

UNIFORM REGIONAL NURSERY, 1961

The thirtieth Uniform Regional Nursery was seeded in 1961 at 23 stations in 9 states - Wisconsin, Minnesota, North Dakota, South Dakota, Nebraska, Colorado, Montana, Wyoming, and Idaho, and at Winnipeg, Manitoba and Saskatoon, Saskatchewan. One new station was added this year, Williston, North Dakota.

The list of the spring wheat included in the Uniform Regional Nursery in 1961 is as follows:

Variety or Cross	New or Old	Included by	Station developing	State or Sel. No.	C.I.No.
Marquis	Old				3641
Thatcher	"				10003
Selkirk	"				13100
Lee	"				12488
Conley	"				13157
Pembina	"	Canada	Winnipeg	CT 229	13332
Lathrop	"	Wis.	Madison	Wis. 253	13457
Lee ² x Kenya Farmer	"	Canada	Winnipeg	RL 2938	13463
To ⁶ -KF x To ⁷ -Ftn	New	"	"	RL 4125	13625
Cly x ND 40-2	Old	N. Dak.	Fargo	ND 102	13462
ND 81 x Lee	"	"	"	ND 137	13349
(Lee x ND 81 sib) x Lee	"	"	"	ND 162	13453
ND 81 sib x ND 1	"	"	"	ND 208	13603
ND 81 sib x Cly	"	"	"	ND 256	13608
CT 231 x Cly, 55.302 A-4-5-3-2-1-1	New	"	"	ND 202-2	13565
CT 231 x Cly, 55.302 A-9-6-5-1-7	"	"	"	ND 207-3	13566
Cly x ND 81, 56.51 A-1-2-10-5	"	"	"	ND 215 sib	13567
ND 140 x ND 138, 57.79 A-2-28-4	"	"	"	ND 247	13568
ND 138 x (Lee x FPI 186035), 57.434 A-1-1-1-3	"	"	"	ND 264	13569
ND 138 x (Lee x FPI 186035), 57.434 A-2-3-1-3	"	"	"	ND 265	13570
Cly x ND 142, 58.82 A-1-1-4	"	"	"	ND 271	13571
Ftn x To ⁴	"	Minn.	St. Paul	II-52-238	13572
Ftn x To ² x II-44-29 x To ²	"	"	"	II-53-661	13573
Lee x No. 58	"	"	"	II-53-737	13574
"	"	"	"	II-53-738	13575
"	"	"	"	II-53-749	13576
Rival x II-50-17	"	"	"	"	13577
Rmr x Sps PW 36 x To-Tmp 630	"	S. Dak.	Brookings	SD 1336	13584
Sk x W250	"	"	"	"	13584
KT-To ³ x II-44-29-To ²	Old	Minn	St. Paul	II-53-404	13465

Yields, Bushel Weights, and Disease Resistance

Data on 1961 yields at each of the stations are given in table 5. Average yields and ranks for the states are given in table 6. The average yields and ranks for the groups or areas of tests, Eastern - Western (irrigated and dryland) and at all stations are given in table 7. In table 8, bushel weights are given for the individual stations, the eastern and Western averages, with an overall average. In table 9, the averages for the eastern and western sections and an average for all stations are given for date of heading, height, lodging, and shattering. These averages are from stations where data are available. A summary of the data on leaf and stem rust reaction is given in table 10, and other disease notes in table 11.

Yields varied at the various stations depending on the available moisture. Low yields were produced at Dickinson, Minot, and Williston, North Dakota, and Sheridan, Wyoming. The nurseries were a failure at Akron, Colorado and Winnipeg, Manitoba. The drought affected yields in the western section the most. It is interesting to note that there was only a 5.7 bushel difference in the overall average yield of 28 of the varieties. Marquis was lower, with an average yield of 16.6 bushels per acre. Lee² x Kenya Farmer, RL 2938, C.I. 13463 was the highest yielding variety.

Bushel weights were good at most of the stations, except on a few western dryland stations. C. I. 13570 had the highest average bushel weight.

There was considerable leaf rust infection at most of the stations in the eastern part of the region. Five varieties C. I. 13457, 13569, 13573, 13576, and 13577 were the most resistant to leaf rust and had less than 10 percent infection. Stem rust did not develop on any of the varieties to any extent in any part of the region, except on Marquis.

