ROTHAMSTED RESEARCH

Yields of the Field Experiments 1978

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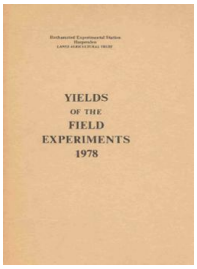

78/R/G/1 and 78/W/G/1 Aqueous Urea and Nitrification Inhibitors - Grass

Rothamsted Research

Rothamsted Research (1979) *78/R/G/1 and 78/W/G/1 Aqueous Urea and Nitrification Inhibitors - Grass ;* Yields Of The Field Experiments 1978, pp 442 - 454 **- DOI: https://doi.org/10.23637/ERADOC-1-30**

78/R/G/1 and 78/W/G/1

GRASS

AQUEOUS UREA AND NITRIFICATION INHIBITORS

Object: To study the effects of adding nitrification inhibitors to liquid fertilisers on the yield and nitrogen uptake of grass cut for silage - Rothamsted (R) Great Harpenden I and Woburn (W) Stackyard II.

Sponsors: J. Ashworth, A. Penny, M.V. Hewitt, A.J. Gibbs.

Design: 2 randomised blocks of 28 plots.

Whole plot dimensions: 2.43 x 9.14.

Treatments: All combinations of:-

1. U T1 N — Rates of nitrogen fertiliser applied as aqueous urea as a single application, injection tines spaced 30 cm apart (kg N):

2	250
3	375

2. N TIME — Times of applying aqueous urea:

AUTUMN
SPRING

3. NI FORM — Forms of nitrification inhibitors added to aqueous urea:

NONE	None
NITRAPYR	Nitrapyrin
SOD TRI	Sodium trithiocarbonate
NIT CS	Nitrapyrin + carbon disulphide

plus twelve extra treatments:

EXTRA

Aqueous urea, tines spaced 60 cm apart, no inhibitors:

UT2 N2A	Supplying 250 kg N in autumn
UT2 N2S	Supplying 250 kg N in spring
UT2 N3A	Supplying 375 kg N in autumn
UT2 N3S	Supplying 375 kg N in spring

Aqueous urea + ammonium nitrate, tines spaced 30 cm apart, supplying 375 kg N applied in spring

UATIN3SO	No nitrification inhibitor
UATIN3ST	Sodium trithiocarbonate
UATIN3SN	Nitrapyrin
UATIN3SM	Mixture of nitrapyrin and carbon disulphide

'Nitro-Chalk', dressing divided (kg N total):

NC N2	250
NC N3	375
NC N4	500
NONE	None

https://doi.org/10.23637/ERADOC-1-30

78/R/G/1 and 78/W/G/1

Basal applications:
Great Harpenden I (R): Manures: (0:14:28) at 500 kg.
Stackyard II (W): Manures: (0:14:28) at 970 kg.

Seed: Great Harpenden I (R): S24 perennial ryegrass, sown May, 1977.
Stackyard II (W): Old ley, sown Sept, 1971.

Cultivations, etc.:-
Great Harpenden I (R): N and NI TIME AUTUMN applied: 25 Nov, 1977. PK applied: 19 Dec. N and NI TIME SPRING applied: 10 Mar, 1978. 'Nitro-Chalk' applied: 10 Mar, 2 June, 19 July, 1 Sept. Cut three times: 31 May, 14 July, 18 Oct. Previous crops: Oats 1976, ley 1977.
Stackyard II (W): PK applied: 10 Nov, 1977. N and NI TIME AUTUMN applied: 24 Nov. N and NI TIME SPRING applied: 8 Mar, 1978. 'Nitro-Chalk' applied: 8 Mar, 25 May, 27 July, 18 Aug. Cut four times: 23 May, 12 July, 18 Aug, 26 Oct. Previous crops: Ley 1976 and 1977.

NOTES: (1) Grass samples were taken for N determination.
(2) N in the injected soil profile was measured at regular intervals and ammonia evaporation measured.

