DE-	2.76	3.15	2.96
GB6N2DE-	3.51	3.34	3.43
GB6N3DE-	3.52	3.50	3.51
GB6N4DE-	3.83	3.37	3.60
GS6N0---	2.59	2.56	2.58
GS6N1DE-	2.92	3.29	3.10
GS6N2DE-	3.67	3.79	3.73
GS6N3DE-	3.99	3.83	3.91
GS6N4DE-	3.70	3.86	3.78
GB3N0---	4.41	3.27	3.84
GB3N1DE-	4.55	4.84	4.70
GB3N2DE-	5.87	6.30	6.09
GB3N3DE-	6.10	6.39	6.24
GB3N4DE-	6.99	6.80	6.89
GB3N0--C	3.87	4.23	4.05
GB3N1DEC	5.28	6.24	5.76
GB3N2DEC	5.42	5.39	5.40
GB3N3DEC	6.82	6.38	6.60
GB3N4DEC	6.26	6.24	6.25
GB3N1SP-	5.82	6.61	6.22
GB3N1SS-	5.37	6.08	5.72
GB3N2SS-	6.40	5.75	6.08
RG3N2DE-	5.66	5.73	5.69
RG3N2DEC	5.88	5.24	5.56
CL3N0---	3.36	3.89	3.62
CL3N2DE-	4.00	4.13	4.07
CL3N0--C	3.43	2.83	3.13
CL3N2DEC	3.66	4.04	3.85
LU3N0---	3.88	3.75	3.82
LU3N0--C	3.67	3.55	3.61
MEAN	4.28	4.32	4.30

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

TABLE	TREATMNT*	TREATMNT* IRRIGATN
SED	0.366	0.518

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

STRATUM	DF	SE	CV%
WP	24	0.518	12.0
2ND CUTTING OCCASION MEAN DM%	14.4		

78/R/CS/200 PASTURES (R)

3RD CUTTING OCCASION (4/7/78) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.38	0.23	0.31
RG6N1DE-	0.54	0.62	0.58
RG6N2DE-	1.01	1.29	1.15
RG6N3DE-	0.89	1.00	0.94
RG6N4DE-	1.59	0.58	1.08
RG6N5DE-	1.31	1.50	1.41
RG6N6DE-	0.65	0.61	0.63
GB6N0---	1.37	1.36	1.36
GB6N1DE-	1.41	1.34	1.37
GB6N2DE-	1.28	1.23	1.26
GB6N3DE-	0.98	1.04	1.01
GB6N4DE-	1.28	0.56	0.92
GS6N0---	1.06	1.47	1.27
GS6N1DE-	1.21	1.26	1.24
GS6N2DE-	1.03	1.02	1.03
GS6N3DE-	1.24	1.33	1.29
GS6N4DE-	0.55	0.50	0.52
MEAN	1.04	1.00	1.02

3RD CUTTING OCCASION MEAN DM% 14.5

78/R/CS/200 PASTURES (R)

4TH CUTTING OCCASION (1/8/78) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.34	0.35	0.34
RG6N1DE-	0.54	0.56	0.55
RG6N2DE-	1.64	1.44	1.54
RG6N3DE-	1.35	1.88	1.62
RG6N4DE-	1.79	3.03	2.41
RG6N5DE-	2.12	2.67	2.40
RG6N6DE-	1.16	2.67	1.91
GB6N0---	2.15	1.90	2.03
GB6N1DE-	2.23	2.63	2.43
GB6N2DE-	2.16	1.93	2.04
GB6N3DE-	2.46	2.96	2.71
GB6N4DE-	2.52	3.23	2.88
GS6N0---	1.93	1.74	1.83
GS6N1DE-	1.59	2.08	1.83
GS6N2DE-	2.03	2.27	2.15
GS6N3DE-	2.30	2.49	2.40
GS6N4DE-	2.18	2.86	2.52
GB3N0---	3.12	3.24	3.18
GB3N1DE-	4.15	3.24	3.70
GB3N2DE-	3.17	3.93	3.55
GB3N3DE-	4.06	4.84	4.45
GB3N4DE-	4.78	4.99	4.89
GB3N0--C	2.94	3.06	3.00
GB3N1DEC	3.17	3.65	3.41
GB3N2DEC	4.16	4.36	4.26
GB3N3DEC	5.09	5.97	5.53
GB3N4DEC	3.42	3.19	3.30
GB3N1SP-	2.83	3.11	2.97
GB3N1SS-	2.99	3.94	3.47
GB3N2SS-	2.32	3.62	2.97
RG3N2DE-	3.02	3.45	3.24
RG3N2DEC	3.06	3.74	3.40
CL3N0---	2.62	3.06	2.84
CL3N2DE-	2.81	2.75	2.78
CL3N0--C	2.65	2.53	2.59
CL3N2DEC	4.03	3.52	3.77
LU3N0---	3.88	3.58	3.73
LU3N0--C	3.79	4.22	4.01
MEAN	2.79	3.11	2.95

