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Yields of the Field Experiments 1964

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64/R/BN/A/5 Barnfield - Potatoes and Mangolds

Rothamsted Research

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64/A/5.1

MANGOLDS AND POTATOES - BARNFIELD 1964

(BN)

For history, treatments etc., see 'Details', and 'Results' 62/A/5.

In 1964 the rate of application of P₂O₅ was increased to 122.5 lb per acre, thus permitting the use of compound 0:14:28 on strips 2, 4 and 6. Granular superphosphate was applied to strips 5 and 7 (at 645 lb per acre, supplying 122.5 lb P₂O₅). Potash, sodium and magnesium were applied normally.

Cultivations, etc.: Dung applied: Dec 19, 1963. Ploughed: Jan 17 - Feb 5, 1964. Mineral fertilisers applied to strips: May 13.

Mangolds: N fertilisers applied: May 14, 1964. Seed drilled at 9 lb: May 15. Singled: June 16 - July 2. Sprayed with menazon at 0.38 lb in 35 gals: July 23. Lifted: Oct 8.

Potatoes: N fertilisers applied, all plots rotary cultivated: May 14, 1964. Rotary cultivated 2nd time, potatoes machine planted: May 15. Earthed up: June 29. Sprayed twice with mancozeb at 1.2 lb in 35 gals: July 1 and Aug 6. Haulm destroyed mechanically: Sept 22. Lifted: Sept 29.

Treatment symbols:

| | | N cwt per acre |
|----|---|----------------|
| NO | = | None |
| N1 | = | 0.6 |
| N2 | = | 1.2 |
| N3 | = | 1.8 |

64/A/5.2

SUMMARY OF RESULTS

MANGOLDS, ROOTS

| Strip | N | O | N | A | AC | C |
|-------|---|-------|-------|-------|-------|-------|
| 1 | 0 | 10.78 | 21.21 | 14.31 | 13.64 | 8.42 |
| | 1 | | 25.51 | 23.23 | 14.90 | 16.33 |
| | 2 | | 22.22 | 20.04 | 20.04 | 13.89 |
| | 3 | | 22.39 | 24.92 | 20.88 | 27.95 |
| 2 | 0 | 13.86 | 21.05 | 23.57 | 15.15 | 15.57 |
| | 1 | | 23.74 | 21.80 | 19.78 | 17.43 |
| | 2 | | 26.10 | 17.01 | 20.54 | 18.69 |
| | 3 | | 31.32 | 19.78 | 19.11 | 17.09 |
| 4 | 0 | 5.96 | 10.52 | 13.64 | 14.98 | 8.42 |
| | 1 | | 15.49 | 10.86 | 16.67 | 19.36 |
| | 2 | | 21.47 | 16.16 | 16.92 | 18.35 |
| | 3 | | 22.73 | 15.57 | 13.30 | 19.28 |
| 5 | 0 | 5.70 | 7.58 | 10.78 | 12.38 | 8.59 |
| | 1 | | 17.01 | 11.20 | 11.62 | 12.46 |
| | 2 | | 17.34 | 11.28 | 14.82 | 11.11 |
| | 3 | | 31.82 | 11.79 | 10.10 | 12.46 |
| 6 | 0 | 4.76 | 9.18 | 8.84 | 13.05 | 8.17 |
| | 1 | | 17.59 | 12.71 | 12.96 | 15.74 |
| | 2 | | 18.27 | 13.05 | 12.71 | 18.60 |
| | 3 | | 20.79 | 12.96 | 19.36 | 19.11 |
| 7 | 0 | 4.78 | 14.31 | 13.55 | 13.13 | 11.95 |
| | 1 | | 15.91 | 17.59 | 13.97 | 13.64 |
| | 2 | | 17.26 | 14.82 | 14.31 | 20.54 |
| | 3 | | 20.88 | 19.53 | 19.70 | 20.71 |
| 8 | 0 | 3.96 | 5.47 | 6.90 | 11.20 | 10.69 |
| | 1 | | 11.20 | 9.01 | 11.36 | 13.30 |
| | 2 | | 13.13 | 9.60 | 11.70 | 12.04 |
| | 3 | | 17.93 | 8.08 | 12.21 | 12.12 |
| 9 | 0 | | 8.42 | | | |
| | 1 | | 13.97 | | | |
| | 2 | | 16.75 | | | |
| | 3 | | 16.50 | | | |

