

## FIELD EXPERIMENTS 1969

Serial No. C.1.

Stat. File 25 V

CROP: Potatoes

Field Wheate Close

EXPERIMENT: Rate of Bulking

## TREATMENTS AND LAYOUT:

2 Randomised blocks with split plots.

Main plots 1. Variety. Pentland Crown  
 Maria Piper  
 Bintje

2. Seed Treatment. Bagged v. Chitted

Sub Plots. Four lifts at approx. 2 week intervals in  
 July and August.

Plot Size: Treatment: 3 x 50<sup>m</sup> rows x 30 yards.Harvest: 1 x 50<sup>m</sup> row x 30 yards.

Manuring with dates of : 10 owt 13.13.20 before planting.

Date of ~~Variety~~:

Planting: 7th May. 16 inch seed spacing.

Ridging: 10th May.

Inter-row cultivation: 18th and 23rd June.

Ridging: 11th July.

Blight spraying: 28th June, 11th July, 31st July, 2nd Sept.  
 1½ lbs. "Fennite A" in 25 gals. H<sub>2</sub>O/acre

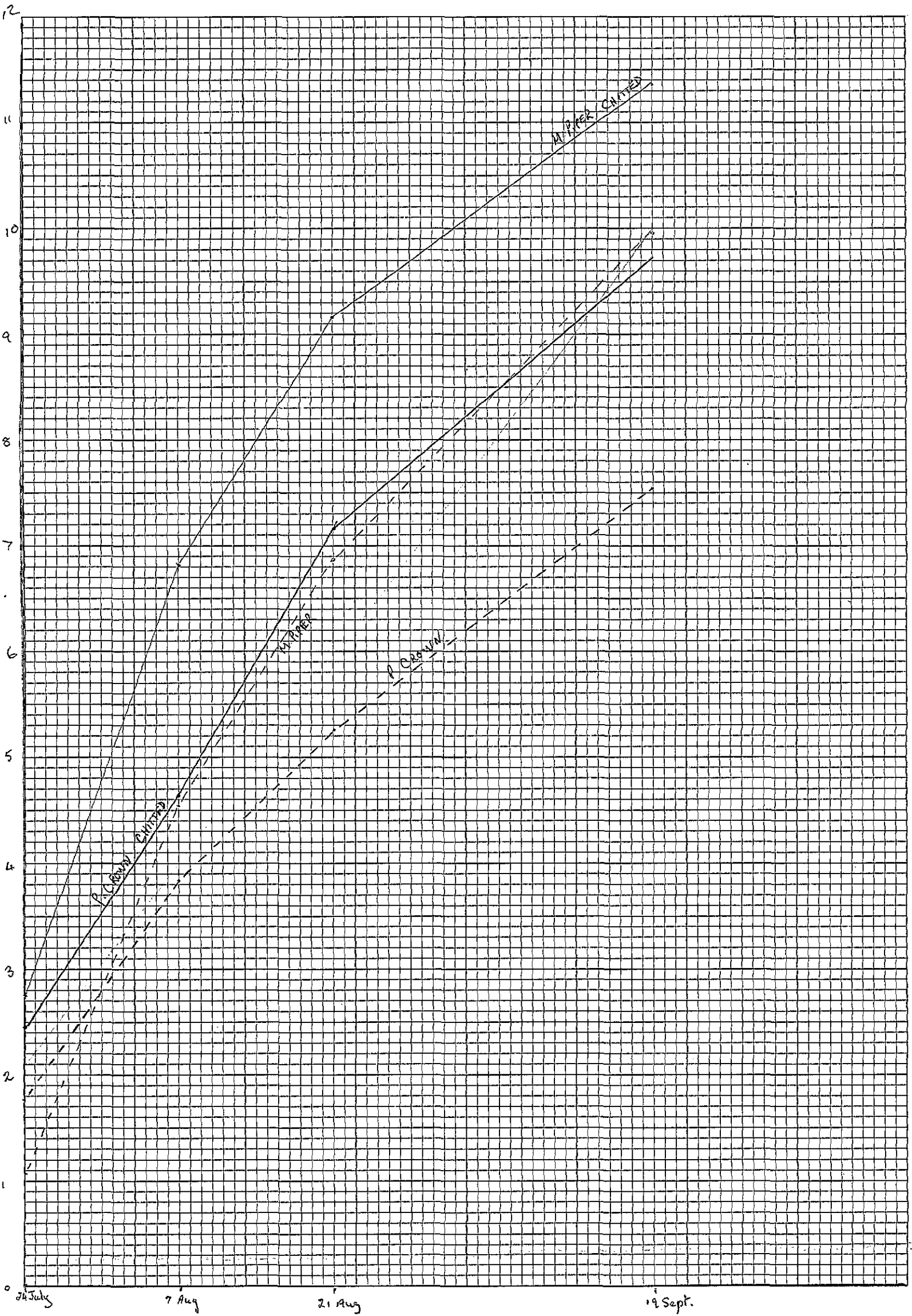
Top removal: 24th July, 7th August, 21st August.

