

Serial No.

File C.1.

FIELD EXPERIMENTS 1955

Crop: Potatoes (Majestic)

Field: Loke Piece

Experiment: Level of Manuring

Treatments & Layout: 3x3x3 Factorial Design, including 3 extra plots receiving no fertilizer, this giving a total of 30 plots.

Nitrogen:- 3wt. per acre of Sulphate of Ammonia (20.6%N)
 4½ " " " " " " " " "
 6 " " " " " " " " "

Phosphate:- 4wt. per acre of Superphosphate (18%P₂O₅)
 6 " " " " " " " " "
 8 " " " " " " " " "

Potash:- 2wt. per acre of Muriate of Potash (50%K₂O)
 3 " " " " " " " " "
 4 " " " " " " " " "

Plot Size: Treatment: 10 rows @ 28" x 10yd. Harvest:-6 rows x 8½yd.

Manuring with dates of:

28th March - 1st April Treatment fertilizer applied

Date of Drilling: 4th April

Variety: Majestic

Seed Rate: 18" spacing

Date of Anti-Blight Spraying:- 5th July, 23rd July and 6th August

Date of Scoring for Vigour of Growth:- 16th July

Date of Sulphuric Acid spraying:- 12th September

Date of Harvest:- 17th and 18th October

Remarks (previous cropping, cultivations, etc.)

1954. Spring Cereals

1953. Peas

1952. Barley

Note Book No.



Results of Majestic Trial

Total Yield in Tons/Acre

<u>Nitrogen</u> <u>S/A in owt./acre</u>	<u>Superphosphate in owt./acre</u>			<u>Nitrogen</u> <u>Means</u>
	4	6	8	
3	10.8	11.4	12.2	11.5
4½	12.0	12.8	12.2	12.3
6	12.1	12.7	12.7	12.5
<u>Muriate of Potash in owt./acre</u>				<u>Sig. Diff. 0.7</u>
	2	3	4	
3	11.1	11.2	12.1	
4½	11.7	12.7	12.6	
6	12.1	12.2	13.2	
<u>Superphosphate</u> <u>in owt./acre</u>				<u>Phosphate</u> <u>Means</u>
4	11.2	11.7	11.9	11.6
6	11.5	12.6	12.8	12.2
8	12.1	11.8	13.1	12.4
<u>Potash Means</u>	11.6	12.0	12.6	N.S.

Sig. Diff. for Potash Means:- 0.7

Mean Yield of Control Plots:- 8.5 tons/acre

Coefficient of Variation:- 5.18%

Yield of Ware only in Tons/Acre (Top Riddle Size:- 1½")

<u>Nitrogen</u> <u>S/A in owt./acre</u>	<u>Superphosphate in owt./acre</u>			<u>Nitrogen</u> <u>Means</u>
	4	6	8	
3	10.1	10.7	11.5	10.7
4½	11.2	12.2	11.5	11.6
6	11.3	11.9	11.9	11.7
<u>Muriate of Potash in owt./acre</u>				<u>Sig. Diff. 0.7</u>
	2	3	4	
3	10.4	10.4	11.4	
4½	11.0	11.9	12.0	
6	11.3	11.4	12.5	
<u>Superphosphate</u> <u>in owt./acre</u>				<u>Phosphate</u> <u>Means</u>
4	10.5	10.8	11.3	10.9
6	10.8	11.8	12.2	11.6
8	11.4	11.1	12.4	11.6
<u>Potash Means</u>	10.9	11.6	11.6	N.S.

Sig. Diff. for Potash Means:- 0.7

Mean Yield of Control Plots:- 8.1 tons/acre

Coefficient of Variation:- 5.14%



Results of Majestic TrialScores (1-10) for vigour of Growth on 16th July

<u>Nitrogen</u> <u>S/A in crt./acre</u>	<u>Superphosphate in crt./acre</u>			<u>Nitrogen</u> <u>Means</u>
	4	6	8	
3	5	5	6	5½
4½	6½	7	6½	7
6	7	7½	7	7
	<u>Muriate of Potash in crt./acre</u>			
	2	3	4	
3	5	5	6	
4½	7	7	6½	
6	7	7	7	
<u>Superphosphate</u> <u>in crt./acre</u>				<u>Phosphate</u> <u>Means</u>
4	6½	6	6	6½
6	6	6½	7	6½
8	6½	6	7	6½
<u>Potash Means</u>	6½	6½	6½	

Mean Score of Control Plots:- 3