

FIELD EXPERIMENTS 19 58

Crop: Spring Wheat

Field: Belt

Experiment: Variety and Nitrogen Trial.

Treatments & Layout: Randomised Blocks:- 12 treatments with 3 replications.
cwt per acre of Nitro Chalk.

Treatment No.	Seedbed	Top Dressing	Total
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:

Treatment 60 yds x 3 yards
Harvest 55 yds x 8 rows at 6 $\frac{3}{4}$ "

Manuring with dates of:

Basal dressing 3 cwt per acre of 0:16:16: compound fertiliser.
March 17th 1958. Seed bed dressing of N/C on appropriate plots.
May 17th, 1958 Top dressings of N/C on appropriate plots.

Date of drilling: March 17th 1958 Variety: -

Seed Rate:

Date of lodging score and measuring straw height
July 31st, 1958.Atle 2.54 bushels/acre
Koga II 2.62 bushels/acre
Svenno 2.67 bushels/acre.

Date of Harvest: September 3rd 1958.

Remarks (previous cropping, cultivations, etc.)

1957:- Winter Oats

1956:- Potatoes

1955:- Spring Barley.

Note Book No.

M.H.

RESULTS of Spring Wheat Variety x Nitrogen Trial 1958

LODGING SCORES

Scale 0-10 increasing lodging.

		Varieties			Nitrogen
		Atle	Svenno	Koga II	Means
Nitrogen Rates	0	(2.7)	0.3	0.0	1.0
cwt per acre	2	0.7	0.0	0.7	0.5
of	4	2.3	0.7	(1.7)	1.6
Nitro Chalk	6	4.7	3.0	1.0	3.0
Variety Means		2.6	1.0	0.8	

Figures in brackets include plots severely affected by eyespot

MATURITY SCORES

Scale 0-5 increasing maturity

		Varieties			Nitrogen
		Atle	Svenno	Koga II	Means
Nitrogen Rates	0	3.3	2.7	1.7	2.6
cwt per acre	2	1.7	2.7	1.3	1.9
of	4	1.3	2.0	1.3	1.5
Nitro Chalk	6	0.7	2.0	0.7	1.1
Variety Means		1.7	2.3	1.2	

STRAW HEIGHTS IN INCHES

		Varieties			Nitrogen
		Atle	Svenno	Koga II	Means
Nitrogen Rates	0	37.3	39.3	37.3	38.0
cwt per acre	2	41.3	42.7	41.0	41.7
of	4	42.7	44.3	43.3	43.4
Nitro Chalk	6	39.3	42.7	40.7	40.9
Variety Means		40.2	42.2	40.6	

Yield of Grain in Sacks per Acre at 66% D.M.

		Varieties			sig dif 0.7
		Atle	Svenno	Koga II	Nitrogen Means.
Nitrogen Rates	0	8.0	8.3	9.4	8.6
in cwt per acre	2	11.5	12.4	11.5	11.8
of	4	11.8	13.5	12.7	12.7
Nitro Chalk	6	10.6	12.6	10.9	11.4
Variety Means		10.5	11.7	11.1	

Sig dif 0.6

S.E. as % of G.M. = 6.7

1000 Grain Weights in Grammes

(Block III only)

		Varieties			Nitrogen
		Atle	Svenno	Koga II	Means.
Nitrogen Rates	0	32.47	43.37	41.59	39.14
owt per acre	2	35.76	41.92	42.06	39.91
of	4	33.20	40.90	40.25	38.12
Nitro Chalk	6	32.42	40.32	37.54	36.76
Variety Means		33.46	41.63	40.36	