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

TABLE	TREATMNT*	TREATMNT* IRRIGATN
SED	0.350	0.495

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

STRATUM	DF	SE	CV%
WP	24	0.495	16.8
4TH CUTTING OCCASION MEAN DM%	12.9		

78/R/CS/200 PASTURES (R)

5TH CUTTING OCCASION (29/8/78) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.16	0.13	0.15
RG6N1DE-	0.59	0.50	0.55
RG6N2DE-	1.61	1.63	1.62
RG6N3DE-	2.14	2.25	2.20
RG6N4DE-	3.14	2.21	2.68
RG6N5DE-	2.57	2.76	2.66
RG6N6DE-	2.69	2.70	2.70
GB6N0---	2.16	1.88	2.02
GB6N1DE-	2.29	1.98	2.13
GB6N2DE-	2.28	1.97	2.13
GB6N3DE-	2.23	2.37	2.30
GB6N4DE-	2.47	2.39	2.43
GS6N0---	2.24	2.18	2.21
GS6N1DE-	2.27	2.27	2.27
GS6N2DE-	2.31	2.35	2.33
GS6N3DE-	2.42	2.52	2.47
GS6N4DE-	2.69	2.42	2.55
MEAN	2.13	2.03	2.08

5TH CUTTING OCCASION MEAN DM% 16.1

78/R/CS/200 PASTURES (R)

6TH CUTTING OCCASION (26/9/78) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.08	0.08	0.08
RG6N1DE-	0.17	0.17	0.17
RG6N2DE-	0.51	0.55	0.53
RG6N3DE-	0.71	0.89	0.80
RG6N4DE-	1.01	1.40	1.20
RG6N5DE-	0.35	1.57	0.96
RG6N6DE-	0.59	1.69	1.14
GB6N0---	0.53	1.45	0.99
GB6N1DE-	0.73	0.85	0.79
GB6N2DE-	0.57	1.65	1.11
GB6N3DE-	0.73	0.93	0.83
GB6N4DE-	0.58	0.99	0.79
GS6N0---	0.66	0.86	0.76
GS6N1DE-	0.73	1.29	1.01
GS6N2DE-	0.74	1.43	1.08
GS6N3DE-	0.84	1.56	1.20
GS6N4DE-	0.71	1.60	1.15
GB3N0---	2.25	2.35	2.30
GB3N1DE-	2.59	2.96	2.78
GB3N2DE-	2.52	2.14	2.33
GB3N3DE-	2.99	2.89	2.94
GB3N4DE-	2.94	2.52	2.73
GB3N0--C	2.53	3.16	2.85
GB3N1DEC	2.45	2.30	2.37
GB3N2DEC	2.79	3.20	3.00
GB3N3DEC	2.84	2.66	2.75
GB3N4DEC	3.41	3.12	3.27
GB3N1SP-	2.39	2.63	2.51
GB3N1SS-	2.49	2.49	2.49
GB3N2SS-	2.19	2.52	2.36
RG3N2DE-	3.07	3.54	3.30
RG3N2DEC	3.17	3.24	3.21
CL3N0---	1.90	2.23	2.07
CL3N2DE-	1.89	2.36	2.12
CL3N0--C	1.94	2.54	2.24
CL3N2DEC	2.56	2.59	2.58
LU3N0---	2.46	2.58	2.52
LU3N0--C	2.57	3.29	2.93
MEAN	1.86	2.17	2.02

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

TABLE	TREATMNT*	TREATMNT* IRRIGATN
SED	0.258	0.365

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

STRATUM	DF	SE	CV%
WP	24	0.365	18.1
6TH CUTTING OCCASION MEAN DM%	18.8	254	

78/R/CS/200 PASTURES (R)

