ROTHAMSTED RESEARCH

Yields of the Field Experiments 1979

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79/R/CS/200 and 79/W/CS/200 Factors Affecting Yield - Ryegrass, Clover, Lucerne

Rothamsted Research

Rothamsted Research (1980) *79/R/CS/200 and 79/W/CS/200 Factors Affecting Yield - Ryegrass, Clover, Lucerne ;* Yields Of The Field Experiments 1979, pp 177 - 193 **- DOI: https://doi.org/10.23637/ERADOC-1-45**

79/R/CS/200 and 79/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 third year, ryegrass, white clover, lucerne.

For previous years see 77-78/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. IRRIGATN — 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 (--), N0 only
- Divided equally between cuts (DE)
- In spring only (SP)
- Half in spring, half in summer (SS)

Control of pathogens:

- None (-)
- Controlled (C)

https://doi.org/10.23637/ERADOC-1-45

79/R/CS/200 and 79/W/CS/200

The following combinations are tested:

RG6N0---	GB3N0--- (duplicated)	CL3N0--- (duplicated)
RG6N1DE-	GB3N1DE-	CL3N2DE- "
RG6N2DE-	GB3N2DE-	CL3N0--C "
RG6N3DE-	GB3N3DE-	CL3N2DEC "
RG6N4DE-	GB3N4DE-	
RG6N5DE-		LU3N0--- "
RG6N6DE-	GB3N0--C	LU3N0--C "
	GB3N1DEC	
GB6N0---	GB3N2DEC	
GB6N1DE-	GB3N3DEC	
GB6N2DE-	GB3N4DEC	
GB6N3DE-		
GB6N4DE-	GB3N1SP- (duplicated)	
	GB3N1SS- "	
GS6N0---	GB3N2SS "	
GS6N1DE-		
GS6N2DE-	RG3N2DE- "	
GS6N3DE-	RG3N2DEC "	
GS6N4DE-		

NOTES: (1) Pathogen control consisted of:- (1) Aldicarb at 10 kg applied in the spring except to LU which received phorate at 5.0 kg, (2) benomyl foliar spray at 0.56 kg + phorate at 5.0 kg, applied as granules, after each cut, (3) two additional benomyl foliar sprays at 0.56 kg in winter.

(2) Irrigation was applied as follows (mm water):

Pastures (R)

8 June	12.5
20 June	25
4 July	25
11 July	25
3 Aug	20
29 Aug	12.5
19 Sept	25
Total	145

Butt Furlong (W)

12 June	12.5
22 June	25
25 June	25
5 July	25
11 July	25
18 July	25
25 July	25
3 Aug	12.5
16 Aug	12.5
6 Sept	25
10 Sept	12.5
Total	225

(3) N0 plots received 64 kg K20, as muriate of potash, after the fourth cutting occasion.

https://doi.org/10.23637/ERADOC-1-45

79/R/CS/200 and 79/W/CS/200

Standard applications:
Pastures (R) All plots: Manures: (0:14:28) at 1070 kg. Weedkillers: Propyzamide at 0.7 kg in 700 l to CL and LU plots only. Dicamba with mecoprop and MCPA ('Banlene plus' at 4.9 kg) in 220 l to RG plots only. Dicamba with mecoprop and MCPA ('Tetralex plus' at 5.6 kg) in 170 l to RG plots only.
Butt Furlong (W) All plots: Manures: Magnesian limestone at 2.5 t, (0:14:28) at 1080 kg. Weedkillers: Propyzamide at 0.7 kg in 780 l to CL and LU plots only. Dicamba with mecoprop and MCPA ('Banlene plus' at 4.9 kg) in 220 l to RG plots only. Dicamba with mecoprop and MCPA ('Tetralex plus' at 5.6 kg) in 170 l to RG plots only.

