

FIELD EXPERIMENTS 1954

Crop: Potatoes.

Field: Park

Experiment: N.P.K. Manuring on Majestic Potatoes.

Treatments & Layout: 27 plot single replication all combinations of following treatments:-

1) Nitrogen as Sulphate of Ammonia

- at a) 3 cwt per acre.
- b) 4½ cwt per acre.
- c) 6 cwt per acre.

3) Potash as 50% Muriate

- at a) 2 cwt per acre.
- b) 3 cwt per acre.
- c) 4 cwt per acre.

2) Superphosphate

- at a) 4 cwt per acre.
- b) 6 cwt per acre.
- c) 8 cwt per acre.

+ 3 control (No Manuring) Plots.

Plot Size:

Manuring with dates of:

No Dung applied

Treatment artificials applied 8th April, 1954.

Date of Drilling: 8th April

Variety: Majestic

Seed Rate: -

Date of Harvest: 18th October.

Date of Riddling: 21st October.

Remarks (previous cropping, cultivations, etc.)

| | | | |
|-------------------|------|---------------|-------------|
| Previous cropping | 1953 | Spring Barley | (Farm crop) |
| | 1952 | Sugar Beet | (Farm crop) |
| | 1951 | Spring Barley | (Farm crop) |
| | 1950 | Winter Wheat | (Farm crop) |

Riddle size 2" top
1½" bottom

Note Book No. Potato Note Book.

✓ 294

Potato Manuring Trials 1954 - Majestic

Summary of Results

| Sulphate of Ammonia cwt per acre | Total Yield tons per acre | | Yield of Ware tons per acre | | Yield of Seed tons per acre | | Nitrogen Mean Yields tons per acre for:- | | | | | | |
|-------------------------------------|------------------------------------|--------------------------------|------------------------------------|--------------------------------|------------------------------------|--------------------------------|---|------|------|------|------|------|------|
| | Levels of Super in cwt per acre | Superphosphate cwt per acre | Levels of Super in cwt per acre | Superphosphate cwt per acre | Levels of Super in cwt per acre | Superphosphate cwt per acre | Total | Ware | Seed | | | | |
| 3 | 4 | 18.0 | 18.4 | 17.6 | 15.1 | 15.7 | 14.6 | 2.8 | 2.7 | 3.0 | 18.0 | 15.1 | 2.8 |
| 4½ | 6 | 17.0 | 18.5 | 18.8 | 14.5 | 15.3 | 15.5 | 2.6 | 2.2 | 3.3 | 18.1 | 15.1 | 2.7 |
| 6 | N.S. | 17.4 | 18.4 | 18.5 | 14.8 | 15.5 | 15.7 | 2.6 | 2.9 | 2.8 | 18.1 | 15.3 | 2.8 |
| | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |

| Sulphate of Ammonia cwt per acre | Levels of Potash cwt per acre | | Levels of Potash cwt per acre | | Levels of Potash cwt per acre | |
|-------------------------------------|----------------------------------|------|----------------------------------|------|----------------------------------|------|
| | 2 | 3 | 4 | 2 | 3 | 4 |
| 3 | 18.1 | 17.6 | 18.3 | 15.0 | 16.2 | 15.2 |
| 4½ | 18.2 | 18.0 | 18.3 | 14.2 | 15.3 | 15.7 |
| 6 | 18.2 | 18.5 | 17.6 | 15.3 | 15.5 | 15.2 |
| | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |

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Yield of Seed

Yield of Ware

Total Yield

| Superphosphate owt per acre | Potash | | | | Potash | | | | Phosphate Mean Yields tons per acre for:- | | |
|--------------------------------|--------|------|------|------|--------|------|------|------|--|------|-----------------------|
| | 2 | 3 | 4 | 4 | 2 | 3 | 4 | 4 | Total | Ware | Seed |
| 4 | 18.4 | 17.3 | 16.6 | 15.4 | 14.7 | 14.3 | 14.3 | 14.3 | 17.4 | 14.8 | 2.7 |
| 6 | 18.4 | 17.9 | 19.1 | 14.7 | 15.5 | 16.3 | 16.3 | 2.4 | 18.5 | 15.5 | 2.6 |
| 8 | 17.6 | 18.8 | 18.4 | 14.4 | 15.8 | 15.6 | 15.6 | 3.0 | 18.3 | 15.3 | 3.0 |
| | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| Potash Mean Yields | 18.2 | 18.0 | 18.1 | 14.8 | 15.3 | 15.4 | 15.4 | 2.7 | 2.7 | 2.7 | N.S. for all columns. |
| Control Plots | | 11.7 | | | 8.8 | | | 2.9 | | | |
| Coeff. of Variation | | 5.2% | 9% | | 9.5% | | | - | | | |

✓SPM