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1943 Crop Variety Yields and Recommendations

South Dakota Agricultural Experiment Station

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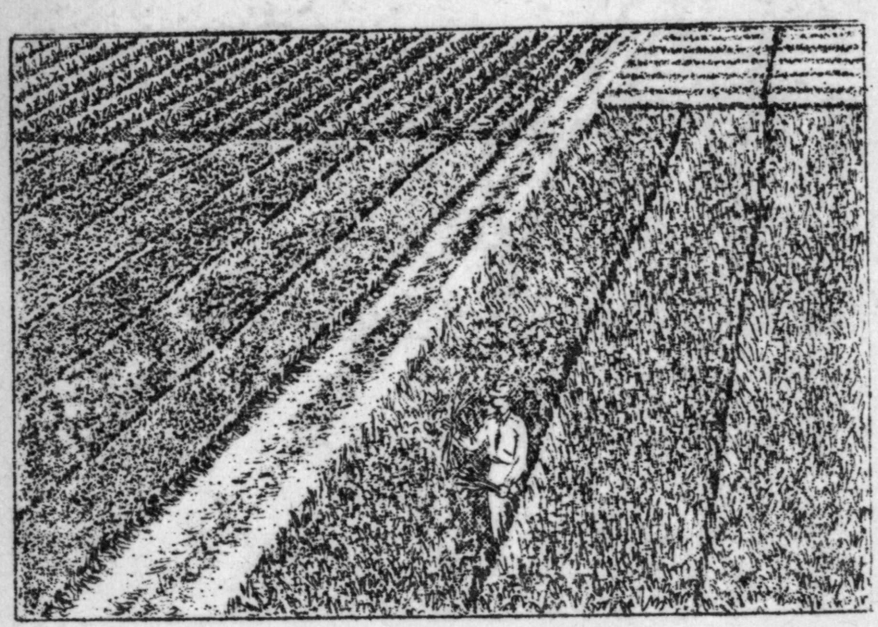
1943 CROP VARIETY YIELDS and RECOMMENDATIONS



Variety Test Plots

Agricultural Experiment Station
South Dakota State College
Brookings, South Dakota

1943 CROP VARIETY YIELDS AND RECOMMENDATIONS

by

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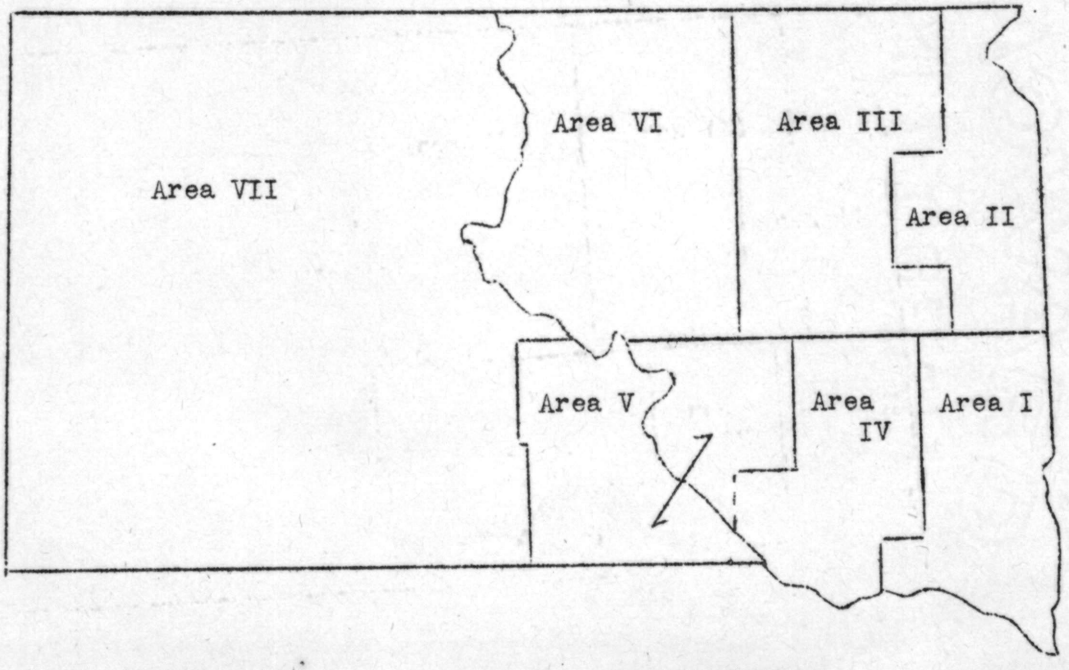
More than 14,000,000 acres of land in South Dakota are in crops. Each year two-thirds of this acreage is planted to forage crops and small grains. The selecting and growing of adapted varieties can do much to meet the present increased demand for food and feed as a result of the war needs. By the use of adapted and superior varieties growers obtain greater yields and also avoid many risks from disease, dry weather and frost.

