

Serial No. *B.1.*FIELD EXPERIMENTS 1954

Crop: Spring Wheat

Field: Church Field (South)

Experiment: Nitrogenous manuring on the seedbed and as a top-dressing.

Treatments & Layout: Randomised blocks:- 9 treatments with 6 replications.

<u>Treatments</u>	<u>Cwt. 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:

Manuring with dates of:-

25th February - 5 cwt of 0.19.19 compound (Fisons 37X) applied to whole trial

10th March - Seedbed Nitro-chalk treatments applied.

27th May - Top-dressing Nitro-chalk treatments applied.

Date of Drilling: 10th March Variety: Atle

Seed Rate: $2\frac{1}{2}$ bushels

Date of Ear Counts: July 16th and 19th.

Date of Harvest: 15th - 16th September.

Remarks (previous cropping, cultivations, etc.)

1953 Winter Wheat.

1952 Timothy and Meadow Fescue for Seed.

Mid May 1954 Trial sprayed with "Phenoxyline Plus" at 5 pints per acre.

Note Book No.

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Results of Spring Wheat x Nitrogen Trial 1954

Yield of Grain (86% D.M.)

<u>Treatment (cwt N.C.)</u>	<u>Yield in sacks per acre</u>
0	13.2
2/0	15.4
1/1	15.0
4/0	17.2
2/2	17.3
6/0	17.7
3/3	17.4
8/0	17.0
4/4	16.8
Significant Difference	1.0

<u>Cwt N.C.</u>	<u>Time of Application</u>	
	<u>Seedbed</u> <u>Yield in sacks per acre</u>	<u>Half Seedbed, Half Top-dressing</u> <u>Yield in sacks per acre</u>
0	13.2	13.2
2	15.4	15.0
4	17.2	17.3
6	17.7	17.4
8	17.0	16.8
Significant Difference	1.0	1.0

Coefficient of Variation = 5.3%

Germination Counts

<u>Final Treatments</u>	<u>Treatments as applied</u> <u>When Counts taken</u>	<u>Plants per foot of row</u>
0	0	18
2/0	2/0	17
1/1	1/0	17
4/0	4/0	18
2/2	2/0	16
6/0	6/0	16
3/3	3/0	17
8/0	8/0	16
4/4	4/0	17

Ear Counts (Ears per foot of row)

<u>Treatment</u> <u>Cwt N.C. per acre</u>	<u>Time of Application</u>		<u>Nitrogen</u> <u>Means</u>
	<u>Seedbed</u> <u>Yield in sacks per acre</u>	<u>Seedbed + Top-dressing</u> <u>Yield in sacks per acre</u>	
0	19.5	19.5	19.5
2	22.1	21.4	21.75
4	24.9	25.0	24.95
6	25.9	26.4	26.25
8	30.4	28.1	29.25
Significant Difference	2.2	2.2	
Time of Application Means	25.8	25.2	

Coefficient of Variation = 7.58%

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