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78/R/G/1 GREAT HARPENDEN I (R)
1ST CUT (31/5/78) DRY MATTER TONNES/HECTARE

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

N TIME / U T1 N	AUTUMN	SPRING	MEAN
2	9.36	7.97	8.66
3	8.93	8.29	8.61
MEAN	9.14	8.13	8.63

NI FORM / U T1 N	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
2	8.57	8.62	8.93	8.52	8.66
3	8.14	8.33	8.77	9.19	8.61
MEAN	8.36	8.48	8.85	8.85	8.63

NI FORM / N TIME	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
AUTUMN	8.69	8.91	9.28	9.69	9.14
SPRING	8.02	8.04	8.43	8.02	8.13
MEAN	8.36	8.48	8.85	8.85	8.63

U T1 N	NI FORM / N TIME	NONE	NITRAPYR	SOD TRI	NIT CS
2	AUTUMN	9.06	9.28	9.61	9.48
	SPRING	8.09	7.96	8.25	7.56
3	AUTUMN	8.32	8.54	8.95	9.90
	SPRING	7.95	8.12	8.60	8.48

EXTRA	
UT2 N2A	8.75
UT2 N2S	7.29
UT2 N3A	8.73
UT2 N3S	7.80
UAT1N3SO	7.23
UAT1N3ST	8.47
UAT1N3SN	8.08
UAT1N3SM	8.30
NC N2	6.72
NC N3	7.98
NC N4	8.77
NONE	2.80
MEAN	7.58
GRAND MEAN	8.18

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

TABLE	EXTRA	U T1 N	N TIME	NI FORM
SED	0.586	0.207	0.207	0.293

TABLE	U T1 N / N TIME	U T1 N / NI FORM	N TIME / NI FORM	U T1 N / N TIME / NI FORM & EXTRA
SED	0.293	0.414	0.414	0.586

https://doi.org/10.23637/ERADOC-1-30

78/R/G/1 GREAT HARPENDEN I (R)
2ND CUT(14/7/78)DRY MATTER TONNES/HECTARE

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

N TIME U T1 N	AUTUMN	SPRING	MEAN
2	1.11	2.01	1.56
3	2.07	3.45	2.76
MEAN	1.59	2.73	2.16

NI FORM U T1 N	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
2	1.32	1.56	1.48	1.86	1.56
3	2.54	2.84	2.70	2.97	2.76
MEAN	1.93	2.20	2.09	2.41	2.16

NI FORM N TIME	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
AUTUMN	1.58	1.67	1.32	1.78	1.59
SPRING	2.28	2.73	2.86	3.04	2.73
MEAN	1.93	2.20	2.09	2.41	2.16

U T1 N	NI FORM N TIME	NONE	NITRAPYR	SOD TRI	NIT CS
2	AUTUMN	1.21	1.08	0.86	1.27
	SPRING	1.42	2.05	2.11	2.44
3	AUTUMN	1.95	2.27	1.78	2.29
	SPRING	3.13	3.41	3.61	3.64

EXTRA	
UT2 N2A	1.03
UT2 N2S	2.13
UT2 N3A	2.41
UT2 N3S	3.77
UAT1N3SO	2.60
UAT1N3ST	2.71
UAT1N3SN	2.88
UAT1N3SM	3.25
NC N2	2.57
NC N3	3.61
NC N4	3.56
NONE	0.27
MEAN	2.57
GRAND MEAN	2.33

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

TABLE	EXTRA	U T1 N	N TIME	NI FORM
SED	0.294	0.104	0.104	0.147

TABLE	U T1 N N TIME	U T1 N NI FORM	N TIME NI FORM	U T1 N N TIME NI FORM & EXTRA
SED	0.147	0.208	0.208	0.294

https://doi.org/10.23637/ERADOC-1-30

78/R/G/1 GREAT HARPENDEN I (R)
3RD CUT(18/10/78) DRY MATTER TONNES/HECTARE

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

N TIME U T1 N	AUTUMN	SPRING	MEAN
2	0.22	0.27	0.25
3	0.37	0.49	0.43
MEAN	0.29	0.38	0.34

NI FORM U T1 N	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
2	0.24	0.20	0.19	0.35	0.25
3	0.40	0.46	0.41	0.44	0.43
MEAN	0.32	0.33	0.30	0.40	0.34

NI FORM N TIME	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
AUTUMN	0.33	0.30	0.23	0.32	0.29
SPRING	0.31	0.36	0.38	0.47	0.38
MEAN	0.32	0.33	0.30	0.40	0.34

U T1 N	NI FORM N TIME	NONE	NITRAPYR	SOD TRI	NIT CS
2	AUTUMN	0.29	0.17	0.16	0.27
	SPRING	0.19	0.23	0.23	0.43
3	AUTUMN	0.37	0.42	0.30	0.38
	SPRING	0.43	0.50	0.52	0.51

EXTRA	
UT2 N2A	0.19
UT2 N2S	0.17
UT2 N3A	0.54
UT2 N3S	0.85
UAT1N3SO	0.33
UAT1N3ST	0.35
UAT1N3SN	0.43
UAT1N3SM	0.46
NC N2	2.85
NC N3	4.25
NC N4	4.24
NONE	0.02
MEAN	1.22
GRAND MEAN	0.72