One of the most effective methods of obtaining maximum yields and reaching our 1944 production goals is through greater use of desirable varieties. This pamphlet, therefore, has been prepared to help farmers pick out the best variety to grow on their farm. In this pamphlet are summarized the yield results that were obtained from comparable test plots located on experimental and private farms in South Dakota. Although 1943 data for each variety are given, the average of several years results is more dependable and should be used in choosing the best variety. Recommendations are based not only on yield but also earliness, disease resistance, quality and other characters. The yield results and recommendations for each area for the various crops are given on the following pages:

ADAPTATION AREAS OF SOUTH DAKOTA



WHEAT

Recommended Varieties of Wheat

Variety	Areas in which adapted
Spring Wheat	
Pilot	All areas where spring wheat is grown.
Rival	
Winter Wheat	
Turkey S D 144	Southern part of areas I,IV,V, and VII.
Nebred	
Minhardi	
Amber Durum Wheat	
Mindum	Areas II,III,IV,V,VI, and VII.
Kubanka	

Yield of Hard Red Spring Wheat Varieties

Variety	Bushels Per Acre		Variety	Bushels Per Acre	
	1943	4 Yr. Ave.		1943	4 Yr. Ave.
	Brookings			**Eureka**	
Pilot	22	29	Pilot	12	24
Rival	21	28	Rival	12	24
Thatcher	20	23	Thatcher	12	23
Ceres	14	20	Ceres	12	22
Regent	17	25	Regent	9	22
	Highmore			**Vivian**	
Pilot	17	16	Pilot	--	14
Rival	14	15	Rival	--	17
Thatcher	20	16	Thatcher	--	14
Ceres	14	16	Ceres	--	14
Regent	9	13			

OATS

Recommended Varieties of Oats

Variety	Areas in which adapted
Vikota	Areas I,II,III,IV, and northern one-third of Area VI.
Tama	
Boone	
Vicland	
Miomark	Northern one-third of Area VI.
Brunker	Areas V, VII and southern two-thirds of Area VI, and western part of Area IV.

Yield of Oat Varieties

Variety	Bushels Per Acre		Variety	Bushels Per Acre	
	1943	3 Yr. Ave.		1943	2 Yr. Ave.
	Brookings			Eureka	
Vikota	57	65	Vikota	50	50
Tama	58	64	Tama	43	54
Boone	60	64	Boone	38	54
Vicland	59	63	Miomark	42	54
Richland	50	43	Richland	45	46
Gopher	35	35	Gopher	28	40
Burt	26	32	Burt	29	--
Nakota	63*	40*	Brunker	37	--
			Nakota	49	48
	Highmore			Vivian	
Brunker	48	--	Brunker	30	48
Burt	40	42	Burt	38	41
Richland	36	46	Richland	19	40
Gopher	36	44	Gopher	23	42
Nakota	48*	44*	Nakota	24*	43*

* Divided by 0.7 to adjust for hulls

BARLEY

Recommended Varieties of Barley

Variety	Areas in which adapted
Odessa	Areas I,II,III, eastern part of IV and northern part of VI.
Wis. Red. 38, Velvet	Areas I, II and eastern part of IV.
Spartan	Areas I,II, but especially in Areas III,IV,V,VI, and VII.
Trebi	Area VII

Yield of Barley Varieties

Variety	Bushels Per Acre		Variety	Bushels Per Acre	
	1943	5 Yr. Ave.		1943	3 Yr. Ave.
	Brookings			Eureka	
Odessa	41	45	Odessa	31	42
Wisconsin 38	35	45	Wisconsin 38	39	--
Velvet	21	35	Spartan	14	41
Spartan	25	41	Trebi	34	43
			Dryland	17	35
	Highmore			Vivian	
Spartan	12	23	Spartan	8	23
Trebi	34	28	Trebi	22	37
Odessa	22	25	Odessa	9	24
Dryland	16	20	Dryland	8	26

FLAX

Recommended Varieties of Flax

Variety	Areas in which adapted
Redwing, Koto*	Areas I, II, III and eastern part of Area IV.
Crystal*	Northern part of Area II.
Buda	Areas II and III.

* Seed is being increased but not available in 1944.

Yield of Flax Varieties at Brookings

Variety	1939	1940	1941	1942	1943	5 Yr. Ave.
Redwing	17	15	16	18	15	16.2
Bison	16	14	16	18	10	14.8
B. Golden	16	18	15	11	15	15.0
Biwing	18	14	14	17	13	15.2
Redson	18	16	16	18	15	16.6
Koto	19	15	16	22	15	17.4
Crystal	--	--	15	16	19	----

CORN

Recommended Varieties of Corn*

Varieties	Areas in which adapted
Sokota Hybrids	
411, 414 and 416A	Areas II and III
412A, 413AA and 415	Areas II, IV and V
417, 412 and 413A	Areas III and VI
413, 418 and 420	Areas II, III and VI
Open Pollinated	
Alta, Eureka, Fulton, Silver King, Gehu Flint	Areas VI and VII
Dakota White Dent	
Brown Co. Dent	
Northwestern Dent	
Squaw Corn	
Rainbow Flint	

For Commercial hybrids see "The 1943 S. Dak. Hybrid Yield Test," South Dakota Agricultural Experiment Station Circular No. 52, 1944.

