

Serial No.

F.R. 36.

FIELD EXPERIMENTS 19 56Crop: **Spring Wheat**Field: **Church Piece North**Experiment: **Nitrogenous manuring on the seedbed and as a top dressing.**Treatments & Layout: **Randomised blocks:- 9 treatments with 6 replications.**

<u>Treatment No.</u>	<u>art. per acre of Nitro-chalk on seedbed</u>	<u>As top dressing</u>
1	0	0
2	1	1
3	2	0
4	2	2
5	4	0
6	3	3
7	6	0
8	4	4
9	8	0

Plot Size: **Treatment: 3 yds. x 60yds. Harvest: 8 rows @ 6¹/₂" x 50yds.**

Manuring with dates of:

- 12th March:- 5 art. per acre of 0:16:16 compound (Fisons 37)
applied to whole trial area.
12th March:- Seedbed nitrogen treatments applied after drilling.
2nd May:- Nitrogen top dressing treatments applied.

Date of Drilling: **12th March.** Variety: **Atle** Seed Rate: **1.9 bushels
per acre**Date of Germination counts:- **25th April.**Date of straw height measurements:- **7th August.**Date of ear counts:- **9th August.**Date of harvest:- **12th September.**

Remarks (previous cropping, cultivations, etc.)

1955. Sugar Beet.
1954. Vining Peas.
1953. Winter Wheat.

The trial was sprayed with MUEA (Phenoxyene Plus) on 7th May.

Note Book No.

Results of Spring Wheat Nitrogen Trial 1956.

A breakdown of the plot combine during showery harvest conditions resulted in the substitution of another combine to cut five plots of the trial. This machine was set to deliver more grain and consequently these plots gave higher yields. This influenced the accuracy of the results and it was found that a statistical analysis avoiding these plots but losing the split versus unsplit comparison gave a more consistent range of yields with a reasonable coefficient of variation.

<u>Treatment</u>	<u>Yield in Bushels per Acre at 36" D.H.</u>
No Nitro-chalk	9.54
2 art. per acre F/O	10.72
4 " " " "	11.28
6 " " " "	11.22
8 " " " "	10.92
	N.S.
Coefficient of variation:-	7.73

<u>Nitro-chalk arts/acre</u>	<u>Plants germinating per foot of row</u>		<u>Stems per foot of row</u>		<u>Stem Heights (inches)</u>		<u>1,000 Grain Weights (gm.)</u>	
	<u>On Seedbed</u>	<u>Split</u>	<u>On Seedbed</u>	<u>Split</u>	<u>On Seedbed</u>	<u>Split</u>	<u>On seed- bed</u>	<u>Split</u>
0	18.8	18.8	20.2	20.2	39	39		
2	19.6	19.3	22.4	22.6	40	41		Not taken
4	17.5	19.7	22.0	24.7	39	40		
6	18.9	20.4	23.5	22.4	42	42		
8	19.7	16.4	23.0	23.7	43	44		
	N.S.		N.S.		-			
Coef. of var.	6.12		7.95		-			