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

TABLE	EXTRA	U T1 N	N TIME	NI FORM
SED	0.105	0.037	0.037	0.053

TABLE	U T1 N N TIME	U T1 N NI FORM	N TIME NI FORM	U T1 N N TIME NI FORM & EXTRA
SED	0.053	0.074	0.074	0.105

https://doi.org/10.23637/ERADOC-1-30

78/R/G/1 GREAT HARPENDEN I (R)
TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

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

N TIME / U T1 N	AUTUMN	SPRING	MEAN
2	10.69	10.24	10.46
3	11.37	12.23	11.80
MEAN	11.03	11.23	11.13

NI FORM / U T1 N	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
2	10.13	10.39	10.61	10.72	10.46
3	11.08	11.63	11.88	12.60	11.80
MEAN	10.61	11.01	11.25	11.66	11.13

NI FORM / N TIME	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
AUTUMN	10.61	10.88	10.83	11.79	11.03
SPRING	10.60	11.14	11.66	11.53	11.23
MEAN	10.61	11.01	11.25	11.66	11.13

U T1 N	NI FORM / N TIME	NONE	NITRAPYR	SOD TRI	NIT CS
2	AUTUMN	10.57	10.53	10.63	11.02
	SPRING	9.70	10.25	10.59	10.43
3	AUTUMN	10.65	11.23	11.03	12.57
	SPRING	11.51	12.03	12.74	12.63

EXTRA	
UT2 N2A	9.97
UT2 N2S	9.60
UT2 N3A	11.68
UT2 N3S	12.42
UAT1N3SO	10.17
UAT1N3ST	11.54
UAT1N3SN	11.39
UAT1N3SM	12.01
NC N2	12.14
NC N3	15.84
NC N4	16.57
NONE	3.09
MEAN	11.37
GRAND MEAN	11.23

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

TABLE	EXTRA	U T1 N	N TIME	NI FORM
SED	0.551	0.195	0.195	0.275

TABLE	U T1 N / N TIME	U T1 N / NI FORM	N TIME / NI FORM	U T1 N / N TIME / NI FORM & EXTRA
SED	0.275	0.389	0.389	0.551

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78/R/G/1 GREAT HARPENDEN I (R)

1ST CUT (31/5/78) DRY MATTER TONNES/HECTARE

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

STRATUM	DF	SE	CV%
BLOCK.WP	27	0.586	7.2

1ST CUT MEAN DM% 19.6

1ST CUT PLOT AREA HARVESTED 0.00104

2ND CUT(14/7/78)DRY MATTER TONNES/HECTARE

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

STRATUM	DF	SE	CV%
BLOCK.WP	27	0.294	12.6

2ND CUT MEAN DM% 24.3

2ND CUT PLOT AREA HARVESTED 0.00111

3RD CUT(18/10/78) DRY MATTER TONNES/HECTARE

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

STRATUM	DF	SE	CV%
BLOCK.WP	27	0.105	14.7

3RD CUT MEAN DM% 38.7

3RD CUT PLOT AREA HARVESTED 0.00104

TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

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

STRATUM	DF	SE	CV%
BLOCK.WP	27	0.551	4.9

TOTAL OF 3 CUTS MEAN DM% 27.5

https://doi.org/10.23637/ERADOC-1-30

78/W/G/1 STACKYARD II
1ST CUT (31/5/78) DRY MATTER TONNES/HECTARE

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

N TIME	AUTUMN	SPRING	MEAN
U T1 N			
2	2.98	2.29	2.63
3	3.39	2.69	3.04
MEAN	3.18	2.49	2.84

NI FORM	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
U T1 N					
2	2.73	2.67	2.65	2.49	2.63
3	3.15	3.16	2.91	2.93	3.04
MEAN	2.94	2.92	2.78	2.71	2.84

NI FORM	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
N TIME					
AUTUMN	3.27	3.19	3.26	3.00	3.18
SPRING	2.61	2.65	2.30	2.42	2.49
MEAN	2.94	2.92	2.78	2.71	2.84

	NI FORM	NONE	NITRAPYR	SOD TRI	NIT CS
U T1 N	N TIME				
2	AUTUMN	3.08	3.03	3.13	2.67
	SPRING	2.38	2.31	2.17	2.31
3	AUTUMN	3.46	3.34	3.40	3.34
	SPRING	2.83	2.98	2.43	2.53

