

FIELD EXPERIMENTS 1967

Serial No. C1

Stat. File 25 V

Field 17 acres

CROP: Maincrop Potatoes

VARIETY: King Edward

EXPERIMENT: Periodic Lifting Trial

TREATMENTS AND LAYOUT: Four randomized blocks with split plots

Main Treatments: Chitted
 \ Unchitted
 chitted

Split ^{for} time of top removal

- 1st 25th July
- 2nd 4th August
- 3rd 14th August
- 4th 24th August
- 5th Maturity

Plot Size: Treatment: 15 yds. x 4 rows at 30"

Harvest: 15 yds. x 2 rows at 30"

Manuring with dates of : 8 cwt 15 : 15 : 20 cpd in spring

| Date of | Variety: |
|------------------------------|-------------------------------|
| planting 10th April | |
| blight sprays 1st July | (copper with maneb) |
| 27th July | (maneb with Fentin Hydroxide) |
| 21st August | (maneb with Fentin Hydroxide) |
| harvesting 16th October | |
| riddling 24th & 27th October | |

Remark:

Maturity on plots left untopped, reached by 2nd October

Previous cropping: 1966 Peas (vining)
1965 Spring Barley
1964 Sugar Beet

Periodic Lifting TrialSummary of Results

Total yield in tons per acre

| Time of Top Removal | Chilled | Unchilled | Top Removal means |
|------------------------|---------|-----------|-------------------|
| 25th July | 9.7 | 7.3 | 8.5 |
| 4th August | 10.6 | 9.4 | 10.0 |
| 14th August | 12.5 | 10.6 | 11.6 |
| 24th August | 14.2 | 13.4 | 13.8 |
| Maturity (2nd October) | 15.4 | 14.8 | 15.1 |
| | 12.5 | 11.1 | |

| | S.E. \pm | S.E. as % G.M. |
|---|------------|----------------|
| Whole Plot means (chilled v unchilled) | 0.51 | 5.2 |
| Sub plot means (Time of top Removal) | 0.51 | 7.5 |
| Individual sub plots within a whole plot | 0.45 | |
| Individual sub plots between whole plots | 0.49 | |

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Yield of Ware over 2nd tons per acre

| Time of Top Removal | Chilled | Unchilled | Top Removal means |
|-----------------------|---------|-----------|-------------------|
| 25th July | 3.73 | 0.95 | 2.34 |
| 4th August | 5.05 | 2.45 | 3.74 |
| 14th August | 6.51 | 4.70 | 5.61 |
| 24th August | 8.94 | 6.94 | 7.94 |
| Maturity 2nd October) | 9.60 | 8.74 | 9.17 |
| | 6.76 | 4.76 | |

| | S.E. \pm | S.E. as % G.M. |
|---|------------|----------------|
| Whole plot means (chilled v unchilled) | 0.137 | 4.76 |
| Sub plots means (Time of top removal) | 0.227 | 11.13 |
| Individual sub plots within a whole plot | 0.520 | |
| Individual sub plots between whole plots | 0.518 | |

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Yield of Ware over $1\frac{1}{8}$ " tongs per acre

| Time of Top Removal | Chilled | Unchilled | Top Removal means |
|------------------------|---------|-----------|-------------------|
| 25th July | 7.22 | 4.05 | 5.63 |
| 4th August | 8.49 | 6.49 | 7.49 |
| 14th August | 10.59 | 8.50 | 9.54 |
| 24th August | 12.46 | 10.92 | 11.69 |
| Maturity (2nd October) | 13.37 | 12.70 | 13.04 |
| | 10.43 | 8.53 | |

| | S.E. \pm | S.E. as % G.M. |
|---|------------|----------------|
| Whole plot means (chilled v unchilled) | 0.248 | 5.25 |
| Sub plots means (Time of top removal) | 0.228 | 6.79 |
| Individual sub plots within a whole plot | 0.322 | |
| Individual sub plots between whole plots | 0.380 | |

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Percentage of Ware over $1\frac{2}{8}$ "

| Time of Top Removal | Chilled | Unchilled | Top Removal Means |
|------------------------|---------|-----------|-------------------|
| 25th July | 74.4 | 55.9 | 65.2 |
| 4th August | 80.5 | 69.1 | 74.7 |
| 14th August | 84.6 | 79.9 | 82.3 |
| 24th August | 87.6 | 81.4 | 84.5 |
| Maturity (2nd October) | 86.6 | 85.7 | 86.2 |
| | 82.7 | 74.4 | |

| | S.E. \pm | S.E. as % G.M. |
|---|------------|----------------|
| Whole plot means (chilled v unchilled) | 0.572 | 1.46 |
| Sub plot means (Time of top removal) | 0.828 | 2.98 |
| Individual sub plots within a whole plot | 1.171 | |
| Individual sub plots between whole plots | 1.195 | |

Percentage of ware over 2"

| TIME OF TOP REMOVAL | CHILLED | UNCHILLED | TOP REMOVAL MEANS |
|------------------------|---------|-----------|-------------------|
| 25th July | 38.5 | 13.2 | 25.8 |
| 4th August | 47.5 | 26.0 | 36.8 |
| 14th August | 52.2 | 44.2 | 48.2 |
| 24th August | 62.7 | 51.7 | 57.2 |
| Maturity (2nd October) | 62.2 | 58.8 | 60.5 |
| | 52.6 | 38.8 | |

| | S.E. \pm | S.E. as % G.M. |
|---|------------|----------------|
| Whole plot means (Chilled v unchilled) | 1.193 | 5.22 |
| Sub plot means (Time of top removal) | 1.261 | 7.80 |
| Individual sub plots within a whole plot | 1.783 | |
| Individual sub plots between whole plots | 1.992 | |

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