

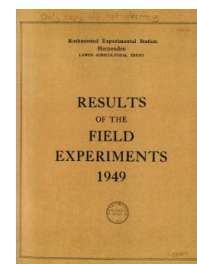
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Yields of the Field Experiments 1949

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49/CD/1 Peas - Fertilizer Placement

49/CD/1 Peas - Fertilizer Placement, Rothamsted Research (1950) Yields Of The Field Experiments 1949, pp 79 - 80

49/Ca/1.1

PEAS

The effects of methods of placement of a compound fertilizer at two rates of application.

RP - Long Hoos V 1949

System of replication: 4 randomized blocks of 8 plots each, a high order interaction being confounded with block differences.

Area of each plot: 0.0173 acre. Area harvested: 0.0154 acre.

Treatments:

Levels of fertilizer: None, 3.5, 7.0 cwt per acre granulated compound fertilizer (13.1% $P_{2}O_{5}$, 13.4% $K_{2}O$).

Methods of placement: Drilled 3" below 2" to side of seed (duplicate plots), broadcast early (after last ploughing), broadcast late (in seed bed and harrowed in), half broadcast early, half drilled beside seed, half broadcast late, half drilled beside seed.

Basal manuring: None.

Cultivations, etc: Ploughed: Sept 24-25. Applied "early" fertilizers, springtined: Feb 26. Applied "late" fertilizers drilled seed and fertilizer: Mar 19. Harrowed in: Mar 21. Harrowed across the rows: Mar 31. Hoed: May 11, 30, June 3, 4 and 7. Harvested: July 26. Variety: Harrison's Glory. Previous crop: Barley.

Standard errors per plot.

Yield, dry matter: 1.60 cwt per acre or 10.9% (18 d.f.)

Plant number: 1.28 tons of thousands per acre or 5.6% (18 d.f.)

49/Ca/1.2

Compound fertilizer: cwt per acre	Drilled	Broad-cast early	Broad-cast late	Broad-cast early and Drilled	Broad-cast late and Drilled	Mean
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Yield, dry matter: cwt per acre

None	(±0.80)	(±1.20)				14.3 (±0.57)
3.5	16.4	11.5	13.6	16.1	15.7	15.0 (±0.46)
7.0	15.7	13.6	14.5	14.3	15.6	14.9
Mean (±0.80)	16.0 ⁽¹⁾	12.6	14.1	15.2	15.7	14.8

Standard error (1) ±0.57

Plant number: tens of thousands per acre

None	(±0.64)	(±0.96)				22.8 (±0.45)
3.5	22.9	21.9	23.0	23.7	23.3	23.0 (±0.37)
7.0	23.0	22.0	21.6	23.7	24.7	23.0
Mean (±0.64)	23.0 ⁽²⁾	22.0	22.3	23.7	24.0	23.0

Standard error (2) ±0.45