The disease notes in table 11 give the average infections of leaf and stem rust obtained under natural conditions in the Uniform Regional Nurseries in comparison with the infection obtained under artificially induced epidemic conditions at St. Paul. The Disease Garden notes are furnished through the cooperation of the Department of Plant Pathology of the Institute of Agriculture, St. Paul, Minnesota.

Table 5 Station and average yield per acre (bushel) of 29 spring wheats grown in the Uniform Regional Nursery in 1961, ranked in order of their average yield at all stations*

C. I. No.	Madison,	St. Paul,	Minn.	Morris,	Minn.	Concord,	Nebr.	Fargo,	Langdon,	Cassellton,	Dickinson,	Minot,	Williston,	Brookings,	Heghtmore,	S. Dak.	Watertown,	S. Dak.	Colo.	Bozeman,	Mont.	Sidney,	Laramie,	Wyo.	Sheridan,	Tetonla,	Ida.	Saskatoon,	Average	
13463	57.6	35.8	40.0	19.2	15.3	19.7	45.1	39.6	12.1	10.2	8.8	23.1	18.8	24.2	32.3	56.0	14.0	44.1	14.2	20.4	13.8	26.9	26.9	26.7	26.2	26.2	26.2	26.2	26.2	26.9
13575	54.8	36.5	41.9	23.1	18.9	16.0	42.3	32.9	11.3	11.7	9.2	26.0	21.3	28.1	28.2	49.1	12.5	58.4	4.9	17.9	11.8	12.5	58.4	48.7	43.2	43.2	43.2	43.2	43.2	26.7
13457	53.8	32.3	40.0	21.8	19.6	21.3	40.0	40.2	12.3	8.6	9.2	27.7	21.7	30.7	33.3	43.2	12.8	48.7	2.7	18.6	13.1	12.2	48.7	61.1	52.4	52.4	52.4	52.4	52.4	26.2
13574	60.5	38.5	40.7	16.1	17.5	18.1	32.9	31.2	11.8	11.2	9.7	26.1	21.6	21.4	29.5	52.4	12.2	61.1	3.7	17.6	13.8	12.2	61.1	48.8	48.7	48.7	48.7	48.7	48.7	25.4
13455	53.5	31.7	36.0	22.4	18.3	20.4	37.9	38.5	7.1	11.4	9.5	23.3	19.3	24.7	30.9	48.7	11.0	48.8	6.7	17.1	12.5	11.0	48.8	48.8	40.6	40.6	40.6	40.6	40.6	24.9
13577	51.7	32.7	39.0	12.4	19.1	19.4	32.6	44.1	10.0	10.0	7.9	23.4	23.2	25.5	33.0	50.9	14.0	46.7	7.7	18.0	12.8	14.0	46.7	46.7	50.9	50.9	50.9	50.9	50.9	24.9
13569	50.1	26.9	33.6	9.4	13.2	12.7	46.5	41.9	8.9	8.2	8.8	22.3	17.6	27.8	33.0	47.7	10.7	45.6	10.8	16.1	12.9	10.7	45.6	45.6	47.7	47.7	47.7	47.7	47.7	24.7
13603	48.7	31.6	33.3	25.7	20.3	17.8	37.5	39.3	9.7	9.2	8.8	22.3	16.3	26.7	34.1	46.3	12.5	47.7	3.0	19.3	16.0	12.5	47.7	47.7	46.3	46.3	46.3	46.3	46.3	24.7
13572	51.0	28.7	35.5	26.8	19.3	15.3	47.3	31.0	11.7	11.3	7.7	20.9	21.0	17.2	23.4	46.3	9.4	41.3	10.5	17.9	15.3	9.4	41.3	41.3	47.3	47.3	47.3	47.3	47.3	24.0
13571	48.3	33.1	37.2	20.6	12.7	17.4	33.1	34.1	10.3	9.7	7.0	24.9	19.3	22.8	25.9	46.9	12.7	43.4	8.0	17.9	14.0	12.7	43.4	43.4	46.9	46.9	46.9	46.9	46.9	24.0
135625	48.5	33.1	37.2	20.6	12.7	17.4	33.1	34.1	10.3	9.7	7.0	24.9	19.3	22.8	25.9	46.9	12.7	43.4	8.0	17.9	14.0	12.7	43.4	43.4	46.9	46.9	46.9	46.9	46.9	24.0
13553	52.0	29.6	33.6	24.7	12.9	14.0	42.2	34.5	12.1	12.1	8.6	21.5	16.7	17.0	27.5	43.9	12.3	46.1	5.1	19.8	14.0	12.3	46.1	46.1	43.9	43.9	43.9	43.9	43.9	23.9
13568	50.8	25.6	34.0	23.1	12.3	19.3	32.9	34.1	10.3	10.5	7.4	18.9	16.7	20.5	29.3	50.4	11.5	43.0	7.0	19.0	12.9	11.5	43.0	43.0	47.6	47.6	47.6	47.6	47.6	23.9