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): Benomyl and phorate applied: 4 Oct, 1978. Propyzamide applied: 10 Oct. PK applied: 7 Nov. Benomyl applied: 9 Nov, 9 Jan, 1979. Aldicarb applied to all C plots except LU and phorate to C plots of LU: 2 Mar. Benomyl and phorate applied: 10 May, 5 June, 3 July, 31 July, 28 Aug, 25 Sept. NK applied six times: 23 Mar, 10 May, 5 June, 3 July, 31 July, 28 Aug. '6-cut' plots cut: 10 May, 5 June, 3 July, 31 July. '3-cut' plots cut: 5 June, 31 July, 25 Sept.
Butt Furlong (W): Benomyl, phorate and magnesian limestone applied: 27 Sept, 1978. Propyzamide applied: 10 Oct. Benomyl applied: 9 Nov. PK applied: 24 Nov. Benomyl applied: 10 Jan, 1979. Aldicarb applied to all C plots except LU and phorate to C plots of LU: 2 Mar. Benomyl and phorate applied: 15 May, 6 June, 5 July, 2 Aug, 29 Aug, 26 Sept.
NK applied six times: 23 Mar, 15 May, 6 June, 5 July, 2 Aug, 29 Aug.
'6-cut' plots cut: 15 May, 6 June, 4 July, 2 Aug, 29 Aug, 26 Sept.
'3-cut' plots cut: 6 June, 2 Aug, 26 Sept.

NOTE: Assessments of pests and diseases were made during the season.
Nitrogen percentages of crop produce were measured.

https://doi.org/10.23637/ERADOC-1-45

79/R/CS/200 PASTURES (R)

1ST CUTTING OCCASION (10/5/79) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.00	0.00	0.00
RG6N1DE-	0.04	0.00	0.02
RG6N2DE-	0.05	0.07	0.06
RG6N3DE-	0.10	0.03	0.07
RG6N4DE-	0.18	0.10	0.14
RG6N5DE-	0.28	0.11	0.19
RG6N6DE-	0.37	0.21	0.29
GB6N0---	0.03	0.00	0.01
GB6N1DE-	0.42	0.00	0.21
GB6N2DE-	0.22	0.06	0.14
GB6N3DE-	0.32	0.08	0.20
GB6N4DE-	0.44	0.00	0.22
GS6N0---	0.08	0.01	0.05
GS6N1DE-	0.06	0.04	0.05
GS6N2DE-	0.23	0.05	0.14
GS6N3DE-	0.28	0.08	0.18
GS6N4DE-	0.21	0.24	0.23
MEAN	0.20	0.06	0.13

* 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.

1ST CUTTING OCCASION MEAN DM% 21.9

https://doi.org/10.23637/ERADOC-1-45

79/R/CS/200 PASTURES (R)

2ND CUTTING OCCASION (5/6/79) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.26	0.33	0.30
RG6N1DE-	0.91	0.73	0.82
RG6N2DE-	1.69	1.37	1.53
RG6N3DE-	2.51	1.86	2.19
RG6N4DE-	3.51	2.85	3.18
RG6N5DE-	3.64	3.56	3.60
RG6N6DE-	4.16	3.44	3.80
GB6N0---	2.54	1.93	2.24
GB6N1DE-	2.74	2.71	2.73
GB6N2DE-	2.98	2.81	2.90
GB6N3DE-	3.27	2.90	3.09
GB6N4DE-	3.63	2.92	3.27
GS6N0---	2.50	2.42	2.46
GS6N1DE-	2.94	2.73	2.83
GS6N2DE-	3.33	2.68	3.01
GS6N3DE-	3.83	3.18	3.50
GS6N4DE-	3.72	3.72	3.72
GB3N0---	2.62	1.39	2.01
GB3N1DE-	2.75	2.35	2.55
GB3N2DE-	2.54	2.10	2.32
GB3N3DE-	3.00	1.86	2.43
GB3N4DE-	2.90	2.56	2.73
GB3N0--C	2.63	2.82	2.72
GB3N1DEC	3.20	2.76	2.98
GB3N2DEC	2.86	2.22	2.54
GB3N3DEC	2.81	2.81	2.81
GB3N4DEC	3.11	2.09	2.60
GB3N1SP-	2.76	1.68	2.22
GB3N1SS-	2.88	2.00	2.44
GB3N2SS-	2.78	1.85	2.32
RG3N2DE-	2.00	1.61	1.80
RG3N2DEC	2.46	1.58	2.02
CL3N0---	2.17	2.20	2.18
CL3N2DE-	2.41	1.34	1.87
CL3N0--C	2.46	2.00	2.23
CL3N2DEC	2.34	2.07	2.20
LU3N0---	4.28	3.17	3.72
LU3N0--C	4.77	3.91	4.34
MEAN	2.84	2.27	2.55