TOTAL OF 6 CUTTING OCCASIONS DRY MATTER TONNES/HECTARE

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

IRRIGATN	NONE	FULL	MEAN
TREATMNT			
RG6N0---	2.50	2.68	2.59
RG6N1DE-	5.21	5.16	5.18
RG6N2DE-	9.24	9.38	9.31
RG6N3DE-	10.17	10.51	10.34
RG6N4DE-	13.30	13.05	13.18
RG6N5DE-	11.71	14.12	12.91
RG6N6DE-	10.59	13.37	11.98
GB6N0---	10.21	10.69	10.45
GB6N1DE-	10.62	11.18	10.90
GB6N2DE-	11.37	11.58	11.48
GB6N3DE-	11.87	12.45	12.16
GB6N4DE-	13.02	12.50	12.76
GS6N0---	9.38	9.44	9.41
GS6N1DE-	9.82	11.39	10.61
GS6N2DE-	11.20	12.17	11.68
GS6N3DE-	12.45	13.38	12.91
GS6N4DE-	11.68	13.42	12.55
GB3N0---	9.78	8.86	9.32
GB3N1DE-	11.30	11.05	11.17
GB3N2DE-	11.56	12.38	11.97
GB3N3DE-	13.16	14.12	13.64
GB3N4DE-	14.71	14.31	14.51
GB3N0--C	9.34	10.45	9.90
GB3N1DEC	10.90	12.19	11.54
GB3N2DEC	12.37	12.95	12.66
GB3N3DEC	14.75	15.01	14.88
GB3N4DEC	13.09	12.54	12.82
GB3N1SP-	11.05	12.34	11.70
GB3N1SS-	10.85	12.52	11.69
GB3N2SS-	10.91	11.89	11.40
RG3N2DE-	11.75	12.72	12.24
RG3N2DEC	12.11	12.22	12.16
CL3N0---	7.88	9.17	8.53
CL3N2DE-	8.70	9.24	8.97
CL3N0--C	8.02	7.90	7.96
CL3N2DEC	10.25	10.15	10.20
LU3N0---	10.22	9.92	10.07
LU3N0--C	10.04	11.06	10.55
MEAN	10.57	11.15	10.86

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

TABLE	TREATMNT*	TREATMNT* IRRIGATN
SED	0.603	0.852

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

STRATUM	DF	SE	CV%
WP	24	0.852	7.8

TOTAL OF 6 CUTTING OCCASIONS MEAN DM% 15.2
 SUBPLOT AREA HARVESTED 0.00038

78/W/CS/200 BUTT FURLONG (W)

1ST CUTTING OCCASION (10/5/78) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.18	0.36	0.27
RG6N1DE-	0.28	0.82	0.55
RG6N2DE-	1.11	0.93	1.02
RG6N3DE-	1.00	1.18	1.09
RG6N4DE-	1.57	1.47	1.52
RG6N5DE-	1.82	2.27	2.04
RG6N6DE-	2.27	2.17	2.22
GB6N0---	2.15	1.98	2.06
GB6N1DE-	2.25	2.31	2.28
GB6N2DE-	2.30	2.27	2.28
GB6N3DE-	2.65	2.84	2.75
GB6N4DE-	2.81	2.46	2.64
GS6N0---	1.26	1.40	1.33
GS6N1DE-	2.14	1.79	1.96
GS6N2DE-	2.19	2.35	2.27
GS6N3DE-	2.22	2.24	2.23
GS6N4DE-	2.83	2.71	2.77
MEAN	1.83	1.85	1.84

1ST CUTTING OCCASION MEAN DM% 15.9

78/W/CS/200 BUTT FURLONG (W)

2ND CUTTING OCCASION (7/6/78) DRY MATTER TONNES/HECTARE

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

IRRIGATN	NONE	FULL	MEAN
TREATMNT			
RG6N0---	0.67	0.91	0.79
RG6N1DE-	1.09	2.26	1.67
RG6N2DE-	2.35	2.97	2.66
RG6N3DE-	2.72	4.11	3.41
RG6N4DE-	3.15	4.69	3.92
RG6N5DE-	3.86	4.90	4.38
RG6N6DE-	3.77	4.99	4.38
GB6N0---	1.75	2.97	2.36
GB6N1DE-	2.14	3.25	2.70
GB6N2DE-	2.17	3.22	2.70
GB6N3DE-	2.09	3.67	2.88
GB6N4DE-	2.89	3.97	3.43
GS6N0---	1.65	2.60	2.12
GS6N1DE-	1.99	3.22	2.61
GS6N2DE-	2.03	3.55	2.79
GS6N3DE-	2.27	3.56	2.91
GS6N4DE-	2.48	4.12	3.30
GB3N0---	4.40	5.32	4.86
GB3N1DE-	5.59	7.22	6.41
GB3N2DE-	5.53	7.50	6.51
GB3N3DE-	6.58	7.43	7.01
GB3N4DE-	6.52	7.44	6.98
GB3N0--C	3.83	5.30	4.57
GB3N1DEC	5.92	6.95	6.43
GB3N2DEC	6.52	6.56	6.54
GB3N3DEC	7.10	8.48	7.79
GB3N4DEC	7.73	7.86	7.79
GB3N1SP-	6.17	7.29	6.73
GB3N1SS-	6.41	6.96	6.69
GB3N2SS-	6.43	7.51	6.97
RG3N2DE-	6.53	6.54	6.53
RG3N2DEC	6.34	8.57	7.46
CL3N0---	3.52	4.56	4.04
CL3N2DE-	4.00	5.35	4.68
CL3N0--C	3.89	4.49	4.19
CL3N2DEC	4.16	5.56	4.86
LU3N0---	4.37	5.33	4.85
LU3N0--C	4.34	4.65	4.50
MEAN	4.31	5.36	4.83

