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Yields of the Field Experiments 1948

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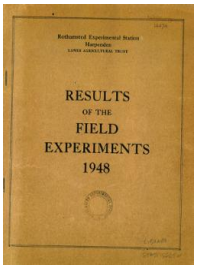

48/CG/1 Peas

Rothamsted Research

Rothamsted Research (1949) *48/CG/1 Peas ;* Yields Of The Field Experiments 1948, pp 94 - 95

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PEAS

The effects of two methods of broadcasting and of two other methods of placement of two levels of a compound fertilizer.

R/PE - Long Hoos, 1948

System of replication: 3 randomized blocks of 12 plots each

Area of each plot: 0.0150 acre

Treatments:

Levels of fertilizer: None, 3, 6 cwt. per acre of a special mixture (10% P_2O_5, 20% K_2O)

Methods of placement: Broadcast before all cultivations, broadcast on seedbed and harrowed in at once, placed in band 2" below and 1" to side of seed, placed in band 2" below and 3" to side of seed.

Basal manuring: None

Cultivations, etc.: Ploughed: Sept 30 - Oct 2. Springtine harrowed then rolled and springtined: Mar 10. Ground chalk, 2 tons per acre, applied: Mar 13. Broadcast fertilizers, before cultivations on appropriate plots: Mar 19. Cultivated: Mar 20. Rolled and springtine harrowed: Mar 22. Harrowed, and ring rolled: Mar 30. Fertilizers broadcast in seedbed, seed drilled and fertilizers placed: Mar 30. Plant almost failed so decision made to resow, thistles cut, and seed redrilled: Apr 20. Harrowed and light ring rolled: Apr 21. Weeds pulled: June 7-9. Hoed: June 12.

Standard errors per plot:

Yield, 1.61 cwt. per acre or 9.2% (25 d.f.)

Plant number, 1.47 tens of thousands per acre or 10.5% (25 d.f.)

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Fertilizer (cwt/acre)	Broadcast before cultivations	Broad-cast on seed bed	Band 2" below and 1" to side	Band 2" below and 3" to side	Mean
	Yield of threshed peanut cwt. per acre (±0.927)				(±0.464)
None					16.3
3	17.8	17.2	18.2	18.6	17.9
6	17.3	17.2	19.2	18.1	17.9
Mean (±0.656)	17.5	17.2	18.7	18.4	17.4
	Plant number: tens of thousands per acre (±0.851)				(±0.425)
None					13.4
3	14.0	13.2	13.5	15.5	14.1
6	14.6	13.7	15.3	14.2	14.5
Mean (±0.601)	14.3	13.5	14.4	14.9	14.0