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

TABLE	TREATMNT*	TREATMNT* IRRIGATN
SED	0.245	0.346

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

STRATUM	DF	SE	CV%
WP.SP	24	0.346	13.6

2ND CUTTING OCCASION MEAN DM% 13.1

https://doi.org/10.23637/ERADOC-1-45

79/R/CS/200 PASTURES (R)

3RD CUTTING OCCASION (3/7/79) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.42	0.56	0.49
RG6N1DE-	1.27	0.73	1.00
RG6N2DE-	2.10	1.60	1.85
RG6N3DE-	2.16	2.07	2.11
RG6N4DE-	2.14	2.66	2.40
RG6N5DE-	2.68	2.29	2.49
RG6N6DE-	2.02	2.22	2.12
GB6N0---	2.32	2.37	2.35
GB6N1DE-	2.35	2.23	2.29
GB6N2DE-	2.58	2.34	2.46
GB6N3DE-	2.50	2.45	2.48
GB6N4DE-	2.77	2.29	2.53
GS6N0---	2.27	2.25	2.26
GS6N1DE-	2.36	2.40	2.38
GS6N2DE-	2.26	2.29	2.27
GS6N3DE-	2.20	2.33	2.26
GS6N4DE-	2.32	2.42	2.37
MEAN	2.16	2.09	2.12

3RD CUTTING OCCASION MEAN DM% 16.6

https://doi.org/10.23637/ERADOC-1-45

79/R/CS/200 PASTURES (R)

4TH CUTTING OCCASION (31/7/79) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.10	0.08	0.09
RG6N1DE-	0.09	0.45	0.27
RG6N2DE-	0.40	1.58	0.99
RG6N3DE-	0.40	1.89	1.14
RG6N4DE-	0.64	2.79	1.71
RG6N5DE-	0.68	3.09	1.89
RG6N6DE-	0.91	3.53	2.22
GB6N0---	0.98	2.49	1.73
GB6N1DE-	0.60	2.02	1.31
GB6N2DE-	0.84	2.46	1.65
GB6N3DE-	1.24	2.39	1.82
GB6N4DE-	0.82	2.05	1.43
GS6N0---	0.07	2.28	1.18
GS6N1DE-	0.26	2.56	1.41
GS6N2DE-	0.91	2.53	1.72
GS6N3DE-	1.28	2.58	1.93
GS6N4DE-	1.03	2.69	1.86
GB3N0---	2.55	3.50	3.03
GB3N1DE-	2.17	3.25	2.71
GB3N2DE-	3.16	2.84	3.00
GB3N3DE-	2.45	3.46	2.95
GB3N4DE-	3.11	2.97	3.04
GB3N0--C	3.66	4.09	3.87
GB3N1DEC	3.47	2.98	3.22
GB3N2DEC	3.10	4.44	3.77
GB3N3DEC	3.41	3.91	3.66
GB3N4DEC	4.77	4.81	4.79
GB3N1SP-	2.90	3.79	3.35
GB3N1SS-	2.74	2.59	2.67
GB3N2SS-	3.06	2.86	2.96
RG3N2DE-	4.46	4.27	4.37
RG3N2DEC	4.85	5.43	5.14
CL3N0---	2.17	2.22	2.20
CL3N2DE-	2.77	2.85	2.81
CL3N0--C	2.93	3.76	3.35
CL3N2DEC	1.80	3.64	2.72
LU3N0---	5.47	5.04	5.25
LU3N0--C	5.74	5.78	5.76
MEAN	2.47	3.23	2.85

