

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1955

[Full Table of Content](#)



Miscellaneous Data

Rothamsted Research

Rothamsted Research (1956) *Miscellaneous Data* ; Yields Of The Field Experiments 1955, pp 102 - 104 - DOI: <https://doi.org/10.23637/ERADOC-1-175>

CHEMICAL ANALYSES OF ORGANIC MATERIALS, USED IN THE THREE
COURSE ROTATION AND MARKET GARDEN EXPERIMENTS 1955

| Material | Percentage dry matter in sample | Percentage in dry matter | | | |
|-----------------------------------|---------------------------------------|--------------------------|------|-------------------------------|------------------|
| | | Organic matter | N | P ₂ O ₅ | K ₂ O |
| Three Course Rotation, Rothamsted | | | | | |
| Wheat Straw | 84.6 | 92.8 | 0.48 | 0.18 | 1.24 |
| Market Garden Experiment, Woburn | | | | | |
| Sewage Sludge* | | | | | |
| 1 | 45.4 | 41.2 | 2.59 | 3.74 | 0.21 |
| 2 | 45.8 | 41.9 | 2.53 | 3.42 | 0.16 |
| Sludge-Straw Compost* | | | | | |
| 1 | 39.8 | 43.2 | 2.43 | 2.94 | 0.47 |
| 2 | 35.1 | 45.3 | 2.36 | 2.88 | 0.37 |
| Vegetable Compost* | | | | | |
| 1 | 24.8 | 51.9 | 2.46 | 3.93 | 2.92 |
| 2 | 22.8 | 56.4 | 2.40 | 4.52 | 2.71 |
| Farmyard Manure* | | | | | |
| 1 | 23.1 | 60.0 | 3.16 | 4.34 | 3.70 |
| 2 | 21.2 | 61.1 | 1.96 | 1.00 | 1.29 |

*Sample 1 applied Sept, 1954; Sample 2 applied April, 1955.

METEOROLOGICAL RECORDS ROTHAMSTED 1955

(Departure from long period means in brackets)

| Month | Total sunshine: hours | Mean temperature: °F | | | Ground (2) frosts | Total rainfall: in. 1/1000 acre gauge | Rain (3) days | Drain- age through 20 in. soil: in. m.p.h. | Wind: (4) |
|-------|-----------------------|----------------------|-------|-----------------|-------------------|---------------------------------------|---------------|--|-----------|
| | | Air (1) | 1 ft. | In ground 4 ft. | | | | | |
| Jan. | 34 (-18) | 35.2 (-2.1) | 36.8 | 43.6 | 23 | 2.75 (+0.25) | 19 | 2.16 | 5.5 |
| Feb. | 78 (+9) | 33.4 (-4.9) | 36.7 | 42.1 | 20 | 2.31 (+0.38) | 19 | 1.08 | 8.7 |
| Mar. | 149 (+32) | 36.9 (-4.4) | 36.6 | 40.0 | 24 | 1.45 (-0.46) | 10 | 1.12 | 6.5 |
| Apr. | 173 (+16) | 48.4 (+2.6) | 46.7 | 43.1 | 10 | 0.49 (-1.46) | 9 | - | 5.4 |
| May | 208 (+12) | 49.7 (-2.2) | 50.1 | 47.0 | 1 | 4.62 (+2.47) | 16 | 1.96 | 6.2 |
| June | 153 (-50) | 57.0 (-0.3) | 57.6 | 50.1 | 0 | 2.11 (-0.06) | 9 | 0.55 | 4.8 |
| July | 249 (+54) | 62.8 (+2.1) | 64.7 | 55.4 | 0 | 0.25 (-2.32) | 4 | - | 4.3 |
| Aug. | 191 (+6) | 63.9 (+3.7) | 64.8 | 57.6 | 0 | 0.81 (-1.78) | 8 | - | 3.2 |
| Sept. | 155 (+9) | 57.7 (+1.7) | 58.6 | 57.6 | 0 | 1.88 (-0.50) | 14 | - | 3.3 |
| Oct. | 122 (+18) | 48.1 (-0.8) | 50.7 | 54.3 | 6 | 3.29 (+0.31) | 17 | 1.66 | 4.1 |
| Nov. | 43 (-20) | 43.9 (+1.5) | 44.5 | 49.8 | 10 | 2.07 (-0.76) | 18 | 1.69 | 3.8 |
| Dec. | 51 (+6) | 41.2 (+2.6) | 41.3 | 46.4 | 14 | 2.60 (+0.04) | 23 | 1.82 | 5.8 |
| Year | 1606 (+74) | 48.2 - | 49.0 | 48.9 | 108 | 24.63 (-3.89) | 166 | 12.04 | 5.1 |

(1) Mean of maximum and minimum.

(2) Number of nights grass minimum was 30°F or less.

(3) Number of days rainfall was 0.01 in. or more.

(4) At 2 metres above ground level.

‡ Mean or total.

55/E/2.2

METEOROLOGICAL RECORDS WOBURN 1955

| Month | Total sun- shine: hours | Mean Temperature: °F | | Grass minimum: °F | Total rainfall: in. 8" gauge | Rain ⁽²⁾ days |
|-------------------|----------------------------------|-------------------------|--------------------|-------------------------|---------------------------------------|-----------------------------|
| | | Air ⁽¹⁾ | In ground 1 ft. | | | |
| January | 38 | 35.9 | 36.9 | 29.5 | 2.44 | 17 |
| February | 81 | 33.7 | 36.7 | 26.8 | 1.63 | 17 |
| March | 142 | 36.7 | 37.1 | 24.6 | 1.13 | 12 |
| April | 155 | 48.6 | 48.4 | 35.3 | 0.47 | 10 |
| May | 196 | 49.4 | 51.2 | 37.5 | 4.57 | 17 |
| June | 151 | 56.7 | 59.1 | 47.7 | 2.15 | 12 |
| July | 242 | 62.8 | 65.7 | 47.8 | 0.19 | 2 |
| August | 171 | 64.2 | 66.0 | 47.8 | 0.70 | 7 |
| September | 158 | 57.3 | 58.3 | 44.2 | 1.65 | 10 |
| October | 115 | 48.0 | 49.4 | 36.0 | 1.79 | 13 |
| November | 52 | 43.6 | 43.9 | 32.8 | 1.26 | 14 |
| December | 61 | 41.7 | 41.0 | 31.9 | 2.29 | 19 |
| Year [*] | 1562 | 48.2 | 49.5 | 36.8 | 20.27 | 150 |

(1) Mean of maximum and minimum.

(2) Number of days rainfall was 0.01 in. or more.

^{*}Mean or total.