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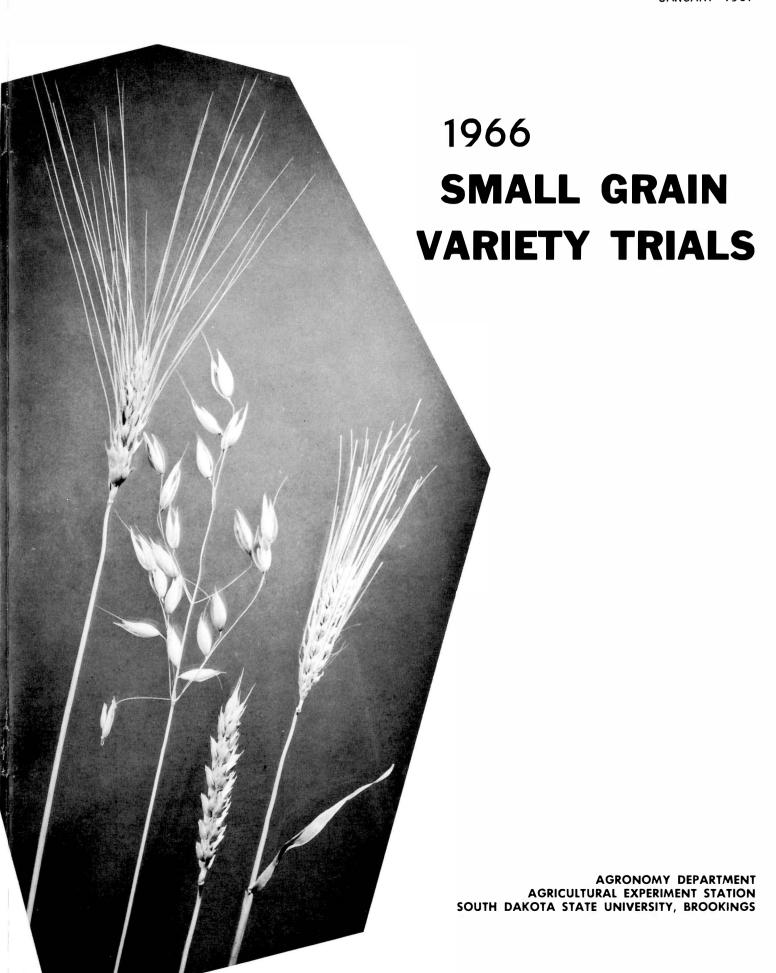
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Standard Variety Small Grain Trials in South Dakota 1962-1966

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Varieties of small grains currently grown by farmers, newer releases not widely in use, and experimental strains being evaluated for possible release were in the performance trials in 1966. The trials were conducted at seven locations in South Dakota, under the supervision of the Crop Performance Testing Activity, Agricultural Experiment Station. Grain yields, test weights, available five-year averages and agronomic and pathologic data are reported in this circular.

Location of Trials

Testing only at Brookings would be an insufficient guide to varietal performance over the state. Hence, testing is conducted at substations and with farmer cooperators. The locations and dates of seeding and harvesting are presented in Table 1. Results of tests of soil samples taken at seeding time and fertilizer applied are listed in Table 2. A new test site was established near Bison in northwestern South Dakota.

Weather and Climatic Conditions

Seeding in eastern and southern South Dakota was accomplished as soon as the frost left the ground and fields could be worked. Seeding in western and northern areas was delayed, first by a late blizzard and then by showers in late April.

Moisture was adequate for uniform germination when the grain was seeded. Growth was slow throughout the season because of low rainfall until late June. Hail at Bison on June 24 was damaging, especially to early varieties then heading. Severe storms at Eureka and Watertown caused serious lodging, especially of barley. July rains were too late to benefit the small grains significantly. July and August rains delayed ripening of the flax and caused serious weed problems. In many cases new bools set on the flax but failed to mature.

The assistance of the following named individuals is acknowledged. R. S. Albrechtsen, P. B. Price and D. G. Wells of the Agronomy Department; Substation supervisors Albert Dittman, Jake Fredrikson, Harry Geise, Frank Holmes, Quentin Kingsley, Herb Lund, Burton Lawrensen and Lenis Nelson; and farmer-cooperators Lavon Schearer and Joe Wunder.

TABLE 1. LOCATION OF TRIALS AND DATES OF SEEDING AND HARVESTING, 1966

County	Location and Post Office	Date Seeded	Date Harvested
	Barley		
Brookings Clay Codington Hyde McPherson Pennington Perkins	Agronomy Farm, Brookings Southeast Research Farm, Beresford Northeast Research Farm, Watertown Central Substation, Highmore North Central Substation, Eureka Lavon Schearer Farm, Wall Joe Wunder Farm, Bison	April 14 April 7 April 15 April 13 May 3 April 25 May 2	July 19 July 14 July 26 July 18 July 27 July 22 July 26
	Flax		
Brookings Codington Hyde	Agronomy Farm, Brookings Northeast Research Farm, Watertown Central Substation, Highmore	May 7 May 5 May 3	as ready August 11 August 29
	<u>Oats</u>		
Brookings Clay Codington Hyde McPherson Pennington Perkins	Agronomy Farm, Brookings Southeast Research Farm, Beresford Northeast Research Farm, Watertown Central Substation, Highmore Northcentral Substation, Eureka Lavon Schearer Farm, Wall Joe Wunder Farm, Bison	April 14 April 7 April 15 April 13 May 3 April 25 May 2	as ready July 15 July 27 July 18 July 27 July 22 July 26
	Spring Wheat and Durum		
Brookings Clay Codington Hyde McPherson Pennington Perkins	Agronomy Farm, Brookings Southeast Research Farm, Beresford Northeast Research Farm, Watertown Central Substation, Highmore North Central Substation, Eureka Lavon Schearer Farm, Wall Joe Wunder Farm, Bison	April 14 April 7 April 15 April 13 May 3 April 25 May 2	July 29 July 15 & August 2 July 19 July 28 July 22 July 26
	Winter Wheat and Rye		
Brookings Clay Hyde Pennington	Agronomy Farm, Brookings Southeast Research Farm, Beresford Central Substation, Highmore Lavon Schearer Farm, Wall	Sept. 12 Oct. 4 Sept. 26 Sept. 9	destroyed July 14 July 18 destroyed

TABLE 2. RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES TAKEN PRIOR TO SEEDING SMALL GRAIN TRIALS AND FERTILIZER APPLIED FOR 1966 CROP YEAR

Location	Soil Classification	Percent Organic Matter		К	рН	Fertilizer Applied						
	Lbs/A											
Brookings	Vienna loam	3.6	134	250	7.3	plowed down 200#/A 16-20 with seed 20#/A 18-46						
Beresford	Kranzburg silty clay	3.7	12	533	6.4	disced under 100#/A 50-20 with seed 20#/A 18-46						
Watertown	Kranzburg silt loam	3.5	37	250	6.2	disced under 200#/A 30-20 with seed 20#/A 18-46						
Highmore	Williams loam	2.3	105	533	6.5	disced under 100#/A 33.5- with seed 20#/A 18-46						
Eureka	Williams loam	4.0	95	533	7.0	disced under 100#/A 25-16 with seed 20#/A 18-46						
Wall Bison	Morton silt loam Morton silt loam	1.6 2.1	13 35	409 533	7.0 6.9	with seed 50#/A 18-46 with seed 50#/A 18-46						

Temperatures were well below average for April and early May. The last freezing temperature of the spring occurred at most locations on May 13. Damage was negligible. The below-normal temperatures extended into June at some locations. Although lower June temperatures prevailed, the moisture was quite limited and plant growth was slow. Yields of all entries, early or late, were reduced. Temperatures of $100-110^{\circ}$ F. occurred at most locations in early July and caused some reduction in yield and test weight, especially of late varieties.

Weather data are presented for six locations in Table 3. No reporting stations are located near Wall.

Planting and Harvest Procedure

Field preparation, fertility level and rotation sequence are the same each year at each substation in accordance with practices established some time ago. The trials at Wall and Bison were on fallow land. To assure adequate fertility at germination and during early plant growth a mixed fertilizer was put down the boot with the seed at planting. On the fallow land the rate was 50 pounds per acre of 18-46-0 and on the substations the rate was 20 pounds per acre of the same material.

The trials at each site were seeded in a randomized-block design with four replications. The plots were 14 feet long and of four rows one foot apart. The two center rows were trimmed of border effect to 12 feet in length before harvest for yield determinations. A small National mower, equipped with catching hopper, was used to cut the grain. Any lodged grain was gleaned from the harvested area prior to bagging the sample. The samples were returned to the Main Station, dried when necessary and stored in a pole shed until threshed with a Vogel-type nursery thresher. Following threshing the samples were cleaned, weighed for yield determination, and bushel weights recorded.