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

TABLE	TREATMNT*	TREATMNT* IRRIGATN
SED	0.328	0.464

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

STRATUM	DF	SE	CV%
WP.SP	24	0.464	16.3

4TH CUTTING OCCASION MEAN DM% 22.3

https://doi.org/10.23637/ERADOC-1-45

79/R/CS/200 PASTURES (R)

5TH CUTTING OCCASION (28/8/79) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.15	0.13	0.14
RG6N1DE-	0.42	0.21	0.32
RG6N2DE-	1.19	1.13	1.16
RG6N3DE-	1.31	1.41	1.36
RG6N4DE-	1.77	1.83	1.80
RG6N5DE-	1.90	1.47	1.69
RG6N6DE-	1.84	2.14	1.99
GB6N0---	1.40	1.36	1.38
GB6N1DE-	1.46	1.55	1.50
GB6N2DE-	1.73	1.22	1.48
GB6N3DE-	1.45	1.69	1.57
GB6N4DE-	1.78	1.56	1.67
GS6N0---	1.24	1.46	1.35
GS6N1DE-	1.39	1.65	1.52
GS6N2DE-	1.57	1.41	1.49
GS6N3DE-	1.91	1.60	1.75
GS6N4DE-	1.89	1.77	1.83
MEAN	1.44	1.39	1.41

5TH CUTTING OCCASION MEAN DM% 15.3

https://doi.org/10.23637/ERADOC-1-45

79/R/CS/200 PASTURES (R)

6TH CUTTING OCCASION (25/9/79) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.00	0.12	0.06
RG6N1DE-	0.12	0.27	0.20
RG6N2DE-	0.39	0.83	0.61
RG6N3DE-	0.51	0.89	0.70
RG6N4DE-	0.68	1.42	1.05
RG6N5DE-	0.82	1.06	0.94
RG6N6DE-	0.60	0.92	0.76
GB6N0---	0.52	1.02	0.77
GB6N1DE-	0.47	1.13	0.80
GB6N2DE-	0.52	1.08	0.80
GB6N3DE-	0.65	1.12	0.89
GB6N4DE-	0.62	0.90	0.76
GS6N0---	0.52	0.85	0.68
GS6N1DE-	0.45	0.99	0.72
GS6N2DE-	0.62	1.04	0.83
GS6N3DE-	0.73	1.00	0.86
GS6N4DE-	0.73	1.28	1.00
GB3N0---	1.96	1.40	1.68
GB3N1DE-	1.33	1.51	1.42
GB3N2DE-	2.23	2.33	2.28
GB3N3DE-	1.53	2.61	2.07
GB3N4DE-	2.06	2.57	2.32
GB3N0--C	2.58	2.17	2.37
GB3N1DEC	2.56	2.59	2.57
GB3N2DEC	2.52	3.57	3.05
GB3N3DEC	2.43	3.57	3.00
GB3N4DEC	2.69	2.59	2.64
GB3N1SP-	1.80	1.42	1.61
GB3N1SS-	2.02	2.14	2.08
GB3N2SS-	2.39	2.39	2.39
RG3N2DE-	2.26	1.81	2.04
RG3N2DEC	1.60	2.09	1.85
CL3N0---	1.57	1.97	1.77
CL3N2DE-	1.53	1.66	1.60
CL3N0--C	2.40	1.95	2.18
CL3N2DEC	1.90	2.55	2.23
LU3N0---	3.07	3.41	3.24
LU3N0--C	3.48	3.56	3.52
MEAN	1.62	1.84	1.73

