

FIELD EXPERIMENTS 1957

Crop: Spring Wheat

Field: Carr's Piece.

Experiment: Variety x Nitrogen Trial.

Treatments & Layout: Randomised blocks:- 12 treatments with 3 replications.

Treatment No.	Variety	Cwt per Acre of Nitro Chalk		Total
		on seed Bed	as top dressing	
1.	Atle	0	0	0
2.	Atle	1	1	2.
3.	Atle	2	2	4
4.	Atle	3	3	6
5.	Koga II	0	0	0
6.	Koga II	1	1	2
7.	Koga II	2	2	4
8.	Koga II	3	3	6
9.	Svenno	0	0	0
10.	Svenno	1	1	2
11.	Svenno	2	2	4
12.	Svenno	3.	3	6

Plot Size:-

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Treatment 60 yds x 3 yards Harvest 57 yards x 8 rows at 6 $\frac{3}{4}$ "

Manuring with dates of:

March 5th 1957 1 $\frac{1}{2}$ cwt per acre Kaint 3 cwt per acre of 0:10:20 compound

March 8th 1957 Seed-bed dressings of N/C on appropriate plots.

May 8th 1957 Top dressing of N/C on appropriate plots.

Date of drilling: March 8th 1957 Variety: --

Seed Rate: Atle 2.89

Date of Plant & Tiller counts May 14th 1957

bushels per acre
Svenno: 2.95 bushels per
acre

Date of Straw height measurements July 17th 1957

Koga II: 3.02 bushels per
acre

Date of Ear Counts :- July 22nd 1957

Remarks (previous cropping, cultivations, etc.)

The trial was sprayed with Dinoseb on April 24th 1957

1956 :- Sugar Beet

1955 :- Calabresse Broccoli

1954 :- Seed Timothy

Note Book No.

Results of Spring Wheat Variety x Nitrogen Trial 1957

Yield of Grain at 86% D.M. in sacks per acre

		VARIETIES			+++ Nitrogen Means
		Atle	Svenno	Koga II	
Nitrogen rates	0	12.9	11.0	13.1	12.3
Owt per acre of Nitro Chalk	2.	13.4	13.0	14.9	13.8
	4.	14.7	12.5	15.4	14.2
	6.	12.1	9.7	15.5	12.4
Variety +++ Means		13.3	11.5	14.7	

sig. Differences For interactions within table 1.7
 For variety means 1.1
 For nitrogen means 1.0
 Co-efficient of variation 7.5%

Ear Counts in ears per foot of row

		VARIETIES			+ Nitrogen Means
		Atle	Svenno	Koga II	
Nitrogen rates	0	24.3	19.6	21.3	21.8
cwt per acre of Nitro Chalk	2	24.8	24.1	22.0	23.6
	4	25.2	24.3	23.3	24.3
	6	23.3	24.5	23.2	23.7
Variety Means N.S.		24.4	23.1	22.5	

sig. diff. 1.8
 Co-efficient of Variation 8.0%

Results of Spring Wheat Variety x Nitrogen Trial 1957

Plants per foot

		VARIETIES			Nitrogen
		Atle	Svenno	Koga II	Means
Nitrogen Rates	0	48.0	29.0	40.0	39.0
0wt per acre of Nitro Chalk	2.	48.7	38.0	34.7	40.4
	4	33.0	37.7	31.7	34.0
	6	48.0	31.7	30.0	33.3
Variety Means		42.0	34.0	34.0	

Tillers per Plant

		VARIETIES			Nitrogen
		Atle	Svenno	Koga II	Means
Nitrogen Rates	0	1.77	2.21	1.63	1.83
0wt per acre of Nitro Chalk	2	2.23	2.58	1.84	2.23
	4	2.66	2.87	2.60	2.72
	6	3.13	3.37	2.51	3.02
Variety Means		2.40	2.77	2.11	2.41

Straw Heights

		VARIETIES			Nitrogen
		Atle	Svenno	Koga II	Means
Nitrogen Rates	0	3.9	4.0	3.7	38.7
0wt per acre of Nitro Chalk	2	3.5	4.1	4.1	39.0
	4	3.9	4.0	3.9	39.3
	6	3.7	4.2	4.0	39.7
Variety Means		37.5	40.8	39.3	

Results of Spring Wheat Variety x Nitrogen Trial 1957

1,000 Grain Wts in Grammes

	VARIETIES			Nitrogen Means N.S
	Atle	Svenno	Koga II	
Nitrogen Rates 0	39.26	44.59	41.23	41.69
Owt per acre of 2	40.26	44.37	45.20	43.28
Nitro Chalk 4	40.22	44.67	42.69	42.53
6	40.65	43.72	43.15	42.51
Variety Means + + +	40.10	44.34	43.07	

Nitrogen and interaction N.S

Sig.diff. for Varieties = 1.40 + + +

Co-efficient of variation 2.6%