TABLE 3. TEMPERATURE AND PRECIPITATION DATA FOR THE SMALL GRAIN GROWING SEASON OF SOUTH DAKOTA FOR 1966

		Tempera				Precipitati	on
		Mean	Depar-			Depar-	
Location	Month	Average	ture	Ave.	Monthly	ture	Total
			from	Depar-	Total	from	Depar-
			Normal	ture		Normal	ture
		degre	es F.			inches	
Eureka*	April	37.5	-6.1		1.54	0.19	
	May	54.1	-2.0		0.83	-1.76	
	June	66.2	1.2		2.11	-1.72	
	July	75.7	3.3	-0.9	2.98	0.53	-2.76
Last f	reeze May	13 - 28 ⁰			7.46		
Highmore*	April	40.4	-5.0		1.69	-0.05	
1.W	May	55.8	-1.4		0.95	-1.38	
	June	67.7	0.9		2.50	-1.04	
	July	78.6	4.1	-0.35	3.65	1.67	-0.80
Last	reeze May	13 - 26°			8.79		
Brookings*	April	39.0	-6.2		1.76	-0.01	
1E	May	52.3	-5.3		1.31	-1.48	
	June	65.6	-1.5		5.21	1.26	
	July	78.6	1.8	-2.8	1.39	-0.76	-0.99
Last	Freeze May	11 - 320			9.67		
Centerville	1	43.8			1.70		
6SE	May	57.9			1.20		
	June	70.0			2.82		
	July	76.9			6.72		
Last f	reeze May	13 - 30			12.44		
Bison*	April	39.0			2.07		
	May	54.6			1.38		
	June	65.5			2.58		
	July	75.1			3.92		
Last f	Freeze May	13 - 31			9.95		
NE Farm	April	36.8			1.49		
15N	May	49.2			0.77		
Watertown	June	64.0			1.88		
	July	73.3			2.19		
Last 1	freeze May	19 - 32 ⁰			6.33		

^{*} Based upon reports of Monthly Climatological Data, U. S. Dept. of Commerce, Environmental Science Services Administration, Office of the State Climatologist, State University, Brookings, South Dakota, 57006

Measurements of Performance

The yield reported for each entry in the trials is the average obtained from grain weights of all replications expressed as bushels per acre. Entries of equal potential may have yielded differently because of variations in stand, slope, or unequal fertility. Mathematical determinations have been made to determine whether yield differences were caused by variations in environment or were true varietal differences.

If the trials means were found not to be statistically different, a notation, N.S., is shown under the table. When the trial was found to have statistically significant differences between mean yields, an additional test, Duncan's Multiple Range Test, was run to show individual comparisons between means at the 5% probability level.

As an example of Duncan's Test, note in Table 5 that varieties accompanied by the same lower case letter under the right hand column headed Statistical Significance, are not statistically different in 1966 yields. In the case of this table, under prevailing environmental conditions of 1966, Primus, Conquest and all entries in descending order through CI 11863 were not statistically different from each other in yield. The above example holds true for all the tables having significant differences in 1966 yields.

Discussion of Results

The 1966 and available five-year averages are presented in tables following the text. A more accurate estimation of a variety's capabilities under seasonal variation is obtained from 1962-66 averages rather than from results of a single year.

Oats: Several newly released varieties were included in the 1966 trials. Under prevailing climatic conditions of 1966, most of the newer varieties performed satisfactorily. However, statements based on one year of testing are often unreliable and further testing will be necessary.

Many of the newer varieties need adequate soil fertility in order to express their full yield potential. Specific varieties may react differently when fertility levels are low. Some varieties have given high yields but low test weight. Time of maturity, heat tolerance, disease reaction and kernel type also affect yield. Varietal recommendations for a specific area are presented on the back cover of this publication.

<u>Barley:</u> The drier growing season favored some of the older, disease susceptible varieties of the feed type at most locations. One exception was Primus, a newly developed, early, South Dakota barley currently undergoing further evaluation for malting. Larker, Trophy and Traill are good malting varieties.

Flax: Five flax varieties, resistant to the newer rust races, are currently recommended. Windom and Summit have the highest yields over a five-year period. The 1966 data at Highmore was unreliable. Data on trials conducted through 1965 are available in Circular 173, 1965 Small Grain Variety Trials.

Rye: Excellent yields of rye were obtained at Beresford in 1966. In the absence of winterkilling, two non-recommended varieties, Elk and Von Lochow, yielded very well. Antelope, Caribou and Pierre are recommended because they possess superior winterhardiness.

<u>Durum:</u> Leeds, a newly released durum, yielded well in 1966. It has better rust resistance and a higher test weight than Wells. Leeds is recommended for the durum growing areas of South Dakota.

Spring Wheat: Several new releases of spring wheat have been added to the recommended list. These varieties were in regional nursuries prior to inclusion in the standard variety trials after their release. Fortuna, a solid-stemmed, sawfly-resistant variety has performed quite satisfactorily in the northwestern and north central areas of the state. Manitou has been satisfactory nearly everywhere it has been grown in the state. Sheridan, released too late for inclusion in the 1966 recommendations, has also been quite satisfactory in the northwestern and north central parts of the state.

<u>Winter Wheat:</u> Lancer has done well in much of the winter wheat area. The South Dakota release, Hume, is superior where winterkilling and rust are more limiting to other varieties. Gage, Scout, and Omaha have done well in the south central area. Ottawa has been quite satisfactory in the extreme southern portions of the state.

TABLE 4. STANDARD VARIETY SPRING WHEAT AND DURUM TRIALS, AGRONOMY FARM, BROOKINGS, 1962-1966

Variety		Average					1.966	
	1962	1963	1964	.1965	1.966	1962-66	Test Wt. Ib/bu	
Wells	24.5	20.9	27.0	45.7	47.0	33.0	6L.O	
Leeds					46.9		63.0	
Lakota	25.8	22.0	22.9	44.1	45.l	32.0	60.0	
Stewart 63				43.1	43.9		63.0	
Manitou				37.0	41.7		58.0	
Crim	12.4	14.5	24.7	36.3	41.5	25.9	58.0	
Fortuna					40.3		59.0	
Justin	17.6	8.3	18.8	35.3	40.1	24.0	58.5	
CI 13773				38.5	40.1		61.0	
CI 13949				48.5	40.0		58.0	
CI 13947				42.3	39.8		57.5	
CI 13826					39.6		58.0	
Thatcher	15.0	10.3	18.6	27.2	39.0	22.0	58.5	
Sheridan		18.3	26.5	43.4	38.6		60.5	
Pembina	22.0	13.5	17.1	34.2	38.1	24.9	57.0	
Chris		23.4	32.7	46.7	36.8		58.0	
Selkirk	22.3	11.9	21.1	33.3	35.7	24.9	55.0	
	17.5	12.7	21.6	32.0	34.7	23.7	58.5	

N.S.

TABLE 5. STANDARD VARIETY BARLEY TRIALS, AGRONOMY FARM, BROOKINGS 1962-1966

		nverage	rrerus	s, busne	els per	acre	1966	
	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	Statistical Significance
Primus					74.5		49.3	2
Conquest					73.9		45.2	a ab
Galt					72.8		44.3	ab
Liberty	51.9	63.4	55.7	76.1	71.4	63.7	46.6	ab
Dickson	010		00.	80.4	70.7	0017	45.2	ab
Trophy	38.9	48.8	48.5	74.9	69.8	56.2	45.2	ab
CI 11864					69.7		46.1	ab
Plains	48.6	46.0	48.3	63.6	68.1	54.9	46.7	abc
Traill	49.6	53.5	50.4	82.3	67.3	60.6	46.5	abc
Larker	53.1	54.8	53.6	76.1	66.1	60.7	47.0	abe
CI 11863					64.0		46.1	abc
CI 13110					62.9		49.5	be
Betzes	32.1	45.5	46.1	75.5	56.4	51.1	47.0	cd
Spartan	40.8	47.8	41.0	56.7	49.1	47.1	47.1	d

TABLE 6. STANDARD VARIETY OAT TRIALS, AGRONOMY FARM, BROOKINGS, 1962-1966

Variety		Average	e yield	s, bush			1966	
	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	Statistical Significance
CI 8172					118.0		37.2	а
Lodi		43.4	78.8	90.3	113.4		36.4	ab
Orbit					112.8		35.0	abc
Portage	62.4	61.4	80.5	105.1	111.8	84.2	38.6	abcd
Ortley	73.4	29.6	83.1	93.4	107.4	77.4	37.5	abcde
Garry	59.5	43.4	80.6	127.2	106.8	83.5	37.2	abcdef
Mo. $0-205$	65.7	37.9	81.8	91.6	105.5	76.5	38.7	bcdefg
Brave			72.1	126.7	105.3		36.2	bcdefg
Holden			76.3	134.2	104.1		37.5	bcdefgh
CI 8174					103.0		39.7	bcdefgh
Harmon					100.4		36.3	bcdefghi
Wyndmere					100.3		38.0	cdefghi
Garland	94.7	52.1	75.8	121.8	100.0	88.9	37.1	cdefghi
Burnett	72.1	45.5	77.8	108.9	99.8	80.8	38.2	cdefghi
Portal					98.5		37.9	defghij
Dupree	69.5	42.6	79.2	111.1	96.7	79.8	37.3	efghij
Coachman		36.9	76.5	112.3	95.3		38.5	efghij
Jaycee					94.7		37.4	efghij
Tyler			72.6	107.6	93.1		35.8	fghij
Andrew	70.3	40.8	70.7	108.9	92.5	76.6	36.6	ghijk
CI 8072					90.4		37.7	hijkl
Clintford			67.3	90.3	86.2		39.8	ijklm
Dawn					86.1		37.4	ijklm
Minhafer	92.3	55.9	65.5	100.3	84.3	79.7	38.6	jklm
Rodney	63.4	40.8	70.7	124.0	77.7	75.3	36.6	klm
Peterson 100				60.1	76.8		35.5	lm
Santee			67.0	66.5	75.8		35.6	lm
Clintland 64			76.9	103.9	75.8		37.6	lm
Tippecanoe			68.7	81.7	73.1		37.1	m
Stormont					72.1		34.2	m
CI 8178				101.1	71.8		36.3	m
Dodge	74.6	56.8	66.5	109.9	66.3	74.8	37.2	
CI 8273					64.3		35.2	

