

FIELD EXPERIMENTS 1957

Crop: Potatoes

Field: 17 acres.

Experiment: Level of Manuring

(N x P x K)

Treatments & Layout: 3 x 3 x 3 Factorial design including 3 control plots receiving no fertiliser. Total 30 plots.

Nitrogen:-	3	cwt	per	acre	of	Sulphate	of	Ammonia	(20.6% N)
	4½	"	"	"	"	"	"	"	"
	6	"	"	"	"	"	"	"	"
Phosphate:-	4	cwt	per	acre	of	Superphosphate	(18% P ₂ O ₅)		
	6	"	"	"	"	"	"	"	"
	8	"	"	"	"	"	"	"	"
Potash:-	2	cwt	per	acre	of	Muriate	of	Potash	(50% K ₂ O)
	3	"	"	"	"	"	"	"	"
	4	"	"	"	"	"	"	"	"

Plot Size:

Treatments: 10 yds x 9 rows at 28".

Harvest: 7 rows at 8 yards

Manuring with dates of:

No F.Y.M. 9th April 1957. Treatment fertilizer.

Date of drilling: 9th April 1957 Variety: King Edward. Seed Rate:

Date of Harvest: 11th October 1957.

Date of

Remarks (previous cropping, cultivations, etc.)

1956	Spring Cereals
1955	Sugar Beet
1954	Vining Peas.

Note Book No.

Results of King Edwards Trial 1957.

Yield of Ware in tons per acre.

Nitrogen cwt/acre of Sulphate of Ammonia	Phosphate cwt/acre of Supers.			Nitrogen Means
	4	6	8	
3	12.8	13.2	13.9	13.3
4½	12.0	14.8	13.8	13.5
6	12.9	13.0	13.0	13.0
	Potash cwt/acre of Muriate			
	2	3	4	
3	13.4	13.9	12.6	
4½	14.3	13.3	12.9	
6	13.1	13.9	12.0	
	Potash cwt/acre of Muriate			Phosphate Means
	2	3	4	
4	12.6	12.4	12.8	12.6
6	14.4	14.5	12.1	13.7
8	13.8	14.3	12.6	13.6
Potash Means	13.6	13.7	12.5	

No significant differences.

Mean yield of two control plots = 11.1 tons/acre.

Effects in tons/acre.

	Linear	Curvature
N	- 0.3	- 0.8
P	+ 1.0	- 1.2
K	- 1.1	- 1.3

Interaction

NP	- 0.3
NK	- 0.1
PK	- 0.5

No significant differences.