

FIELD EXPERIMENTS 1963

Crop: Potatoes

Field: Gravel Pit

Experiment: Periodic Lifting

Treatments &amp; Layout: Haulm cut off at ground level at the following times:

Chitted	1.	Unchitted	6.	25 July
	2.		7.	2 August
	3.		8.	12 August
	4.		9.	22 August
	5.		10.	7 September (acid spray overall)

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

Harvest 15 " " " 30"

Manuring with dates of:

10 cwt 13:13:20 compound broadcast on flat before planting.

Date of drilling: April 22 Variety: King Edward ~~Seed-Box:~~Date of 2<sup>nd</sup> discard removal: 3 July

Date of harvest: 9 October

Remarks (previous cropping, cultivations, etc.)

1962 Winter Barley

1961 Sugar beet (S. End)

1960 Peas

Note Book No.

Chitted seed from farm store. Unchitted seed kept below 40°F. at Terrington until a few days before planting.

*J.H.*

ResultsTotal Yield in tons/acre

	Chitted	Unchitted	Means, Time of top removal
25 July	6.5	2.8	4.6
2 August	8.7	4.7	6.7 Sig. diff.
12 August	11.0	6.6	8.8 1.71 <del>***</del>
22 August	11.8	9.0	10.4
7 September	16.1	10.4	13.3
Means, Seed Treatment	10.8	6.7	Interaction N. S.

Sig. diff. 2.05 ~~\*\*\*~~

S.E. as % G.M. 18.9

Yield of Ware over 2" in tons/acre

	Chitted	Unchitted	Means, Time of top removal
25 July	2.6	0.4	1.5
2 August	4.0	0.9	2.5 Sig. diff.
12 August	6.5	2.1	4.3 1.27 <del>***</del>
22 August	8.4	3.9	6.2
7 September	12.3	5.4	8.8
Means, Seed Treatment	6.8	2.5	Interaction Sig. <del>***</del>

Sig. diff. 1.02 ~~\*\*\*~~

S.E. as % G.M. 26.5

ResultsYield of Ware over 1 $\frac{1}{8}$ " in tons/acre

	Chitted	Unchitted	Means, Time of top removal
25 July	5.6	1.8	3.7
2 August	7.9	3.7	5.8 Sig. diff.
12 August	10.4	5.7	8.1 1.58
22 August	11.3	8.1	9.7 <del>***</del>
7 September	15.6	9.6	12.6
Means. Seed Treatment	10.2	5.8	Interaction N.S.

Sig. diff. 1.81 ~~\*\*\*~~

S.E. as % G.M. 19.1

% Ware over 1 $\frac{1}{8}$ " (Angular Transformations)

	Chitted	Unchitted	Means, Time of top removal
25 July	86.3(68.5)	63.4(53.0)	74.9(60.7)
2 August	91.2(72.8)	77.6(62.0)	84.4(67.4) Sig. diff.
12 August	95.0(77.1)	85.6(68.0)	90.3(72.6) 3.00
22 August	95.8(78.2)	89.6(71.1)	92.8(74.7) <del>***</del>
7 September	96.8(80.1)	92.3(73.9)	94.6(77.0)
Means, Seed Treatment	93.0(75.3)	81.7(65.6)	(Interaction sig.) <del>***</del>

(Sig. diff. 3.24 ~~\*\*\*~~)

(S.E. as % G.M. 4.05)