

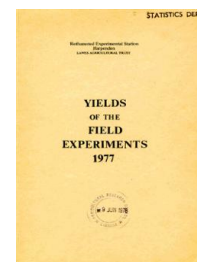
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## Yields of the Field Experiments 1977

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### 77/R/CS/14 N P K to Old Grass - Old Grass

#### Rothamsted Research

Rothamsted Research (1978) *77/R/CS/14 N P K to Old Grass - Old Grass* ; Yields Of The Field Experiments 1977, pp 118 - 131 - DOI: <https://doi.org/10.23637/ERADOC-1-29>

77/R/CS/14

NPK TO OLD GRASS

Object: To study the effects of a range of P and K levels on yields of permanent pasture on sites with much or little P and K in the soil - Park Grass Old Plots 5/1 and 5/2.

Sponsor: A.E. Johnston.

The 13th year, old grass.

For previous years see 'Details' 1973 and 74-76/R/CS/14.

Design: On each site: A single replicate of 2 x 4 x 4 in 2 blocks of 16 plots each, with 2 x 2 x 2 additional plots.

Whole plot dimensions: 1.83 x 10.1.

Treatments:

The experiment is duplicated on sites differing in previous history:-  
PLOT

|          |  |
|----------|--|
| 5/1NORES | Park Grass Plot 5/1: No P or K   |
| 5/2PKRES | Park Grass Plot 5/2: Superphosphate to supply 34 kg P,<br>sulphate of potash to supply 224 kg<br>K, annually 1898-1964 |

On each site, all combinations of:-

1. NPERCUT Nitrogen fertiliser (kg N for each cut):

33.6  
67.2

2. P Phosphate (kg P) as superphosphate annually:

0.0  
16.8  
33.6  
67.2

3. K Potassium (kg K) as potassium chloride annually:

0  
112  
224  
448

77/R/CS/14

together with extra treatments, all combinations of:

1. NPERCUT Nitrogen fertiliser (kg N for each cut):  
33.6  
67.2
2. P Phosphate (kg P) as superphosphate:  
(34)34 33.6 kg P in 1965, none 1966-1976, 33.6 kg P 1977  
(34)67 33.6 kg P in 1965, none 1966-1976, 67.2 kg P 1977
3. K Potassium (kg K) as potassium chloride:  
(56) 56 56 kg K in 1965, none 1966-1976, 56 kg K 1977  
(336)336 336 kg K in 1965, none 1966-1976, 336 kg K 1977

Basal applications: Weedkiller: 2,4-D ('M.A.C. 2,4-D' at 4.9 l in 340 l).

Cultivations, etc.: - Test P and K applied: 2 Dec, 1976. N applied: 14 Mar, 1977, 27 May, 26 July. Cut: 26 May, 25 July, 2 Nov. Weedkiller applied: 24 June.