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MANGOLDS, LEAVES

| Strip | N | O | N | A | AC | C |
|-------|---|------|-------|------|------|------|
| 1 | 0 | 4.20 | 7.74 | 4.80 | 5.89 | 4.04 |
| | 1 | | 8.42 | 6.40 | 6.23 | 6.23 |
| | 2 | | 7.58 | 5.81 | 7.07 | 5.56 |
| | 3 | | 7.24 | 7.58 | 6.82 | 9.09 |
| 2 | 0 | 5.47 | 10.02 | 9.01 | 7.41 | 6.65 |
| | 1 | | 8.25 | 7.66 | 8.33 | 6.82 |
| | 2 | | 10.02 | 7.49 | 7.32 | 7.07 |
| | 3 | | 11.11 | 8.17 | 8.08 | 7.32 |
| 4 | 0 | 2.21 | 4.88 | 4.29 | 5.98 | 4.04 |
| | 1 | | 5.14 | 3.54 | 5.89 | 6.48 |
| | 2 | | 7.58 | 4.97 | 6.82 | 6.23 |
| | 3 | | 8.33 | 4.97 | 5.89 | 7.66 |
| 5 | 0 | 1.81 | 2.69 | 3.03 | 4.29 | 3.20 |
| | 1 | | 5.14 | 3.20 | 4.80 | 3.62 |
| | 2 | | 6.15 | 3.45 | 4.97 | 4.04 |
| | 3 | | 9.43 | 3.70 | 3.87 | 4.38 |
| 6 | 0 | 1.78 | 3.45 | 2.95 | 4.80 | 2.78 |
| | 1 | | 5.47 | 3.45 | 4.21 | 4.88 |
| | 2 | | 6.40 | 4.13 | 4.46 | 5.72 |
| | 3 | | 6.23 | 5.05 | 6.82 | 6.15 |
| 7 | 0 | 1.92 | 4.46 | 4.55 | 5.05 | 4.04 |
| | 1 | | 5.05 | 5.14 | 5.30 | 3.96 |
| | 2 | | 5.47 | 4.29 | 5.56 | 6.65 |
| | 3 | | 6.73 | 5.64 | 6.57 | 6.99 |
| 8 | 0 | 1.81 | 2.53 | 2.10 | 4.13 | 3.62 |
| | 1 | | 3.87 | 3.28 | 3.70 | 4.55 |
| | 2 | | 4.04 | 3.62 | 3.96 | 3.70 |
| | 3 | | 6.06 | 3.03 | 4.38 | 4.21 |
| 9 | 0 | | 3.28 | | | |
| | 1 | | 4.21 | | | |
| | 2 | | 5.72 | | | |
| | 3 | | 5.64 | | | |

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MANGOLDS, PLANT NUMBER

| Strip | N | O | N | A | AC | C |
|-------|---|------|------|------|------|------|
| 1 | 0 | 12.8 | 24.3 | 20.4 | 20.9 | 23.0 |
| | 1 | | 23.0 | 24.1 | 20.4 | 22.6 |
| | 2 | | 22.3 | 21.1 | 23.4 | 16.6 |
| | 3 | | 21.9 | 22.3 | 23.4 | 22.6 |
| 2 | 0 | 21.3 | 22.8 | 22.3 | 18.5 | 19.0 |
| | 1 | | 22.1 | 23.2 | 18.7 | 19.4 |
| | 2 | | 21.5 | 18.5 | 18.7 | 18.9 |
| | 3 | | 21.9 | 20.6 | 17.2 | 17.2 |
| 4 | 0 | 23.3 | 21.5 | 17.2 | 19.2 | 19.0 |
| | 1 | | 21.1 | 20.4 | 18.7 | 15.7 |
| | 2 | | 19.4 | 20.0 | 14.3 | 15.8 |
| | 3 | | 20.9 | 19.2 | 9.6 | 14.0 |
| 5 | 0 | 20.7 | 21.5 | 19.0 | 21.9 | 23.8 |
| | 1 | | 22.4 | 19.8 | 16.2 | 23.9 |
| | 2 | | 23.4 | 20.0 | 23.2 | 20.9 |
| | 3 | | 21.7 | 22.3 | 10.7 | 24.5 |
| 6 | 0 | 20.9 | 15.7 | 17.5 | 18.9 | 21.5 |
| | 1 | | 21.9 | 17.3 | 17.5 | 22.4 |
| | 2 | | 21.1 | 14.9 | 13.8 | 21.9 |
| | 3 | | 20.2 | 12.3 | 21.1 | 22.1 |
| 7 | 0 | 22.0 | 23.2 | 19.2 | 21.3 | 22.8 |
| | 1 | | 24.3 | 19.8 | 15.5 | 22.3 |
| | 2 | | 22.1 | 18.1 | 15.1 | 22.4 |
| | 3 | | 21.9 | 18.1 | 19.6 | 21.7 |
| 8 | 0 | 13.9 | 20.7 | 22.4 | 21.3 | 21.1 |
| | 1 | | 20.9 | 21.9 | 20.4 | 23.4 |
| | 2 | | 22.1 | 21.5 | 21.9 | 21.1 |
| | 3 | | 22.1 | 21.5 | 21.3 | 22.4 |
| 9 | 0 | | 20.0 | | | |
| | 1 | | 20.6 | | | |
| | 2 | | 21.3 | | | |
| | 3 | | 20.9 | | | |