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

TABLE	TREATMNT*	TREATMNT* IRRIGATN
SED	0.216	0.306

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

STRATUM	DF	SE	CV%
WP.SP	24	0.306	17.7

6TH CUTTING OCCASION MEAN DM% 16.6

https://doi.org/10.23637/ERADOC-1-45

79/R/CS/200 PASTURES (R)

TOTAL OF 6 CUTTING OCCASIONS DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.93	1.22	1.08
RG6N1DE-	2.85	2.39	2.62
RG6N2DE-	5.81	6.58	6.20
RG6N3DE-	6.98	8.16	7.57
RG6N4DE-	8.91	11.65	10.28
RG6N5DE-	10.00	11.58	10.79
RG6N6DE-	9.90	12.45	11.18
GB6N0---	7.78	9.18	8.48
GB6N1DE-	8.04	9.64	8.84
GB6N2DE-	8.88	9.97	9.42
GB6N3DE-	9.44	10.63	10.03
GB6N4DE-	10.06	9.72	9.89
GS6N0---	6.68	9.28	7.98
GS6N1DE-	7.47	10.37	8.92
GS6N2DE-	8.91	10.00	9.46
GS6N3DE-	10.22	10.76	10.49
GS6N4DE-	9.90	12.12	11.01
GB3N0---	7.13	6.30	6.71
GB3N1DE-	6.25	7.11	6.68
GB3N2DE-	7.93	7.27	7.60
GB3N3DE-	6.98	7.93	7.45
GB3N4DE-	8.07	8.11	8.09
GB3N0--C	8.86	9.08	8.97
GB3N1DEC	9.23	8.32	8.78
GB3N2DEC	8.48	10.23	9.36
GB3N3DEC	8.65	10.29	9.47
GB3N4DEC	10.58	9.48	10.03
GB3N1SP-	7.47	6.89	7.18
GB3N1SS-	7.64	6.73	7.19
GB3N2SS-	8.22	7.10	7.66
RG3N2DE-	8.72	7.70	8.21
RG3N2DEC	8.91	9.10	9.01
CL3N0---	5.91	6.39	6.15
CL3N2DE-	6.71	5.85	6.28
CL3N0--C	7.79	7.70	7.75
CL3N2DEC	6.04	8.25	7.15
LU3N0---	12.82	11.62	12.22
LU3N0--C	13.99	13.26	13.63
MEAN	8.21	8.55	8.38

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

TABLE	TREATMNT*	TREATMNT* IRRIGATN
SED	0.560	0.791

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

STRATUM	DF	SE	CV%
WP.SP	24	0.791	9.4

TOTAL OF 6 CUTTING OCCASIONS MEAN DM% 14.3

SUB PLOT AREA HARVESTED 0.00038

https://doi.org/10.23637/ERADOC-1-45 *pp 11*

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

1ST CUTTING OCCASION (15/5/79) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.00	0.16	0.08
RG6N1DE-	0.16	0.25	0.21
RG6N2DE-	0.38	0.24	0.31
RG6N3DE-	0.79	0.85	0.82
RG6N4DE-	1.56	0.69	1.12
RG6N5DE-	1.87	1.04	1.46
RG6N6DE-	1.97	1.07	1.52
GB6N0---	2.33	1.87	2.10
GB6N1DE-	2.23	1.80	2.02
GB6N2DE-	2.40	2.11	2.25
GB6N3DE-	2.90	2.27	2.59
GB6N4DE-	2.81	1.76	2.28
GS6N0---	1.03	1.31	1.17
GS6N1DE-	1.69	1.02	1.35
GS6N2DE-	1.45	1.41	1.43
GS6N3DE-	1.41	1.40	1.40
GS6N4DE-	2.14	1.69	1.91
MEAN	1.59	1.23	1.41

