

CROP: Maincrop Potatoes

Field Shape Close

EXPERIMENT: Cultivations and Herbicide trial
(Modified to cultivations and ridging method trial)

TREATMENTS AND LAYOUT: 3 randomised blocks of 8 plots

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|------------------------|---------------------------------------|
| 1. Method of ridging | A. Traditional ridging |
| | B. Rotary ridging |
| 2. Herbicide treatment | A. No herbicide |
| | B. Linuron at 1½ lb ai/acre |
| | C. Paraquat at 1.0oz ai/acre |
| | D. Linuron (1.0lb) + paraquat (1.0oz) |

Herbicide treatments were subsequently dropped and replaced by a comparison between

A. Minimal cultivations
B. Full cultivations

Plot Size: Treatment: 6 rows at 30" X 60 yards

Harvest: 1 row at 30" X 30 yards

Manuring with dates of : Early March 9 cwt 15. 15. 20

Date of planting:- March 27th and 28th Variety: King Edward (paracrinkle-free once grown sprouted)

Date of pulling down and re-ridging : April 25th

Date of cultivation treatment (Full cultivation):- May 23th

Date of ridging treatments: May 27th

Date of spraying with Dithonee 1st July

Date of spraying with Fenitrothion: 21st and 31st July } Serial application

Date of spraying with Sulphuric acid: August 17th

Date of harvest: End October

Remarks: Previous cropping 1967 Barley

Due to wet conditions, herbicide treatments were abandoned and a comparison between cultivation treatments was adopted.

For traditional ridging full cultivations consisted of inter-row cultivation followed by ridging up; minimal cultivations consisted of ridging up without prior cultivations.

For rotary ridging, inter-row cultivation was followed by 2 successive passes of the ridge for the full treatment while the minimal treatment consisted of a pass of the ridge with no prior cultivation.

Cultivations and Ridging Method Trial

Treatment	Yields (tons/acre)				
	Total yield	Yield ware over 2"	Yield ware over 1½"	Yield ware 1½" - 2"	Yield ware under 1½"
Rotary ridging, full cultivations	13.0	5.2	10.5	5.3	2.5
Traditional ridging, full cultivations	13.6	5.2	11.1	5.9	2.5
Rotary ridging minimal cultivations	13.6	5.2	11.0	5.9	2.6
Traditional ridging minimal cultivations	13.2	5.0	10.7	5.8	2.5
S.E. per plot \pm	1.105	1.10	1.162	0.846	0.51
S.E. as % G.M.	8.3%	21.4%	10.7%	14.8%	20.4%