

Serial No. C. 1

(Stat file 23 IV)

FIELD EXPERIMENTS 1964

Crops: Potatoes Field: Carr's Piece

Experiment: Periodic Lifting

Treatments and Layout:

Four randomised blocks with split plots

Haulm cut off at ground level at the following times:-

Chitted	1	Unchitted	6	24th July
	2		7	4th August
	3		8	15th August
	4		9	24th August
	5		10	Maturity (Natural senescence)

Plot size: Treatment: 17 yds x 2 rows at 30"

Harvest: 14 yds x 2 rows at 30"

Manuring with dates of:

12 loads F.Y.M. ploughed in in autumn

9 cwt 15:15:20 compound broadcast on flat before planting

Date of planting: 22nd April Variety: King Edward

Date of harvest: 22nd and 23rd September

Date of Riddling: 24th September

Remarks (previous cropping, cultivations, etc.)

Blight sprays	1st	25th June -	Dithane	} Aerial sprayed
	2nd	15th July -	Blitane	
	3rd	21st July -	Blitane	

1963	Peas
1962	Winter barley
1961	Sugar beet

PotatoesResultsTotal yield in tons per acre

Time of top removal	Chitted	Unchitted	Means Time of top removal
24th July	11.4	10.5	10.8
4th August	13.1	11.5	12.2
15th August	13.6	12.9	13.5
24th August	14.5	13.2	13.8
Maturity	15.5	14.1	14.7
Means Seed Treatment	13.5	12.4	

	S.E.	S.E. as % G.M.	Sig. diff. (5% point)
Whole plot means (chitted v. unchitted)	\pm 0.26	4.1	1.19
Sub plot means (time of top removal)	\pm 0.26	6.1	0.82
Sub plot means at same whole plot level	\pm 0.40	.	1.17
Sub plot means at different whole plot level	\pm 0.44	.	1.28

Yield of Ware over 2* in tons per acre

Time of top removal	Chitted	Unchitted	Means Time of top removal
24th July	5.8	3.1	4.4
4th August	6.3	4.5	5.4
13th August	8.0	5.4	6.7
24th August	8.3	6.2	7.3
Maturity	9.5	7.1	8.3
Means Seed Treatment	7.6	5.2	

	S.E.	S.E. as % G.M.	Sig. diff.
Whole plot means (chitted v. unchitted)	± 0.19	5.9	(5% point) 0.85
Sub plot means (time of top removal)	± 0.32	14.1	0.93
Sub plot means at same whole plot level	± 0.45		1.31
Sub plot means at different whole plot level	± 0.44		1.28

½ Ware over 2nd

Time of top removal	Chitted	Unchitted	Means Time of top removal
24th July	50.7	29.5	40.0
4th August	48.4	40.1	44.2
13th August	58.8	41.5	50.1
24th August	57.9	47.1	52.5
Maturity	61.6	50.3	56.0
Means Seed Treatment	55.5	41.6	

	S.E.	S.E. as % G.M.	Sig. diff.
Whole plot means (chitted v. unchitted)	± 1.29	5.3	(5% point) 5.80
Sub plot means (Time of top removal)	± 1.95	11.5	5.64
Sub plot means at same whole plot level	* ± 2.73		7.97
Sub plot means at different whole plot level	± 2.76		8.06

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

Time of top removal	Chitted	Unchitted	Means Time of top removal
24th July	10.4	8.7	9.6
4th August	12.0	10.0	11.0
15th August	12.8	11.5	12.2
24th August	13.4	12.0	12.7
Maturity	14.4	12.8	13.6
Means Seed Treatment	12.6	11.0	

	S.E.	S.E. as % G.M.	Sig. diff. (5% point)
Whole plot means (chitted v. unchitted)	+ - 0.22	3.8	1.00
Sub plot means (time of top removal)	+ - 0.29	6.9	0.84
Sub plot means at same whole plot level	+ - 0.41		1.19
Sub plot means at different whole plot level	+ - 0.43		1.26

% Ware over 12"

Time of top removal	Chitted	Unchitted	Means Time of top removal
24th July	91.5	84.3	87.8
4th August	91.9	88.6	90.2
15th August	94.1	89.0	91.5
24th August	95.8	90.4	92.1
Maturity	94.2	91.0	92.6
Means Seed Treatment	93.1	88.7	

	S.E.	S.E. as % G.M.	Sig. diff. (5% point)
Whole plot means (chitted v. unchitted)	± 0.25	0.5	1.12
Sub plot means (time of top removal)	± 0.74	2.3	2.16
Sub plot means at same whole plot level	± 1.05		3.07
Sub plot means at different whole plot level	± 0.97		2.83