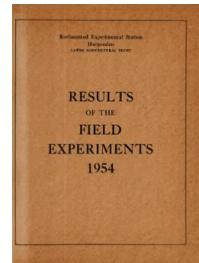


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# Yields of the Field Experiments 1954

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

### Rothamsted Research

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54/A/4.1

MANGOLDS AND SUGAR BEET - BARNFIELD 1954

The 79th and 9th years

For history, details of treatments etc, see "Results of the Field Experiments 1939-47" Vol.I, Section A/5.

Cultivations, etc.: Dung applied: Nov 16, 1953. Ploughed: Nov 21. Fertilizers applied: Apr 11, 1954. Seed drilled, Mangolds - 9 lb, Sugar beet - 18 lb per acre: Apr 15. Singled: June 19 - July 21. Sprayed with miscible D.D.T. 3 pints per acre: July 19. Top dressings applied: July 17. Lifted: Mangolds - Nov 5, Sugar beet - Nov 13. 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  | 8.63           | 20.52                  | 21.50 | 19.41 | 20.09 |
| 2  | 10.06          | 23.17                  | 21.43 | 20.06 | 19.38 |
| 4  | 1.73           | (a) 12.56 <sup>#</sup> | 10.85 | 11.99 | 14.68 |
|  |                | (b) 10.45              |       |       |       |
| 5  | 1.71           | 10.94                  | 9.03  | 8.61  | 9.35  |
| 6  | 1.47           | 12.03                  | 10.94 | 12.82 | 13.22 |
| 7  | 1.73           | 11.34                  | 11.31 | 14.45 | 14.42 |
| 8  | 0.99           | 5.13                   | 4.99  | 8.43  | 10.40 |
| 9  | 10.85          |                        |       |       |       |
| Mangolds, Leaves: tons per acre            |                |                        |       |       |       |
| 1  | 2.93           | 5.96                   | 8.23  | 7.23  | 7.08  |
| 2  | 3.66           | 6.99                   | 6.30  | 7.82  | 6.59  |
| 4  | 0.99           | (a) 4.25 <sup>#</sup>  | 4.25  | 6.28  | 5.74  |
|  |                | (b) 3.98 <sup>#</sup>  |       |       |       |
| 5  | 0.83           | 3.57                   | 3.00  | 3.86  | 3.81  |
| 6  | 0.84           | 3.76                   | 3.74  | 4.23  | 4.23  |
| 7  | 0.94           | 3.76                   | 4.86  | 6.30  | 6.06  |
| 8  | 0.66           | 2.64                   | 3.52  | 4.27  | 5.08  |
| 9  | 4.20           |                        |       |       |       |
| Mangolds, Plant Number: thousands per acre |                |                        |       |       |       |
| 1  | 18.1           | 22.0                   | 20.7  | 19.3  | 21.4  |
| 2  | 22.0           | 22.8                   | 22.2  | 20.9  | 21.9  |
| 4  | 20.3           | (a) 21.9 <sup>#</sup>  | 20.5  | 18.9  | 22.7  |
|  |                | (b) 23.2 <sup>#</sup>  |       |       |       |
| 5  | 20.5           | 22.2                   | 21.4  | 19.4  | 22.1  |
| 6  | 19.2           | 21.9                   | 20.8  | 18.2  | 22.2  |
| 7  | 20.3           | 21.8                   | 20.8  | 20.2  | 21.9  |
| 8  | 19.4           | 16.5                   | 20.1  | 18.7  | 21.0  |
| 9  | 20.8           |                        |       |       |       |

<sup>#</sup>No nitrate of soda. Nitrogen applied as calcium and potassium nitrates.

54/A/4.2

| Strip  | Cross Dressing |                       |       |       |       |
|--|----------------|-----------------------|-------|-------|-------|
|  | O              | N                     | A     | AC    | C     |
| Sugar Beet, Roots (washed): tons per acre    |                |                       |       |       |       |
| 1  | 5.17           | 9.11                  | 10.60 | 10.20 | 9.42  |
| 2  | 6.12           | 8.61                  | 8.17  | 8.40  | 9.26  |
| 4  | 1.17           | (b) 5.48 <sup>#</sup> | 5.91  | 8.81  | 7.23  |
| 5  | 1.60           | 5.09                  | 5.21  | 6.88  | 5.95  |
| 6  | 1.00           | 5.09                  | 5.75  | 8.82  | 6.88  |
| 7  | 1.38           | 5.61                  | 5.08  | 7.28  | 6.63  |
| 8  | 1.22           | 3.38                  | 3.96  | 6.13  | 5.73  |
| Sugar Beet, Tops: tons per acre              |                |                       |       |       |       |
| 1  | 5.62           | 13.68                 | 19.05 | 14.95 | 13.63 |
| 2  | 6.94           | 15.39                 | 13.34 | 13.38 | 11.38 |
| 4  | 1.34           | (b) 8.99 <sup>#</sup> | 5.47  | 11.14 | 8.84  |
| 5  | 1.80           | 7.67                  | 4.93  | 13.09 | 8.65  |
| 6  | 1.38           | 5.52                  | 5.52  | 10.65 | 6.89  |
| 7  | 1.61           | 7.91                  | 6.64  | 11.28 | 7.86  |
| 8  | 1.80           | 6.59                  | 6.20  | 10.75 | 9.72  |
| Sugar Beet, Plant Number: thousands per acre |                |                       |       |       |       |
| 1  | 20.4           | 20.1                  | 21.5  | 21.5  | 22.4  |
| 2  | 22.8           | 22.3                  | 22.0  | 19.9  | 21.9  |
| 4  | 23.5           | (b) 23.6 <sup>#</sup> | 22.5  | 22.1  | 22.3  |
| 5  | 20.6           | 22.0                  | 22.6  | 21.8  | 22.9  |
| 6  | 20.9           | 22.5                  | 23.0  | 22.1  | 22.4  |
| 7  | 21.5           | 22.9                  | 22.0  | 21.9  | 21.9  |
| 8  | 24.0           | 20.5                  | 22.3  | 21.3  | 20.7  |
| Sugar Beet, Sugar Percentage                 |                |                       |       |       |       |
| 1  | 16.4           | 16.0                  | 15.5  | 16.2  | 16.9  |
| 2  | 16.5           | 16.1                  | 16.2  | 15.0  | 16.0  |
| 4  | 16.1           | (b) 15.4 <sup>#</sup> | 17.1  | 16.8  | 16.2  |
| 5  | 15.6           | 15.3                  | 16.2  | 15.2  | 16.1  |
| 6  | 15.5           | 16.2                  | 15.8  | 16.0  | 16.5  |
| 7  | 15.6           | 16.0                  | 15.9  | 15.5  | 16.2  |
| 8  | 14.7           | 14.8                  | 15.6  | 15.5  | 15.7  |

<sup>#</sup>No nitrate of soda. Nitrogen applied as calcium and potassium nitrates.