77/R/CS/14 PLOT 5/1 NORES

EXCLUDING EXTRA TREATMENTS

1ST CUT (26/5/77) DRY MATTER TONNES/HECTARE

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

|         |      |      |      |      |      |
|---------|------|------|------|------|------|
| P       | 0.0  | 16.8 | 33.6 | 67.2 | MEAN |
| NPERCUT |      |      |      |      |      |
| 33.6    | 0.79 | 1.87 | 2.11 | 1.87 | 1.66 |
| 67.2    | 1.06 | 3.02 | 3.66 | 3.20 | 2.73 |
| MEAN    | 0.92 | 2.44 | 2.88 | 2.54 | 2.20 |
| K       | 0    | 112  | 224  | 448  | MEAN |
| NPERCUT |      |      |      |      |      |
| 33.6    | 1.10 | 1.88 | 1.89 | 1.76 | 1.66 |
| 67.2    | 1.18 | 2.98 | 3.32 | 3.46 | 2.73 |
| MEAN    | 1.14 | 2.43 | 2.60 | 2.61 | 2.20 |
| K       | 0    | 112  | 224  | 448  | MEAN |
| P       |      |      |      |      |      |
| 0.0     | 0.72 | 1.04 | 0.93 | 1.01 | 0.92 |
| 16.8    | 1.49 | 2.87 | 2.77 | 2.63 | 2.44 |
| 33.6    | 1.29 | 3.20 | 3.43 | 3.52 | 2.88 |
| 67.2    | 1.08 | 2.50 | 3.28 | 3.28 | 2.54 |
| MEAN    | 1.14 | 2.43 | 2.60 | 2.61 | 2.20 |
|         | K    | 0    | 112  | 224  | 448  |
| NPERCUT | P    |      |      |      |      |
| 33.6    | 0.0  | 0.80 | 0.73 | 0.74 | 0.90 |
|         | 16.8 | 1.26 | 2.10 | 1.91 | 2.20 |
|         | 33.6 | 1.11 | 2.87 | 2.41 | 2.04 |
|         | 67.2 | 1.25 | 1.80 | 2.50 | 1.92 |
| 67.2    | 0.0  | 0.63 | 1.35 | 1.12 | 1.13 |
|         | 16.8 | 1.72 | 3.64 | 3.63 | 3.07 |
|         | 33.6 | 1.46 | 3.72 | 4.46 | 5.01 |
|         | 67.2 | 0.92 | 3.20 | 4.06 | 4.64 |

1ST CUT MEAN DM% 22.7

77/R/CS/14 PLCT 5/1 NORES

EXCLUDING EXTRA TREATMENTS

2ND CUT (25/7/77) DRY MATTER TONNES/HECTARE

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

|         |      |      |      |      |      |
|---------|------|------|------|------|------|
| P       | 0.0  | 16.8 | 33.6 | 67.2 | MEAN |
| NPERCUT |      |      |      |      |      |
| 33.6    | 2.39 | 2.58 | 2.48 | 2.55 | 2.50 |
| 67.2    | 2.62 | 3.06 | 3.20 | 3.44 | 3.08 |
| MEAN    | 2.50 | 2.82 | 2.84 | 2.99 | 2.79 |
| K       | 0    | 112  | 224  | 448  | MEAN |
| NPERCUT |      |      |      |      |      |
| 33.6    | 2.03 | 2.48 | 2.62 | 2.85 | 2.50 |
| 67.2    | 2.40 | 3.22 | 3.41 | 3.30 | 3.08 |
| MEAN    | 2.22 | 2.85 | 3.01 | 3.07 | 2.79 |
| K       | 0    | 112  | 224  | 448  | MEAN |
| P       |      |      |      |      |      |
| 0.0     | 1.38 | 2.66 | 3.07 | 2.89 | 2.50 |
| 16.8    | 2.39 | 2.85 | 3.12 | 2.92 | 2.82 |
| 33.6    | 2.63 | 2.76 | 2.95 | 3.01 | 2.84 |
| 67.2    | 2.47 | 3.13 | 2.90 | 3.47 | 2.99 |
| MEAN    | 2.22 | 2.85 | 3.01 | 3.07 | 2.79 |
|         | K    | 0    | 112  | 224  | 448  |
| NPERCUT | P    |      |      |      |      |
| 33.6    | 0.0  | 1.39 | 2.13 | 2.81 | 3.21 |
|         | 16.8 | 2.31 | 2.73 | 2.53 | 2.74 |
|         | 33.6 | 2.36 | 2.47 | 2.39 | 2.68 |
|         | 67.2 | 2.07 | 2.61 | 2.75 | 2.76 |
| 67.2    | 0.0  | 1.37 | 3.19 | 3.33 | 2.57 |
|         | 16.8 | 2.47 | 2.97 | 3.72 | 3.10 |
|         | 33.6 | 2.89 | 3.04 | 3.52 | 3.35 |
|         | 67.2 | 2.86 | 3.66 | 3.06 | 4.18 |