Mean yield 92.7

TABLE 7. STANDARD VARIETY SPRING WHEAT AND DURUM TRIALS, NORTHEAST RESEARCH FARM, WATERTOWN UNIT, 1962-1966

Variety		Average	Yields	s, bushe	els per	acre	1966	
	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	Statistical Significance
Wells	38.3	7.6	33.5	39.4	30.1	29.8	60.0	a
Stewart 63				35.0	29.7		61.5	а
CI 13773				42.9	29.4		58.0	а
CI 13949				49.8	29.1		54.5	а
Leeds					29.0		61.5	а
Lakota	41.2	9.9	29.8	41.4	28.7	30.2	60.0	а
Thatcher	14.1	7.0	23.8	18.0	25.1	17.6	53.5	b
CI 13947				35.3	24.1		52.5	bc
Justin	18.8	6.2	24.0	28.8	23.8	20.3	55.5	bcd
Manitou				38.0	23.4		53.0	bcd
Chris		17.0	32.3	44.5	23.3		55.0	bcd
CI 13826					22.9		53.0	bcde
Rushmore	20.7	9.5	27.6	24.1	22.8	20.9	53.0	bcde
Selkirk	22.4	8.6	24.8	26.4	21.3	20.7	48.5	cdef
Crim	18.0	6.9	29.1	28.0	21.0	20.6	52.0	defg
Pembina	21.4	13.7	23.2	29.1	20.2	21.5	51.0	efg
Fortuna					19.7		54.0	fg
Sheridan		11.4	28.8	42.0	18.2		56.0	g
			Mea	an yield	d 24.5			

TABLE 8. STANDARD VARIETY BARLEY TRIALS, NORTHEAST RESEARCH FARM, WATERTOWN UNIT, 1962-1966

Variety		Average	Yield,	bushel	s per a	acre –	1966	
,	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	Statistical Significance
Spartan Plains Liberty Betzes Conquest	38.9 38.1 38.2 43.7	30.3 34.0 37.9 34.0	40.3 43.5 54.9 47.8	59.3 62.7 70.1 66.9	37.3 37.1 31.4 28.9 25.8	41.2 43.1 46.5 44.3	43.0 37.5 37.0 39.0 35.5	a a b bc cd
Primus Larker Galt CI 13110 CI 11863 Trophy	51.8 47.2	31.6	50.3	67.8 74.3	25.4 24.2 23.1 21.0 20.9 20.1	45.1	38.0 36.0 33.5 33.0 34.5 35.0	cde def def efg fg fg
CI 11864 Traill Dickson	48.8	25.6	47.8	65.5 73.7	18.7 16.4 14.7	40.8	32.0 32.5 33.0	gh h h
			Моз	n viole	1 24 6			

Mean yield 24.6

TABLE 9. STANDARD VARIETY OAT TRIALS, NORTHEAST RESEARCH FARM, WATERTOWN UNIT, 1962-1966

9 73.5 74.7 79.8 2 78.5 2 71.0 68.9 3 71.9	104.9 100.9 124.6 102.1 109.3	1966 60.3 58.8 54.5 54.5 54.2 53.3 53.1	72.3 71.4	Test Wt. 1b/bu 33.7 36.0 33.0 32.0 33.2	Statistical Significance a ab abc abc abc abcd
74.7 79.8 2 78.5 2 71.0 68.9	100.9 124.6 102.1 109.3	58.8 54.5 54.5 54.2 53.3		36.0 33.0 32.0	ab abc abc
74.7 79.8 2 78.5 2 71.0 68.9	100.9 124.6 102.1 109.3	58.8 54.5 54.5 54.2 53.3	71 /	36.0 33.0 32.0	abc abc
79.8 2 78.5 2 71.0 68.9	124.6 102.1 109.3	54.5 54.5 54.2 53.3	71 4	33.0 32.0	abc abc
2 78.5 2 71.0 68.9	102.1 109.3	54.5 54.2 53.3	71 /	32.0	abc
2 71.0 68.9	109.3	54.2 53.3	71 /		
2 71.0 68.9	109.3	53.3	71 /		auca
2 71.0 68.9	109.3		/ 1 • 4	32.7	bcde
68.9		33.L	75.3	30.0	bcde
	122.8	53.0		31.0	bcde
		52.5	79.4	32.2	bcde
		52.1	. ,	33.0	cde
2 69.0	96.0	52.0		30.7	cde
2 0,00	,0.0	51.4		29.0	cdef
		51.4		27.7	cdef
2 78.2	90.2	50.4	66.4	31.5	cdefg
9 72.3		50.0	77.5	32.2	cdefg
80.1		49.4		32.0	cdefgh
000		48.7		28.7	cdefgh
		48.6		32.2	cdefgh
	121.4	48.5		30.0	cdefghi
67.6		48.2		33.7	cdefghi
	107.7	48.1		31.2	cdefghi
4 74.7		48.1	73.9	29.7	cdefghi
3 71.0		47.9	74.3	33.7	cdefghi
6 58.3		47.3	62.9	32.0	defghi
5 74.1		47.1	73.0	30.2	efghij
		47.1		30.0	efghij
75.5	118.5	47.1		29.0	efghij
			64.1		efghij
					fghij
68.6	119.9				ghij
22.0	,,,				hij
5 69.7	110.4				ij
0,0,		40.0			j
	68.6 69.7	68.6 119.9 .5 69.7 110.4	68.6 119.9 43.5 41.9 .5 69.7 110.4 40.9 40.0	68.6 119.9 43.5 41.9 .5 69.7 110.4 40.9	4.2 67.0 102.8 46.6 64.1 30.5 44.1 32.0 68.6 119.9 43.5 30.7 41.9 31.0 .5 69.7 110.4 40.9 32.5 40.0 31.5

TABLE 10. STANDARD VARIETY SPRING WHEAT AND DURUM TRIALS, SOUTHEAST RESEARCH FARM, BERESFORD, 1962-1966

Variety		Average		s, bushe		acre	1966	
	1962	1963	1964	1965	1966	1962–66	Test Wt. lb/bu	Statistical Significance
CI 13949				45.2	35.7		58.0	а
CI 13773				38.2	35.1		60.5	ab
Wells					34.0		58.5	abc
Lakota					33.9		60.0	abc
Stewart 63					33.8		62.5	abc
CI 13826					33.0		55.0	abcd
Chris		16.8	27.1	34.7	32.8		59.0	abcd
Fortuna					32.6		60.0	abcd
Crim	8.5	12.0	21.4	30.9	32.6	21.1	57.5	abcd
Manitou				36.9	31.9		57.0	bcd
Leeds					31.8		61.5	bcd
Rushmore	8.1	11.8	19.4	27.3	30.5	19.4	59.0	cde
Pembina	7.3	11.4	17.5	33.8	30.2	20.0	55.5	cde
Sheridan		16.8	24.4	34.3	30.1		60.0	cde
Justin	4.5	8.7	17.0	20.7	29.9	16.2	57.5	cde
CI 13947				32.3	29.7		57.5	cde
Selkirk	5.7	10.5	18.2	23.7	28.6	17.3	53.0	de
Thatcher	6.5	10.3	19.0	21.8	26.4	16.8	58.0	е
			Mea	an yield	d 31.8			

N.S.

TABLE 11. STANDARD VARIETY BARLEY TRIALS, SOUTHEAST RESEARCH FARM, BERESFORD, 1962-1966

Variety		Average	e Yields	s, bushe	els per	acre	1966	
	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	
Liberty	42.3	34.8	41.5	61.9	53.4	46.8	44.8	
Plains	21.5	21.3	34.8	64.6	51.3	38.7	47.3	
Dickson				70.8	50.3		43.7	
Traill	26.3	32.3	41.5	67.1	49.7	43.4	46.2	
CI 11863					48.9		44.7	
Primus					47.2		46.7	
Galt					46.8		41.0	
Conquest					46.6		44.2	
Trophy	24.8	20.5	37.9	63.0	46.3	38.5	42.2	
Larker	31.6	23.9	42.1	68.5	46.3	42.5	46.2	
CI 11864					45.4		40.7	
CI 13110					45.0		40.7	
Spartan	14.4	18.0	31.2	52.8	43.3	31.9	47.2	
Betzes	11.8	18.9	41.3	60.3	36.0	33.7	42.0	

