

FIELD EXPERIMENTS 1957.

Crop: Vining Peas.

Field: Oak Lodge Field.

Experiment: Manurial Placement Trial.

Treatments & Layout: Randomised plots with ten treatments and four replications

- Treatments.
1. No N, P, or K.
 2. P only (2cwt/acre of 18% superphosphate)
 3. K only (3 cwt/acre of 50% muriate of Potash)
 4. P plus K.
 5. P plus K plus N ($1\frac{1}{2}$ cwt/acre of sulphate of ammonia)
- All treatments either broadcast or placed.

Manuring with dates of: May 3rd 1957. Treatment fertilisers applied.

Plot Size: Treatment $30^x \times 4$ rows @ 20"
 Harvest $24^x \times 2$ rows @ 20"

Date of drilling: May 3rd 1957 Variety: Special late Seed Rate: 20.6 stone/acre
PerfectionDate of Harvest: Plots 11 - 30 July 31st 1957
Plots 1 - 10 August 2nd 1957

Remarks (previous cropping, cultivations, etc.)

1956 Winter Cereal Trials.

1955 Clover ley.

1954 Spring barley.

Soil analysis Spring 1957.

Lime status :- satisfactory

pH :- 7.7

Ca CO₃ :- 1.2Avail. P₂ O₅ 4.2 p.p.m. Medium high.Avail. K₂ O 13 p.p.m. Very low.

Note Book No.

Vining Peas Manurial Placement Trial 1957.

Yields of Green Peas in cwt/acre.

Summary of results from analysis of 3 blocks (harvested on July 31st 1957.)

Fertiliser Treatments	Method of Application		Fertiliser Means ±
	Broadcast	Placed.	
O.	43.04	41.39	42.21
P.	41.92	39.99	40.95
K.	46.28	50.65	48.46
P.K.	49.33	49.23	49.28
N.P.K.	47.76	52.92	50.34
Method of Application Means N.S.	45.66	46.83	

Method of Application N.S.
Sig. Diff. for Fertilisers = 6.45 cwt/acre.
Coeff. of variation 11.49%

Summary of results from Analysis of 4 blocks.

Fertiliser Treatments	Method of Application		Fertiliser Means ± ±
	Broadcast	Placed.	
O.	46.10	42.74	44.42
P.	46.62	42.77	44.70
K.	51.34	52.23	51.78
P.K.	52.82	53.88	53.35
N.P.K.	50.26	54.84	52.55
Method of Application Means N.S.	49.43	49.29	

Method of Application N.S.
Sig. Diff. for Fertilisers = 5.23
Coeff. of variation 10.34%

Tenderometer Readings and Alcohol insoluble Solids for blocks II III and IV.

Fertiliser Treatments	Broadcast		Drilled		Fertiliser Means	
	A.I.S.	Tenderometer	A.I.S.	Tenderometer	A.I.S.	Tenderometer
O.	13.6	108.8	13.5	107.2	13.6	108.0
K.	13.5	106.1	13.1	104.0	13.3	105.1
F.	13.4	104.8	14.4	112.8	13.9	108.8
P.K.	13.3	110.1	14.0	107.0	13.7	108.6
N.P.K.	13.6	107.7	13.4	107.9	13.5	107.8
Method of Application Means	13.5	107.5	13.7	107.8	N.S.	

Tenderometer coeff. of variation = 3.42%
A.I.S. coeff. of variation = 3.1 %
Coeff. of correlation b = 0.869