EXTRA	
UT2 N2A	2.62
UT2 N2S	1.53
UT2 N3A	2.98
UT2 N3S	1.92
UAT1N3SO	3.27
UAT1N3ST	2.55
UAT1N3SN	2.98
UAT1N3SM	2.73
NC N2	2.16
NC N3	2.72
NC N4	3.12
NONE	0.78
MEAN	2.45
GRAND MEAN	2.67

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

TABLE	EXTRA	U T1 N	N TIME	NI FORM
SED	0.249	0.088	0.088	0.125

TABLE	U T1 N N TIME	U T1 N NI FORM	N TIME NI FORM	U T1 N N TIME NI FORM
SED	0.125	0.176	0.176	0.249

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78/W/G/1 STACKYARD II
2ND CUT (12/7/78) DRY MATTER TONNES/HECTARE

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

N TIME U T1 N	AUTUMN	SPRING	MEAN
2	2.48	3.03	2.76
3	2.86	3.24	3.05
MEAN	2.67	3.14	2.90

NI FORM U T1 N	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
2	3.02	2.93	2.59	2.48	2.76
3	3.17	3.13	2.86	3.04	3.05
MEAN	3.10	3.03	2.73	2.76	2.90

NI FORM N TIME	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
AUTUMN	2.76	2.74	2.65	2.52	2.67
SPRING	3.43	3.32	2.80	3.00	3.14
MEAN	3.10	3.03	2.73	2.76	2.90

U T1 N	NI FORM N TIME	NONE	NITRAPYR	SOD TRI	NIT CS
2	AUTUMN	2.65	2.53	2.40	2.33
	SPRING	3.40	3.34	2.77	2.63
3	AUTUMN	2.88	2.95	2.89	2.71
	SPRING	3.46	3.30	2.84	3.37

EXTRA	
UT2 N2A	2.47
UT2 N2S	2.15
UT2 N3A	2.92
UT2 N3S	3.59
UAT1N3SO	3.12
UAT1N3ST	2.81
UAT1N3SN	3.16
UAT1N3SM	3.25
NC N2	2.72
NC N3	3.47
NC N4	2.64
NONE	1.82
MEAN	2.84
GRAND MEAN	2.88

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

TABLE	EXTRA	U T1 N	N TIME	NI FORM
SED	0.336	0.119	0.119	0.168

TABLE	U T1 N N TIME	U T1 N NI FORM	N TIME NI FORM	U T1 N N TIME NI FORM
SED	0.168	0.238	0.238	0.336

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78/W/G/1 STACKYARD II
3RD CUT (18/8/78) DRY MATTER TONNES/HECTARE

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

N TIME / U T1 N	AUTUMN	SPRING	MEAN
2	0.64	1.10	0.87
3	0.85	1.63	1.24
MEAN	0.75	1.37	1.06

NI FORM / U T1 N	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
2	0.79	1.09	0.75	0.84	0.87
3	1.19	1.28	1.21	1.30	1.24
MEAN	0.99	1.19	0.98	1.07	1.06

NI FORM / N TIME	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
AUTUMN	0.67	0.94	0.62	0.75	0.75
SPRING	1.31	1.43	1.34	1.39	1.37
MEAN	0.99	1.19	0.98	1.07	1.06

U T1 N	NI FORM / N TIME	NONE	NITRAPYR	SOD TRI	NIT CS
2	AUTUMN	0.55	0.94	0.51	0.57
	SPRING	1.04	1.24	1.00	1.11
3	AUTUMN	0.80	0.94	0.74	0.94
	SPRING	1.58	1.62	1.68	1.66

EXTRA	
UT2 N2A	0.74
UT2 N2S	1.26
UT2 N3A	1.17
UT2 N3S	1.39
UAT1N3SO	1.30
UAT1N3ST	1.49
UAT1N3SN	1.37
UAT1N3SM	1.41
NC N2	1.29
NC N3	1.72
NC N4	1.80
NONE	0.87
MEAN	1.32
GRAND MEAN	1.17

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

TABLE	EXTRA	U T1 N	N TIME	NI FORM
SED	0.264	0.094	0.094	0.132

TABLE	U T1 N / N TIME	U T1 N / NI FORM	N TIME / NI FORM	U T1 N / N TIME / NI FORM
SED	0.132	0.187	0.187	0.264

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78/W/G/1 STACKYARD II
4TH CUT (26/10/78) DRY MATTER TONNES/HECTARE

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

N TIME U T1 N	AUTUMN	SPRING	MEAN
2	0.47	0.50	0.49
3	0.50	0.77	0.64
MEAN	0.49	0.64	0.56

NI FORM U T1 N	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
2	0.37	0.78	0.37	0.43	0.49
3	0.66	0.67	0.51	0.71	0.64
MEAN	0.51	0.73	0.44	0.57	0.56