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

TABLE	TREATMNT*	TREATMNT* IRRIGATN
SED	0.492	0.696

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

STRATUM	DF	SE	CV%
WP	24	0.696	14.4
2ND CUTTING OCCASION MEAN DM%	17.5		

78/W/CS/200 BUTT FURLONG (W)

3RD CUTTING OCCASION (5/7/78) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.11	0.19	0.15
RG6N1DE-	0.30	0.57	0.44
RG6N2DE-	0.82	0.99	0.90
RG6N3DE-	1.03	1.19	1.11
RG6N4DE-	1.18	1.45	1.32
RG6N5DE-	0.97	1.32	1.15
RG6N6DE-	1.44	1.80	1.62
GB6N0---	0.91	1.74	1.33
GB6N1DE-	1.51	1.76	1.63
GB6N2DE-	1.59	1.85	1.72
GB6N3DE-	1.67	1.67	1.67
GB6N4DE-	1.61	1.92	1.76
GS6N0---	0.52	0.89	0.70
GS6N1DE-	1.16	1.40	1.28
GS6N2DE-	1.20	1.42	1.31
GS6N3DE-	1.17	1.25	1.21
GS6N4DE-	2.12	1.53	1.82
MEAN	1.14	1.35	1.24

3RD CUTTING OCCASION MEAN DM% 13.8

78/W/CS/200 BUTT FURLONG (W)

4TH CUTTING OCCASION (4/8/78) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.18	0.14	0.16
RG6N1DE-	0.34	1.05	0.69
RG6N2DE-	0.71	1.38	1.05
RG6N3DE-	0.87	2.43	1.65
RG6N4DE-	1.03	3.25	2.14
RG6N5DE-	0.91	2.37	1.64
RG6N6DE-	1.39	3.36	2.38
GB6N0---	0.35	2.45	1.40
GB6N1DE-	1.14	2.65	1.90
GB6N2DE-	1.10	2.45	1.77
GB6N3DE-	1.18	3.20	2.19
GB6N4DE-	1.38	3.02	2.20
GS6N0---	0.27	2.13	1.20
GS6N1DE-	0.79	2.60	1.70
GS6N2DE-	0.88	2.37	1.62
GS6N3DE-	0.63	2.42	1.52
GS6N4DE-	1.35	3.60	2.48
GB3N0---	2.09	*	2.09
GB3N1DE-	1.78	*	1.78
GB3N1SP-	2.44	*	2.44
GB3N1SS-	2.73	3.20	2.97
CL3N0---	2.09	2.81	2.33
CL3N2DE-	2.60	2.94	2.77
CL3N0--C	2.74	3.11	2.93
CL3N2DEC	3.14	*	3.14
LU3N0---	3.65	4.60	4.13
LU3N0--C	3.48	4.59	4.03
MEAN	1.68	2.85	2.21

4TH CUTTING OCCASION MEAN DM% 15.1

78/W/CS/200 BUTT FURLONG (W)

5TH CUTTING OCCASION (30/8/78) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.00	0.10	0.05
RG6N1DE-	0.27	0.54	0.41
RG6N2DE-	1.31	1.18	1.24
RG6N3DE-	1.80	1.72	1.76
RG6N4DE-	1.91	2.05	1.98
RG6N5DE-	2.14	2.25	2.19
RG6N6DE-	2.21	1.68	1.94
GB6N0---	1.53	1.88	1.70
GB6N1DE-	1.99	1.74	1.87
GB6N2DE-	2.28	1.84	2.06
GB6N3DE-	1.95	1.68	1.82
GB6N4DE-	2.34	1.50	1.92
GS6N0---	0.84	1.78	1.31
GS6N1DE-	1.84	1.59	1.71
GS6N2DE-	1.70	1.82	1.76
GS6N3DE-	1.92	1.77	1.84
GS6N4DE-	2.21	1.61	1.91
MEAN	1.66	1.57	1.62

