

Results

Pea Row Width Seed Rate Trial

Germination Counts

Treatment	Plants per foot of row	Inches apart in row	Attempted
A	16.0	0.75	1
B	10.6	1.14	1½
C	8.1	1.48	2
D	8.4	1.45	2
E	5.3	2.27	3
F	4.1	2.96	4

Total Yields in cwt per acre

Seed Rate (stones/acre) \ Row Width	15	20	30	Row Width Means N.S.
8"	24.0	27.9	27.6	26.5
4"	24.1	29.4	31.5	28.4
Seed Rate Means Sig. Diff. 2.53	24.0	28.7	29.5	Interaction N.S.

Conversion factor $\left(\frac{82}{82}\right)$ 0.8780487

S.E. as % G.M. 10.8

Cost of seed per acre @ £90 per ton	£8.9.0.	£11.5.0.	£16.18.0.
Return per acre @ £40 per ton	£48.0.0.	£57.8.0.	£59.0.0.
Margin per acre	£39.11.0.	£46.3.0.	£42.8.0.

(For analysis of % of large, medium and small grades see file 22 II)

17 Acres

1963

Results

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Tenderometer Readings

Seed Rate Row Width	15 st.	20 st.	30 st.	Mean
8"	101	100	100	100
4"	96	99	102	99
Mean	98	100	101	Big. diff. between 2 means of 6 plots (interaction) = 3.6

Vining Peas Row width x Seedrate 1963

Percentage of Small Peas $\left(\frac{18'' - 23''}{64} \right)$

Seed rate st./acre (spacing) Row width	15 (8" x 2") (4" x 4")	20 (8" x 1 1/2") (4" x 3")	30 (8" x 1") (4" x 2")	Row width means S.E. \pm 1.225 Sig. diff. N.S.
8"	30.5	30.6	27.7	29.6
4"	35.2	31.5	25.0	30.6
	Interaction S.E. \pm 2.12 Sig. diff. 6.25			
Seed rate means S.E. \pm 1.500 Sig. diff. 4.42	32.8	31.0	26.4	

S.E. as % G.M. 17.5

Percentage of Medium Peas $\left(\frac{25'' - 28''}{64} \right)$

Seed rate st./acre (spacing) Row width	15 (8" x 2") (4" x 4")	20 (8" x 1 1/2") (4" x 3")	30 (8" x 1") (4" x 2")	Row width means S.E. \pm 1.160 Sig. diff. N.S.
8"	58.1	56.5	59.5	58.0
4"	56.2	60.9	65.5	60.8
	Interaction S.E. \pm 2.04 Sig. diff. 6.02			
Seed rate means S.E. \pm 1.445 Sig. diff. 4.26	57.2	58.7	62.4	

S.E. as % G.M. 8.4

Percentage of Large Peas $\left(\frac{> 28''}{64} \right)$

Seed rate st./acre (spacing) Row Width	15 (8" x 2") (4" x 4")	20 (8" x 1 1/2") (4" x 3")	30 (8" x 1") (4" x 3")	Row width means S.E. \pm 0.651 Sig. diff. 1.92
8"	11.3	12.9	12.6	12.3
4"	8.7	7.7	9.7	8.7
	Interaction S.E. \pm 1.15 Sig. diff. 3.33			
Seed rate means S.E. \pm 0.797 Sig. diff. N.S.	10.0	10.3	11.2	

S.E. as % G.M. 26.3