2ND CUT MEAN DM% 24.6

77/R/CS/14 PLOT 5/1 NORES  
 EXCLUDING EXTRA TREATMENTS  
 3RD CUT (2/11/77) DRY MATTER TONNES/HECTARE

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

|         |      |      |      |      |      |
|---------|------|------|------|------|------|
| P       | 0.0  | 16.8 | 33.6 | 67.2 | MEAN |
| NPERCUT |      |      |      |      |      |
| 33.6    | 1.99 | 2.07 | 1.61 | 1.96 | 1.91 |
| 67.2    | 2.00 | 2.57 | 2.04 | 2.44 | 2.26 |
| MEAN    | 1.99 | 2.32 | 1.82 | 2.20 | 2.08 |
| K       | 0    | 112  | 224  | 448  | MEAN |
| NPERCUT |      |      |      |      |      |
| 33.6    | 1.57 | 1.64 | 2.31 | 2.12 | 1.91 |
| 67.2    | 1.60 | 2.51 | 2.66 | 2.27 | 2.26 |
| MEAN    | 1.58 | 2.08 | 2.48 | 2.19 | 2.08 |
| K       | 0    | 112  | 224  | 448  | MEAN |
| P       |      |      |      |      |      |
| 0.0     | 1.42 | 1.88 | 2.52 | 2.15 | 1.99 |
| 16.8    | 1.72 | 2.17 | 2.65 | 2.75 | 2.32 |
| 33.6    | 1.24 | 2.21 | 2.00 | 1.85 | 1.82 |
| 67.2    | 1.96 | 2.04 | 2.77 | 2.03 | 2.20 |
| MEAN    | 1.58 | 2.08 | 2.48 | 2.19 | 2.08 |
|         | K    | 0    | 112  | 224  | 448  |
| NPERCUT | P    |      |      |      |      |
| 33.6    | 0.0  | 1.20 | 1.60 | 2.99 | 2.16 |
|         | 16.8 | 2.02 | 2.01 | 2.09 | 2.17 |
|         | 33.6 | 1.24 | 1.56 | 1.92 | 1.72 |
|         | 67.2 | 1.80 | 1.39 | 2.23 | 2.41 |
| 67.2    | 0.0  | 1.63 | 2.17 | 2.05 | 2.13 |
|         | 16.8 | 1.42 | 2.32 | 3.21 | 3.34 |
|         | 33.6 | 1.24 | 2.86 | 2.08 | 1.97 |
|         | 67.2 | 2.11 | 2.70 | 3.30 | 1.64 |

3RD CUT MEAN DM% 21.8

77/R/CS/14 PLOT 5/1 NORES

EXCLUDING EXTRA TREATMENTS

TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

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

|         |      |      |      |       |       |
|---------|------|------|------|-------|-------|
| P       | 0.0  | 16.8 | 33.6 | 67.2  | MEAN  |
| NPERCUT |      |      |      |       |       |
| 33.6    | 5.16 | 6.52 | 6.19 | 6.37  | 6.06  |
| 67.2    | 5.67 | 8.65 | 8.90 | 9.08  | 8.08  |
| MEAN    | 5.42 | 7.58 | 7.55 | 7.73  | 7.07  |
| K       | 0    | 112  | 224  | 448   | MEAN  |
| NPERCUT |      |      |      |       |       |
| 33.6    | 4.70 | 6.00 | 6.82 | 6.73  | 6.06  |
| 67.2    | 5.18 | 8.71 | 9.38 | 9.03  | 8.08  |
| MEAN    | 4.94 | 7.35 | 8.10 | 7.88  | 7.07  |
| K       | 0    | 112  | 224  | 448   | MEAN  |
| P       |      |      |      |       |       |
| 0.0     | 3.52 | 5.58 | 6.52 | 6.05  | 5.42  |
| 16.8    | 5.60 | 7.89 | 8.54 | 8.31  | 7.58  |
| 33.6    | 5.15 | 8.27 | 8.39 | 8.38  | 7.55  |
| 67.2    | 5.51 | 7.68 | 8.95 | 8.78  | 7.73  |
| MEAN    | 4.94 | 7.35 | 8.10 | 7.88  | 7.07  |
|         | K    | 0    | 112  | 224   | 448   |
| NPERCUT | P    |      |      |       |       |
| 33.6    | 0.0  | 3.39 | 4.45 | 6.54  | 6.27  |
|         | 16.8 | 5.58 | 6.85 | 6.52  | 7.11  |
|         | 33.6 | 4.71 | 6.91 | 6.72  | 6.44  |
|         | 67.2 | 5.12 | 5.79 | 7.48  | 7.09  |
| 67.2    | 0.0  | 3.64 | 6.71 | 6.50  | 5.83  |
|         | 16.8 | 5.61 | 8.94 | 10.56 | 9.51  |
|         | 33.6 | 5.60 | 9.62 | 10.05 | 10.33 |
|         | 67.2 | 5.89 | 9.56 | 10.42 | 10.46 |