1ST CUTTING OCCASION MEAN DM% 19.7

https://doi.org/10.23637/ERADOC-1-45

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

2ND CUTTING OCCASION (6/6/79) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.14	0.44	0.29
RG6N1DE-	0.39	0.63	0.51
RG6N2DE-	1.18	0.85	1.02
RG6N3DE-	1.63	1.49	1.56
RG6N4DE-	2.50	2.14	2.32
RG6N5DE-	2.25	2.87	2.56
RG6N6DE-	2.56	2.33	2.44
GB6N0---	1.55	1.94	1.74
GB6N1DE-	1.73	1.85	1.79
GB6N2DE-	1.89	1.62	1.76
GB6N3DE-	2.00	2.04	2.02
GB6N4DE-	2.04	2.11	2.08
GS6N0---	1.16	1.60	1.38
GS6N1DE-	1.59	1.83	1.71
GS6N2DE-	1.89	2.14	2.01
GS6N3DE-	2.08	2.19	2.13
GS6N4DE-	2.14	2.49	2.31
GB3N0---	3.68	3.14	3.41
GB3N1DE-	3.62	3.61	3.62
GB3N2DE-	5.01	3.41	4.21
GB3N3DE-	5.44	3.57	4.51
GB3N4DE-	4.76	3.41	4.08
GB3N0--C	4.01	3.06	3.54
GB3N1DEC	4.09	4.16	4.13
GB3N2DEC	4.51	4.14	4.32
GB3N3DEC	6.02	4.05	5.04
GB3N4DEC	5.88	5.16	5.52
GB3N1SP-	4.72	3.27	3.99
GB3N1SS-	4.11	2.73	3.42
GB3N2SS-	4.42	3.17	3.79
RG3N2DE-	3.13	2.42	2.78
RG3N2DEC	2.56	3.29	2.93
CL3N0---	2.80	2.57	2.68
CL3N2DE-	2.79	2.60	2.69
CL3N0--C	2.35	2.33	2.34
CL3N2DEC	2.73	2.68	2.70
LU3N0---	5.63	4.44	5.04
LU3N0--C	4.06	4.22	4.14
MEAN	3.16	2.78	2.97

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

TABLE	TREATMNT*	TREATMNT* IRRIGATN
SED	0.226	0.320

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

STRATUM	DF	SE	CV%
WP.SP	24	0.320	10.8

2ND CUTTING OCCASION MEAN DM% 14.3

https://doi.org/10.23637/ERADOC-1-45

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

3RD CUTTING OCCASION (4/7/79) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.31	0.31	0.31
RG6N1DE-	0.61	0.54	0.58
RG6N2DE-	1.82	1.35	1.59
RG6N3DE-	2.24	1.61	1.93
RG6N4DE-	2.52	2.51	2.52
RG6N5DE-	2.46	2.64	2.55
RG6N6DE-	1.77	2.41	2.09
GB6N0---	1.99	2.36	2.18
GB6N1DE-	2.13	2.30	2.22
GB6N2DE-	2.44	2.46	2.45
GB6N3DE-	2.61	2.40	2.50
GB6N4DE-	2.56	2.28	2.42
GS6N0---	1.20	1.89	1.54
GS6N1DE-	1.99	2.05	2.02
GS6N2DE-	2.10	1.97	2.03
GS6N3DE-	2.33	1.98	2.16
GS6N4DE-	2.37	2.65	2.51
MEAN	1.97	1.98	1.98

