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## Yields of the Field Experiments 1978

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### 78/R/CS/10 and 79/W/CS/10 Long-term Liming - Barley

#### Rothamsted Research

Rothamsted Research (1979) *78/R/CS/10 and 79/W/CS/10 Long-term Liming - Barley* ; Yields Of The Field Experiments 1978, pp 113 - 123 - DOI: <https://doi.org/10.23637/ERADOC-1-30>

78/R/CS/10 and 78/W/CS/10

LONG TERM LIMING

Object: To study the effects of different amounts of lime on the yields of a sequence of crops. The effects of P, K and Mg are also studied - Rothamsted (R) Sawyers I and Woburn (W) Stackyard C.

Sponsor: J. Bolton.

The 17th year, spring barley.

For previous years see 'Details' 1967, 1973 and 74-77/R&W/CS/10.

Design: 2 randomised blocks of 16 plots, split into 2.

Whole plot dimensions: 6.40 x 18.3.

Treatments: All combinations of:-

Whole plots

1. LIME Ground chalk (tonnes CaCO<sub>3</sub>) (total applied 1962-63):

| R  | W  |
|----|----|
| 0  | 0  |
| 5  | 5  |
| 10 | 12 |
| 20 | 19 |

2. P205 Phosphate, applied cumulatively to previous dressings, as superphosphate (kg P205):

0  
63

3. K20 Potassium, applied cumulatively to previous dressings, as muriate of potash (kg K20):

0  
126

Sub plots

4. MG Magnesium, applied cumulatively in 1974, 1976 and 1977 as Epsom salts and in 1978 as kieserite (kg Mg):

0  
112

Basal applications:

Sawyers I (R): Manures: N at 80 kg, combine drilled. Weedkillers: Dicamba with mecoprop and MCPA ('Banlene Plus' at 4.9 l in 220 l).

Stackyard C (W): Manures: N at 130 kg, combine drilled. Weedkillers: Paraquat at 0.56 kg ion in 220 l. Mecoprop, bromoxynil and ioxynil ('Brittox' at 2.5 kg in 280 l). Fungicide: Tridemorph at 0.53 kg in 280 l.

NOTE: Paraquat was applied on Stackyard C (W) as a spot treatment to control areas of couch grass (*Agropyron repens*).

78/R/CS/10 and 78/W/CS/10

Seed: Sawyers I (R) and Stackyard C (W): Porthos, dressed with ethirimol, sown at 160 kg.

Cultivations, etc.:-

Sawyers I (R): Ploughed: 29 Nov, 1977. Spring-tine cultivated: 7 Apr, 1978.

Treatment P, K and Mg applied, power harrowed, seed sown: 19 Apr.

Weedkiller applied: 8 June. Combine harvested: 8 Sept.

Stackyard C (W): Paraquat applied: 23 Sept, 1977. Ploughed: 30 Sept.

Spring-tine cultivated: 9 Mar. P, K and Mg applied, spring-tine cultivated with crumbler attached: 13 Mar. Seed sown: 15 Mar. Spring-tine cultivated with crumbler attached, seed resown because of bird damage: 3 Apr. Weedkiller and fungicide applied: 15 May. Combine harvested: 23 Aug.

NOTES: (1) At both Rothamsted and Woburn measurable yields were obtained from treatment LIME 0 only in combinations with P205 63 and K20 126 (one replicate at Rothamsted, two replicates at Woburn). Grain yields, tonnes/hectare from these combinations were:

|                               | Rothamsted | Woburn |
|-------------------------------|------------|--------|
| LIME 0 P205 63 K20 126 MG 0   | 1.51       | 1.05   |
| LIME 0 P205 63 K20 126 MG 112 | 1.59       | 2.13   |

These figures have been excluded from the main analysis.

(2) At Rothamsted only, no measurable yields were obtained from one of the replicates of certain combinations of LIME 5 with the other treatments. Combinations affected were all those of P205 0 with K20 0 and 126 and MG 0 and 112 and also the single combination P205 63, K20 0, MG 0. Yields from the remainder are presented in the four-way tables but have been excluded from the analysis.