TOTAL OF 3 CUTS MEAN DM% 23.0

PLOT AREA HARVESTED 0.00086

77/R/CS/14 PLOT 5/1 NORES

EXTRA TREATMENTS

1ST CUT (26/5/77) DRY MATTER TONNES/HECTARE

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

| P       | (34)34 | (34)67 | MEAN |
|---------|--------|--------|------|
| NPERCUT |        |        |      |
| 33.6    | 2.24   | 1.78   | 2.01 |
| 67.2    | 2.38   | 2.84   | 2.61 |
| MEAN    | 2.31   | 2.31   | 2.31 |

| K       | (56)56 | (336)336 | MEAN |
|---------|--------|----------|------|
| NPERCUT |        |          |      |
| 33.6    | 2.10   | 1.93     | 2.01 |
| 67.2    | 2.25   | 2.97     | 2.61 |
| MEAN    | 2.17   | 2.45     | 2.31 |

| K      | (56)56 | (336)336 | MEAN |
|--------|--------|----------|------|
| P      |        |          |      |
| (34)34 | 2.09   | 2.54     | 2.31 |
| (34)67 | 2.26   | 2.36     | 2.31 |
| MEAN   | 2.17   | 2.45     | 2.31 |

1ST CUT MEAN DM% 24.4

2ND CUT (25/7/77) DRY MATTER TONNES/HECTARE

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

| P       | (34)34 | (34)67 | MEAN |
|---------|--------|--------|------|
| NPERCUT |        |        |      |
| 33.6    | 3.27   | 2.49   | 2.88 |
| 67.2    | 3.44   | 3.30   | 3.37 |
| MEAN    | 3.35   | 2.90   | 3.13 |

| K       | (56)56 | (336)336 | MEAN |
|---------|--------|----------|------|
| NPERCUT |        |          |      |
| 33.6    | 2.46   | 3.29     | 2.88 |
| 67.2    | 3.46   | 3.28     | 3.37 |
| MEAN    | 2.96   | 3.29     | 3.13 |

| K      | (56)56 | (336)336 | MEAN |
|--------|--------|----------|------|
| P      |        |          |      |
| (34)34 | 3.04   | 3.67     | 3.35 |
| (34)67 | 2.89   | 2.91     | 2.90 |
| MEAN   | 2.96   | 3.29     | 3.13 |

2ND CUT MEAN DM% 25.2



77/R/CS/14 PLOT 5/1 NORES

EXTRA TREATMENTS

3RD CUT (2/11/77) DRY MATTER TONNES/HECTARE

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

| P       | (34)34 | (34)67   | MEAN |
|---------|--------|----------|------|
| NPERCUT |        |          |      |
| 33.6    | 2.32   | 2.33     | 2.32 |
| 67.2    | 3.07   | 3.44     | 3.25 |
| MEAN    | 2.69   | 2.89     | 2.79 |
| K       | (56)56 | (336)336 | MEAN |
| NPERCUT |        |          |      |
| 33.6    | 2.00   | 2.65     | 2.32 |
| 67.2    | 3.04   | 3.46     | 3.25 |
| MEAN    | 2.52   | 3.06     | 2.79 |
| K       | (56)56 | (336)336 | MEAN |
| P       |        |          |      |
| (34)34  | 2.36   | 3.02     | 2.69 |
| (34)67  | 2.68   | 3.09     | 2.89 |
| MEAN    | 2.52   | 3.06     | 2.79 |

