

FIELD EXPERIMENTS 1963

Serial No.

Stat. File

CROP: Maincrop Potatoes

EXPERIMENT: Potato - Cultivations v. Herbicides Trial

TREATMENTS AND LAYOUT: Four randomised blocks of 6 plots

- A. "Normal Cultivations"
- B. Double Cultivations
- C-F. Restricted Cultivations  
with
  - C. Linuron 0.8 lb/acre
  - D. " 1.6 "
  - E. Prometryne 0.8 "
  - F. " 1.6 "

PLOT SIZE: TREATMENT:

30 yds long and 5 yds (6 rows of  
potatoes at 30") wide

HARVEST: 15 yds x 4 rows

MAURING WITH DATES OF: 12 tons F.Y.M. before ploughing  
9 cwt 13 : 13 : 20 compound before planting

Date of Planting: 22nd April Variety: King Edward

Date of final ridging and spraying: 30th April

Remarks: Conditions at planting: Damp soil conditions, poor lumpy tilth.  
The large aggregates were not set hard however and were readily  
broken down by cultivation.

Cultivation regimes:

- Treatment A. The first cultivation took place some 10-14 days  
after planting namely one pass with ridging bodies  
and a harrow.  
There were four subsequent cultivations before  
the crop was moulded up, all carried out as shallowly  
as possible, consistent with obtaining a deep mould.

Treatment B. These received the same cutlivations as the "A" plots but the tractor driver was instructed to return the following day and, using the same implements, to recultivate the "B" plots

Treatments C,D,E,F The tilth at planting time was not adequate so the plots were ridged 3 days after planting, ridged and harrowed 4 days after planting and ridged up to their final contour 8 days after planting

The herbicides were applied at this time.

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Yield in tons per acre

Treatments	Saleable Ware	% Greens	Total Ware	Seed	Total Yield
A "Normal Cutlivations"	9.7	16	11.3	3.1	14.4
B Double Cutlivations	10.3	7	11.0	3.3	14.3
C-F Restricted Cutlivations with					
C Linuron 0.8 lb/ ac.	10.3	11	11.4	2.5	13.9
D " 1.6 "	9.1	12	10.2	2.5	12.7
E Prometryne 0.8 "	8.9	13	10.1	2.6	13.1
F " 1.6 "	9.2	14	10.6	2.7	13.3
Coefficient of Variation	13.5%				11.0%
	N.S.				N.S.