78/R/CS/10 SAWYERS I(R)

GRAIN TONNES/HECTARE

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

|      |      |      |      |
|------|------|------|------|
| P205 | 0    | 63   | MEAN |
| LIME |      |      |      |
| 10   | 3.50 | 4.52 | 4.01 |
| 20   | 3.55 | 4.84 | 4.20 |
| MEAN | 3.52 | 4.68 | 4.10 |
| K20  | 0    | 126  | MEAN |
| LIME |      |      |      |
| 10   | 3.60 | 4.42 | 4.01 |
| 20   | 3.90 | 4.49 | 4.20 |
| MEAN | 3.75 | 4.45 | 4.10 |
| K20  | 0    | 126  | MEAN |
| P205 |      |      |      |
| 0    | 3.10 | 3.94 | 3.52 |
| 63   | 4.40 | 4.96 | 4.68 |
| MEAN | 3.75 | 4.45 | 4.10 |

78/R/CS/10 SAWYERS I(R)

GRAIN TONNES/HECTARE

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

|      |      |      |      |      |
|------|------|------|------|------|
| MG   | 0    | 112  | MEAN |      |
| LIME |      |      |      |      |
| 10   | 3.89 | 4.13 | 4.01 |      |
| 20   | 4.18 | 4.21 | 4.20 |      |
| MEAN | 4.03 | 4.17 | 4.10 |      |
| MG   | 0    | 112  | MEAN |      |
| P205 |      |      |      |      |
| 0    | 3.39 | 3.65 | 3.52 |      |
| 63   | 4.67 | 4.69 | 4.68 |      |
| MEAN | 4.03 | 4.17 | 4.10 |      |
| MG   | 0    | 112  | MEAN |      |
| K20  |      |      |      |      |
| 0    | 3.62 | 3.88 | 3.75 |      |
| 126  | 4.44 | 4.46 | 4.45 |      |
| MEAN | 4.03 | 4.17 | 4.10 |      |
| P205 | 0    |      | 63   |      |
| K20  | 0    | 126  | 0    | 126  |
| LIME |      |      |      |      |
| 10   | 3.11 | 3.88 | 4.08 | 4.95 |
| 20   | 3.09 | 4.01 | 4.72 | 4.97 |
| P205 | 0    |      | 63   |      |
| MG   | 0    | 112  | 0    | 112  |
| LIME |      |      |      |      |
| 10   | 3.27 | 3.73 | 4.51 | 4.52 |
| 20   | 3.52 | 3.58 | 4.84 | 4.85 |
| K20  | 0    |      | 126  |      |
| MG   | 0    | 112  | 0    | 112  |
| LIME |      |      |      |      |
| 10   | 3.32 | 3.87 | 4.45 | 4.38 |
| 20   | 3.92 | 3.89 | 4.44 | 4.54 |
| K20  | 0    |      | 126  |      |
| MG   | 0    | 112  | 0    | 112  |
| P205 |      |      |      |      |
| 0    | 2.87 | 3.33 | 3.91 | 3.98 |
| 63   | 4.37 | 4.43 | 4.98 | 4.94 |

78/R/CS/10 SAWYERS I(R)

GRAIN TONNES/HECTARE

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

|      | K20  | 0    | 126  |      |
|------|------|------|------|------|
|      | MG   | 0    | 112  | 0    |
| LIME | P205 |      |      | 112  |
| 5    | 0    | 1.34 | 1.73 | 0.78 |
| 5    | 63   | 1.70 | 2.42 | 4.51 |
| 10   | 0    | 2.73 | 3.50 | 3.80 |
| 10   | 63   | 3.92 | 4.24 | 5.10 |
| 20   | 0    | 3.02 | 3.16 | 4.02 |
| 20   | 63   | 4.82 | 4.62 | 4.86 |

