

FIELD EXPERIMENTS 1957

Crop: Potatoes.

Field: 17 acres.

Experiment: Seed treatment trial and observation plots.  
(Waddespoon)

Treatments &amp; Layout: 5 x 5 Latin square.

- Treatments
1. King Edward unwashed and untreated.
  2. " " washed only.
  3. " " washed and sterilised with phenyl mercuric acetate.
  4. Doon Star unwashed and untreated.
  5. " " washed and sterilised with phenyl mercuric acetate.

Plot Size: Treatments:- 10 yds x 2 rows @ 28".

Harvest:- 8 yds x 2 rows @ 28".

Manuring with dates of:

10 cwt of 10:10:15 compound per acre.

12 loads of F.Y.M. per acre.

Date of drilling: 9th April Variety: King Edward Seed Rate: -  
Doon Star

Date of harvest: October 15th, 1957.

Date of observations 25th May 1957 Emergence counts. 10th June 1957 observations.  
13th June 1957 counts of undersized plants.

Remarks (previous cropping, cultivations, etc.)

1956	Spring Cereals.
1955	Sugar beet.
1954	Vining Peas.

Note Book No.

Seed treatment of Potatoes Trial 1957

Total Yield of Tubers in Tons per acre.

King Edward	untreated	18.65	
"	washed	19.45	
"	treated	17.53	Not significant
Doon Star	untreated	19.98	Coefficient of variation 7.5%
"	treated	18.88	

Yield of Ware in Tons per acre.

King Edward	untreated	16.8	
"	washed	17.2	
"	treated	15.9	Significant difference 2.0 tons/ac.
Doon Star	untreated	19.5	Coefficient of variation 8.3%
"	treated	18.4	

Counts of undersized shoots (June 13th 1957)  
Plants below 6" high per plot

King Edward	untreated	1.6	
"	washed	2.8	
"	treated	8.0	Significant difference 2.8
Doon Star	untreated	0.4	Coefficient of variation 5.8%
	treated	0.4	

Emergence counts (June 13th 1957)  
Plants emerging per plot.

King Edward	untreated	33.0	
	washed	32.8	
	treated	33.0	
Doon Star	untreated	32.8	
	treated	32.8	