

FIELD EXPERIMENTS 1966

Serial No. C I

Stat. File 23 IV

CROP: Potatoes

Field 24 Acres

EXPERIMENT: Periodic Lifting

TREATMENTS AND LAYOUT: 4 randomised blocks with split plots

Main : chitted v. unchitted

Sub : 5 times of top removal

1. 25th July
2. 4th August
3. 15th August
4. 24th August
5. Maturity (13th September)

Plot Size: Treatment: 15 yards x 4 rows at 30 inches

Harvest: 15 yards x 2 rows at 30 inches

Manuring with dates of : 8 owt 13 : 13 : 20 in spring

Date of:

Variety: King Edward

Planting: 31st March

Blight sprays: 30th June - mancozeb

23rd July - mancozeb

4th August - fentin hydroxide

} Applied by helicopter

Harvesting: 3rd and 4th October - Willd Bucher 2 row lifter

Riddling: 4th November (2" x 1 $\frac{3}{8}$ " riddles)

Previous Cropping: 1965 : Vining Peas

1964 : Spring barley

1963 : Sugar beet

Remark:

1. Trial area not burnt off - Maturity - tops 'dead' by 13th September.
2. Unsprouted seed (Scotch) held in cold store (under 40⁰F) at Terrington from the 22nd December to 23rd March.

Periodic Lifting Trial 1966Total Yield in tons per acre

Time of Top Removal	Chitted	Unchitted	Means Time of Top Removal
25th July	8.3	5.2	6.7
4th August	13.1	9.9	11.5
15th August	15.6	14.0	14.8
24th August	17.7	15.1	16.4
Maturity (13th September)	19.3	17.2	18.2
Seed Treatment means	14.8	12.3	13.5

	S.E. \pm	S.E. as % G.M.
Whole Plot means (Chitted v. Unchitted)	0.51	7.6
Sub-Plot means (Time of Top Removal)	0.45	9.5
Individual sub-plots within a whole plot	0.64	
Individual sub-plots between whole plots	0.77	

Periodic Top Removal 1966Yield of Ware over 2" in tons per acre

Time of Top Removal	Chitted	Unchitted	Means Time of Top Removal
25th July	4.8	2.1	3.5
4th August	9.2	5.3	7.2
15th August	11.5	10.6	11.0
24th August	13.6	11.5	12.6
Maturity (13th September)	16.0	13.6	14.8
Seed Treatment means	11.0	8.6	9.8

	S.E. \pm	S.E. as % G.M.
Whole Plot means (Chitted v. Unchitted)	0.34	7.0
Sub-Plot means (Time of Top Removal)	0.41	12.0
Individual sub-plots within a whole plot	0.59	
Individual sub-plots between whole plots	0.63	

Periodic Lifting Trial 1966Percentage of Ware over 2"

Time of Top Removal	Chitted	Unchitted	Means Time of Top Removal
25th July	58.5	41.0	49.8
4th August	70.0	53.7	61.8
15th August	73.6	76.2	74.9
24th August	76.7	76.1	76.4
Maturity (13th September)	82.8	79.0	80.9
Seed Treatment means	72.3	65.2	68.8

	S.E. †	S.E. as % G.M.
Whole Plot means (Chitted v. Unchitted)	0.37	1.1
Sub-Plot means (Time of Top Removal)	2.65	10.9
Individual sub-plots within a whole plot	3.75	
Individual sub-plots between whole plots	3.37	

Periodic Lifting Trial 1966Yield of Ware over 1 $\frac{1}{2}$ " in tons per acre

Time of Top Removal	Chitted	Unchitted	Means Time of Top Removal
25th July	7.4	4.2	5.8
4th August	12.2	8.7	10.5
15th August	14.7	13.1	13.9
24th August	16.7	14.3	15.5
Maturity (13th September)	18.5	16.3	17.4
Seed Treatment means	13.9	11.3	12.6

	S.E. \pm	S.E. as % G.M.
Whole Plot means (Chitted v. Unchitted)	0.478	7.6
Sub-Plot means (Time of Top Removal)	0.433	9.7
Individual sub-plots within a whole plot	0.612	
Individual sub-plots between whole plots	0.727	

Periodic Lifting Trial 1966Percentage of Ware over 1 $\frac{1}{4}$ "

Time of Top Removal	Chitted	Unchitted	Means Time of Top Removal
25th July	89.5	81.0	85.2
4th August	93.0	88.5	90.7
15th August	94.0	93.5	93.8
24th August	94.1	94.7	94.4
Maturity (13th September)	95.8	95.0	95.4
Seed Treatment means	93.3	90.5	91.9

	S.E. \pm	S.E. as % G.M.
Whole Plot means (Chitted v. Unchitted)	0.24	0.52
Sub-Plot means (Time of Top Removal)	0.72	2.21
Individual sub-plots within a whole plot	0.02	
Individual sub-plots between whole plots	0.94	