NI FORM N TIME	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
AUTUMN	0.44	0.74	0.33	0.44	0.49
SPRING	0.58	0.72	0.55	0.69	0.64
MEAN	0.51	0.73	0.44	0.57	0.56

U T1 N	NI FORM N TIME	NONE	NITRAPYR	SOD TRI	NIT CS
2	AUTUMN	0.29	0.92	0.33	0.36
	SPRING	0.45	0.64	0.41	0.50
3	AUTUMN	0.59	0.56	0.33	0.52
	SPRING	0.72	0.79	0.69	0.89

EXTRA	
UT2 N2A	0.62
UT2 N2S	0.61
UT2 N3A	0.55
UT2 N3S	0.63
UAT1N3SO	0.71
UAT1N3ST	0.78
UAT1N3SN	0.59
UAT1N3SM	0.70
NC N2	0.89
NC N3	1.12
NC N4	0.81
NONE	0.89
MEAN	0.74
GRAND MEAN	0.64

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

TABLE	EXTRA	U T1 N	N TIME	NI FORM
SED	0.254	0.090	0.090	0.127

TABLE	U T1 N N TIME	U T1 N NI FORM	N TIME NI FORM	U T1 N N TIME NI FORM
SED	0.127	0.179	0.179	0.254

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78/W/G/1 STACKYARD II
TOTAL OF 4 CUTS DRY MATTER TONNES/HECTARE

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

N TIME	AUTUMN	SPRING	MEAN
U T1 N			
2	6.57	6.92	6.75
3	7.60	8.34	7.97
MEAN	7.08	7.63	7.36

NI FORM	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
U T1 N					
2	6.91	7.48	6.35	6.24	6.75
3	8.16	8.24	7.50	7.98	7.97
MEAN	7.54	7.86	6.93	7.11	7.36

NI FORM	NONE	NITRAPYR	SOD TRI	NIT CS	MEAN
N TIME					
AUTUMN	7.15	7.61	6.86	6.72	7.08
SPRING	7.93	8.11	6.99	7.50	7.63
MEAN	7.54	7.86	6.93	7.11	7.36

	NI FORM	NONE	NITRAPYR	SOD TRI	NIT CS
U T1 N	N TIME				
2	AUTUMN	6.56	7.42	6.36	5.92
	SPRING	7.26	7.54	6.35	6.55
3	AUTUMN	7.74	7.79	7.37	7.51
	SPRING	8.59	8.69	7.63	8.45

EXTRA	
UT2 N2A	6.46
UT2 N2S	5.55
UT2 N3A	7.63
UT2 N3S	7.54
UAT1N3SO	8.40
UAT1N3ST	7.63
UAT1N3SN	8.10
UAT1N3SM	8.09
NC N2	7.06
NC N3	9.03
NC N4	8.37
NONE	4.35
MEAN	7.35
GRAND MEAN	7.35

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

TABLE	EXTRA	U T1 N	N TIME	NI FORM
SED	0.813	0.287	0.287	0.406

TABLE	U T1 N N TIME	U T1 N NI FORM	N TIME NI FORM	U T1 N N TIME NI FORM
SED	0.406	0.575	0.575	0.813

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78/W/G/1 STACKYARD II

1ST CUT (31/5/78) DRY MATTER TONNES/HECTARE

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

STRATUM	DF	SE	CV%
BLOCK.WP	27	0.249	9.3

1ST CUT MEAN DM% 19.5

1ST CUT PLOT AREA HARVESTED 0.00104

2ND CUT (12/7/78) DRY MATTER TONNES/HECTARE

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

STRATUM	DF	SE	CV%
BLOCK.WP	27	0.336	11.7

2ND CUT MEAN DM% 24.1

2ND CUT PLOT AREA HARVESTED 0.00104

3RD CUT (18/8/78) DRY MATTER TONNES/HECTARE

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

STRATUM	DF	SE	CV%
BLOCK.WP	27	0.264	22.6

3RD CUT MEAN DM% 21.6

3RD CUT PLOT AREA HARVESTED 0.00104

4TH CUT 826/10/78) DRY MATTER TONNES/HECTARE

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

STRATUM	DF	SE	CV%
BLOCK.WP	27	0.254	39.7

4TH CUT MEAN DM% 25.3

4TH CUT PLOT AREA HARVESTED 0.00097

TOTAL OF 4 CUTS DRY MATTER TONNES/HECTARE

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

STRATUM	DF	SE	CV%
BLOCK.WP	27	0.813	11.1

TOTAL OF 4 CUTS DM% 22.6

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