

FIELD EXPERIMENTS 1959

Crop: Vining Peas

Field: Morestic

Experiment: Manurial Placement Trial

Treatments &amp; Layout: Randomised blocks with ten treatments and four replications

Treatments	1	No fertiliser
	2	2 cwt/acre of 18% superphosphate
	3	3 cwt/acre of 50% muriate of potash
	4	P plus K
	5	P plus K plus $1\frac{1}{2}$ cwt/acre of sulphate of ammonia

*All either broadcast or placed.*

Plot Size: Treatment:- 4 rows at 20" x 20 yards  
 Harvest:- 4 rows at 20" x 19 yards

Manuring with dates of: 2 tons/acre of ground limestone in March  
 Treatment fertilisers applied on appropriate plots -  
 broadcast treatments March 16th. Placed treatments  
 March 17th.

Date of drilling: March 17th Variety: Diadem Seed Rate: 13.7 stone/acre

Date of emergence scores: 10th April

Date of discard removal between blocks: June 1st

Date of harvest: June 23rd Block I, 24th Block IV, 25th Block III, 26th Block II.

Remarks (previous cropping, cultivations, etc.)

1958	Spring Barley
1957	Spring Barley
1956	Sugar Beet

Two patches of acid gravel were present on which the peas suffered badly from drought.

Soil Analyses. Phosphate variable but generally satisfactory. Potash very low.

Note Book No.

Vining Peas Manurial Placement Trials Results

Emergence Scores

Eye assessment of percentage of row emerged

	Broadcast	Placed
O	100	100
P	95	95
K	100	40
PK	100	30
NPK	100	20

Yields of green peas in cwt/acre

Fertiliser Treatments	Method of Application		Fertiliser Means *** Sig. Diff. 3.4
	Broadcast	Placed	
O	22.6	21.1	21.8
P	19.4	22.2	20.8
K	20.0	10.8	15.4
PK	23.5	8.5	16.0
NPK	23.9	8.2	16.1
*** Sig. Diff. 2.2 Method of Application Means	21.9	14.2	Interaction *** Sig. Diff. 4.8

Standard error as % of general mean 18.4

Tenderometer and Alcohol Insoluble Solids

	Broadcast		Placed		Means	
	T	AIS	T	AIS	T	AIS
O	100	11.8	94	10.5	97	11.2
P	100	11.3	100	12.4	100	11.8
K	100	12.4	101	12.2	100	12.3
PK	102	12.1	94	10.5	98	11.3
NPK	100	12.8	91	11.3	96	12.0
Mean	100	12.1	96	11.4	98	11.7

Standard error as % of general mean. Tenderometer - 5.4 AIS - 9.5

Tenderometer Broadcast v. Placed.

\* Sig. Diff. 3.4 (if the 2 nil treatments are transposed there is no significance).