12488	53.7	30.2	35.4	22.5	17.2	12.0	32.9	32.5	13.3	10.2	8.9	21.3	17.3	20.6	34.0	42.6	11.3	44.1	10.0	13.4	11.6	11.3	44.1	44.1	48.2	48.2	48.2	48.2	48.2	23.8
13462	45.9	30.2	33.3	18.6	18.2	16.2	34.6	26.9	10.1	9.1	7.8	26.4	20.2	24.1	25.9	43.4	11.2	48.3	7.7	17.6	14.1	11.2	48.3	48.3	42.7	42.7	42.7	42.7	42.7	23.8
13573	45.4	32.6	33.6	24.5	18.2	18.4	34.2	32.2	10.4	9.8	7.8	22.6	18.4	21.1	28.6	42.7	12.0	48.0	5.4	17.2	10.4	11.2	48.0	48.0	42.7	42.7	42.7	42.7	42.7	23.7
13349	53.2	35.0	32.7	18.9	16.8	20.2	36.5	26.0	9.9	8.0	9.7	24.6	17.8	30.8	28.8	40.5	10.4	33.6	4.5	17.5	12.3	10.4	33.6	33.6	42.7	42.7	42.7	42.7	42.7	23.5
13576	45.5	36.4	41.0	22.0	16.4	13.9	28.3	31.2	10.0	11.0	8.5	19.5	17.2	18.4	33.7	49.3	11.9	47.9	11.0	17.6	12.3	10.4	47.9	47.9	42.7	42.7	42.7	42.7	42.7	23.5
13453	52.2	28.8	34.0	22.0	16.9	20.5	26.7	34.8	8.6	8.6	8.2	19.5	17.0	30.6	25.4	37.3	11.4	40.0	7.5	17.5	11.2	10.4	40.0	40.0	37.3	37.3	37.3	37.3	37.3	23.4
13584	49.4	34.9	33.4	22.0	16.0	17.3	35.0	31.7	9.7	8.7	8.5	27.4	17.0	30.6	28.5	44.8	10.6	48.0	10.0	19.1	12.5	10.4	48.0	48.0	42.7	42.7	42.7	42.7	42.7	23.1
13567	47.4	32.9	32.5	13.2	16.0	14.2	31.7	32.9	9.7	9.7	7.5	22.7	17.4	23.5	28.2	44.2	11.1	50.5	2.7	19.1	12.5	10.4	50.5	50.5	42.7	42.7	42.7	42.7	42.7	23.1
13100	46.3	27.3	32.6	18.6	15.0	17.3	25.8	39.1	11.5	9.7	7.8	23.7	19.8	22.1	31.1	44.3	12.8	25.2	8.7	15.8	13.7	12.8	25.2	25.2	42.7	42.7	42.7	42.7	42.7	22.8
13332	43.6	33.9	33.3	19.2	21.5	16.5	25.8	39.1	9.2	8.7	8.6	20.7	18.8	25.0	28.6	43.2	10.7	29.3	10.5	18.8	10.4	10.7	29.3	29.3	42.7	42.7	42.7	42.7	42.7	22.1
13608	50.2	26.2	29.0	18.2	17.3	13.2	28.8	36.9	9.2	8.7	8.6	19.0	15.7	24.3	26.4	45.0	10.5	43.9	5.5	17.8	11.1	10.7	43.9	43.9	40.9	40.9	40.9	40.9	40.9	21.9
13566	49.4	30.3	27.9	17.9	15.0	12.1	25.1	32.0	9.0	9.4	6.6	17.9	18.9	16.5	28.1	40.9	12.5	42.1	4.5	16.1	13.7	12.5	42.1	42.1	40.9	40.9	40.9	40.9	40.9	21.6
10003	47.0	27.6	30.5	12.9	12.9	13.7	30.1	34.9	9.5	10.8	9.7	17.9	18.9	16.5	28.8	43.4	8.5	26.3	2.7	17.4	13.0	8.5	26.3	26.3	43.4	43.4	43.4	43.4	43.4	21.5
13157	52.8	24.8	33.2	17.5	15.2	12.9	35.8	34.3	12.2	10.5	9.7	12.8	17.6	22.5	28.8	49.0	8.9	43.6	7.2	15.4	11.2	8.9	43.6	43.6	43.4	43.4	43.4	43.4	43.4	21.5
13570	40.4	24.6	30.3	18.1	12.7	10.2	33.9	38.7	7.2	8.7	7.2	21.1	13.3	21.4	22.4	39.9	12.7	43.6	5.8	14.8	13.2	8.9	43.6	43.6	43.4	43.4	43.4	43.4	43.4	21.2
3641	29.4	28.4	31.7	23.9	17.0	4.8	22.7	16.9	6.8	7.8	7.3	5.8	12.1	18.7	22.7	39.9	12.7	16.4				12.7	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.6
Mean	49.8	31.1	34.7	20.2	17.0	16.1	35.0	33.5	10.1	9.9	9.2	22.0	18.4	23.1	29.1	45.6	11.5	43.4	7.2	17.5	12.8	11.5	43.4	43.4	45.6	45.6	45.6	45.6	45.6	23.6
L.S.D. (5%)	8.2	7.4	4.6	N.S.	3.6	3.8	10.7	9.5	3.2	3.2	1.2	4.6	4.5	5.2	6.8	5.6	N.S.	7.5	6.3	4.0	1.4	1.3								