Corn Yields of Open Pollinated Varieties and Sokota Hybrids

Variety	Brookings		Milbank	Eureka	Highmore	Letcher	Parkston
	1943	4 Yr. Ave.	1943	1943	1943	1943	1943
Brookings #86 (O.P.)	36.3	39.6	17.5	18.3	12.3	7.5	15.7
Growers	41.8	----	14.0	13.4	17.2	2.0	14.0
Sokota 411	50.1	49.3	24.0	22.6	13.7	10.9	17.2
Sokota 412	49.8	47.6	18.6	35.2	17.2	10.0	10.6
Sokota 412A	38.9	44.7	28.9	24.3	15.4	7.4	27.5
Sokota 413	47.8	43.7	32.0	24.9	21.7	6.3	19.2
Sokota 413A	49.5	46.2	18.0	22.6	19.4	12.0	16.9
Sokota 413AA	59.2	53.1	25.5	21.7	19.2	10.6	28.6
Sokota 414	44.3	47.7	28.3	21.7	11.4	9.7	21.5
Sokota 415	46.9	45.5	31.5	28.0	14.0	11.4	18.0
Sokota 416A	47.5	42.2	18.9	17.2	14.0	8.9	16.0
Sokota 417	49.2	48.5	24.3	37.8	20.6	5.4	21.5
Sokota 418	54.3	50.4	30.0	41.5	23.5	4.3	25.5

SORGHUM

Recommended Varieties of Sorghum

Variety	Areas in which adapted
Forage Sorghums	
39-30-S	All areas where sorghum is grown
Atlas Lowlands	Areas I, IV, V and southern part of Area III.
Waconia	Areas I, IV, V and southern part of Area III.
Norkan	Areas I, IV, V and southern parts of Areas III and VI.
Sudan Grass	All areas
Grain Sorghums	
Sooner Milo	Areas II, III, IV, V, VI and VII
Improved Coes	Areas IV, V, VI and VII.
Colby Milo	Areas IV, V, VI and VII.
Sedan Kafir	Areas IV, V, VI and VII.
Cheyenne Kafir	Areas V, VI and VII.

Yield of Forage and Grain of Sorghums at Brookings

Variety	Bu. Grain Per Acre		Lbs. Forage Per Acre	
	1943	5 Yr. Ave.	1943	5 Yr. Ave.
39-30-S (Low prussic acic) Dakota Amber	60.8	38.0	8288	7332
Modoc	46.4	32.6	8880	6741
Early White Milo	40.0	35.7	7200	6715
Sooner Milo	41.6	35.2	8000	6471
Day Milo	35.0	21.4	5360	4594
Early Kalo	59.2	30.5	8000	6952
Cheyene Kafir	28.8	32.4	8800	6382
Waconia	22.4	22.1	14640	8762
Highland Kafir	36.8	----	6080	----
Improved Coes	54.4	----	8240	----
Sedan Kafir	54.4	----	8240	----
Early Hegari	65.6	----	8640	----
Norkan	36.8	----	12960	----

SOYBEANS

Recommended Varieties of Soybeans

Variety	Areas in which adapted
Manchukota	Area I and southern part of Area II.
Mandarin	Area II and northern part of Area I.
Habaro	Areas I and II.
Richland	Southern one-half of Area I.

Yield of Soybean Varieties at Brookings

Variety	1942	1943	2 Yr. Ave.
Manchukota	24.2	21.4	22.8
Mandarin	23.8	22.2	23.0
Habaro	24.8	24.7	24.7
Richland	16.0	21.9	19.0

ALFALFA

Recommended Varieties of Alfalfa

Variety	Areas in which adapted
*Ranger Hardistan Ladak	All areas of the state. Because of their wilt resistance, these varieties are recommended especially for seed production.
Cossack Dakota Common Baltic Grimm	All areas of the state.

* Seed being increased but not available in 1944.

Hay Yields of Alfalfa Varieties at Brookings

Variety	1943- Tons Per Acre			5 Yr. Ave. - Tons Per Acre		
	1st Cutting	2nd Cutting	Total	1st Cutting	2nd* Cutting	Total
Cossack	3.0	1.7	4.7	2.7	2.1	4.8
Hardistan	2.8	1.6	4.4	2.6	2.1	4.7
Ladak	3.4	1.5	4.9	2.9	1.7	4.6
Grimm	3.0	1.7	4.7	2.4	2.0	4.4
Dakota Common	2.9	1.7	4.6	2.4	1.9	4.3
Baltic	2.8	1.7	4.5	2.4	1.9	4.3
Hardigan	2.6	1.8	4.4	2.3	1.9	4.2
Kansas Common	2.3	1.6	3.9	2.1	1.6	3.7
Arizona Chilean	1.3	.9	2.2	1.4	.9	2.3

* In 1941 the second cutting was left for seed.