

## **EXPERIMENTS WITH CORN**

Experiments with corn at the Dickinson Experiment Station in 1955 included a corn silage production trial of twenty two hybrids and open pollinated varieties, a corn grain production trial of ten entries and a rate of planting trial with both a hybrid and an open pollinated variety.

### **CORN SILAGE PRODUCTION TRIAL**

Yields from the corn silage production trial are given in [Table 13](#), as well as a summary of the average yields from this trial for the past two years.

### **CORN GRAIN PRODUCTION TRIAL**

Yields from this years corn grain production trial are summarized in [Table 14](#). Yields were poor throughout the trial mainly because of lack of sufficient rain in July and August. Grain yields suffered more than silage yields did, but neither were as good as has been harvested in several recent years.

### **RATE OF PLANTING TRIAL**

Data from the 1955 rate of planting trial and the average yields for 1954 and 1955 are given in [Table 15](#).

The rate of planting trial was begun in 1954 to determine the proper planting rates for this crop for highest production of both silage and grain. Because of the droughty July and August yields were poor from this trial and variations were rather wide between treatments. The trial will be continued for several years and progress reports following the completion of the third years trial will be made.

**Table 13 - Yield Data from the Corn Silage Production Trial - 1955****Date Seeded - 5-20-55; Drill Row Seeding**

Variety or Hybrid	Yield tons per acre green					Moisture % 1955	Average yield 2 yr.		
	1	2	3	4	Av.		1954	1955	Av.
Nodakhybrid 208	4.70	5.52	7.76	6.23	6.05	73.8	6.48	6.05	6.27
Nodakhybrid 301	4.23	4.70	6.23	4.11	4.82	72.8	6.89	4.82	5.86
Agsco Western Drill Corn	3.76	4.58	5.64	5.99	4.99	76.6	---	---	---
Nodakhybrid 305	4.47	4.74	3.29	5.64	4.47	77.1	7.15	4.47	5.81
Nodakhybrid 306	6.11	4.23	4.70	5.41	5.11	73.3	---	---	---
Norden 77	4.23	3.88	5.41	4.47	4.50	72.3	4.27	4.50	4.39
Wisconsin 279	4.23	4.70	5.64	5.17	4.93	75.6	7.09	4.93	6.01
Rainbow flint (Mandan)	4.47	4.94	6.23	4.35	5.00	72.6	6.48	5.00	5.74
Falconer	3.41	5.29	5.88	4.82	4.85	74.1	6.39	4.85	5.62
Northwestern Dent	4.23	4.23	6.23	4.82	4.88	74.6	---	---	---
Rainbow flint (tall)	3.06	4.00	5.41	5.52	4.50	71.1	7.60	4.50	6.05
Jacques - Kow Salad IE	6.46	5.76	4.94	5.52	5.67	79.3	8.51	5.67	7.09
Jacques 853 J	3.53	5.52	4.35	4.47	4.47	74.8	7.45	4.47	5.96
Jacques Sib Bred IF	4.00	4.00	5.88	3.64	4.38	75.6	7.24	4.38	5.81
Kingscrot KF-1	4.58	4.94	6.58	6.11	5.55	74.8	8.60	5.55	7.08
Kingscrot KE-3	5.41	5.01	4.94	5.88	5.31	74.8	---	---	---

Kingscrot Wheatland blend	4.11	5.05	4.82	4.70	4.67	78.6	7.68	4.67	6.18
Kingscrot Northern King	4.94	5.05	5.17	3.88	4.76	78.3	7.33	4.76	6.05
Agasco Multicross 75	4.35	5.41	5.29	4.11	4.79	76.8	---	---	---
Newsday N-21	3.76	3.29	4.58	4.11	3.94	69.9	6.21	3.94	5.08
Newsday Early Hybrid Mix	4.47	5.29	4.58	4.00	4.59	70.3	6.18	4.59	5.39
Agasco 301	3.41	4.70	4.35	4.35	4.20	72.6	---	---	---

**Table 14 - Agronomic Data from the Corn Grain Production Trial - 1955**

**Date Seeded - 5-20-55; Cultivated Drill Rows<sup>1</sup>**

Description	Yield - Bu. per acre				Average
	1	2	3	4	
Nodakhybrid 301	13.4	15.1	20.1	31.8	20.1
Nodakhybrid 305	10.1	10.1	11.7	21.8	13.4
Nodakhybrid 306	33.5	21.8	36.4	36.4	32.0
Morden 77	15.1	10.1	28.5	38.5	23.1
Wisconsin 279	8.4	3.4	31.8	28.5	18.0
Rainbow Flint (Mandan)	5.0	5.0	21.8	16.8	12.2
Falconer	8.4	10.1	10.1	3.4	8.0

Kingscrost KF-1	6.7	6.7	6.7	3.4	5.9
Kingscrost KE-3	10.1	10.1	8.4	3.4	8.0
C. B. 1210	43.6	26.8	48.6	50.3	42.3

<sup>1</sup>Rows 42 inches apart. Plants in the row averaged 12 to 18 inches.

**Table 15 - Agronomic Data from the Rate of Planting Trial with Corn - 1955**

**Date Seeded - 5-20-55**

Description	Plant Spacing	Green silage wt - tons				2 yr. av. 1954-55	Ear corn yield Bu.				2 yr. av. 1954-55
		1	2	3	Av.		1	2	3	Av.	
Nodak 301	6 inches	7.50	5.00	4.50	5.67	6.17	9.37	8.18	13.71	10.42	25.16
Nodak 301	12 inches	6.00	5.00	4.00	5.00	5.73	12.77	8.24	21.13	14.05	26.38
Nodak 301	18 inches	5.25	5.25	2.75	4.41	5.19	10.50	7.74	19.50	12.58	26.04
Nodak 301	24 inches	3.50	3.50	2.50	3.17	4.53	17.30	8.93	20.52	15.58	26.39
Rainbow flint (Mandan)	6 inches	7.25	6.00	6.25	6.50	7.03	14.47	1.38	2.52	6.12	21.06
Rainbow flint (Mandan)	12 inches	5.75	6.25	4.25	5.42	6.85	14.72	1.89	6.42	7.68	23.54
Rainbow flint (Mandan)	18	8.50	6.25	3.75	6.17	7.13	18.43	1.89	6.29	8.87	24.89

	inches										
Rainbow flint (Mandan)	24 inches	3.38	5.25	5.00	4.45	4.54	9.31	3.96	4.66	5.97	21.34

---

[Back to 1955 Research Reports Table of Contents](#)

[Back to Research Reports](#)

[Back to Dickinson Research Extension Center \(http://www.ag.ndsu.nodak.edu/dickinso/\)](http://www.ag.ndsu.nodak.edu/dickinso/)

[Email: drec@ndsuent.nodak.edu](mailto:drec@ndsuent.nodak.edu)

---