

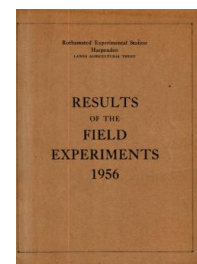
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CHEMICAL ANALYSES OF ORGANIC MATERIALS, USED IN THE THREE
COURSE ROTATION AND MARKET GARDEN EXPERIMENTS 1956

| 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 | 86.6 | 92.8 | 0.52 | 1.60 | 1.55 |
| Market Garden Experiment, Woburn | | | | | |
| Sewage Sludge | | | | | |
| 1a | 51.6 | 44.9 | 2.32 | 3.92 | 0.21 |
| 1b | 52.6 | 22.2 | 1.80 | 1.21 | 0.12 |
| 2 | 78.8 | 41.3 | 2.43 | 3.37 | 0.19 |
| 3 | 54.4 | 40.2 | 2.60 | 3.49 | 0.16 |
| Sludge Straw Compost | | | | | |
| 1 | 34.4 | 42.4 | 2.09 | 2.61 | 0.48 |
| 2 | 39.0 | 44.4 | 2.29 | 2.75 | 0.93 |
| 3 | 41.6 | 43.2 | 2.41 | 3.51 | 0.72 |
| Vegetable Compost | | | | | |
| 1 | 24.0 | 50.3 | 2.25 | 4.42 | 2.52 |
| 2 | 27.8 | 49.4 | 2.64 | 4.01 | 3.15 |
| 3 | 25.3 | 56.7 | 2.59 | 3.96 | 2.53 |
| Farmyard Manure | | | | | |
| 1 | 27.0 | 53.1 | 2.34 | 1.79 | 1.63 |
| 2 | 19.2 | 57.4 | 4.14 | 4.18 | 3.13 |
| 3 | 27.7 | 56.8 | 2.54 | 3.53 | 3.66 |

Note. Samples applied: 1 - July 1955; 2 - September 1955;
3 - April 1956.

Samples of sewage sludge 1a and 1b represent two batches
used to provide the requisite amount.

METEOROLOGICAL RECORDS ROTHAMSTED 1956

(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. | Wind (4) m.p.h. | |
|-------|-----------------------|----------------------|-----------|-----------------------|-------------------|---------------------------------------|---------------|-------------------------------------|-----------------|-----|
| | | Air (1) | Dew point | In ground 1 ft. 4 ft. | | | | | | |
| Jan. | 53 (+1) | 37.5 (+0.2) | 34.7 | 37.5 | 43.3 | 18 | 4.63 (+2.13) | 26 | 3.92 | 5.3 |
| Feb. | 72 (+3) | 29.3 (-9.0) | 27.9 | 34.0 | 40.7 | 26 | 0.68 (-1.25) | 14 | 0.32 | 5.9 |
| Mar. | 137 (+19) | 42.5 (+1.2) | 36.0 | 40.0 | 40.4 | 14 | 1.03 (-0.88) | 8 | 0.42 | 6.3 |
| Apr. | 167 (+10) | 43.3 (-2.5) | 35.9 | 44.3 | 43.2 | 18 | 1.15 (-0.79) | 9 | 0.22 | 5.4 |
| May | 229 (+34) | 53.6 (+1.7) | 43.5 | 53.4 | 46.9 | 2 | 0.63 (-1.54) | 8 | 0.00 | 4.9 |
| June | 143 (-59) | 54.5 (-2.8) | 48.0 | 55.5 | 50.7 | 0 | 3.93 (+1.76) | 16 | 1.66 | 5.1 |
| July | 159 (-37) | 60.1 (-0.6) | 54.4 | 60.5 | 54.2 | 0 | 2.54 (0.00) | 13 | 0.35 | 4.7 |
| Aug. | 151 (-34) | 56.3 (-3.9) | 51.7 | 57.3 | 55.9 | 0 | 5.34 (+2.77) | 24 | 2.42 | 4.1 |
| Sept. | 98 (-48) | 57.7 (+1.7) | 53.5 | 56.9 | 55.5 | 0 | 2.28 (-0.09) | 15 | 1.23 | 4.5 |
| Oct. | 100 (-4) | 48.1 (-0.8) | 44.2 | 50.1 | 54.1 | 3 | 1.85 (-1.14) | 17 | 0.65 | 4.3 |
| Nov. | 56 (-6) | 41.4 (-1.1) | 38.6 | 42.5 | 49.5 | 12 | 0.86 (-1.97) | 16 | 0.19 | 5.1 |
| Dec. | 12 (-33) | 41.3 (+2.6) | 39.7 | 41.5 | 46.3 | 8 | 3.86 (+1.30) | 22 | 3.23 | 4.9 |
| Year* | 1377 (-154) | 47.1 (-1.1) | 42.3 | 47.8 | 48.4 | 101 | 28.78 (+0.30) | 188 | 14.61 | 5.0 |

(1) Mean of maximum and minimum.

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

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

(4) At 2 metres above ground level.

* Mean or total.

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METEOROLOGICAL RECORDS WOBURN 1956

| Month | Total sunshine: hours | Mean Temperature: °F | | Grass minimum: °F | Total rainfall: in. 8" gauge | Rain ⁽²⁾ days |
|-----------|-----------------------|----------------------|-----------------|-------------------|------------------------------|--------------------------|
| | | Air ⁽¹⁾ | In ground 1 ft. | | | |
| January | 63 | 37.6 | 37.5 | 29.5 | 3.98 | 21 |
| February | 66 | 29.1 | 33.6 | 22.1 | 0.54 | 11 |
| March | 150 | 42.6 | 40.6 | 29.1 | 0.77 | 7 |
| April | 149 | 43.1 | 45.0 | 29.8 | 1.35 | 8 |
| May | 225 | 53.4 | 54.2 | 37.3 | 0.43 | 5 |
| June | 139 | 54.4 | 57.1 | 43.7 | 2.48 | 17 |
| July | 163 | 60.3 | 62.1 | 49.7 | 3.69 | 13 |
| August | 146 | 56.5 | 58.1 | 46.6 | 4.19 | 22 |
| September | 99 | 57.4 | 56.9 | 47.5 | 2.16 | 11 |
| October | 108 | 48.0 | 49.6 | 38.2 | 1.50 | 15 |
| November | 67 | 41.6 | 41.9 | 32.7 | 0.75 | 11 |
| December | 20 | 38.4 | 41.0 | 34.3 | 2.93 | 21 |
| Year* | 1395 | 46.9 | 48.1 | 36.7 | 24.77 | 162 |

(1) Mean of maximum and minimum.

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

*Mean or total.