Burning off: 19th September. Sulphuric acid.

Lifting: 7th November.

Remark:

Previous crops. 1968: Barley  
 1967: Sugar beet



Wave / Total

24 July

7 Aug

21 Aug

19 Sept

Rate of BulkingTotal yield (tons/acre)

Variety	Date of Lifting			
	24 July	7 Aug	21 Aug	19 Sept.
Maris Piper				
Chitted	3.65	7.62	9.71	11.89
Unchitted	2.72	5.80	8.25	10.77
Bintje				
Chitted	3.58	5.94	8.42	10.25
Unchitted	2.72	6.07	9.96	10.11
Pentland Crown				
Chitted	2.72	4.81	7.53	9.97
Unchitted	2.06	4.22	5.55	7.87
S.E. (per whole/sub plot) <sup>†</sup> 0.348 / 0.725				
S.E. as % G.M. (per whole/sub plot) 5.14% / 10.75%				

Yield ware (tons/acre)

Figures in brackets refers to yield ware as % total yield

Variety	Date of Lifting			
	24 July	7 Aug	21 Aug	19 Sept
Maris Piper				
Chitted	2.75(75.7)	6.81(89.6)	9.16(94.2)	11.37(95.5)
Unchitted	1.06(39.0)	4.55(78.4)	6.86(83.1)	9.95(92.4)
Bintje				
Chitted	2.69(74.6)	5.36(89.8)	7.90(93.8)	9.77(95.2)
Unchitted	1.25(45.5)	4.78(78.7)	8.83(88.6)	9.30(92.0)
Pentland Crown				
Chitted	2.45(90.2)	4.62(96.2)	7.18(95.4)	9.72(97.5)
Unchitted	1.77(86.1)	3.84(90.8)	5.26(95.1)	7.53(95.8)
S.E. <sup>†</sup> (per whole/sub plot) 0.328(1.10) / 0.676 (2.65)				
S.E. as % G.M. (per whole/sub plot) 5.44%(1.29%) / 11.20% (3.10%)				

## Rate of Bulking

Yield chat ( $< 1\frac{1}{2}^*$ )

Variety	Date of Lifting			
	24 July	7 Aug	21 Aug	19 Sept
Maris Piper				
Chitted	0.90	0.81	0.55	0.53
Unchitted	1.66	1.25	1.39	0.82
Bintje				
Chitted	0.89	0.58	0.52	0.49
Unchitted	1.47	1.30	1.13	0.81
Pentland Crown				
Chitted	0.27	0.18	0.35	0.25
Unchitted	0.29	0.39	0.27	0.33
S.E. $\pm$ (per whole/sub plot)			0.071/	0.159
S.E. as % G.M. (per whole/sub plot)			9.73%	/ 21.85%

Yield Seed ( $2^* - 1\frac{1}{4}^*$ )

Variety	Date of Lifting			
	24 July	7 Aug	21 Aug	19 Sept
Maris Piper				
Chitted	2.65	4.15	3.37	3.04
Unchitted	2.10	4.42	5.25	4.16
Bintje				
Chitted	2.57	2.67	3.15	2.70
Unchitted	2.17	4.03	4.82	3.92
Pentland Crown				
Chitted	1.30	1.05	1.63	1.31
Unchitted	1.40	1.78	1.82	1.56
S.E. $\pm$ (per whole/sub plot)			0.155	/ 0.437
S.E. as % G.M. (per whole/sub plot)			5.55%	/ 15.65%