ROTHAMSTED RESEARCH

Yields of the Field Experiments 1964

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64/R/LL/C/3 and 64/W/WLL/C/3 Long-term Liming - Spring Beans

Rothamsted Research

Rothamsted Research (1965) *64/R/LL/C/3 and 64/W/WLL/C/3 Long-term Liming - Spring Beans ;* Yields Of The Field Experiments 1964, pp 145 - 147 **- DOI: https://doi.org/10.23637/ERADOC-1-160**

64/C/3.1

LONG TERM LIMING EXPERIMENT - SPRING BEANS 1964

(LL and WLL)

For treatments etc., see 'Results' 63/C/3 and for previous years' results see 62/C/8 and 63/C/3.

Area of each sub plot: 0.0145. Area harvested: Sawyers I (R) - 0.0133, Stackyard Series C (W) - 0.0096.

Plots receiving both P and K were subdivided for a comparison between broadcasting of powder fertiliser (B) (rates and materials as before) and placement drilling of 409 lb 0:14:28(D).

Basal dressing: 0.25 cwt N as 'Nitro-Chalk' broadcast.

Cultivations, etc.

Sawyers I (R): Ploughed: Nov 14, 1963. Fertilisers applied: Feb 15, 1964. Seed drilled at 200 lb: Mar 6. Sprayed with simazine at 1 lb in 40 gals: Mar 13. Combine harvested: Aug 25. Variety: Spring Tick.

Stackyard Series C (W): Ploughed: Nov 1, 1963. Fertilisers applied and seed drilled* at 200 lb: Nov 8. Sprayed with simazine at 1 lb in 40 gals: Nov 9. Seed drilled* at 200 lb: Mar 13, 1964. Sprayed with simazine at 1 lb in 40 gals: Apr 6. Combine harvested: Aug 25. Variety: Spring Tick.

* The winter beans failed through bird damage and the spring beans were sown without seedbed cultivation.

NOTE: On Sawyers I (R) samples were taken at harvest for pod and bean counts.

Standard error per plot. Grain:

Main experiment

Sawyers I (R): 3.56 or 20.2% (15 d.f.)

Stackyard Series C (W): 1.62 or 10.5% (15 d.f.)

PK plots

Sawyers I (R): Whole plot: 2.46 or 12.4% (3 d.f.)
Sub plot: 0.96 or 4.8% (4 d.f.)

Stackyard Series C (W): Whole plot: 1.30 or 6.6% (3 d.f.)
Sub plot: 2.23 or 11.4% (4 d.f.)

Ground chalk tons per acre.

CA0 = None
CA2 = 2
CA4 = 4
CA8 = 8

https://doi.org/10.23637/ERADOC-1-160

64/C/3.2

SUMMARY OF RESULTS

SAWYERS I (R)

GRAIN

Main experiment

	CA0	CA2	CA4	CA8	Mean
Mean (±1.26)	14.7	19.0	19.8	17.1	17.7
		(±1.78)			(±0.89)
-	15.1	20.2	19.7	16.2	17.8
P	14.4	17.8	19.9	18.0	17.5
-	15.2	16.6	17.5	14.7	16.0
K	14.2	21.4	22.0	19.5	19.3

	-	P
	(±1.26)	
-	16.7	15.3
K	18.9	19.7

Mean D.M. %: 83.0

PK plots

	CA0	CA2	CA4	CA8	Mean
		(1) and (2)			(±0.34)
B	15.1	21.6	22.8	19.2	19.7
D	15.9	21.5	22.4	20.9	20.1
Mean (±1.23)	15.5	21.5	22.6	20.0	19.9

Mean D.M. %: 82.5

(1) (±0.68) For use in vertical and diagonal comparisons
(2) (±1.80) For use in horizontal and interaction comparisons

https://doi.org/10.23637/ERADOC-1-160

64/C/3.3

STACKYARD SERIES C (W)

GRAIN

Main experiment

	CA0	CA2	CA4	CA8	Mean
Mean (±0.57)	19.1	16.5	13.0	13.2	15.5
		(±0.81)			(±0.41)
-	18.1	16.3	12.4	12.4	14.8
P	20.0	16.7	13.6	14.1	16.1
-	16.6	12.8	10.9	10.7	12.7
K	21.6	20.3	15.2	15.7	18.2

	-	P
	(±0.57)	
-	13.1	12.4
K	16.5	19.8

Mean D.M. %: 83.9

PK Plots

	CA0	CA2	CA4	CA8	Mean
		(1) and (2)			(±0.79)
B	22.1	22.3	17.8	17.2	19.8
D	22.3	21.4	17.4	16.5	19.4
Mean (±0.65)	22.2	21.8	17.6	16.9	19.6

Mean D.M. %: 83.6

(1) (±1.58) For use in vertical and diagonal comparisons
(2) (±1.44) For use in horizontal and interaction comparisons

https://doi.org/10.23637/ERADOC-1-160