5TH CUTTING OCCASION MEAN DM% 16.2

78/W/CS/200 BUTT FURLONG (W)

6TH CUTTING OCCASION (27/9/78) DRY MATTER TONNES/HECTARE

**** TABLES OF MEANS ****

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.00	0.14	0.07
RG6N1DE-	0.16	0.37	0.27
RG6N2DE-	0.57	0.73	0.65
RG6N3DE-	0.71	1.23	0.97
RG6N4DE-	0.62	1.71	1.16
RG6N5DE-	0.68	2.28	1.48
RG6N6DE-	0.64	1.81	1.23
GB6N0---	0.36	1.41	0.89
GB6N1DE-	0.77	1.41	1.09
GB6N2DE-	0.61	1.33	0.97
GB6N3DE-	0.75	1.58	1.17
GB6N4DE-	0.88	1.49	1.19
GS6N0---	0.30	1.29	0.80
GS6N1DE-	0.58	1.17	0.88
GS6N2DE-	0.47	1.61	1.04
GS6N3DE-	0.32	1.43	0.87
GS6N4DE-	1.02	2.02	1.52
GB3N0---	1.91	2.41	2.16
GB3N1DE-	2.18	2.32	2.25
GB3N2DE-	2.65	3.46	3.06
GB3N3DE-	3.67	3.21	3.44
GB3N4DE-	3.85	2.87	3.36
GB3N0--C	2.27	3.26	2.77
GB3N1DEC	3.26	2.98	3.12
GB3N2DEC	3.67	2.86	3.27
GB3N3DEC	3.93	3.78	3.86
GB3N4DEC	4.78	4.11	4.44
GB3N1SP-	1.72	1.97	1.84
GB3N1SS-	2.25	1.87	2.06
GB3N2SS-	3.17	2.52	2.85
RG3N2DE-	2.56	2.80	2.68
RG3N2DEC	3.16	3.55	3.36
CL3N0---	1.66	2.59	2.13
CL3N2DE-	1.20	2.63	1.91
CL3N0--C	2.38	2.62	2.50
CL3N2DEC	2.12	3.01	2.57
LU3N0---	3.16	3.20	3.18
LU3N0--C	2.64	3.77	3.20
MEAN	1.91	2.36	2.13

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

TABLE	TREATMNT*	TREATMNT* IRRIGATN
SED	0.242	0.342

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

STRATUM	DF	SE	CV%
WP	24	0.342	16.0
6TH CUTTING OCCASION MEAN DM%	17.9		

78/W/CS/200 BUTT FURLONG (W)

TOTAL OF 6 CUTTING OCCASIONS DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	1.14	1.85	1.49
RG6N1DE-	2.44	5.60	4.02
RG6N2DE-	6.87	8.18	7.52
RG6N3DE-	8.14	11.85	10.00
RG6N4DE-	9.45	14.62	12.04
RG6N5DE-	10.38	15.38	12.88
RG6N6DE-	11.72	15.81	13.77
GB6N0---	7.05	12.42	9.73
GB6N1DE-	9.81	13.13	11.47
GB6N2DE-	10.05	12.95	11.50
GB6N3DE-	10.29	14.64	12.47
GB6N4DE-	11.92	14.35	13.14
GS6N0---	4.84	10.09	7.47
GS6N1DE-	8.50	11.77	10.13
GS6N2DE-	8.47	13.12	10.80
GS6N3DE-	8.53	12.66	10.59
GS6N4DE-	12.00	15.59	13.79
GB3N0---	7.85	*	7.85
GB3N1DE-	9.55	*	9.55
GB3N1SP-	10.40	*	10.40
GB3N1SS-	11.29	12.01	11.68
CL3N0---	7.27	10.57	8.37
CL3N2DE-	7.97	10.55	9.26
CL3N0--C	9.23	10.61	9.92
CL3N2DEC	9.75	*	9.75
LU3N0---	11.18	13.13	12.16
LU3N0--C	10.46	13.00	11.73
MEAN	8.85	12.00	10.28

TOTAL OF 6 CUTTING OCCASIONS MEAN DM% 16.9

SUB PLOT AREA HARVESTED 0.00038