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

| TABLE  | LIME  | P205  | K20   | MG    |
|--|-------|-------|-------|-------|
| SED  | 0.303 | 0.303 | 0.303 | 0.121 |
| TABLE  | LIME  | LIME  | P205  | LIME  |
|  | P205  | K20   | K20   | MG    |
| SED  | 0.428 | 0.428 | 0.428 | 0.326 |
| EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF: |       |       |       |       |
| LIME   |       |       |       | 0.171 |
| TABLE  | P205  | K20   | LIME  | LIME  |
|  | MG    | MG    | P205  | P205  |
|  |       |       | K20   | MG    |
| SED  | 0.326 | 0.326 | 0.605 | 0.461 |
| EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF: |       |       |       |       |
| P205   | 0.171 |       |       |       |
| K20  |       | 0.171 |       |       |
| LIME.P205  |       |       |       | 0.243 |
| TABLE  | LIME  | P205  | LIME* |       |
|  | K20   | K20   | P205  |       |
|  | MG    | MG    | K20   |       |
|  |       |       | MG    |       |
| SED  | 0.461 | 0.461 | 0.652 |       |
| EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF: |       |       |       |       |
| LIME.K20   | 0.243 |       |       |       |
| P205.K20   |       | 0.243 |       |       |
| LIME.P205.K20                                      |       |       | 0.343 |       |

\* DO NOT USE FOR COMPARISONS INVOLVING LIME 5

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

| STRATUM     | DF | SE    | CV%  |
|-------------|----|-------|------|
| BLOCK.WP    | 7  | 0.605 | 14.8 |
| BLOCK.WP.SP | 8  | 0.343 | 8.4  |

GRAIN MEAN DM% 75.0

78/R/CS/10 SAWYERS I(R)

STRAW TONNES/HECTARE

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

|      |      |      |      |
|------|------|------|------|
| P205 | 0    | 63   | MEAN |
| LIME |      |      |      |
| 10   | 1.92 | 2.33 | 2.12 |
| 20   | 2.08 | 2.57 | 2.32 |
| MEAN | 2.00 | 2.45 | 2.22 |
| K20  | 0    | 126  | MEAN |
| LIME |      |      |      |
| 10   | 1.78 | 2.47 | 2.12 |
| 20   | 2.13 | 2.51 | 2.32 |
| MEAN | 1.96 | 2.49 | 2.22 |
| K20  | 0    | 126  | MEAN |
| P205 |      |      |      |
| 0    | 1.64 | 2.35 | 2.00 |
| 63   | 2.27 | 2.63 | 2.45 |
| MEAN | 1.96 | 2.49 | 2.22 |
| MG   | 0    | 112  | MEAN |
| LIME |      |      |      |
| 10   | 2.08 | 2.16 | 2.12 |
| 20   | 2.32 | 2.32 | 2.32 |
| MEAN | 2.20 | 2.24 | 2.22 |
| MG   | 0    | 112  | MEAN |
| P205 |      |      |      |
| 0    | 1.97 | 2.03 | 2.00 |
| 63   | 2.44 | 2.46 | 2.45 |
| MEAN | 2.20 | 2.24 | 2.22 |
| MG   | 0    | 112  | MEAN |
| K20  |      |      |      |
| 0    | 1.87 | 2.05 | 1.96 |
| 126  | 2.54 | 2.44 | 2.49 |
| MEAN | 2.20 | 2.24 | 2.22 |

78/R/CS/10 SAWYERS I(R)