TABLE 12. STANDARD VARIETY OAT TRIALS, SOUTHEAST RESEARCH FARM, BERESFORD, 1962-1966

Variety				s, bush			1966	
	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	Statistical Significance
Andrew	43.7	56.8	44.0	82.7	78.0	61.0	32.0	а
Dupree	58.8	56.7	58.3	82.6	77.9	66.9	31.1	ab
Wyndmere					77.1		31.0	abc
Orbit					75.9		28.6	abcd
Brave			45.6	85.6	74.1		30.7	abcde
CI 8178				83.6	72.7		31.0	abcdef
Dawn					72.0		31.1	abcdefg
Jaycee					71.4		31.7	abcdefgh
Coachman		50.0	46.1	85.4	70.8		31.5	abcdefgh
Mo. $0-205$	39.0	52.4	56.5	83.6	69.2	60.1	32.8	abcdefghi
CI 8072					69.2		31.7	abcdefghi
Burnett	34.8	50.2	54.4	87.8	69.1	59.3	32.7	abcdefghi
CI 8174					68.7		31.2	abcdefghi
CI 8172					68.3		29.5	abcdefghi
Holden			56.7	92.0	67.8		30.0	abcdefghij
Tyler			46.1	87.2	67.5		30.4	abcdefghij
Stormont					67.1		29.1	bcdefghij
Tippecanoe			49.6	80.2	67.0		31.5	bcdefghij
Lodi		38.3	56.7	81.9	67.0		29.2	bcdefghij
Santee			45.3	85.7	66.4		32.1	cdefghij
Portal					66.2		31.7	cdefghij
Peterson 100				79.4	64.8		32.2	defghijk
CI 8273					63.6		30.8	efghijk
Clintland 64			46.4	90.8	62.7		32.2	efghijk
Dodge	44.1	53.4	48.6	95.5	62.5	60.8	32.4	efghijk
Portage	50.9	53.1	52.5	74.4	62.4	58.7	29.7	efghijk
Clintford			42.3	92.8	61.8		33.0	fghijk
Garland	37.3	45.1	47.8	101.3	60.1	58.3	31.7	ghijk
Minhafer	53.9	50.2	47.0	90.0	59.9	60.2	30.6	ghijk
Garry	45.1	38.0	58.8	87.0	58.7	57.5	27.2	hijk
Ortley	48.4	51.2	61.1	73.3	56.2	58.0	31.6	ijk
Harmon					54.9		28.5	jk
Rodney	38.9	44.7	55.0	71.2	51.8	52.3	27.0	k

Mean yield 66.7

TABLE 13. STANDARD VARIETY SPRING WHEAT AND DURUM TRIALS, CENTRAL SUBSTATION, HIGHMORE, 1962-1966

Variety		Average	Yields	s, bush	els per	acre	1966	
	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	Statistical Significance
CI 13949				41.6	17.6		54.0	а
Fortuna					17.6		52.5	a
Thatcher	27.0	12.6	22.9	26.0	17.3	21.2	51.0	ab
Manitou				40.1	16.9		50.0	abc
Rushmore	30.9	14.7	25.3	33.2	16.9	24.2	52.0	abc
Pembina	39.6	15.0	23.4	35.1	16.9	26.0	50.0	abc
Chris		19.2	28.1	35.1	16.2		53.0	abc
CI 13773				41.4	16.0		57.5	abcd
Crim	33.8	14.2	24.0	33.7	15.9	24.3	52.0	abcd
Lakota	47.1	21.3	29.6	46.1	15.9	32.0	55.5	abcd
Leeds					15.8		59.5	abcd
Wells	52.4	22.8	27.5	38.4	15.3	31.3	56.0	bcd
CI 13826					15.3		51.5	bcd
CI 13947				37.7	15.2		52.0	bcd
Justin	37.4	13.4	23.8	37.1	15.0	25.3	52.0	cd
Selkirk	37.6	11.5	26.4	34.0	14.8	24.9	46.5	cd
Sheridan		16.7	26.3	44.3	13.9		53.0	d
Stewart 63				35.3	13.8		56.0	d
			Mea	an yiel	.d 15.9			

TABLE 14. STANDARD VARIETY BARLEY TRIALS, CENTRAL SUBSTATION, HIGHMORE, 1962-1966

Variety	F	Average	Yields,	bushel	s per a	acre	1966	
	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	Statistical Significance
Primus					36.2		43.7	a
Liberty	54.0	37.5	32.9	81.9	35.5	48.4	42.0	ab
Spartan	43.8	33.9	30.5	59.7	31.7	39.9	46.0	abc
Plains	50.8	32.4	29.3	65.7	31.1	41.9	43.7	bc
Conquest					29.9		40.0	cd
Galt					28.1		36.2	cde
Larker	52.7	43.1	39.1	84.4	26.8	49.2	41.0	cdef
Betzes	43.0	37.4	35.6	87.0	25.8	45.8	38.7	def
CI 13110					24.3		41.0	def
CI 11864					22.8		37.0	efg
Trophy	61.3	45.1	38.6	76.6	21.8	48.7	39.2	fg
Dickson				90.4	21.7		41.1	fg
Traill	69.4	41.3	41.5	87.7	21.4	52.3	39.5	fg
CI 11863					18.1		38.5	g
			Mea	n yield	26.8			

TABLE 15. STANDARD VARIETY OAT TRIALS, CENTRAL SUBSTATION, HIGHMORE, 1962-1966

Variety		Average	Yields	, bushel	ls per a		1966	
	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	Statistical Significance
Jaycee					52.7		32.2	a
Santee			51.0	66.3	51.9		33.0	ab
Andrew	84.2	48.9	51.8	89.0	51.0	65.0	34.0	abc
CI 8174					49.8		35.5	abcd
Burnett	98.8	50.4	52.6	85.6	48.8	67.2	33.5	abcde
Mo. 0-205	88.7	51.1	60.3	97.2	47.5	69.0	32.0	abcdef
Clintford			40.8	70.4	47.0		37.0	abcdef
Brave			60.8	98.7	46.4		32.0	abcdef
Holden			47.7	106.1	45.9		32.7	bcdef
Orbit					45.8		27.5	bcdef
Wyndmere					44.4		32.0	cdefg
Minhafer	112.7	39.2	47.4	75.5	44.3	63.8	34.0	cdefg
Dupree	87.6	49.5	58.8	87.2	44.2	65.5	32.0	cdefg
Portal					44.1		33.0	cdefg
Clintland 6	54		45.1	74.0	43.7		33.7	defg
Peterson 10	00			72.2	43.2		32.5	defgh
Garland	110.4	38.4	45.4	108.6	43.0	69.2	33.2	defgh
Tyler			49.0	83.1	42.2		32.5	efghi
CI 8072					41.0		32.0	fghij
Tippecanoe			44.7	68.0	40.2		35.0	fghij
CI 8 273					38.1		34.0	ghijk
CI 8178				85.8	37.2		33.5	ghijk
Dawn					37.1		33.2	ghijk
Coachman		41.4	50.3	80.1	36.9		34.5	ghijk
Dodge	96.2	41.9	41.0	93.5	35.5	6L.6	34.7	hijkl
Portage		41.9	53.9	90.7	34.1		30.0	ijkln
CI 8172					33.1		31.5	jkln
Stormont					32.2		30.3	klr
Lodi		39.2	59.5	92.2	30.8		26.7	kln
Ortley	106.9	38.5	50.4	76.6	30.7	60.6	32.0	kln
Harmon					28.1		29.7	ln
Garry	86.0	35.6	61.4	103.3	26.7	62.6	30.5	ī
Rodney	91.2	36.2	59.5	75.8	22.0	56.9	29.7	

Mean yield 40.6

TABLE 16. STANDARD VARIETY SPRING WHEAT AND DURUM TRIALS, NORTHCENTRAL SUBSTATION, EUREKA, 1962-1966

Variety		Average	Yields	. busho	els per	acre	1966	
	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	Statistical Significance
CI 13773				37.0	18.2		58.5	a
Rushmore	24.5	16.4	32.4	27.6	18.0	23.8	56.0	ab
CI 13949				40.0	18.0		55.0	ab
CI 13826					17.7		53.0	abc
Fortuna					17.3		57.0	abcd
Thatcher	25.7	15.7	32.5	21.7	17.1	22.5	54.0	abcd
Manitou				32.7	17.0		53.0	abcd
CI 13947				35.7	16.9		51.5	abcd
Crim	23.4	12.3	39.7	30.4	16.7	24.5	55.0	abcd
Pembina	30.9	16.6	33.6	31.2	16.2	25.7	52.0	bcde
Leeds					16.1		60.0	bcde
Stewart 63				34.1	15.5		60.0	cde
Sheridan		17.9	45.4	31.6	15.4		56.0	cde
Justin	24.3	14.7	35.8	24.3	14.6	22.7	56.0	cde
Wells	27.2	17.4	48.6	35.8	14.3	28.7	55.0	cde
Chris		17.8	42.6	31.6	14.1		55.0	de
Lakota	30.6	15.6	50.1	37.0	14.0	29.5	55.0	de
Selkirk	29.0	13.8	31.0	27.9	12.4	22.8	49.0	е
			Mea	n yield	16.1			

TABLE 17. STANDARD VARIETY BARLEY TRIALS, NORTHCENTRAL SUBSTATION, EUREKA, 1962-1966

Variety		Average	Yields	s, bushe	ls per	acre	1966	
	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	Statistical Significance
Spartan	37.8	43.7	52.3	58.7	29.0	44.3	45.5	a
Larker Primus	57.9	51.6	71.5	78.0	27.8 27.0	57.4	45.5 44.0	ab ab
Plains Liberty	37.1 46.5	40.4 52.1	56.5 57.7	71.9 83.6	24.8 24.1	46.1 52.8	44.0 44.5	abc abcd
Conquest Galt	2000	3201			24.0 22.2	0200	42.5 40.0	abcd bcde
Betzes CI 13110	34.5	45.0	49.9	60.4	21.4 19.5	42.2	41.0 41.0	bcde cdef
Traill CI 11863 CI 11864	33.4	43.8	65.6	73.3	18.1 18.0 17.3	46.8	40.0 41.5 39.0	cdef cdef def
Trophy Dickson	33.3	40.9	55.5	76.5 72.1	15.2 14.0	44.3	38.0 40.0	ef f
			Меа	an yield	21.6			