3RD CUTTING OCCASION MEAN DM% 19.1

https://doi.org/10.23637/ERADOC-1-45

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

4TH CUTTING OCCASION (2/8/79) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.13	0.18	0.15
RG6N1DE-	0.12	0.26	0.19
RG6N2DE-	0.27	0.80	0.53
RG6N3DE-	0.19	1.66	0.92
RG6N4DE-	0.10	2.19	1.15
RG6N5DE-	0.22	1.86	1.04
RG6N6DE-	0.19	2.25	1.22
GB6N0---	0.08	2.19	1.14
GB6N1DE-	0.08	1.94	1.01
GB6N2DE-	0.09	1.73	0.91
GB6N3DE-	0.15	2.20	1.17
GB6N4DE-	0.21	2.17	1.19
GS6N0---	0.09	1.79	0.94
GS6N1DE-	0.18	2.06	1.12
GS6N2DE-	0.18	1.83	1.00
GS6N3DE-	0.09	1.50	0.79
GS6N4DE-	0.18	1.99	1.08
GB3N0---	1.07	2.43	1.75
GB3N1DE-	1.61	2.56	2.09
GB3N2DE-	1.61	2.42	2.02
GB3N3DE-	1.85	2.77	2.31
GB3N4DE-	2.45	2.50	2.47
GB3N0--C	1.95	3.58	2.77
GB3N1DEC	2.61	3.52	3.07
GB3N2DEC	2.77	2.67	2.72
GB3N3DEC	2.12	3.75	2.94
GB3N4DEC	3.07	4.37	3.72
GB3N1SP-	1.28	2.04	1.66
GB3N1SS-	1.54	1.79	1.66
GB3N2SS-	1.67	2.52	2.09
RG3N2DE-	2.22	3.52	2.87
RG3N2DEC	3.23	4.93	4.08
CL3N0---	1.13	2.36	1.74
CL3N2DE-	1.11	2.05	1.58
CL3N0--C	1.31	2.30	1.80
CL3N2DEC	1.42	2.59	2.01
LU3N0---	4.12	4.88	4.50
LU3N0--C	4.75	5.02	4.88
MEAN	1.45	2.59	2.02

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

TABLE	TREATMNT*	TREATMNT* IRRIGATN
SED	0.300	0.424

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

STRATUM	DF	SE	CV%
WP.SP	24	0.424	21.0

4TH CUTTING OCCASION MEAN DM% 23.2

https://doi.org/10.23637/ERADOC-1-45

79/W/CS/200 PASTURES (R)

5TH CUTTING OCCASION (29/8/79) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.00	0.14	0.07
RG6N1DE-	0.30	0.29	0.30
RG6N2DE-	1.33	0.98	1.15
RG6N3DE-	1.02	1.76	1.39
RG6N4DE-	0.48	1.58	1.03
RG6N5DE-	0.25	1.75	1.00
RG6N6DE-	0.36	1.93	1.15
GB6N0---	0.90	1.61	1.26
GB6N1DE-	1.14	1.48	1.31
GB6N2DE-	1.09	1.78	1.44
GB6N3DE-	1.28	1.56	1.42
GB6N4DE-	1.24	1.38	1.31
GS6N0---	0.63	1.65	1.14
GS6N1DE-	0.82	1.53	1.17
GS6N2DE-	1.07	1.43	1.25
GS6N3DE-	0.90	1.48	1.19
GS6N4DE-	0.60	1.86	1.23
MEAN	0.79	1.42	1.11