STRAW TONNES/HECTARE

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

|      |      |      |      |      |      |
|------|------|------|------|------|------|
| P205 | 0    |      | 63   |      |      |
| K20  | 0    | 126  | 0    | 126  |      |
| LIME |      |      |      |      |      |
| 10   | 1.56 | 2.27 | 2.00 | 2.66 |      |
| 20   | 1.73 | 2.42 | 2.54 | 2.61 |      |
| P205 | 0    |      | 63   |      |      |
| MG   | 0    | 112  | 0    | 112  |      |
| LIME |      |      |      |      |      |
| 10   | 1.84 | 2.00 | 2.33 | 2.33 |      |
| 20   | 2.10 | 2.05 | 2.55 | 2.59 |      |
| K20  | 0    |      | 126  |      |      |
| MG   | 0    | 112  | 0    | 112  |      |
| LIME |      |      |      |      |      |
| 10   | 1.56 | 2.00 | 2.60 | 2.33 |      |
| 20   | 2.17 | 2.10 | 2.48 | 2.55 |      |
| K20  | 0    |      | 126  |      |      |
| MG   | 0    | 112  | 0    | 112  |      |
| P205 |      |      |      |      |      |
| 0    | 1.56 | 1.73 | 2.37 | 2.32 |      |
| 63   | 2.17 | 2.37 | 2.71 | 2.55 |      |
|      | K20  | 0    |      | 126  |      |
|      | MG   | 0    | 112  | 0    | 112  |
| LIME | P205 |      |      |      |      |
| 5    | 0    | 0.65 | 0.97 | 0.42 | 0.74 |
| 5    | 63   | 0.76 | 1.18 | 2.50 | 2.40 |
| 10   | 0    | 1.28 | 1.83 | 2.39 | 2.16 |
| 10   | 63   | 1.85 | 2.16 | 2.82 | 2.49 |
| 20   | 0    | 1.84 | 1.62 | 2.36 | 2.49 |
| 20   | 63   | 2.50 | 2.57 | 2.61 | 2.61 |

STRAW MEAN DM% 90.7

PLOT AREA HARVESTED 0.00247

78/W/CS/10 STACKYARD C(W)

GRAIN TONNES/HECTARE

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

|      |      |      |      |
|------|------|------|------|
| P205 | 0    | 63   | MEAN |
| LIME |      |      |      |
| 5    | 4.05 | 4.40 | 4.22 |
| 12   | 4.79 | 4.85 | 4.82 |
| 19   | 4.99 | 5.07 | 5.03 |
| MEAN | 4.61 | 4.77 | 4.69 |
| K20  | 0    | 126  | MEAN |
| LIME |      |      |      |
| 5    | 4.14 | 4.30 | 4.22 |
| 12   | 4.55 | 5.10 | 4.82 |
| 19   | 4.61 | 5.45 | 5.03 |
| MEAN | 4.43 | 4.95 | 4.69 |
| K20  | 0    | 126  | MEAN |
| P205 |      |      |      |
| 0    | 4.40 | 4.83 | 4.61 |
| 63   | 4.47 | 5.07 | 4.77 |
| MEAN | 4.44 | 4.95 | 4.69 |
| MG   | 0    | 112  | MEAN |
| LIME |      |      |      |
| 5    | 3.87 | 4.57 | 4.22 |
| 12   | 4.73 | 4.92 | 4.82 |
| 19   | 4.93 | 5.13 | 5.03 |
| MEAN | 4.51 | 4.87 | 4.69 |
| MG   | 0    | 112  | MEAN |
| P205 |      |      |      |
| 0    | 4.40 | 4.82 | 4.61 |
| 63   | 4.62 | 4.93 | 4.77 |
| MEAN | 4.51 | 4.87 | 4.69 |
| MG   | 0    | 112  | MEAN |
| K20  |      |      |      |
| 0    | 4.21 | 4.66 | 4.44 |
| 126  | 4.82 | 5.08 | 4.95 |
| MEAN | 4.51 | 4.87 | 4.69 |



78/W/CS/10 STACKYARD C(W)