3RD CUT MEAN DM% 23.0

TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

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

| P       | (34)34 | (34)67   | MEAN |
|---------|--------|----------|------|
| NPERCUT |        |          |      |
| 33.6    | 7.82   | 6.60     | 7.21 |
| 67.2    | 8.89   | 9.59     | 9.24 |
| MEAN    | 8.36   | 8.09     | 8.23 |
| K       | (56)56 | (336)336 | MEAN |
| NPERCUT |        |          |      |
| 33.6    | 6.56   | 7.87     | 7.21 |
| 67.2    | 8.76   | 9.71     | 9.24 |
| MEAN    | 7.66   | 8.79     | 8.23 |
| K       | (56)56 | (336)336 | MEAN |
| P       |        |          |      |
| (34)34  | 7.49   | 9.22     | 8.36 |
| (34)67  | 7.83   | 8.36     | 8.09 |
| MEAN    | 7.66   | 8.79     | 8.23 |

TOTAL OF 3 CUTS MEAN DM% 24.2

PLOT AREA HARVESTED 0.00086

77/R/CS/14 PLOT 5/2 PKRES

EXCLUDING EXTRA TREATMENTS

1ST CUT (26/5/77) DRY MATTER TONNES/HECTARE

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

|         |      |      |      |      |      |
|---------|------|------|------|------|------|
| P       | 0.0  | 16.8 | 33.6 | 67.2 | MEAN |
| NPERCUT |      |      |      |      |      |
| 33.6    | 2.64 | 2.55 | 2.40 | 1.98 | 2.39 |
| 67.2    | 4.68 | 4.74 | 4.66 | 4.18 | 4.57 |
| MEAN    | 3.66 | 3.65 | 3.53 | 3.08 | 3.48 |
| K       | 0    | 112  | 224  | 448  | MEAN |
| NPERCUT |      |      |      |      |      |
| 33.6    | 2.37 | 2.55 | 2.29 | 2.37 | 2.39 |
| 67.2    | 4.54 | 4.73 | 4.64 | 4.34 | 4.57 |
| MEAN    | 3.46 | 3.64 | 3.47 | 3.35 | 3.48 |
| K       | 0    | 112  | 224  | 448  | MEAN |
| P       |      |      |      |      |      |
| 0.0     | 3.36 | 3.98 | 3.82 | 3.48 | 3.66 |
| 16.8    | 3.48 | 3.80 | 3.52 | 3.78 | 3.65 |
| 33.6    | 3.81 | 3.84 | 3.51 | 2.96 | 3.53 |
| 67.2    | 3.17 | 2.94 | 3.01 | 3.21 | 3.08 |
| MEAN    | 3.46 | 3.64 | 3.47 | 3.35 | 3.48 |
| NPERCUT | K    | 0    | 112  | 224  | 448  |
|         | P    |      |      |      |      |
| 33.6    | 0.0  | 2.35 | 2.98 | 2.66 | 2.58 |
|         | 16.8 | 2.37 | 2.54 | 2.63 | 2.67 |
|         | 33.6 | 2.48 | 2.78 | 2.08 | 2.24 |
|         | 67.2 | 2.27 | 1.88 | 1.81 | 1.99 |
| 67.2    | 0.0  | 4.37 | 4.98 | 4.99 | 4.38 |
|         | 16.8 | 4.59 | 5.06 | 4.42 | 4.88 |
|         | 33.6 | 5.13 | 4.91 | 4.95 | 3.67 |
|         | 67.2 | 4.08 | 3.99 | 4.22 | 4.43 |

