

FIELD EXPERIMENTS 1954.

Crop: Potatoes (King Edward)

Field: Outside Trial at
J. J. A. Kendall,
The Grove,
Ingham, Nr. Stalham.

Experiment: Level of Manuring.

Treatments & Layout: 3 x 3 x 3 Factorial design, plus 3 control plots receiving no fertilizer, giving a total of 30 plots.

Fertilizer Treatments:-

Nitrogen:- 3 cwt per acre of Sulphate of Ammonia (20.6% N).
4¹/₂ " " " " " " " "
6 " " " " " " " "

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

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

Plot Size: *Treatment:- 15' x 6 rows @ 28" Harvest:- 15' x 4 rows*

Manuring with dates of:

Fertilizer Treatments applied on April 14th, 1954.

Date of Drilling: April 15th Variety: King Edward Seed Rate:

Date of Harvest: November 3rd.

Date of

Remarks (previous cropping, cultivations, etc.)

The potatoes followed barley.

Note Book No.

Results of King Edward Trial

Total Yield in Tons per acre

Nitrogen S/A in cwt/acre	Superphosphate in cwt/acre			Nitrogen Means
	4	6	8	
3	11.72	11.07	12.07	11.62
4½	10.95	11.58	11.87	11.47
6	11.32	11.59	12.94	11.95
				N.S.

	50% Muriate of Potash in cwt/acre			
	2	3	4	
3	10.38	11.69	13.20	
4½	10.56	11.67	12.17	
6	11.93	12.06	11.86	

Superphosphate in cwt/acre				Phosphate Means
4	10.82	11.69	11.47	11.33
6	10.02	11.41	12.81	11.41
8	12.03	11.92	12.94	12.29
				N.S.

Potash Means	10.96	11.67	12.41	N.S.
--------------	-------	-------	-------	------

Coefficient of Variation = 14.1%
 Mean Yield of Control Plots = 2.15 tons per acre.

Yield of Ware only in Tons per acre

Nitrogen S/A in cwt/acre	Superphosphate in cwt/acre			Nitrogen Means
	4	6	8	
3	11.29	10.36	11.59	11.08
4½	10.47	11.24	11.42	11.04
6	10.90	11.16	12.43	11.50
				N.S.

	Muriate of Potash in cwt/acre			
	2	3	4	
3	9.86	10.73	12.64	
4½	10.10	11.22	11.81	
6	11.64	11.49	11.36	

Superphosphate in cwt/acre				Phosphate Means
4	10.39	11.13	11.13	10.88
6	9.60	10.87	12.27	10.92
8	11.61	11.42	12.41	11.82
				N.S.

Potash Means	10.53	11.15	11.94	N.S.
--------------	-------	-------	-------	------

Coefficient of Variation = 13.8%
 Mean Yield of Control Plots = 1.87 tons per acre.