

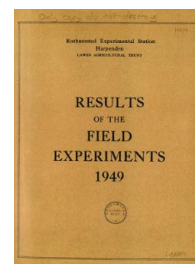
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Yields of the Field Experiments 1949

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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_2O_5 , 13.4% K_2O).

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. Hood: 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 ferti- lizer: 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) (± 1.20)				14.3 (± 0.57)
3.5	16.4	11.5	13.6	16.1	15.7	15.0
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)	(2) (± 0.96)				22.8 (± 0.45)
3.5	22.9	21.9	23.0	23.7	23.3	23.0
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