1ST CUT MEAN DM% 20.3

77/R/CS/14 PLOT 5/2 PKRES

EXCLUDING EXTRA TREATMENTS

2ND CUT (25/7/77) DRY MATTER TONNES/HECTARE

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

|         |      |      |      |      |      |
|---------|------|------|------|------|------|
| P       | 0.0  | 16.8 | 33.6 | 67.2 | MEAN |
| NPERCUT |      |      |      |      |      |
| 33.6    | 2.92 | 2.66 | 2.80 | 2.77 | 2.79 |
| 67.2    | 3.59 | 3.74 | 3.71 | 3.81 | 3.71 |
| MEAN    | 3.26 | 3.20 | 3.26 | 3.29 | 3.25 |
| K       | 0    | 112  | 224  | 448  | MEAN |
| NPERCUT |      |      |      |      |      |
| 33.6    | 2.75 | 2.85 | 2.88 | 2.67 | 2.79 |
| 67.2    | 3.83 | 3.43 | 3.72 | 3.87 | 3.71 |
| MEAN    | 3.29 | 3.14 | 3.30 | 3.27 | 3.25 |
| K       | 0    | 112  | 224  | 448  | MEAN |
| P       |      |      |      |      |      |
| 0.0     | 3.28 | 2.90 | 3.44 | 3.40 | 3.26 |
| 16.8    | 3.34 | 2.98 | 3.21 | 3.29 | 3.20 |
| 33.6    | 3.18 | 3.47 | 3.27 | 3.11 | 3.26 |
| 67.2    | 3.36 | 3.23 | 3.28 | 3.29 | 3.29 |
| MEAN    | 3.29 | 3.14 | 3.30 | 3.27 | 3.25 |
|         | K    | 0    | 112  | 224  | 448  |
| NPERCUT | P    |      |      |      |      |
| 33.6    | 0.0  | 2.73 | 2.95 | 3.02 | 2.98 |
|         | 16.8 | 2.80 | 2.63 | 2.75 | 2.48 |
|         | 33.6 | 2.50 | 3.07 | 2.92 | 2.71 |
|         | 67.2 | 2.98 | 2.76 | 2.84 | 2.50 |
| 67.2    | 0.0  | 3.83 | 2.86 | 3.85 | 3.82 |
|         | 16.8 | 3.88 | 3.32 | 3.67 | 4.10 |
|         | 33.6 | 3.86 | 3.66 | 3.62 | 3.50 |
|         | 67.2 | 3.75 | 3.70 | 3.72 | 4.07 |

2ND CUT MEAN DM% 26.9

77/R/CS/14 PLOT 5/2 PKRES  
 EXCLUDING EXTRA TREATMENTS  
 3RD CUT (2/11/77) DRY MATTER TONNES/HECTARE

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

|         |      |      |      |      |      |
|---------|------|------|------|------|------|
| P       | 0.0  | 16.8 | 33.6 | 67.2 | MEAN |
| NPERCUT |      |      |      |      |      |
| 33.6    | 2.02 | 1.72 | 1.96 | 1.94 | 1.91 |
| 67.2    | 2.58 | 2.79 | 2.52 | 2.77 | 2.66 |
| MEAN    | 2.30 | 2.26 | 2.24 | 2.36 | 2.29 |
| K       | 0    | 112  | 224  | 448  | MEAN |
| NPERCUT |      |      |      |      |      |
| 33.6    | 1.98 | 2.05 | 1.83 | 1.78 | 1.91 |
| 67.2    | 2.91 | 2.55 | 2.55 | 2.64 | 2.66 |
| MEAN    | 2.45 | 2.30 | 2.19 | 2.21 | 2.29 |
| K       | 0    | 112  | 224  | 448  | MEAN |
| P       |      |      |      |      |      |
| 0.0     | 2.32 | 2.63 | 2.15 | 2.10 | 2.30 |
| 16.8    | 2.55 | 2.19 | 2.29 | 1.99 | 2.26 |
| 33.6    | 2.27 | 2.31 | 2.04 | 2.34 | 2.24 |
| 67.2    | 2.65 | 2.08 | 2.28 | 2.41 | 2.36 |
| MEAN    | 2.45 | 2.30 | 2.19 | 2.21 | 2.29 |
|         | K    | 0    | 112  | 224  | 448  |
| NPERCUT | P    |      |      |      |      |
| 33.6    | 0.0  | 1.98 | 2.45 | 1.73 | 1.92 |
|         | 16.8 | 1.68 | 1.69 | 1.74 | 1.78 |
|         | 33.6 | 1.97 | 2.18 | 1.87 | 1.82 |
|         | 67.2 | 2.30 | 1.89 | 1.97 | 1.61 |
| 67.2    | 0.0  | 2.66 | 2.81 | 2.56 | 2.27 |
|         | 16.8 | 3.42 | 2.69 | 2.83 | 2.21 |
|         | 33.6 | 2.56 | 2.44 | 2.20 | 2.87 |
|         | 67.2 | 3.01 | 2.27 | 2.59 | 3.20 |