* Irrigated Stations - Fort Collins, Colo.; Bozeman, Mont.; Laramie, Wyo.

** C.I. Nos. 13577 and 13584 not seeded - yields are estimates.

Table 6 Average yield and rank by states for each of the 29 spring wheats grown in the Uniform Regional Nursery in 1961

C.I.No.	Wisconsin			Minnesota			Nebraska			N. Dakota			S. Dakota			Colorado			Montana			Wyoming			Idaho			Canada			Average 21 Stations Yield
	1 Station Yield	3 Stations Yield Rank	Yield Rank	1 Station Yield	3 Stations Yield Rank	Yield Rank	1 Station Yield	3 Stations Yield Rank	Yield Rank	6 Stations Yield	3 Stations Yield Rank	Yield Rank	1 Station Yield	3 Stations Yield Rank	Yield Rank	1 Station Yield	3 Stations Yield Rank	Yield Rank	2 Stations Yield	2 Stations Yield Rank	Yield Rank	1 Station Yield	1 Station Rank	Yield Rank	1 Station Yield	1 Station Rank	Yield Rank				
13463	57.6	3	31.7	5	5	15.3	21	22.6	1	22.0	13	32.3	7	35.0	1	29.2	5	20.4	1	13.8	8	26.9									
13575	54.8	4	34.5	1	5	18.9	8	20.9	5	25.1	2	28.2	19	30.8	5	31.6	2	17.9	13	11.8	21	26.7									
13457	53.8	5	31.4	6	2	19.6	5	21.8	2	26.7	1	33.3	5	28.0	17	25.7	17	18.6	8	13.1	13	26.2									
13574	60.6	1	32.4	3	10	17.5	13	19.2	10	23.0	9	29.5	10	32.3	3	32.4	1	17.6	16	13.8	7	26.2									
13465	53.5	7	30.3	8	6	18.3	11	20.8	6	23.1	8	30.9	9	29.8	8	27.8	10	17.1	22	12.5	19	25.4									
13577	51.7	12	28.4	17	7	19.1	7	20.7	7	24.4	6	33.0	6	25.8	26	28.2	8	18.0	11	12.8	17	24.9									
13569	50.1	16	24.0	28	4	13.2	24	21.0	4	25.0	4	34.1	12	32.4	2	29.6	3	20.3	2	13.2	12	24.9									
13603	49.7	17	30.2	10	13	20.3	6	18.9	13	21.8	15	29.0	2	29.2	11	28.2	7	18.1	10	12.9	16	24.7									
13572	51.0	13	30.3	7	16	19.3	16	21.3	16	19.9	19	25.4	26	29.4	10	25.4	21	19.3	4	16.0	1	24.7									
13571	58.6	2	32.3	4	12	12.7	28	18.6	12	22.3	12	27.9	21	28.4	15	25.9	16	17.9	12	15.3	2	24.6									
13625	48.5	20	29.2	13	12	16.4	19	19.1	12	22.6	10	25.5	25	29.8	9	25.7	18	17.9	14	14.0	5	24.0									
13565	52.0	11	29.3	12	12	12.9	25	20.6	8	19.1	23	27.5	22	28.1	16	25.6	19	19.8	3	14.0	6	23.9									
13568	50.8	14	27.9	20	9	12.3	29	19.6	9	19.3	22	29.3	11	31.0	4	27.3	11	19.0	6	12.9	15	23.9									
