

FIELD EXPERIMENTS 19 55Crop: **Spring Wheat**Field: **Beaston Hyme**Experiment: **Nitrogenous Manuring on the Seedbed and as a top-dressing.**Treatments & Layout: **Randomised blocks:- 9 treatments with 6 replications.**

<u>Treatments</u>	<u>Qty of Nitro-Chalk</u>	
	<u>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 70 yds. Harvest: 8 rows @ 6" x 60 yds.

Manuring with dates of:

15th March:- 5 cwt per acre of 0:16:16 compound (Fison's 37) applied to whole trial area.

16th March:- Seedbed Nitrogen treatments applied immediately after drilling.

27th May:- Nitrogen Top-dressing treatments applied.

Date of drilling: 16th March

Variety: **Atlas**Seed Rate:  $2\frac{1}{2}$  bush.

Date of Germination Counts: 18th April.

Date of Plant and Tiller Counts: 2nd June.

Date of Ear Counts: 19th and 21st July.

Date of Straw Height Measurements: 26th July.

Date of Harvest: 24th and 25th August.

Remarks (previous cropping, cultivations, etc.)

1954 Winter Wheat  
 1953 Potatoes  
 1952 Spring Barley

Note Book No.

Results of Spring Wheat Nitrogenous Manuring Trial 1955

Yield of Grain at 86% D.M. in Sacks per Acre

Ox. N.O.	Time of Application	
	Seedbed	Half Seedbed & Half Top-Dressing
0	5.6	5.6
2	8.1	7.8
4	9.1	9.0
6	9.6	9.3
8	9.0	9.8
Sig. Diff. (which can also be used for cross comparisons)	1.2	1.2

Coefficient of Variation = 11.8%

Counts per Foot of Row

Treatment	Plants Germinating	2nd June Plants and Tillers		Tillers/ plant	Ears	Average Straw Heights
0	17.8	18.7	33.8	1.8	17.3	2' 7 $\frac{1}{2}$ "
2	16.7	14.0	44.8	3.2	19.9	3' 2"
4	16.4	15.5	57.6	3.7	22.1	3' 2 $\frac{1}{2}$ "
6	16.0	17.2	60.7	3.6	22.5	3' 3 $\frac{1}{2}$ "
8	15.0	15.8	60.9	3.8	24.1	3' 2"
1/1	17.0	18.3	44.4	2.4	19.7	3' 1"
2/2	16.4	20.8	64.7	3.1	20.2	3' 0 $\frac{1}{2}$ "
3/3	15.4	17.2	59.1	3.5	22.7	3' 3"
4/4	15.8	16.2	43.4	3.0	22.3	3' 2"
Sig. Diff.	N.S.	-	-	-	2.45	-
C. of V.	8.9%	-	-	-	6.7%	-