3RD CUT MEAN DM% 21.2

77/R/CS/14 PLOT 5/2 PKRES

EXCLUDING EXTRA TREATMENTS

TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

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

|         |       |       |       |       |       |
|---------|-------|-------|-------|-------|-------|
| P       | 0.0   | 16.8  | 33.6  | 67.2  | MEAN  |
| NPERCUT |       |       |       |       |       |
| 33.6    | 7.58  | 6.94  | 7.15  | 6.70  | 7.09  |
| 67.2    | 10.85 | 11.27 | 10.89 | 10.76 | 10.94 |
| MEAN    | 9.22  | 9.10  | 9.02  | 8.73  | 9.02  |
| K       | 0     | 112   | 224   | 448   | MEAN  |
| NPERCUT |       |       |       |       |       |
| 33.6    | 7.10  | 7.45  | 7.00  | 6.82  | 7.09  |
| 67.2    | 11.29 | 10.72 | 10.91 | 10.85 | 10.94 |
| MEAN    | 9.20  | 9.09  | 8.95  | 8.83  | 9.02  |
| K       | 0     | 112   | 224   | 448   | MEAN  |
| P       |       |       |       |       |       |
| 0.0     | 8.97  | 9.52  | 9.40  | 8.98  | 9.22  |
| 16.8    | 9.38  | 8.96  | 9.02  | 9.06  | 9.10  |
| 33.6    | 9.25  | 9.62  | 8.82  | 8.40  | 9.02  |
| 67.2    | 9.19  | 8.25  | 8.58  | 8.90  | 8.73  |
| MEAN    | 9.20  | 9.09  | 8.95  | 8.83  | 9.02  |
|         | K     | 0     | 112   | 224   | 448   |
| NPERCUT | P     |       |       |       |       |
| 33.6    | 0.0   | 7.06  | 8.39  | 7.41  | 7.48  |
|         | 16.8  | 6.85  | 6.86  | 7.12  | 6.93  |
|         | 33.6  | 6.95  | 8.03  | 6.86  | 6.77  |
|         | 67.2  | 7.54  | 6.53  | 6.62  | 6.10  |
| 67.2    | 0.0   | 10.87 | 10.65 | 11.40 | 10.47 |
|         | 16.8  | 11.90 | 11.07 | 10.92 | 11.19 |
|         | 33.6  | 11.55 | 11.21 | 10.77 | 10.04 |
|         | 67.2  | 10.83 | 9.96  | 10.53 | 11.71 |