TABLE 18. STANDARD VARIETY OAT TRIALS, NORTHCENTRAL SUBSTATION, EUREKA, 1962-1966

Variety	1	Average	Yields	, bushe.	ls per a	acre	1966	
·	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	Statistical Significance
Santee			79.6	98.2	25.4		33.0	a
Brave			99.9	108.1	25.2		32.0	ab
Wyndmere					25.1		31.0	abc
Clintford			85.9	102.1	24.5		37.0	abcd
Minhafer	72.9	46.5	98.1	101.3	24.2	68.6	33.5	abcde
Tyler			90.7	99.8	22.4		32.5	abcdef
CI 8273					22.3		33.0	abcdef
Burnett	56.6	53.6	109.2	112.1	21.2	70.5	34.0	abcdef
CI 8174					20.2		35.0	abcdefg
Dupree	47.4	35.4	92.7	112.8	19.5	61.6	32.0	abcdefgh
Tippecanoe			97.9	98.8	19.2		34.0	abcdefgh
Peterson 100				98.1	19.1		32.0	abcdefgh
Mo. 0-205	58.5	30.8	105.6	106.7	19.1	64.1	32.0	abcdefgh
Holden			91.7	108.0	18.4		34.5	bcdefghi
Garland	60.6	51.6	82.5	116.4	18.1	65.8	34.0	cdefghi
Andrew	57.0	47.8	89.8	106.8	18.0	63.9	33.0	defghi
CI 8072					17.5		33.0	defghi
CI 8172					17.5		30.0	defghi
Clintland 64			91.9	103.3	17.4		32.5	defghi
Coachman		53.0	95.9	102.7	17.0		33.5	efghij
Dodge	50.6	47.7	84.4	99.5	16.1	59.7	33.0	fghij
Garry	54.2	25.7	102.3	105.7	15.8	60.7	30.5	fghij
Jaycee					15.7		32.0	fghij
Rodney	54.7	34.1	112.9	96.3	15.5	62.7	33.0	fghij
Portage		44.9	102.4	100.7	15.4		30.5	fghij
Portal					15.1		33.0	fghij
CI 8178				111.9	13.1		31.0	ghij
Orbit					12.5		26.5	ghijk
Lodi		29.7	114.4	102.7	12.1		28.0	hijk
Stormont					12.1		30.5	hijk
Dawn		15.5			10.5		31.0	ijk
Ortley Harmon	76.2	42.7	120.8	97.5	9.2	69.3	29.0	jk
					4.3		28.0	k

TABLE 19. STANDARD VARIETY SPRING WHEAT AND DURUM TRIALS, WALL, 1963-1966

Variety	Averag	ge Yields	s, bushe	ls per	acre	1966
	1963*	1964*	1965	1966	1963–66	Test Wt. lb/bu
Chris	17.2	27.3	25.1	24.7	23.6	58.5
Wells				24.1		61.5
Manitou			23.1	23.8		58.0
Fortuna				22.9		60.0
Lakota				22.7		60.0
CI 13949			26.0	22.7		58.0
Sheridan	13.5	25.9	28.9	22.6	22.7	60.5
Crim	13.6	23.1	17.1	22.2	19.0	59.0
Stewart 63				22.1		60.5
Thatcher	15.5	23.0	7.1	21.7	16.8	58.0
Rushmore	18.6	27.9	15.7	21.6	21.0	58.5
Pembina	14.8	22.4	20.0	21.6	19.7	57.0
Justin	14.8	28.1	13.2	21.5	19.4	57.5
CI 13826				21.5		57.5
CI 13947			26.1	21.4		58.0
Leeds				21.3		61.5
CI 13773			21.0	21.0		61.0
Selkirk	15.4	24.0	15.6	20.8	19.0	56.0
		Me	an yield	22.2		

N.S.

TABLE 20. STANDARD VARIETY BARLEY TRIALS, WALL, 1963-1965

Variety	Average	Yields,	bushel	s per acre 1963–65	1966* Test Wt.
	1900	1904.	1900	1903-03	bu/ac
Betzes	31.3	27.1	32.7	30.3	47.5
Conquest Dickson			56.5		45.5 47.5
Larker Liberty	22.1 20.9	33.4 13.5	53.9 53.4	36.5 29.3	47.5 47.5
Plains	11.6	31.0	38.2	26.9	47.0
Spartan Traill	24.0 25.8	22.9 22.4	35.0 51.9	27.3 33.4	48.0 47.5
Trophy CI 11863	21.0	19.5	50.6	30.4	46.0 47.0
CI 11864					47.5
Primus CI 13110					47.5 46.5
Galt					44.0

Trial located on hard-pan area of field not evident at time of seeding. 1966 trial resulted in poor or uneven stands and yield data not reliable.

^{*}Data for 1963 and 1964 from Cottonwood

TABLE 21. STANDARD VARIETY OAT TRIALS, WALL, SOUTH DAKOTA, 1963-1966

Variety	Ave	erage Yi	elds, bu	ushels p	er acre	1966	
	1963*	1964*	1965	1966	1963–66	Test Wt. 1b/bu	Statistical Significance
Jaycee				44.1		36.7	a
Burnett	33.3	38.4	67.1	44.0	45.7	35.0	ab
Brave		43.0	70.8	44.0		33.7	ab
Ortley	30.4	32.1	64.4	43.4	42.6	33.7	abc
Portage	32.0	33.6	77.7	43.1	37.3	34.5	abcd
Stormont				43.0		34.2	abcde
Tyler		46.9	76.6	42.8		32.5	abcde
Rodney			48.4	41.1		34.5	abcdef
Dawn				40.9		34.5	abcdef
Wyndmere				40.6		33.5	abcdefg
CI 8174				40.5		36.0	abcdefg
Santee		38.6	75.2	40.1		34.0	abcdefgh
Clintland 64		29.8	75.9	39.9		33.7	abcdefghi
Clintford		40.1	78.9	38.8		37.5	abcdefghij
Peterson 100			71.6	38.4		32.5	abcdefghij
CI 8178			63.8	38.0		35.5	abcdefghij
Holden		36.4	77.7	37.8		35.7	abcdefghij
Garland	31.8	42.0	75.6	37.3	46.6	35.0	abcdefghij
Mo. $0-205$	29.4	38.1	83.6	37.0	47.0	34.2	abcdefghij
Tippecanoe		39.2	65.0	35.2		34.2	bcdefghijk
Lodi			80.7	35.1		32.2	bcdefghijk
CI 8072				34.1		34.0	cdefghijk
Minhafer	28.5	34.5	54.4	33.6	37.8	33.2	defghijk
Dupree	37.6	38.5	72.4	33.5	45.5	32.5	defghijk
Portal				33.2		33.5	defghijk
Coachman	32.5	34.2	59.5	33.0	39.8	34.7	efghijk
CI 8172				31.5		32.2	fghijk
Orbit				31.2		30.7	fghijk
Andrew	29.2	41.0	57.2	30.3	39.4	31.0	ghijk
Dodge	29.0	36.1	69.6	29.6	41.2	34.0	hijk
CI 8273				29.4		32.2	ijk
Garry			67.2	28.2		32.5	jk
Harmon				25.8		33.7	k
		Me	an yield	36.9			

^{*1963} and 1964 data from Cottonwood

TABLE 22. STANDARD VARIETY SPRING WHEAT AND DURUM TRIAL, BISON, 1966

This trial damaged by hail storm on June 24. Data are matter of record

Variety	1966 Test Wt. 1b/bu	1966 Yield B/A	
Thatcher	56.0	14.2	
Rushmore	56.0	11.7	
Selkirk	51.0	12.0	
Pembina	52.0	9.7	
Wells	60.0	19.2	
Lakota	59.0	17.9	
Justin	54.0	12.8	
Crim	57.0	13.8	
Sheridan	57.0	12.1	
CI 13826	54.0	10.6	
Chris	57.0	15.0	
Stewart 63	60.5	16.5	
CI 13773	57.5	15.7	
Manitou	56.0	14.9	
CI 13947	55.0	12.5	
CI 13949	56.0	12.6	
Fortuna	58.0	16.7	
Leeds	62.0	18.2	

TABLE 23. STANDARD VARIETY OAT TRIAL, BISON, 1966

This trial damaged by hailstorm on June 24.