GRAIN TONNES/HECTARE

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

|      |      |      |      |      |      |
|------|------|------|------|------|------|
| P205 | 0    |      | 63   |      |      |
| K20  | 0    | 126  | 0    | 126  |      |
| LIME |      |      |      |      |      |
| 5    | 4.12 | 3.97 | 4.16 | 4.63 |      |
| 12   | 4.51 | 5.07 | 4.59 | 5.12 |      |
| 19   | 4.55 | 5.43 | 4.68 | 5.47 |      |
| P205 | 0    |      | 63   |      |      |
| MG   | 0    | 112  | 0    | 112  |      |
| LIME |      |      |      |      |      |
| 5    | 3.58 | 4.52 | 4.16 | 4.63 |      |
| 12   | 4.68 | 4.90 | 4.77 | 4.93 |      |
| 19   | 4.94 | 5.04 | 4.93 | 5.22 |      |
| K20  | 0    |      | 126  |      |      |
| MG   | 0    | 112  | 0    | 112  |      |
| LIME |      |      |      |      |      |
| 5    | 3.80 | 4.48 | 3.94 | 4.67 |      |
| 12   | 4.42 | 4.68 | 5.04 | 5.15 |      |
| 19   | 4.40 | 4.83 | 5.47 | 5.43 |      |
| K20  | 0    |      | 126  |      |      |
| MG   | 0    | 112  | 0    | 112  |      |
| P205 |      |      |      |      |      |
| 0    | 4.17 | 4.62 | 4.64 | 5.02 |      |
| 63   | 4.25 | 4.70 | 4.99 | 5.15 |      |
|      | K20  | 0    |      | 126  |      |
|      | MG   | 0    | 112  | 0    | 112  |
| LIME | P205 |      |      |      |      |
| 5    | 0    | 3.74 | 4.50 | 3.42 | 4.53 |
| 5    | 63   | 3.86 | 4.46 | 4.46 | 4.81 |
| 12   | 0    | 4.39 | 4.63 | 4.97 | 5.17 |
| 12   | 63   | 4.44 | 4.73 | 5.11 | 5.13 |
| 19   | 0    | 4.36 | 4.74 | 5.52 | 5.35 |
| 19   | 63   | 4.43 | 4.92 | 5.42 | 5.52 |

78/W/CS/10 STACKYARD C(W)

GRAIN TONNES/HECTARE

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

| TABLE  | LIME              | P205              | K20                       | MG                 |
|--|-------------------|-------------------|---------------------------|--------------------|
| SED  | 0.190             | 0.155             | 0.155                     | 0.113              |
| TABLE  | LIME<br>P205      | LIME<br>K20       | P205<br>K20               | LIME<br>MG         |
| SED  | 0.269             | 0.269             | 0.220                     | 0.235              |
| EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:<br>LIME     |                   |                   |                           | 0.196              |
| TABLE  | P205<br>MG        | K20<br>MG         | LIME<br>P205<br>K20       | LIME<br>P205<br>MG |
| SED  | 0.192             | 0.192             | 0.381                     | 0.333              |
| EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:<br>P205     | 0.160             |                   |                           |                    |
| K20  |                   | 0.160             |                           |                    |
| LIME.P205  |                   |                   |                           | 0.277              |
| TABLE  | LIME<br>K20<br>MG | P205<br>K20<br>MG | LIME<br>P205<br>K20<br>MG |                    |
| SED  | 0.333             | 0.272             | 0.471                     |                    |
| EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:<br>LIME.K20 | 0.277             |                   |                           |                    |
| P205.K20   |                   | 0.226             |                           |                    |
| LIME.P205.K20  |                   |                   | 0.392                     |                    |

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

| STRATUM     | DF | SE    | CV% |
|-------------|----|-------|-----|
| BLOCK.WP    | 11 | 0.381 | 8.1 |
| BLOCK.WP.SP | 12 | 0.392 | 8.3 |

GRAIN MEAN DM% 77.4

78/W/CS/10 STACKYARD C(W)

STRAW TONNES/HECTARE

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

|      |      |      |      |
|------|------|------|------|
| P205 | 0    | 63   | MEAN |
| LIME |      |      |      |
| 5    | 2.20 | 2.29 | 2.25 |
| 12   | 2.63 | 2.67 | 2.65 |
| 19   | 2.88 | 2.77 | 2.82 |

|      |      |      |      |
|------|------|------|------|
| MEAN | 2.57 | 2.58 | 2.57 |
|------|------|------|------|

|      |      |      |      |
|------|------|------|------|
| K20  | 0    | 126  | MEAN |
| LIME |      |      |      |
| 5    | 2.03 | 2.46 | 2.25 |
| 12   | 2.45 | 2.85 | 2.65 |
| 19   | 2.34 | 3.31 | 2.82 |

