

Experiments with Flax - 1960

Experiments with flax at the Dickinson Experiment Station in 1960 included a varietal field plot trial of 9 varieties and the Uniform Regional Flax nursery.

Field Plot Trials

Lack of adequate July moisture and excessively hot weather in July reduced flax yields considerably. Highest yielding varieties were B5128 and Norland.

Yields from the flax variety trial are summarized in Tables 24 and 25.

Nursery Trials

Yields in the Uniform Regional Flax nursery ranged from 7.3 to 2.3 bushels per acre this year. Data from the Uniform nursery planting are given in Table 26.

Description	Yield-Bushels Per Acre				Test Wt.	Date First Bloom
	1	2	3	Av.		
Sheyenne	1.4	3.2	3.2	2.6	53.0	7-1
Marine	4.7	9.1	5.2	6.3	52.0	4
Bolley	1.9	8.2	6.7	5.6	52.0	1

Linda	3.5	9.2	5.1	5.9	52.0	3
Bison	5.2	8.8	6.4	6.8	53.0	5
Norland	7.8	8.5	6.2	7.5	52.5	1
Redwood	7.2	8.5	5.7	7.1	53.0	5
Army	7.7	8.7	5.4	7.3	53.0	4
B-5128	7.8	8.0	7.8	7.9	53.0	5
Std. error % 22.6 LSD @ 5% 2.5 Bushels, Seeded May 5, 1960 on Summerfallow. No fertilizer used.						

Table 25. Comparative - Flax Variety Trials - 1952-1960											
Description	Yield in Bushels Per Acre										
	1952	1953	1954	1955	1956	1957	1958	1959	1960	'52-'60	'58-'60
Sheyenne	4.1	6.3	0	6.2	0	0	6.8	0	2.6	2.9	3.1
Marine	6.1	4.1	0	7.2	0	0	9.4	0	6.3	3.7	5.2
Linda	5.4	7.3	0	7.7	0	0	9.9	0	5.9	4.0	5.3
Bison	9.3	5.4	0	7.0	0	0	11.0	0	6.8	4.4	5.9
Redwood	4.8	3.2	0	6.2	0	0	9.0	0	7.1	3.4	5.4
B-5128	5.7	5.0	0	5.6	0	0	8.5	0	7.9	3.6	5.5
Norland				6.1	0	0	8.1	0	7.5		5.2
Army							8.1	0	7.3		5.1

Bolley							10.6	0	5.6		5.4
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One of the biggest obstacles to flax production on old land is competition from both grassy and broadleaved weeds. Crop failures in 1954, 1956, and 1957 were due largely to weed competition and various seasonal conditions which made chemical weed control impractical or impossible without damage to the crop. Lack of adequate moisture and excessively hot weather in 1959 damaged the plots so severely, they were considered a total failure.

Table 26. Agronomic data from the Uniform Regional Flax Nursery - 1960

Description	CI No.	Yield - Bu. Per Acre				Days to Bloom	Height Inches
		1	2	3	Av.		
Bison	389	4.6	4.2	5.0	4.6	60	22
Redwing	320	5.6	2.2	5.0	4.3	58	21
Redwood	1130	4.4	5.2	5.6	5.1	58	18
Marine	1135	5.6	5.4	4.6	5.2	56	22
Redwood Hi oil	1822	4.2	5.8	3.0	4.3	56	20
(Renew-Bison) Koto-Redwing, RWD	1823	6.6	7.2	4.4	6.1	56	20
Resel. C. I. 1604	1825	3.8	10.4	7.6	7.3	56	18
Resel. C. I. 1605	1826	5.2	3.8	3.2	4.1	56	20
Resel. C. I. 1606	1914	5.6	7.2	4.0	5.6	58	17
Dakota x Crystal-Bison	1915	6.6	4.8	4.2	5.2	59	21

Crystal x Rocket	1916	3.6	2.0	1.2	2.3	60	24
Red x (Valuta-Raja) Otta 5648c	2264	3.6	3.6	3.4	3.5	61	21
Date Seeded - April 29, 1960							

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