Variety	1966 Test Wt. 1b/bu	1966 Yield B/A	Statistical Significance
CI 8172	33.0	30.7	a
Brave	31.0	30.7	а
Garry	31.0	30.7	а
Orbit	30.0	29.8	ab
Lodi	31.5	28.5	abc
Ortley	32.0	28.0	abc
CI 8072	32.0	26.9	abcd
Wyndmere	31.0	26.9	abcde
Minhafer	30.0	26.7	abcde
Harmon	31.0	25.4	abcdef
Santee	30.0	25.3	abcdef
Portage	31.0	25.0	abcdef
CI 8178	33.0	24.9	abcdef
Peterson 100	30.0	24.6	abcdef
Coachman	33.5	24.2	abcdef
Mo. 0-205	33.0	24.1	abcdef
Holden	31.5	24.0	abcdef
Stormont	27.5	23.7	abcdefg
Dupree	31.0	23.6	abcdefg
CI 8174	31.0	23.1	bcdefg
Garland	31.0	22.1	bcdefgh
Andrew	30.5	21.8	cdefgh
Burnett	33.0	21.4	cdefgh
Dawn	31.5	20.6	cdefgh
Portal	33.0	19.0	defgh
Jaycee	30.0	18.3	efgh
Rodney	32.0	17.9	fghi
Clintford	32.0	17.7	fghi
Clintland 64	30.0	17.5	fghi
Dodge	29.0	17.5	fghi
Tyler	30.0	15.2	ghi
CI 8273	27.0	14.0	hi
Tippecanoe	29.0	9.2	i

TABLE 24. STANDARD VARIETY WINTER WHEAT TRIALS, CENTRAL SUBSTATION, HIGHMORE, 1961-1966

Variety	1961	1963	$196\overline{4}$	oushels 1965	1966	1961-66	/ 1966 Test Wt.	Statistical
							lb/bu	Significance
Shoshoni			22.4	14.4	34.7		60.0	а
CI 13884					31.7		60.0	ab
Gage			27.4	29.2	31.3		58.5	abc
Nebred	12.2	28.9	22.2	15.7	30.9	22.0	60.5	abc
Scout			27.1	35.4	30.7		58.0	abc
Lancer	7.6	30.5	21.7	39.7	29.7	25.8	58.0	abcd
Winalta			18.3	25.7	28.9		59.5	abcd
Warrior	10.2	34.8	21.3	13.4	28.2	21.6	59.5	abcde
Omaha	6.9	36.0	24.3	24.2	27.3	23.7	60.0	bcde
CI 13864					26.1		57.5	bcde
Winalta Sel.					26.0		60.0	bcde
Hume	8.0	31.7	16.0	33.9	25.5	23.0	57.5	bcde
Minter	22.2	23.5	15.3	22.8	25.0	21.8	55.0	bcde
Bison	2.9	30.8	21.8	21.6	23.2	20.1	59.0	cde
CI 13682					22.4		58.5	de
Ottawa	8.5	40.5	25.6	17.8	20.4	22.6	59.5	е

 $\frac{1}{2}$ / 5-year averages; no data available for 1962.

TABLE 25. STANDARD VARIETY RYE TRIALS, CENTRAL SUBSTATION, HIGHMORE, 1962-1966

Variety	A	verage Y	ields,	bushels	per ac	re	1966	
	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	Statistical Significance
Von Lochow				61.0	34.8		53.0	a
Caribou	17.6	32.1	44.3	47.2	23.9	33.0	52.0	b
Elk	15.8	28.2	43.6	51.8	21.8	32.2	50.5	b
Antelope	29.5	30.4	42.6	42.8	20.6	33.2	52.5	b
Pierre	22.3	21.5	44.9	41.0	12.8	28.5	52.0	С

TABLE 26. STANDARD VARIETY WINTER WHEAT TRIALS, SOUTHEAST RESEARCH FARM, BERESFORD, 1962-1966

Variety	Avera	ge Yield	s, bush	els per	acre	1966	
	1962	1963	1964	1966	1962-66*	Test Wt. lb/bu	Statistical Significance
Scout			40.7	48.8		59.0	а
Warrior	5.2	7.2	36.3	48.3	24.2	59.5	a
Lancer	5.8	18.3	37.1	46.1	26.8	60.5	ab
CI 13884		2000		45.6	2000	61.5	ab
Omaha	6.2	10.5	35.0	44.5	24.1	61.0	ab
Nebred	2.9	9.3	30.7	44.4	21.8	60.0	ab
Ottawa	6.0	13.0	33.5	42.8	23.8	58.0	ab
Gage			39.2	42.6		59.0	abc
Winalta			35.6	42.1		59.5	abc
Winalta Sel.				41.7		60.5	abc
Shoshoni			37.8	40.8		59.5	abc
Bison	4.7	4.6	30.4	39.4	19.8	59.0	abc
Hume	10.5	17.9	34.0	39.1	25.4	58.0	abc
CI 13864				36.1		58.5	bc
CI 13862				36.1		58.5	bc
Minter	8.9	16.8	34.6	29.5	22.5	56.0	С

*1965 trial lost to winter killing

TABLE 27. STANDARD VARIETY RYE TRIALS, SOUTHEAST RESEARCH FARM, BERESFORD, 1962-1966

Variety		verage Y					1966	
	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	
Von Lochow				21.1	73.8		55.6	
Elk	10.8	4.6	36.5	17.5	65.6	27.0	54.7	
Caribou	15.1	27.8	39.8	49.4	59.1	38.2	55.2	
Antelope	20.9	27.0	37.8	49.6	56.9	38.4	55.5	
Pierre	13.7	24.6	33.7	53.6	54.9	36.1	56.1	

TABLE 28. STANDARD VARIETY FLAX TRIALS, AGRONOMY FARM, BROOKINGS, 1962-1966

Variety	Λ	verage Y	ields, b	oushels	per ac:	re	1966	
·	1962	1963	1964	1965	1966	1962-66	Test Wt. lb/bu	Statistical Significance
Windom	9.1	19.2	15.1	32.1	18.3	18.8	55.5	а
Redwood	5.8	14.9	13.4	30.2	15.6	16.0	54.2	ab
Noralta					15.6		55.5	ab
Caldwell		18.4	7.9	32.3	15.3		53.0	abc
CI 2292				32.1	14.7		55.2	bcd
CI 2290				30.9	13.6		54.2	bcd
Bolley	7.0	17.0	15.2	*	13.6		55.0	bcd
Summit	10.1	18.6	17.0	26.3	13.5	17.1	54.0	bcd
Dillman			11.8	29.6	12.6		54.6	bcd
B-5128	4.6	13.2	15.7	29.4	12.5	15.1	55.0	bcd
Norland	4.0	12.7	12.8	28.4	12.2	14.0	55.7	bcd
Redwood 65					11.9		55.0	cd
			9.6	35.5	11.4		54.0	d

^{*}Seed planted had been improperly labeled

TABLE 29. STANDARD VARIETY FLAX TRIALS, NORTHEAST RESEARCH FARMS, WATERTOWN UNIT, 1961-1966

1961	Average 1963	Yields, 1964	bushels 1965	s per ac 1966	ere 1961–66*	1966 Test Wt. lb/bu	Statistical Significance
21.3 19.2 18.3	16.4 15.8 13.0	24.0 23.3 23.3 20.2	30.4 32.9 33.8 29.5	18.1 17.2 16.8 16.6 16.3	22.3 21.7 20.1	55.0 55.0 56.0 55.3 55.0	a ab ab abc abc abc
13.5 18.5 18.7	11.6 12.6	20.4 18.6 22.1 21.3	26.9 28.2 26.5 30.5 27.0	15.7 15.1 15.0 14.8 13.8 13.8	18.7 18.0	55.0 55.0 55.0 55.0 55.0 55.0	abc bc bcd bcd cd d
	21.3 19.2 18.3 13.5	1961 1963 21.3 16.4 19.2 15.8 18.3 13.0 13.0 13.5 15.5	1961 1963 1964 21.3 16.4 24.0 19.2 15.8 23.3 18.3 13.0 23.3 13.0 20.2 13.5 15.5 20.6 18.5 11.6 20.4 18.7 12.6 18.6 22.1	1961 1963 1964 1965 21.3 16.4 24.0 32.9 19.2 15.8 23.3 33.8 18.3 13.0 23.3 29.5 13.0 20.2 30.8 13.5 15.5 20.6 \(\frac{26.9}{4} \) 18.5 11.6 20.4 28.2 18.7 12.6 18.6 26.5 22.1 30.5	1961 1963 1964 1965 1966 21.3 16.4 24.0 32.9 17.2 16.8 19.2 15.8 23.3 33.8 16.6 18.3 13.0 23.3 29.5 16.3 13.0 20.2 30.8 15.7 13.5 15.5 20.6	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1961 1963 1964 1965 1966 1961-66* Test Wt. lb/bu 30.4 18.1 55.0 21.3 16.4 24.0 32.9 17.2 22.3 55.0 16.8 56.0 19.2 15.8 23.3 33.8 16.6 21.7 55.3 18.3 13.0 23.3 29.5 16.3 20.1 55.0 13.0 20.2 30.8 15.7 56.0 13.5 15.5 20.6

^{*1962} lost to excessive lodging /Seed planted had been improperly labeled.

