

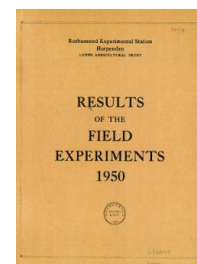
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Yields of the Field Experiments 1950

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Miscellaneous Data

Rothamsted Research

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

ROTATIONS 1950

| Manures | % Organic Matter | % N | % P ₂ O ₅ | % K ₂ O |
|-----------------------|------------------|------|---------------------------------|--------------------|
| Three Course Rotation | | | | |
| Chaffed Straw | 83.3 | 0.52 | 0.16 | 0.84 |
| Adco | 16.9 | 0.54 | 0.31 | 0.29 |
| Sulphate of Ammonia | - | 21.0 | - | - |
| Nitrate of Soda | - | 15.5 | - | - |
| Superphosphate | - | - | 19.5 (total) | - |
| Muriate of Potash | - | - | - | 57.4 (1) |
| Sulphate of Potash | - | - | - | 48.0 (2) |

- (1) For barley and sugar beet.
 (2) For potatoes.

| | | | | |
|----------------------|------|------|--------------|------|
| Four Course Rotation | | | | |
| Chaffed Straw | 83.3 | 0.52 | 0.16 | 0.84 |
| Adco | 16.9 | 0.54 | 0.31 | 0.29 |
| Dung | 21.5 | 0.67 | 0.28 | 1.12 |
| Sulphate of Ammonia | - | 21.0 | - | - |
| Superphosphate | - | - | 19.5 (total) | - |
| Mineral Phosphate | - | - | 33.3 | - |
| Muriate of Potash | - | - | - | 57.4 |

| | | | | |
|---------------------|---|------|------------------|----------|
| Six Course Rotation | | | | |
| Sulphate of Ammonia | - | 21.0 | - | - |
| Superphosphate | - | - | 17.5 (total) (3) | - |
| | - | - | 19.5 (total) (4) | - |
| Muriate of Potash | - | - | - | 57.4 (5) |
| Sulphate of Potash | - | - | - | 48.0 (6) |

- (3) For wheat, rye and clover.
 (4) For potatoes, sugar beet and barley.
 (5) For all crops except potatoes.
 (6) For potatoes.

METEOROLOGICAL RECORDS ROTHAMSTED 1950

(Departure from long period means in brackets)

| Month | Total Hours of Sunshine | Mean Temperature (°F) | | | | Ground Frosts (2) | Rainfall (in) 1/100 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. | 36 (-17) | 38.3 (+0.9) | 35.9 | 40.1 | 45.1 | 14 | 1.00 (-1.54) | 15 | 0.33 | 4.7 |
| Feb. | 58 (-12) | 41.7 (+3.3) | 37.6 | 40.0 | 42.7 | 10 | 4.61 (+2.74) | 22 | 4.11 | 5.7 |
| Mar. | 126 (+9) | 44.5 (+3.2) | 39.0 | 42.9 | 43.6 | 11 | 0.89 (-1.02) | 15 | - | 4.2 |
| Apr. | 147 (-9) | 45.3 (-0.5) | 37.9 | 44.8 | 45.5 | 7 | 1.95 (-) | 19 | 0.14 | 6.0 |
| May | 153 (-45) | 51.3 (-0.6) | 45.5 | 51.3 | 48.1 | 3 | 2.03 (-0.12) | 12 | 0.35 | 4.7 |
| June | 261 (+58) | 60.8 (+3.5) | 53.2 | 62.4 | 53.4 | 0 | 1.56 (-0.62) | 10 | 0.06 | 3.2 |
| July | 189 (-7) | 60.3 (-0.4) | 53.6 | 62.3 | 57.1 | 0 | 5.50 (+2.96) | 15 | 2.51 | 2.9 |
| Aug. | 165 (-21) | 59.9 (-0.3) | 54.5 | 61.2 | 58.6 | 0 | 3.54 (+1.00) | 18 | 1.09 | 2.5 |
| Sept. | 115 (-32) | 55.0 (-1.1) | 50.1 | 55.6 | 57.4 | 0 | 3.33 (+0.98) | 25 | 1.08 | 4.1 |
| Oct. | 104 (-1) | 59.1 (+0.2) | 44.8 | 50.1 | 54.5 | 5 | 0.62 (-2.41) | 13 | 0.10 | 3.3* |
| Nov. | 56 (-7) | 41.9 (-0.5) | 39.2 | 42.9 | 49.5 | 10 | 5.39 (+2.64) | 24 | 4.13 | 5.6 |
| Dec. | 41 (-4) | 32.9 (-5.7) | 30.3 | 36.4 | 44.6 | 21 | 1.71 (-0.88) | 19 | 0.91 | 5.8 |
| Year | 1451 (-88) | 48.4 (+0.1) | 43.5 | 49.2 | 50.0 | 81 | 32.13 (+3.72) | 207 | 14.81 | 4.4 |

(1) Mean of Maximum and Minimum. *Record for 30 days.

(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.

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