

FIELD EXPERIMENTS 1962

Crops: Potatoes

Field: Church Piece

Experiment: Compaction Fertilizer Trial

Treatments & Layout: Split plot with four replications

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|-----------------|---|------------------------------------------------------------------------------------------------------------------------------------------|
| Main Treatments | 1 | Placed with $\frac{1}{2}$ of fertilizer inside planting share in contact with the tubers and remainder in bands either side of the seed. |
| | 2 | Sideband placement either side of the seed |
| | 3 | Fertilizer in band on surface immediately in front of planting share |
| | 4 | Fertilizer broadcast on surface ahead of planter - not worked in |
| Sub-Treatments | 1 | Compacted (tractor wheelings under each row) |
| | 2 | Loose soil (tractor wheelings came between rows) |

Plot size:	Treatment	4 rows x 51 yards
	Harvest	2 rows x 17 yards

Manuring with dates of: 15 cwt per acre of 10:10:15 compound.

Date of drilling April 9th Variety: King Edward Seed Rate:

Date of Emergence Counts: May 10th - May 25th

Date of Vigour Scores: May 30th - July 5th

Remarks: (previous cropping, cultivations etc.)

1959	Peas & Barley
1960	Sugar Beet
1961	Spring barley

Note Book No.

Competition - Fertiliser Trial 1932

var. King Edward

Summary Emergence Counts: (Expressed as % Max.)

DATE		$\frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3}$	SIDEBAND	BAND IN FRONT	BROADCAST	MEAN
May 10	L	15.7	26.7	18.0	58.1	25.4
	C	8.7	24.4	24.8	56.7	25.6
MEAN		11.2	25.5	19.8	57.4	
May 14	L	25.6	37.9	25.3	52.5	31.6
	C	14.6	33.1	36.9	52.5	34.2
MEAN		20.1	35.5	30.1	52.5	
May 18	L	42.9	49.4	38.0	68.5	48.9
	C	30.6	57.9	46.7	71.9	51.8
MEAN		36.8	53.6	40.8	70.1	
May 22	L	65.7	77.1	66.2	87.1	73.5
	C	56.7	76.9	72.9	90.6	74.5
MEAN		60.2	77.0	69.6	88.8	
May 26	L	67.5	82.1	74.4	89.6	78.4
	C	69.2	79.4	76.7	92.5	79.4
MEAN		68.5	80.7	75.5	91.1	

Summary Vigour Scores: (Expressed relative to best growth at each date)

DATE		$\frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3}$	SIDEBAND	BAND IN FRONT	BROADCAST	MEAN
May 30	L	40	70	58	80	62
	C	44	64	56	90	64
MEAN		42	66	56	85	
June 4	L	40	70	60	84	64
	C	44	60	56	96	64
MEAN		42	65	58	89	
June 7	L	48	76	64	92	70
	C	48	70	66	92	69
MEAN		48	73	65	92	
June 12	L	52	82	70	96	74
	C	56	76	72	92	74
MEAN		54	79	71	94	
June 19	L	72	76	75	79	76
	C	61	74	76	80	73
MEAN		66	75	76	80	
June 27	L	Vigour differences indistinguishable.				
	C					
MEAN						
July 5	L	90	100	90	62	85
	C	75	92	92	70	84
MEAN		82	96	91	66	

King Edward Compacton Fertiliser Trial

Total Yield in Tons per acre

	$\frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3}$	Sideband	In front	Broadcast	Mean
Compacted	15.0	16.0	18.7	14.9	16.6
Loose	18.5	17.8	16.1	15.6	17.0
Means	16.7	17.9	17.4	15.3	

Interaction Sig. Diff. ^{**}

Standard Error 9.2% of General Mean.

Yield of Ware in Tons per acre

	$\frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3}$	Sideband	In front	Broadcast	Mean
Compacted	8.5	12.3	12.1	8.9	10.4
Loose	12.0	12.5	10.8	10.4	11.4
Means	10.3	12.4	11.5	9.6	

Interaction Sig. Diff. ^{**}

Standard Error 12.6% of General Mean.