TABLE 30. WINTER GRAIN DRILL STRIP VARIETY TRIALS, SOUTH CENTRAL RESEARCH FARM, PRESHO, 1962-1966*

Variety				oushels			1966	D	** * 1 .
	1962	1963	1964	1965	1966	1962–66 ⁷	Test Wt. lb/bu	Date of Heading	Height, inches
Winter Wheat							<u> </u>	June	Inches
Northern:									
Winalta		38.5	36.5	19.3	33.2		58.6	21	35
Minter	1.8	22.8	32.8	26.1	31.3	23.0	56.3	20	36
Central:									
Lancer	20.9	35.4	35.8	30.7	42.2	33.0	59.4	17	33
Scout			41.2	23.2	38.8		58.4	13	32
Omaha	6.6	35.0	34.0	20.3	38.4	26.9	59.3	13	31
Warrior	4.0	36.4	43.6	10.5	36.5	26.2	56.8	19	32
CI 13862					34.9		57.1	21	34
CI 13883					34.7		57.8	21	35
Shoshoni			38.4	14.2	34.6		57.8	17	34
Hume	13.6	25.0	28.4	31.6	34.4	26.6	57.4	14	33
Ottawa	18.0	39.2	39.3	12.8	34.3	28.7	58.9	14	33
Nebred	1.4	28.4	33.6	10.6	34.2	21.6	59.3	15	30
Gage			38.9	25.9	33.8		58.0	15	32
Southern:									
Rodco	21.2	28.2	34.1	11.5	37.2	26.4	57.4	17	34
Bison	4.9	21.4	35.4	7.7	35.0	20.9	57.3	18	33
Winter Barley	,								
Kearney	30.0	18.8	35.1	\neq	48.9	33.2	46.0		
Chase	28.6	16.6	36.9	#	47.4	32.4	44.4		
Dicktoo	31.7	16.9	34.5	<i>‡</i> <i>‡</i> <i>‡</i>	46.1	32.3	45.6		
Mo. Bl222		18.2	31.7	#	42.5		47.1		
Mo. B969	39.8	13.8	36.8	#	41.1	32.9	43.8		
Rye									
Von Locho	W			67.4	41.0		53.6	4	38
Elk		23.0	31.8	61.8	36.4	51.0	53.0	5	44
Antelope		19.7	31.8	49.1	29.6	43.4	53.5	5/31	41
Caribou		19.7	26.3	47.4	30.1	41.2	52.8	1	41
Pierre		14.3	23.0	46.3	23.3	35.6	54.0	5/31	42

^{*}Data furnished by H. A. Geise, Supt. Harvested area, 3 replications, 6 x 150 feet. /Winter barley and rye only 4 year averages. /1965 crop lost to severe winter kill, 1959 and 1961 also lost to winter kill.

TABLE 31. SPRING SMALL GRAIN VARIETY TRIALS AT THE SOUTH CENTRAL RESEARCH FARM, PRESHO, 1964-66*

	0ats				Barl	Ley			Spring	Wheat		
Variety	Test Wt.	1966	1964-66	Variety	Test Wt.	1966	1964-66	Variety	Test Wt.	1966	1964-6	5
	<u>lb/bu</u>	Yield	, B/A		lb/bu	Yield,	B/A		lb/bu	Yield	, <u>B/A</u>	_
Wyndmere	34.2	40.9		0tis	47.3	43.7	47.6	CI 13773	58.3	16.7		
Brave	31.8	40.9		Trophy	41.3	32.5	41.6	Crim	54.9	14.9	15.1	
Burnett	36.6	40.4	59.8	Traill	47.8	32.4	41.7	SD 62-6	53.9	14.9		
Orbit	32.2	40.0		Dickson	45.8	32.4		BH 632	54.6	14.8		
Jaycee	32.0	39.8		Primus	49.0	28.9		Sheridan	56.6	14.6		
Tyler	32.2	38.7		Liberty	45.7	28.8	42.7	Thatcher	53.6	14.5		
Dupree	32.3	37.3	57.1	Larker	46.0	24.9	39.8	Rushmore	55.1	14.3	11.9	
Coachman	35.3	36.8						BH 631	54.6	14.2		
Dawn	32.3	36.2			Avera	ge 31.9		Lee	55.6	13.6	8.9	
Andrew	35.1	35.9	54.9		nverag	50 01.7		Manitou	53.9	13.4		
Neal	34.5	35.7	50.1					Chris	55.9	12.6	16.7	
Garland	35.0	35.6	53.9					Fortuna	55.6	12.5		
Santee	33.7	34.5	44.3					Pembina	52.3	11.1	12.5	
Minhafer	34.6	34.3	44.4					Selkirk	50.6	10.9	14.3	124
Clintford	37.1	31.5			Durum	Whoat		Justin	53.3	10.8	12.5	1
Tippecanoe	33.5	30.7	51.0	Variety	Test Wt.	1966	1964-66					-
Lodi	30.8	28.7		variety	lb/bu	Yield,			A	- 10 6		
Garry	31.5	27.8	52.2	_	<u>10/0u</u>	rieiu	D/A			e 13.6		
Bonkee	33.5	27.6		Wells	59.6	24.3	21.6		LSD .0	5 1.8		
Dodge	32.3	25.4	48.6	Lakota	58.5	22.8	21.0					
Clintland 64	36.3	24.3	37.9	Leeds	61.5	19.3						
Rodned	31.0	19.3		Stewart 63	58.7	16.6						

Average 33.7 LSD-.05 6.6

Average 20.7 LSD-.05 3.3

Data for this table furnished by H. A. Geise. These data are included as a service to producers and are not part of the variety testing program.

^{*}Harvested area was 4 x 4l feet. All yield reported are the average of three replications.

TABLE 32. CHARACTERISTICS OF WHEAT VARIETIES TESTED OR BEING GROWN IN SOUTH DAKOTA

								Dis	ease	Reaction		nter H	ardin	ess
Variety	Parentage	Released	Maturity	Straw Strength	Plant Height	Milling & Baking Qualities	Yielding Ability			m Wheat t Streak Mosaic	SW	N₩	SE	NE
Winter Wheat Bison Cheyenne Gage Hume Lancer Minter Nebred Omaha Ottawa Pawnee Scout Shoshoni Warrior Winalta	Chiefkan x Oro-Tenmarq Selected from Crimean, an introduction Ponca x Mediterranean-Hope-Pawnee Parents were Kharkof, Minter, Nebred, etc. Turkey-Cheyenne x Hope-Cheyenne ₂ Minturki ₂ x Hope Selected from Turkey Pawnee x Nebred (MedHope x Pawnee) x (Oro-W38) Kawvale x Tenmarq (Nebred-Hope-Turkey) x(Cheyenne-Ponca) Selected form Cheyenne Pawnee x Cheyenne Minter x Wichita	Kan. '56 Nebr. '33 Nebr. '65 Nebr. '63 M.&S.D'48 Nebr. '38 Nebr. '60 Kan. '60 Kan. '42 Nebr. '63 Wyo. '61 Nebr. '60 Can. '61	M-early M-late Early Medium M-early Late Medium Early Early Early Early M-late M-early Medium	Strong Strong Strong Strong Strong Poor Medium Strong Medium Strong Strong Poor	S-MT S-MT Short Short M-tall S-MT Short Short Short Short Short Short M-tall	Excel. Excel. Good Excel. Excel. Excel. Good Good Excel. Excel. Excel. Excel.	High High High High Good Good High High Good High Good High Good High Good	30 R 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	S S R R R S S S S R S S Mix	Tol. S R S S S S S S S S S S S S S S S S S	G G G G G G G G G G	P F F F P P P F F F F F F F F F F F F F	FGGGGGGFFFGG	P P P P P P P P P
Spring Wheat Chris Crim Fortuna Justin Manitou Pembina Rushmore Selkirk Sheridan Spinkcota Lee	Ftn-Thatcher ³ x (K58 x Nth) x Thatcher ² Klein Titan-Thatcher ³ x II-44-29-Tc ² Rescue-Chinook x (Frontana x Kenya 58-Newthatch) [(That. x K. Farmer) x (Lee x Mida)] x Conley (Tc' -Ftn x Canthatch) x (Tc ⁶ x PI 170925) Thatcher x (McMurachy-Exchange x Redman ³) Rival x Thatcher (McMurachy-Exchange) x Redman (Frontana x II-44-29) x Pilot (Private breeder) Pres. Sel ² x Red durum Hope x Bobin ² -Gaza	Minn. '65 Minn. '63 N.D. '66 N.D. '63 Can. '65 Can. '59 S.D. '49 Can. '55 Mont-SD'66 S.D. '44 Minn. '51	Medium Early Early Medium M-early Early M-early M-early M-late Early Early	Medium Fair Good Good Fair Good Good Fair Good Fair Good Fair	M-tall M-tall M-tall M-tall M-tall M-tall M-tall M-tall Tall Tall M-tall	Excel. Good Good Excel. Good Excel. Good Fair Fair Poor Good	High High Medium Good High High Good High Good High High	R S R S MR S S S R S S	R R R R R MR R S S					-29-
Durum Lakota Leeds Stewart 63 Wells	Sentry x (Ld 379-Ld 357) (Ld 357 ⁴ x St. 464 - Ld 357) x Wells Stewart ⁸ x St. 464 Sentry x (Ld 379-Ld 357)	N.D. '60 N.D. '66 Can. '63 N.D. '60	Early Early Lake Early	Good Good Fair Good	Short Short Tall Short	Excel. Good Excel. Good	High High High High	R R R	MR R R MR					

Data furnished by D. G. Wells Abbreviations Used: M-early, Medium eally M-late, Medium late M-tall, mid-tall G, good F, resistant S, susceptible P, poor Mix, react both ways