|      |      |      |      |
|------|------|------|------|
| MEAN | 2.27 | 2.88 | 2.57 |
|------|------|------|------|

|      |      |      |      |
|------|------|------|------|
| K20  | 0    | 126  | MEAN |
| P205 |      |      |      |
| 0    | 2.19 | 2.94 | 2.57 |
| 63   | 2.35 | 2.81 | 2.58 |

|      |      |      |      |
|------|------|------|------|
| MEAN | 2.27 | 2.88 | 2.57 |
|------|------|------|------|

|      |      |      |      |
|------|------|------|------|
| MG   | 0    | 112  | MEAN |
| LIME |      |      |      |
| 5    | 2.02 | 2.47 | 2.25 |
| 12   | 2.64 | 2.66 | 2.65 |
| 19   | 2.76 | 2.89 | 2.82 |

|      |      |      |      |
|------|------|------|------|
| MEAN | 2.47 | 2.67 | 2.57 |
|------|------|------|------|

|      |      |      |      |
|------|------|------|------|
| MG   | 0    | 112  | MEAN |
| P205 |      |      |      |
| 0    | 2.41 | 2.73 | 2.57 |
| 63   | 2.54 | 2.62 | 2.58 |

|      |      |      |      |
|------|------|------|------|
| MEAN | 2.47 | 2.67 | 2.57 |
|------|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| MG  | 0    | 112  | MEAN |
| K20 |      |      |      |
| 0   | 2.08 | 2.46 | 2.27 |
| 126 | 2.87 | 2.88 | 2.88 |

|      |      |      |      |
|------|------|------|------|
| MEAN | 2.47 | 2.67 | 2.57 |
|------|------|------|------|

78/W/CS/10 STACKYARD C(W)

STRAW TONNES/HECTARE

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

|      |      |      |      |      |      |
|------|------|------|------|------|------|
| P205 | 0    |      | 63   |      |      |
| K20  | 0    | 126  | 0    | 126  |      |
| LIME |      |      |      |      |      |
| 5    | 1.98 | 2.42 | 2.08 | 2.51 |      |
| 12   | 2.37 | 2.88 | 2.52 | 2.82 |      |
| 19   | 2.23 | 3.53 | 2.44 | 3.09 |      |
| P205 | 0    |      | 63   |      |      |
| MG   | 0    | 112  | 0    | 112  |      |
| LIME |      |      |      |      |      |
| 5    | 1.88 | 2.51 | 2.17 | 2.42 |      |
| 12   | 2.58 | 2.67 | 2.69 | 2.65 |      |
| 19   | 2.77 | 3.00 | 2.76 | 2.78 |      |
| K20  | 0    |      | 126  |      |      |
| MG   | 0    | 112  | 0    | 112  |      |
| LIME |      |      |      |      |      |
| 5    | 1.77 | 2.28 | 2.27 | 2.66 |      |
| 12   | 2.37 | 2.53 | 2.90 | 2.80 |      |
| 19   | 2.10 | 2.58 | 3.43 | 3.20 |      |
| K20  | 0    |      | 126  |      |      |
| MG   | 0    | 112  | 0    | 112  |      |
| P205 |      |      |      |      |      |
| 0    | 1.89 | 2.50 | 2.93 | 2.96 |      |
| 63   | 2.27 | 2.43 | 2.81 | 2.81 |      |
|      | K20  | 0    | 126  |      |      |
|      | MG   | 0    | 112  | 0    | 112  |
| LIME | P205 |      |      |      |      |
| 5    | 0    | 1.56 | 2.40 | 2.21 | 2.63 |
| 5    | 63   | 1.99 | 2.17 | 2.34 | 2.68 |
| 12   | 0    | 2.25 | 2.49 | 2.91 | 2.86 |
| 12   | 63   | 2.49 | 2.56 | 2.90 | 2.75 |
| 19   | 0    | 1.86 | 2.60 | 3.67 | 3.39 |
| 19   | 63   | 2.33 | 2.56 | 3.19 | 3.00 |

STRAW MEAN DM% 78.2

SUB PLOT AREA HARVESTED 0.00247