

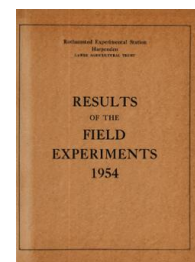
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Yields of the Field Experiments 1954

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Miscellaneous Data

Rothamsted Research

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54/E/1

CHEMICAL ANALYSES OF MANURES USED IN THE THREE, FOUR AND SIX
COURSE ROTATION EXPERIMENTS 1954

| Manures | % Organic Matter | % N | % P ₂ O ₅ | % K ₂ O |
|-------------------------|------------------|------|---------------------------------|--------------------|
| Three Course Rotation | | | | |
| Wheat Straw | 81.2 | 0.45 | 0.10 | 0.67 |
| Sulphate of Ammonia | | 21.0 | | |
| Superphosphate | | | 19.7 (Total) | |
| Muriate of Potash | | | | 58.4 |
| Four Course Rotation | | | | |
| Wheat Straw | | | | |
| For wheat and ryegrass | 79.1 | 0.32 | 0.06 | 0.33 |
| For barley and potatoes | 80.0 | 0.50 | 0.15 | 0.75 |
| Adco Compost | 14.6 | 0.38 | 0.22 | 0.24 |
| Dung | | | | |
| For wheat and ryegrass | 17.8 | 0.44 | 0.19 | 0.83 |
| For barley and potatoes | 18.5 | 0.44 | 0.19 | 0.89 |
| Sulphate of Ammonia | | 21.0 | | |
| Superphosphate | | | 19.4 (Total) | |
| Mineral Phosphate | | | 27.9 | |
| Muriate of Potash | | | | 58.4 |
| Six Course Rotation | | | | |
| Sulphate of Ammonia | | 21.0 | | |
| Superphosphate | | | Autumn 19.4 (Total) | |
| Muriate of Potash | | | Spring 19.7 (Total) | 58.4 |

METEOROLOGICAL RECORDS ROTHAMSTED 1954

(Departure from long period means in brackets)

| Month | Total Hours of Sunshine | Mean Temperature (°F) | | | | Ground Frosts (2) | Total Rainfall (in) 1/1000 acre Gauge | Rain Days (3) | Drainage through 20 in soil | Wind (4) m. p. h. |
|-------|-------------------------|-----------------------|-----------|----------------|----------------|-------------------|---------------------------------------|---------------|-----------------------------|-------------------|
| | | Air (1) | Dew Point | In ground 1 ft | In ground 4 ft | | | | | |
| Jan. | 66 (+14) | 32.7 (-4.7) | 32.1 | 37.7 | 45.1 | 20 | 1.21 (-1.30) | 15 | 0.81 | 7.4 |
| Feb. | 60 (-9) | 35.7 (-2.7) | 32.7 | 35.4 | 41.3 | 16 | 2.33 (+0.41) | 17 | 1.23 | 5.0 |
| Mar. | 99 (-19) | 41.9 (+0.6) | 37.5 | 40.7 | 42.0 | 10 | 2.59 (+0.68) | 17 | 1.20 | 5.6 |
| Apr. | 175 (+19) | 44.7 (-1.1) | 35.4 | 44.9 | 44.6 | 18 | 0.30 (-1.67) | 6 | 0.16 | 5.6 |
| May | 140 (-57) | 52.0 (+0.1) | 44.2 | 51.0 | 47.1 | 3 | 2.47 (+0.33) | 14 | 0.16 | 5.0 |
| June | 138 (-66) | 56.1 (-1.2) | 49.7 | 56.7 | 51.4 | 0 | 3.67 (+1.52) | 15 | 1.94 | 4.8 |
| July | 147 (-48) | 57.5 (-3.2) | 51.4 | 58.2 | 54.6 | 0 | 3.63 (+1.08) | 18 | 0.85 | 4.4 |
| Aug. | 122 (-63) | 58.2 (-2.0) | 53.8 | 58.1 | 56.0 | 0 | 3.63 (+1.05) | 18 | 1.62 | 3.6 |
| Sept. | 160 (+15) | 55.0 (-1.0) | 46.0 | 55.9 | 56.1 | 0 | 1.96 (-0.42) | 19 | 0.00 | 4.3 |
| Oct. | 91 (-14) | 53.3 (+4.4) | 50.2 | 52.6 | 54.1 | 1 | 2.10 (-0.89) | 21 | 0.70 | 4.4 |
| Nov. | 53 (-10) | 43.7 (+1.3) | 40.6 | 45.0 | 50.9 | 1 | 5.31 (+2.50) | 20 | 4.64 | 4.3 |
| Dec. | 53 (+8) | 42.5 (+3.9) | 38.8 | 41.7 | 46.7 | 11 | 2.00 (-0.56) | 17 | 1.76 | 6.6 |
| Year* | 1304 (-230) | 47.8 (-0.4) | 42.7 | 48.2 | 49.2 | 90 | 31.20 (+2.73) | 197 | 15.07 | 5.1 |

54/E/2.1

(3) Number of days rainfall was 0.01 in. or more.
 (4) At 2 metres above ground level.

(1) Mean of maximum and minimum.
 (2) Number of nights grass minimum was 30°F or less

* Mean or total.

54/E/2.2

METEOROLOGICAL RECORDS WOBURN 1954

| Month | Total hours of Sunshine | Mean Temperature (°F) | | Grass minimum: °F | Total rainfall (in.) 8" gauge | Rain (2) days |
|-----------|-------------------------|-----------------------|-----------------|-------------------|-------------------------------|---------------|
| | | Air (1) | In ground 1 ft. | | | |
| January | 62 | 36.1 | 37.6 | 27.0 | 0.91 | 9 |
| February | 69 | 36.0 | 35.9 | 25.6 | 2.22 | 17 |
| March | 101 | 42.0 | 41.3 | 32.1 | 2.38 | 13 |
| April | 175 | 44.2 | 46.8 | 28.3 | 0.23 | 7 |
| May | 133 | 51.9 | 52.7 | 39.1 | 2.61 | 16 |
| June | 132 | 56.4 | 58.6 | 45.1 | 3.03 | 17 |
| July | 135 | 58.1 | 60.2 | 45.5 | 2.47 | 20 |
| August | 120 | 58.6 | 59.2 | 47.0 | 3.50 | 20 |
| September | 166 | 55.5 | 56.3 | 43.2 | 1.99 | 20 |
| October | 100 | 53.5 | 52.8 | 43.6 | 2.28 | 21 |
| November | 55 | 44.0 | 44.6 | 32.5 | 4.17 | 23 |
| December | 61 | 43.3 | 41.6 | 33.5 | 2.24 | 15 |
| Year* | 1309 | 48.3 | 49.0 | 36.9 | 28.03 | 198 |

(1) Mean of maximum and minimum.

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

* Mean or total.