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Yields of the Field Experiments 1978

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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 ('Tetralix 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 ('Tetralix 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 TREATMNT	NONE	FULL	MEAN
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