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# Yields of the Field Experiments 1958

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## 58/R/A/4 Barnfield - Mangolds and Sugar Beet

### Rothamsted Research

Rothamsted Research (1959) *58/R/A/4 Barnfield - Mangolds and Sugar Beet* ; Yields Of The Field Experiments 1958, pp 9 - 10 - DOI: <https://doi.org/10.23637/ERADOC-1-181>

MANGOLDS AND SUGAR BEET - BARNFIELD

The 83rd and 13th years

For history, treatments etc., see "Details of the Classical and Long Term Experiments" 1956.

Cultivations, etc.: Dung applied, ploughed: Nov 25, 1957.  
 Fertilizers applied: May 5, 1958. Sugar beet drilled at 18 lb per acre, mangolds drilled at 8 lb per acre: May 8. Singled: June 11 to July 5. Sprayed with demeton methyl at 12 oz in 40 gallons per acre: July 7. Top dressings applied: July 14. Lifted: Oct 11 - Nov 21. Varieties: Mangolds - Yellow Globe, sugar beet - Klein E.

Summary of Results

| Strip                                      | Cross Dressing |                          |       |       |       |
|--|----------------|--------------------------|-------|-------|-------|
|  | O              | N                        | A     | AC    | C     |
| Mangolds, roots: tons per acre             |                |                          |       |       |       |
| 1  | 12.74          | 31.56                    | 28.54 | 24.15 | 17.27 |
| 2  | 17.06          | 36.47                    | 30.34 | 30.34 | 25.70 |
| 4  | 6.38           | (a) 26.80*<br>(b) 27.47* | 22.13 | 28.63 | 20.34 |
| 5  | 4.93           | 20.44                    | 16.17 | 18.64 | 14.51 |
| 6  | 4.82           | 19.73                    | 19.68 | 26.63 | 20.84 |
| 7  | 5.84           | 21.52                    | 20.44 | 26.87 | 21.06 |
| 8  | 1.93           | 16.34                    | 13.95 | 19.70 | 15.27 |
| 9  | 19.80          |                          |       |       |       |
| Mangolds, leaves: tons per acre            |                |                          |       |       |       |
| 1  | 2.42           | 5.69                     | 5.59  | 6.23  | 4.01  |
| 2  | 2.69           | 6.62                     | 5.54  | 8.04  | 5.67  |
| 4  | 1.32           | (a) 5.52*<br>(b) 5.01*   | 3.64  | 6.77  | 4.27  |
| 5  | 0.98           | 4.03                     | 3.35  | 3.83  | 3.15  |
| 6  | 1.00           | 3.76                     | 3.15  | 4.67  | 4.23  |
| 7  | 1.34           | 4.79                     | 3.96  | 5.64  | 4.93  |
| 8  | 0.81           | 3.93                     | 3.76  | 4.20  | 4.52  |
| 9  | 3.81           |                          |       |       |       |
| Mangolds, plant number: thousands per acre |                |                          |       |       |       |
| 1  | 18.9           | 19.7                     | 19.1  | 18.0  | 17.7  |
| 2  | 23.6           | 20.8                     | 20.5  | 19.5  | 20.7  |
| 4  | 21.8           | (a) 21.8*<br>(b) 21.1*   | 20.3  | 19.7  | 20.2  |
| 5  | 21.6           | 21.3                     | 21.9  | 20.7  | 21.5  |
| 6  | 20.5           | 21.5                     | 20.7  | 20.2  | 21.0  |
| 7  | 20.9           | 21.8                     | 21.0  | 20.4  | 21.3  |
| 8  | 19.0           | 20.5                     | 21.5  | 21.4  | 21.6  |
| 9  | 24.0           |                          |       |       |       |

\*No nitrate of soda. Nitrogen applied as calcium and potassium nitrates.



58/A/4.2

| Strip  | Cross Dressing |            |       |       |       |
|--|----------------|------------|-------|-------|-------|
|  | O              | N          | A     | AC    | C     |
| Sugar beet, roots (washed): tons per acre    |                |            |       |       |       |
| 1  | 9.04           | 13.41      | 13.47 | 14.26 | 10.84 |
| 2  | 6.85           | 12.69*     | 12.62 | 13.65 | 12.47 |
| 4  | 2.08           | (b) 11.37* | 10.43 | 14.31 | 12.75 |
| 5  | 2.77           | 8.76       | 9.29  | 10.76 | 9.84  |
| 6  | 1.89           | 9.95       | 10.32 | 13.65 | 11.83 |
| 7  | 2.43           | 10.30      | 10.60 | 12.64 | 10.81 |
| 8  | 1.89           | 7.41       | 7.56  | 11.24 | 9.22  |
| 9  | 8.39           |            |       |       |       |
| Sugar beet, tops: tons per acre              |                |            |       |       |       |
| 1  | 6.64           | 13.14      | 16.61 | 17.00 | 15.29 |
| 2  | 6.20           | 14.85*     | 14.36 | 18.76 | 13.48 |
| 4  | 1.81           | (b) 12.02* | 6.50  | 14.70 | 11.92 |
| 5  | 1.61           | 10.11      | 7.82  | 15.88 | 10.11 |
| 6  | 1.66           | 10.60      | 6.55  | 15.09 | 10.70 |
| 7  | 1.91           | 13.24      | 9.62  | 17.05 | 11.14 |
| 8  | 1.86           | 9.67       | 7.57  | 15.24 | 11.87 |
| 9  | 7.43           |            |       |       |       |
| Sugar beet, plant number: thousands per acre |                |            |       |       |       |
| 1  | 23.7           | 22.7       | 23.4  | 22.8  | 22.9  |
| 2  | 24.3           | 22.8*      | 23.5  | 24.4  | 24.3  |
| 4  | 22.3           | (b) 24.0*  | 24.5  | 23.6  | 24.9  |
| 5  | 23.0           | 23.7       | 23.5  | 22.2  | 23.9  |
| 6  | 22.7           | 24.3       | 24.9  | 24.8  | 25.2  |
| 7  | 22.3           | 24.3       | 23.9  | 23.3  | 23.3  |
| 8  | 22.4           | 23.0       | 24.4  | 25.0  | 25.0  |
| 9  | 22.6           |            |       |       |       |
| Sugar beet, sugar percentage                 |                |            |       |       |       |
| 1  | 17.9           | 17.2       | 17.0  | 17.0  | 16.8  |
| 2  | 17.7           | 17.0*      | 16.6  | 16.4  | 17.0  |
| 4  | 18.0           | (b) 17.4*  | 18.4  | 17.4  | 17.6  |
| 5  | 17.7           | 16.9       | 17.8  | 16.5  | 17.1  |
| 6  | 17.4           | 17.2       | 18.2  | 17.0  | 17.4  |
| 7  | 17.8           | 17.6       | 18.3  | 16.9  | 17.5  |
| 8  | 17.4           | 17.3       | 18.0  | 17.2  | 17.3  |
| 9  | 17.9           |            |       |       |       |

\*No nitrate of soda. Nitrogen applied as calcium and potassium nitrates.