TABLE 33. CHARACTERISTICS OF OAT VARIETIES RECOMMENDED FOR SOUTH DAKOTA, 1967

					Agronom	ic Characte	ristics		D	isease	Reaction	11/4	
/ariety	Parentage	Relea	sed	Yielding Ability	Plant Height	Maturity	Lodging Resistance	Bushel Weight	Stem Rust	Leaf Rust	Smut	Red Leaf	
ndrew	Bond x Rainbow	Minn.	1 49	Medium	Medium	Early	Medium	Medium	MS	S	R	S	
Brave	Putnam x LMJHA	I11.	'65	High	Medium	Medium	Medium	Medium	MS	MS	R	MS	
Burnett	Victoria x Hajira-Banner 2x Colo	Iowa	157	High	M-tall	Medium	Good	High	MR	MS	R	S	
Clintland 64	Cltd ⁵ x LMHJA ³ x Cltd 2x Cltn ⁶ x Grey Alg.	Ind.	164	Medium	Medium	M-early	Good	High	MR	MR	R	S	
Coachman	Marne ² 4x Bvrx Gy 2x Ctn 3x Clintland	Mich.	164	Medium	Medium	Medium	Good	High	MR	MS	MR	MS	
odge	Clintland 2x Garry x Hawkeye-Victoria	Wisc.	'61	Medium	Medium	Medium	Good	High	MR	MR	R	S	
upree	Anthony x Bond 2x Richland x Fulghum	S.D.	154	Medium	Short	Early	Medium	Medium	S	S	R	S	
arland	Clintland 2x Garry x Hawkeye-Victoria	Wisc.	162	Medium	M-short	Medium	Good	lligh	MR	MR	R	S	
Sarry	Victory 2x Victoria x Hajira-Banner	Can.	153	High	Tall	Late	Good	Medium	MR	MS	R	S	
odi	Richland x Bond 3x Garry 2x Hawkeye x Victoria	Wisc.	164	High	Tall	Late	Good	Medium	MR	MR	R	S	
inhafer	Bond-Rainbow x Hajira-Joanette 2x Landhafer	Minn.	157	Medium	Medium	Early	Good	Medium	MS	MS	R	S	
rtley	Garry 2x Santa Fe x R.L. 1942 3x R.L. 2228	S.D.	163	High	Tall	Late	Medium	lligh	MR	MS	MR	S	
ortage	Ajax x Hawkeye-Victoria	Wisc.	160	lligh	Tall	Late	Medium	Medium	MS	MR	R	S	
odney	Vict. x Haj-Ban 2x Vict-Haj. 3x Roxton	Can.	154	High	Tall	Late	Good	High	MR	MS	R	S	
antee	Clinton 4x Victoria 2x Hajira x Banner 3x Victory	Nebr.	165	Medium	Short	M-early	Good	Medium	MS	MS	R	S	
ippecanoe	Clintland 60^2 x Mo. 0-205	Ind.	164	Medium	Short	Early	Excel.	High	MS	MS	R	S	
yler	Clintland 60^2 x Mo. 0-205	Ind.	165	Medium	Short	M-early	Excel.	lligh	MS	MS	MS	S	

^{*}R-resistant, MR-moderately resistant, MS-moderately susceptible, S-susceptible

TABLE 34. CHARACTERISTICS OF FLAX VARIETIES RECOMMENDED FOR SOUTH DAKOTA, 1967

						Agrono	omic Characte	ristic	·s			Disea	se Read	tion*
ariety	Parentage	Releas	sed	Yielding Ability	Plant Height	Maturity	Lodging Resistance		Flower Color	Oil Content	Oil Quality		Wilt	Pasmo
3-51.28	Golden x Rio	N.D.	143	Medium	M-tall	M-late	Good	M-L	Blue	Good	Fair	1	MS	S
Bolley	Birio x C.I. 1134	N.D.	' 47	Medium	Medium	Medium	Good	Med.	Blue	High	High	I	MR	S
edwood	B-5128 x Redson	Minn.	151	Medium	Medium	M-Late	Fair	Med.	Blue	Cood	Med.	I	MR	S
unmit	C.I. 980 x Zenith	S.D.	64	High	Medium	Early	Good	Med.	Blue	Med.	Med.	I	R	MS
indom	Renew x Bison 2x Kota x Redwing 3x Redwood	Minn.	163	High	Medium	Early	Good	M-S	Blue	Med.	High	I	R	S

^{*}R-resistant, MR-moderately resistant, MS-moderately susceptible, S-susceptible

Date furnished by R. S. Albrechtsen

TABLE 35. CHARACTERISTICS OF BARLEY VARIETIES GROWN IN 1966 TRIALS

					Ag	ronomic Char	racterist	ics			Disea	use React	ion
Variety	Parentage	Released	Yielding Ability	Plant Height	Maturity	Lodging Resistance	Vushel Weight			Aluerone Color	Stem Rust	Spot Blotch	Smut
arker "M	Traill x Swan	N.D. '61	High	Medium		Good	Medium	M-L	Good	White	R	MS	S
Trophy "M	Traill x Swan	N.D. '61	High	Medium		Good	Medium			White	R	MS	S
)ickson"	Traill ² x Kindred x C.I. 7117–77	N.D. '65	High	Medium		Good	Medium	Med.	7	White	R	MR	S
Liberty"F	LMC-A x Titan	S.D. '57	lligh	Medium	Medium	Good	Medium	Med.	Poor	White	R	S	S
lains *F	Peatland x Dryland	S.D. '48	High	Short	Early	Medium	High	Med.	Foor	White	R	MS	S
Spartan *F+	Mich. 2-rowed x Black Barbless	Mich. '28	Medium	Medium	Early	Medium	High	Lge.	Poor	White	S	S	S
etzes+	Intro. from Poland	Mont. '57	Medium	Short	Late	Poor	High	l.ge.	Pair	White	S	S.	S
eebar F	Peatland x Vaughm	S.D. '47	Medium	Short	Medium	Good	Low	Lge.	Poor	White	R	MS	S
rimus	Brandon 3902 x Liberty x Swan	S.D. 166	High	Medium	Early	Good	High	Med.	7	White	R	S	S
onquest	Vantage x Jet 2x Vantmore 3x Br. 4635 4x Swan 5x Parkland	Man. '65	Medium	Tall	Medium	Good	Medium	Med.	<i>≠</i>	Blue	R	S	R
alt F	Glacier x ² Newal 2x Husky	Alta. 165	High	M-S	Medium	Good	Medium	M-L	Poor	White	R	S	S

*Recommended for 1967

/Two-row variety

/Malting quality reports to date are favorable, but final acceptance is being delayed until further testing is completed.

M Malting type

F Feed type

Data furnished by P. B. Price

Crop adaptation areas of the state, shown on the map, are based on soil type, elevation, temperature, and rainfall. These factors largely determine the type of agriculture within these areas.

Varieties are recommended on the basis of length of growing season, average rainfall, disease frequency, and farming practices. Often an individual farm, due to its location or the management practiced by the operator, may more closely resemble conditions of an area other than the one in which the farm is located. Recommendations listed here should be considered in the light of this information.

SMALL GRAIN

 wariety
 area of best adaptation

 Winter Wheat
 B4, C2, C3

 Gage
 B4, C2, C3, D4, E

 Hume
 A, B3, B4, C2, C3, D4, E

 Lancer
 A, B3°, B4, C2, C3, D4, E

 Minter
 A, B3, D4, E

 Omaha
 B4, C2, C3

Scout B4, C2, C3

Spring Wheat

3pi ing	Wilcui
Chris!	Statewide
Crim	Statewide
Fortuna	B1
Justin B1, B2	†, C1†, D1, D2, D3
Manitou	Statewide
Pembina B1, E	32, C1, D1, D2, D3
Rushmore A,	B1, B2, B3, B4, C2
Selkirk‡ B1, I	32, C1, D1, D2, D3
Sheridan	A, B1, B2, B3, C1

Durum

Lakota ... B1, B2, C1, C2, D1, D2, D3 Leeds ... B1, B2, C1, C2, D1, D2, D3 Wells ... B1, B2, C1, C2, D1, D2, D3 Stewart 63 ... B1, B2, C1, C2, D1, D2, D3

Oats

Oars		
Andrew‡ State	wide	
Brave State	wide	
Burnett‡ B2, C1, C2, D1, D2	, D3,	
Ε	04, E	
Clintland 64 C2, C3, D2, D3, I	04, E	
Coachman‡ A, B1, B2, B3, C1	, D1,	
\mathbf{D}_{2}	2, D3	
Dodge B2, C1, D1, D2, D3, D	04, E	
Dupree B1, B2, B3, B4, C2		
Garland B2, C1, D1, D2, D3, D)4, E	
Garry	, D3	
Lodi D1, D2,	D3†	
Minhafer State	wide	
Ortley		
Portage	2, D3	

Rodney	C1†, D1, D2, D3
	B4, C2, C3, D4, E
TippecanoeC.	1°, C2, C3, D3, D4, E
TylerCl	°, C2, C3, D3, D4, E

Barley Dickson A, B2, C1, D1, D2, D3

DICKSOII	A, D2, C1, D1, D2, D0
Larker	A, B2, C1, D1, D2, D3
Liberty!	Statewide
Plains	A, B1, B2, B3, B4, C2, C3,
	D4, E

Primus ______ Statewide Spartan _ A, B1, B2°, B3, B4, C2, C3 Trophy __ A, B2†, C1†, D1, D2, D3

Larker and Trophy approved for malting; Dickson and Primus not yet approved.

Flax

B-5128	Ct, D1, D2, D3
Bolley	All flax areas
Redwood	C†, D1, D2, D3
	All flax areas
Windom	All flax areas

Rye	
	_
Antelope	Statewide
Caribou	Statewide
Pierre	Statewide

Varieties Recommended in South Dakota for 1967

°Southern counties of this area. †Northern counties of this area. ‡For both irrigation and dryland.

CROP ADAPTATION AREAS

