

EXPERIMENTS WITH FLAX

Experiments with flax at the Dickinson Experiment Station in 1955 included varietal field plot trials of twelve varieties and nursery trials of twelve varieties and selections.

FLAX VARIETAL TRIALS

Yields were fairly good in this years flax variety trial with Dakota, Linda, Marine and Bison all yielding seven or more bushels per acre. Dry weather in July reduced the potential flax yield and was favorable for weed growth which also aided in reducing the final crop yield.

FLAX NURSERY TRIALS

Yields in the weed free nursery trials were more than double those from the field plot trials. CrystalxRedson, C.I. 1608, was high yielding entry in this trial with an average of 16.7 bushels per acre. Raja was the lowest yielder with an average yield of 11.3 bushels per acre.

Data from the flax varietal trials are given in tables 13 and 14. Data from the 1955 Uniform Flax Nursery are summarized in table 15.

Table 16 - Agronomic Data from Flax Varietal Trials - 1955											
Date Seeded - 5-11; Date Emerged - 5-22; Rate - 2 pecks per acre; Plot size - 1/66 acre											
Description	C.I. or N. No.	Yield - Bu. per Acre					Test Wt.	Dates		Ht. In.	Rank
		1	2	3	4	Av.		1st Bloom	Ripe		

Sheyenne	1073	2.4	5.9	8.3	8.3	6.2	52.0	7-1	8-3	22	8
Raja	---	3.5	5.3	7.7	9.4	6.5	51.0	7-1	8-3	24	5
Marine	1135	3.5	8.3	9.4	7.7	7.2	52.0	7-1	8-3	23	3
Dakota	1071	5.3	5.9	11.8	8.3	7.8	52.5	7-2	8-3	23	1
Linda	1165	5.3	7.7	8.3	9.4	7.7	50.0	7-4	8-4	26	2
Bison	389	4.1	5.9	8.9	8.9	7.0	53.0	7-4	8-3	26	4
Norland	3256	3.5	6.5	7.1	7.1	6.1	51.0	7-2	8-3	26	10
Victory	1045	3.5	5.9	6.5	7.1	5.8	53.0	7-2	8-3	24	11
Redwood	1030	4.7	6.5	6.5	7.1	6.2	51.0	7-4	8-7	25	9
B - 5128	5128	4.7	5.9	5.9	5.9	5.6	51.0	7-8	8-8	24	12
Royal	Canada	5.9	5.9	8.3	5.3	6.4	51.0	7-6	8-8	23	6
De Oro	977	4.7	6.5	6.5	7.1	6.2	49.0	7-4	8-7	23	7

Table 17 - Comparative Yields Flax Varietal Trials - 1946-1955 with Averages since 1946

Variety	Yields in Bushels per Acre										Averages								
	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1954 to 1955	1953 to 1955	1952 to 1955	1951 to 1955	1950 to 1955	1949 to 1955	1948 to 1955	1947 to 1955	1946 to 1955
Bison	9.7	11.3	7.4	0	8.9	4.0	9.3	5.4	0	7.0	3.5	4.1	5.4	5.1	5.8	4.9	5.3	5.9	6.3
Victory	9.1	10.1	5.4	0	11.5	3.8	8.1	3.4	0	5.8	2.9	3.1	4.3	4.2	5.4	4.7	4.8	5.3	5.7
B5128	8.7	14.6	5.0	0	12.1	3.0	5.7	5.0	0	5.6	2.8	3.5	4.1	3.9	5.4	4.5	4.6	5.7	6.0

Royal	10.7	12.0	7.0	0	9.5	3.9	5.4	4.2	0	6.4	3.2	3.5	4.0	4.0	4.9	4.2	4.6	5.4	5.9
Dakota	9.1	10.8	10.7	0	10.9	3.5	9.0	4.6	0	7.8	3.9	4.1	5.4	5.0	6.0	5.1	5.8	6.4	6.6
Sheyenne	9.3	14.0	4.5	0	9.5	3.8	4.1	6.3	0	6.2	3.1	4.2	4.2	4.1	5.0	4.3	4.3	5.4	5.8
Marine					9.5	3.7	6.1	4.1	0	7.2	3.6	3.8	4.4	4.2	5.1				
Redw ood					8.4	2.8	4.8	3.2	0	6.2	3.1	3.1	3.6	3.4	4.2				
Linda							5.4	7.3	0	7.7	3.9	5.0	5.1						
Raja										6.5									
Norland										6.1									
De Oro										6.2									

Table 18 - Agronomic Data from the Uniform Regional Flax Nursery - 1955

Date Seeded - 4-24; Date Emerged - 5-10; Rate - 2 pecks per acre; Plot - 1/66 acre

Description	C.I. or N. No.	Yield - Bu. per acre				Test Wt.	Dates		Ht. In.	Rank
		1	2	3	Av.		1st Bloom	Ripe		
Bison	378	12.2	13.8	17.4	14.5	55.5	6-28	8-7	22	7
Redwing	320	14.8	13.3	17.0	15.0	56.0	23	3	21	4
Redw ood	1130	11.6	17.4	18.4	15.8	56.0	25	7	22	2
Marine	1135	14.0	12.2	14.8	13.7	55.5	25	3	19	9

Raja	1483	9.6	13.4	11.0	11.3	55.5	23	3	18	12
Crystal x Redson	1559	12.4	12.0	17.2	13.9	55.5	28	7	24	8
Repitible x Redson	1604	11.2	15.8	17.6	14.9	56.0	23	3	20	5
(770B x Arg. S.C.) (Arrow x 975)	1605	13.2	13.8	20.0	15.7	55.5	28	4	21	3
980 x Zenith	1606	12.6	15.4	16.2	14.7	55.0	25	7	18	6
Cl 116 x Redwood	1607	9.6	11.2	17.6	12.8	55.0	28	8	18	11
Crystal x 975	1608	14.0	16.2	19.8	16.7	55.0	28	7	24	1
B 5128	---	10.6	14.6	14.6	13.3	55.0	26	8	22	10

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