64/A/5.5

POTATOES, TOTAL TUBERS

| Strip | N | O | N | A | AC | C |
|-------|---|------|-------|-------|-------|-------|
| 1 | 0 | 6.63 | 9.02 | 13.23 | 10.11 | 10.26 |
| | 1 | | 8.37 | 11.49 | 10.23 | 9.44 |
| | 2 | | 11.30 | 10.96 | 11.71 | 10.52 |
| | 3 | | 10.23 | 9.38 | 11.61 | 11.46 |
| 2 | 0 | 6.54 | 8.94 | 8.71 | 9.05 | 9.60 |
| | 1 | | 9.43 | 9.68 | 11.42 | 10.21 |
| | 2 | | 10.50 | 10.75 | 11.33 | 13.09 |
| | 3 | | 10.57 | 12.93 | 14.27 | 12.92 |
| 4 | 0 | 3.22 | 5.51 | 6.61 | 6.40 | 6.44 |
| | 1 | | 7.81 | 6.29 | 7.51 | 7.86 |
| | 2 | | 4.92 | 7.62 | 8.08 | 8.58 |
| | 3 | | 6.06 | 7.60 | 7.89 | 8.33 |
| 5 | 0 | 2.95 | 3.22 | 2.78 | 3.91 | 3.70 |
| | 1 | | 3.79 | 2.67 | 4.04 | 4.13 |
| | 2 | | 4.34 | 3.64 | 4.36 | 4.08 |
| | 3 | | 3.47 | 2.55 | 3.58 | 4.04 |
| 6 | 0 | 3.03 | 3.79 | 5.91 | 6.25 | 5.91 |
| | 1 | | 5.43 | 5.98 | 7.03 | 5.85 |
| | 2 | | 4.38 | 5.96 | 8.73 | 6.27 |
| | 3 | | 4.52 | 6.67 | 7.99 | 6.65 |
| 7 | 0 | 3.53 | 4.21 | 2.15 | 2.97 | 3.18 |
| | 1 | | 4.17 | 2.82 | 3.24 | 3.58 |
| | 2 | | 3.11 | 3.09 | 3.51 | 4.48 |
| | 3 | | 3.89 | 3.05 | 3.98 | 5.70 |
| 8 | 0 | 2.03 | 2.15 | 2.29 | 3.37 | 3.68 |
| | 1 | | 3.37 | 2.29 | 3.68 | 4.65 |
| | 2 | | 1.85 | 1.79 | 3.60 | 3.81 |
| | 3 | | 3.51 | 2.06 | 3.81 | 3.01 |
| 9 | 0 | | 3.94 | | | |
| | 1 | | 5.09 | | | |
| | 2 | | 4.04 | | | |
| | 3 | | 4.00 | | | |

64/A/5.6

POTATOES % WARE

| Strip | N | O | N | A | AC | C |
|-------|---|------|------|------|------|------|
| 1 | 0 | 86.8 | 91.6 | 94.5 | 87.5 | 89.2 |
| | 1 | | 86.0 | 89.3 | 91.7 | 88.6 |
| | 2 | | 90.5 | 89.6 | 92.7 | 91.3 |
| | 3 | | 88.3 | 89.2 | 91.8 | 91.7 |
| 2 | 0 | 83.0 | 88.4 | 86.0 | 87.0 | 83.3 |
| | 1 | | 89.1 | 85.2 | 84.3 | 84.7 |
| | 2 | | 88.6 | 87.3 | 87.7 | 88.4 |
| | 3 | | 86.4 | 90.4 | 86.7 | 88.9 |
| 4 | 0 | 80.2 | 85.1 | 88.5 | 83.2 | 89.9 |
| | 1 | | 90.3 | 85.3 | 89.6 | 89.0 |
| | 2 | | 87.2 | 88.1 | 87.0 | 86.8 |
| | 3 | | 86.8 | 90.0 | 87.5 | 88.6 |
| 5 | 0 | 83.3 | 75.8 | 72.0 | 80.6 | 83.0 |
| | 1 | | 80.6 | 73.2 | 81.8 | 82.1 |
| | 2 | | 80.6 | 83.8 | 78.7 | 80.9 |
| | 3 | | 73.3 | 69.4 | 80.0 | 82.3 |
| 6 | 0 | 77.4 | 86.7 | 88.3 | 87.2 | 85.4 |
| | 1 | | 81.8 | 85.2 | 88.3 | 84.2 |
| | 2 | | 81.3 | 86.2 | 86.5 | 91.6 |
| | 3 | | 80.5 | 83.0 | 86.9 | 88.6 |
| 7 | 0 | 78.2 | 74.0 | 67.6 | 68.8 | 74.8 |
| | 1 | | 77.3 | 73.1 | 79.2 | 78.2 |
| | 2 | | 68.9 | 81.6 | 77.2 | 80.8 |
| | 3 | | 75.1 | 72.4 | 77.8 | 83.4 |
| 8 | 0 | 76.0 | 80.4 | 75.2 | 81.9 | 85.7 |
| | 1 | | 83.1 | 69.7 | 80.0 | 85.5 |
| | 2 | | 70.5 | 71.8 | 77.8 | 86.2 |
| | 3 | | 86.8 | 70.4 | 82.3 | 82.5 |
| 9 | 0 | | 89.8 | | | |
| | 1 | | 90.9 | | | |
| | 2 | | 88.5 | | | |
| | 3 | | 87.9 | | | |