TOTAL OF 3 CUTS MEAN DM% 22.8

PLOT AREA HARVESTED 0.00086

77/R/CS/14 PLOT 5/2 PKRES

EXTRA TREATMENTS

1ST CUT (26/5/77) DRY MATTER TONNES/HECTARE

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

| P       | (34)34 | (34)67   | MEAN |
|---------|--------|----------|------|
| NPERCUT |        |          |      |
| 33.6    | 2.96   | 2.65     | 2.80 |
| 67.2    | 4.77   | 5.25     | 5.01 |
| MEAN    | 3.86   | 3.95     | 3.91 |
| K       | (56)56 | (336)336 | MEAN |
| NPERCUT |        |          |      |
| 33.6    | 2.74   | 2.87     | 2.80 |
| 67.2    | 5.02   | 5.00     | 5.01 |
| MEAN    | 3.88   | 3.93     | 3.91 |
| K       | (56)56 | (336)336 | MEAN |
| P       |        |          |      |
| (34)34  | 3.94   | 3.79     | 3.86 |
| (34)67  | 3.82   | 4.08     | 3.95 |
| MEAN    | 3.88   | 3.93     | 3.91 |

1ST CUT MEAN DM% 20.1

2ND CUT (25/7/77) DRY MATTER TONNES/HECTARE

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

| P       | (34)34 | (34)67   | MEAN |
|---------|--------|----------|------|
| NPERCUT |        |          |      |
| 33.6    | 3.09   | 2.72     | 2.90 |
| 67.2    | 4.04   | 3.62     | 3.83 |
| MEAN    | 3.56   | 3.17     | 3.37 |
| K       | (56)56 | (336)336 | MEAN |
| NPERCUT |        |          |      |
| 33.6    | 2.67   | 3.13     | 2.90 |
| 67.2    | 3.54   | 4.12     | 3.83 |
| MEAN    | 3.11   | 3.63     | 3.37 |
| K       | (56)56 | (336)336 | MEAN |
| P       |        |          |      |
| (34)34  | 3.38   | 3.74     | 3.56 |
| (34)67  | 2.83   | 3.51     | 3.17 |
| MEAN    | 3.11   | 3.63     | 3.37 |

2ND CUT MEAN DM% 27.0

77/R/CS/14 PLOT 5/2 PKRES

EXTRA TREATMENTS

3RD CUT (2/11/77) DRY MATTER TONNES/HECTARE

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

| P       | (34)34 | (34)67 | MEAN |
|---------|--------|--------|------|
| NPERCUT |        |        |      |
| 33.6    | 1.90   | 2.03   | 1.96 |
| 67.2    | 2.61   | 2.75   | 2.68 |
| MEAN    | 2.25   | 2.39   | 2.32 |

| K       | (56)56 | (336)336 | MEAN |
|---------|--------|----------|------|
| NPERCUT |        |          |      |
| 33.6    | 1.87   | 2.06     | 1.96 |
| 67.2    | 2.79   | 2.57     | 2.68 |
| MEAN    | 2.33   | 2.31     | 2.32 |

| K      | (56)56 | (336)336 | MEAN |
|--------|--------|----------|------|
| P      |        |          |      |
| (34)34 | 2.40   | 2.11     | 2.25 |
| (34)67 | 2.26   | 2.52     | 2.39 |
| MEAN   | 2.33   | 2.31     | 2.32 |

3RD CUT MEAN DM% 21.3

TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

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

| P       | (34)34 | (34)67 | MEAN  |
|---------|--------|--------|-------|
| NPERCUT |        |        |       |
| 33.6    | 7.95   | 7.39   | 7.67  |
| 67.2    | 11.41  | 11.62  | 11.52 |
| MEAN    | 9.68   | 9.51   | 9.59  |

| K       | (56)56 | (336)336 | MEAN  |
|---------|--------|----------|-------|
| NPERCUT |        |          |       |
| 33.6    | 7.28   | 8.06     | 7.67  |
| 67.2    | 11.35  | 11.69    | 11.52 |
| MEAN    | 9.32   | 9.87     | 9.59  |

| K      | (56)56 | (336)336 | MEAN |
|--------|--------|----------|------|
| P      |        |          |      |
| (34)34 | 9.72   | 9.64     | 9.68 |
| (34)67 | 8.91   | 10.11    | 9.51 |
| MEAN   | 9.32   | 9.87     | 9.59 |

TOTAL OF 3 CUTS MEAN DM% 22.8

PLOT AREA HARVESTED 0.00086