5TH CUTTING OCCASION MEAN DM% 15.7

https://doi.org/10.23637/ERADOC-1-45

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

6TH CUTTING OCCASION (6/9/79) DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.10	0.15	0.12
RG6N1DE-	0.27	0.45	0.36
RG6N2DE-	0.56	0.75	0.66
RG6N3DE-	0.60	1.37	0.99
RG6N4DE-	0.17	0.71	0.44
RG6N5DE-	0.12	1.72	0.92
RG6N6DE-	0.23	1.47	0.85
GB6N0---	0.43	1.07	0.75
GB6N1DE-	0.64	0.93	0.79
GB6N2DE-	0.49	1.14	0.82
GB6N3DE-	0.44	1.14	0.79
GB6N4DE-	0.93	1.02	0.97
GS6N0---	0.41	1.46	0.93
GS6N1DE-	0.33	1.11	0.72
GS6N2DE-	0.26	1.35	0.80
GS6N3DE-	0.30	1.32	0.81
GS6N4DE-	0.33	1.50	0.91
GB3N0---	1.12	1.46	1.29
GB3N1DE-	1.18	1.26	1.22
GB3N2DE-	1.32	1.31	1.31
GB3N3DE-	1.83	1.44	1.64
GB3N4DE-	2.05	1.50	1.78
GB3N0--C	2.27	2.33	2.30
GB3N1DEC	2.27	2.48	2.37
GB3N2DEC	2.83	2.67	2.75
GB3N3DEC	3.02	2.38	2.70
GB3N4DEC	3.08	2.61	2.84
GB3N1SP-	1.33	1.29	1.31
GB3N1SS-	1.43	1.20	1.31
GB3N2SS-	1.71	1.39	1.55
RG3N2DE-	2.73	2.53	2.63
RG3N2DEC	3.04	3.25	3.14
CL3N0---	1.25	1.35	1.30
CL3N2DE-	1.07	1.24	1.16
CL3N0--C	1.81	1.94	1.88
CL3N2DEC	1.73	2.14	1.94
LU3N0---	2.53	3.06	2.80
LU3N0--C	2.92	3.79	3.36
MEAN	1.44	1.72	1.58

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

TABLE	TREATMNT*	TREATMNT* IRRIGATN
SED	0.185	0.262

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

STRATUM	DF	SE	CV%
WP.SP	24	0.262	16.6

6TH CUTTING OCCASION MEAN DM% 18.9

https://doi.org/10.23637/ERADOC-1-45

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

TOTAL OF 6 CUTTING OCCASIONS DRY MATTER TONNES/HECTARE

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

IRRIGATN TREATMNT	NONE	FULL	MEAN
RG6N0---	0.67	1.36	1.02
RG6N1DE-	1.86	2.42	2.14
RG6N2DE-	5.54	4.97	5.26
RG6N3DE-	6.46	8.74	7.60
RG6N4DE-	7.33	9.82	8.57
RG6N5DE-	7.18	11.87	9.52
RG6N6DE-	7.09	11.47	9.28
GB6N0---	7.28	11.05	9.17
GB6N1DE-	7.95	10.30	9.13
GB6N2DE-	8.39	10.85	9.62
GB6N3DE-	9.38	11.61	10.50
GB6N4DE-	9.80	10.72	10.26
GS6N0---	4.52	9.69	7.11
GS6N1DE-	6.59	9.59	8.09
GS6N2DE-	6.94	10.13	8.53
GS6N3DE-	7.11	9.87	8.49
GS6N4DE-	7.76	12.17	9.96
GB3N0---	5.87	7.04	6.45
GB3N1DE-	6.42	7.44	6.93
GB3N2DE-	7.94	7.14	7.54
GB3N3DE-	9.13	7.78	8.46
GB3N4DE-	9.27	7.40	8.33
GB3N0--C	8.23	8.98	8.60
GB3N1DEC	8.97	10.16	9.57
GB3N2DEC	10.12	9.47	9.79
GB3N3DEC	11.16	10.18	10.67
GB3N4DEC	12.03	12.14	12.09
GB3N1SP-	7.34	6.59	6.96
GB3N1SS-	7.07	5.71	6.39
GB3N2SS-	7.80	7.08	7.44
RG3N2DE-	8.08	8.47	8.27
RG3N2DEC	8.83	11.47	10.15
CL3N0---	5.18	6.27	5.73
CL3N2DE-	4.96	5.89	5.43
CL3N0--C	5.47	6.57	6.02
CL3N2DEC	5.88	7.41	6.65
LU3N0---	12.28	12.39	12.33
LU3N0--C	11.73	13.04	12.38
MEAN	7.52	8.66	8.09

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

TABLE	TREATMNT*	TREATMNT* IRRIGATN
SED	0.563	0.796

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

STRATUM	DF	SE	CV%
WP.SP	24	0.796	9.8

TOTAL OF 6 CUTTING OCCASIONS MEAN DM% 15.4

SUBPLOT AREA HARVESTED 0.00038

https://doi.org/10.23637/ERADOC-1-45 *pp 18*