

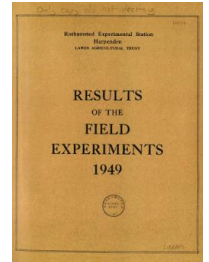
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Yields of the Field Experiments 1949

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49/CE/3 Potatoes - Method of Planting

49/CE/3 Potatoes - Method of Planting, Rothamsted Research (1950) Yields Of The Field Experiments 1949, pp 87 - 88

49/Ce/3.1

POTATOES

The effects of four methods of planting and of three levels of a compound fertilizer.

RP - Great Knott III 1949

System of replication: 4 randomized blocks of 12 plots each.

Area of each plot: 0.014 acres.

Area Harvested: 0.007 acres.

Treatments:

Methods of planting: Broadcast fertilizer on the flat, ridge, plant in ridges by planting machine (A); broadcast fertilizer on the flat, plant on flat by planting machine (B); ridge, broadcast fertilizer over ridge, plant in furrow by hand (standard method) (C); plant seed and fertilizer with combined seed/fertilizer planting machine (D).

Fertilizer: 0, 8, 16 cwt per acre granular fertilizer containing 7% N, 7% P₂O₅, 10½% K₂O.

Basal Manuring: None.

Cultivations, etc.: Ploughed: Oct 4-7 and Jan 13-15.

Cultivated: Mar 30-31. Harrowed and ring rolled: Apr 1-2.

Harrowed: Apr 20. Applied artificials to A and B, ridged

A and C plots: Apr 29. Applied artificials to C, planted

A, B and C plots: Apr 30. Planted and applied artificials

to D plots: May 2. Re-ridged: May 5. Grubbed: June 3,

7 and 29. Hoed: July 5-6. Earthed up: July 14.

Sprayed with 20% B.O.V. solution to kill off haulm: Sept 23.

Lifted: Sept 29. Variety: Majestic. Previous crop: Wheat.

Standard errors per plot:

Total tubers: 0.868 tons per acre or 16.4% {33 d.f.}

Percentage ware: 1.12 {33 d.f.}

49/Ce/3.2

Granular fertilizer cwt per acre	Method of Planting				Mean
	A	B	C*	D	
Total tubers: tons per acre					
			(±0.434)		(±0.217)
0	5.10	5.64	4.23	4.79	4.94
8	5.53	6.05	4.33	6.13	5.51
16	5.81	5.88	5.35	4.72	5.44
Mean (±0.250)	5.48	5.86	4.64	5.21	5.30
Percentage ware					
			(±0.56)		(±0.28)
0	94.2	94.1	94.7	94.5	94.4
8	95.0	95.4	96.4	96.4	95.8
16	94.8	95.8	97.1	97.2	96.2
Mean (±0.32)	94.6	95.1	96.1	96.0	95.5

- A Broadcast fertilizer on the flat, ridge, plant in ridges by planting machines.
- B Broadcast fertilizer on the flat, plant on flat by planting machine.
- C Ridge, broadcast fertilizer over ridges, plant in furrows by hand (present standard method).
- D Plant seed and fertilizer with combined seed/fertilizer planting machine.

* About half of each C plot suffered mechanical damage during cultivation. No correction has been made for this.