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# **Yields of the Field Experiments 1965**

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# **65/R/AZ/C/12 Row Spacing N and Paraquat - Lucerne 2nd Year**

Rothamsted Research

Rothamsted Research (1966) 65/R/AZ/C/12 Row Spacing N and Paraquat - Lucerne 2nd Year ; Yields Of The Field Experiments 1965, pp 153 - 157 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

65/C/12.1

LUCERNE

(AZ)

Row spacing, N and paraquat, Long Hoos VII, 1965.

For treatments, etc. and the previous year's results see 'Results' 64/C/13. 'Nitro-Chalk' is applied as a top-dressing at the same rates as in 1964 and on the same plots.

Area of each plot: 0.0145. Area harvested: 0.0034.

Cultivations, etc.: Pl treatment sprayed with paraquat at 2 lb ion in 44 gals: Feb 20, 1965. Basal PK compound and 'Nitro-Chalk' applied: Mar 12. Cut 3 times: June 2, July 19, Oct 4. PK applied after first 2 cuts.

Standard errors per plot. Dry matter:

|                  |                        |
|------------------|------------------------|
| 1st cut:         | 3.08 or 7.3% (33 d.f.) |
| 2nd cut:         | 1.46 or 4.5% (33 d.f.) |
| 3rd cut:         | 1.68 or 7.0% (33 d.f.) |
| Total of 3 cuts: | 3.81 or 3.9% (33 d.f.) |

65/c/12.2

SUMMARY OF RESULTS

DRY MATTER

|              | N0           | N1           | N2           | Mean         |
|--------------|--------------|--------------|--------------|--------------|
| 1ST CUT      |              |              |              |              |
| C            |              | (±1.09)      |              | (±0.63)      |
| W            | 42.8<br>40.1 | 45.6<br>42.8 | 43.6<br>39.3 | 44.0<br>40.7 |
| Mean (±0.77) | 41.4         | 44.2         | 41.4         | 42.3         |
| (±1.09)      |              |              |              |              |
| P0           | 43.7         | 45.1         | 43.9         | 44.2         |
| P1           | 39.2         | 43.2         | 39.0         | 40.5         |
|              | C            | W            |              |              |
| (±0.89)      |              |              |              |              |
| P0           | 45.6         | 42.8         |              |              |
| P1           | 42.3         | 38.6         |              |              |

Mean D.M.%: 16.2

65/c/12.3

DRY MATTER

|              | NO           | N1           | N2           | Mean                    |
|--------------|--------------|--------------|--------------|-------------------------|
| 2ND CUT      |              |              |              |                         |
| C<br>W       | 32.6<br>31.1 | 33.2<br>32.1 | 32.7<br>32.1 | (±0.30)<br>32.8<br>31.8 |
| Mean (±0.36) | 31.8         | 32.6         | 32.4         | 32.3                    |
| P0<br>P1     | 31.9<br>31.8 | 32.8<br>32.5 | 32.2<br>32.6 | (±0.30)<br>32.3<br>32.3 |
|              | C            | W            |              |                         |
|              | (±0.42)      |              |              |                         |
| P0<br>P1     | 33.1<br>32.5 | 31.4<br>32.2 |              |                         |

Mean D.M. %: 17.7

65/C/12.4

DRY MATTER

|              | N0           | N1           | N2           | Mean         |
|--------------|--------------|--------------|--------------|--------------|
| 3RD CUT      |              |              |              |              |
| C            |              | (±0.59)      |              | (±0.34)      |
| W            | 24.2<br>23.8 | 24.6<br>23.8 | 24.1<br>23.6 | 24.3<br>23.7 |
| Mean (±0.42) | 24.0         | 24.2         | 23.9         | 24.0         |
| (±0.59)      |              |              |              |              |
| P0           | 24.4         | 24.6         | 22.9         | 24.0         |
| P1           | 23.6         | 23.8         | 24.8         | 24.1         |
|              | C            | W            |              |              |
|              | (±0.48)      |              |              |              |
| P0           | 24.6         | 23.3         |              |              |
| P1           | 24.0         | 24.2         |              |              |

Mean D.M. %: 20.4

65/C/12.5

DRY MATTER

|                 | N0           | N1            | N2            | Mean          |
|-----------------|--------------|---------------|---------------|---------------|
| TOTAL OF 3 CUTS |              |               |               |               |
| C               |              | (±1.35)       |               | (±0.78)       |
| W               | 99.5<br>95.0 | 103.3<br>98.7 | 100.4<br>95.0 | 101.1<br>96.3 |
| Mean (±0.95)    | 97.3         | 101.0         | 97.7          | 98.7          |
| P0              |              | (±1.35)       |               | (±0.78)       |
| P1              | 99.9<br>94.6 | 102.5<br>99.6 | 99.0<br>96.4  | 100.5<br>96.8 |
|                 | C            | W             |               |               |
|                 | (±1.10)      |               |               |               |
| P0              | 103.4        | 97.6          |               |               |
| P1              | 98.7         | 95.0          |               |               |

Mean D.M. %: 18.1