12488	53.7	6	27.9	19	20	21.7	1	18.3	20	18.7	24	37.7	1	29.8	7	26.5	15	13.4	29	11.6	22	23.8									
13452	46.9	23	27.4	22	15	17.2	15	18.7	15	22.4	11	34.0	3	27.0	23	27.0	12	18.4	9	14.1	3	23.8									
13573	45.4	26	30.2	9	18	18.2	12	17.4	16	23.6	18	25.9	24	27.4	21	28.0	13	17.6	18	14.1	4	23.7									
13349	53.2	8	28.8	15	14	18.9	9	18.8	14	20.7	17	28.6	15	27.4	20	26.7	13	17.2	21	10.4	29	23.7									
13576	45.5	25	33.1	2	18	16.8	18	18.4	18	24.4	5	28.8	14	25.5	28	19.0	26	17.6	19	11.2	20	23.5									
13453	52.2	10	26.9	23	17	18.4	10	17.2	27	18.4	26	33.7	4	30.6	6	29.4	4	17.5	17	12.3	24	23.4									
13584	49.4	19	30.1	11	16	16.9	17	17.9	21	25.0	3	25.4	27	24.4	18	23.8	24	13.5	5	12.4	28	23.1									
13567	47.4	24	26.2	24	24	16.0	20	18.4	17	19.5	21	28.5	17	27.7	19	26.6	6	19.1	27	12.5	18	23.1									
13100	46.3	24	26.2	25	25	20.4	3	17.6	25	21.2	17	28.2	18	27.6	19	26.6	14	13.8	27	13.7	9	22.8									
13332	43.6	27	28.9	14	19	21.5	2	18.4	19	21.9	14	31.1	8	28.6	14	17.0	27	15.8	24	11.0	26	22.7									
13608	50.2	15	24.5	27	17	17.3	14	17.7	22	21.5	16	28.6	16	27.0	22	19.9	25	18.8	7	10.4	27	22.1									
13566	49.4	18	28.6	16	28	16.0	23	16.0	28	19.7	20	26.4	23	25.7	27	23.8	23	17.8	15	11.1	25	21.9									
10003	47.0	22	23.8	29	24	12.9	26	17.6	24	17.8	27	28.1	20	26.8	13	24.2	22	16.1	23	13.7	10	21.6									
13157	52.8	9	25.2	26	11	15.2	22	19.2	11	17.6	28	28.8	13	26.0	25	14.5	28	17.4	20	13.0	14	21.5									
13570	40.4	28	27.7	21	23	12.7	27	17.6	23	18.6	25	22.4	29	29.0	12	25.4	20	15.4	25	11.2	23	21.2									
3641	29.4	29	28.0	18	29	17.0	16	11.0	29	8.9	29	22.7	28	26.3	24	11.1	29	14.8	26	13.2	11	16.6									
Mean	49.8		28.8			17.0		18.8		21.2		29.1		28.6		25.3		17.5		12.8		23.6									
L.S.D. (5%)	8.2	4.7		2.6	3.7		3.6					6.8		3.2		4.8		4.0		1.4		1.3									

Table 7 Average yield of the Uniform Regional Nursery wheats at Eastern, Western, Western Dryland, and Western Irrigated Stations in 1961

C.I. No.	11 Eastern Stations		10 Western Stations		3 Western Irrigated Stations		7 Western Dryland Stations		21 Regional Stations	
	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank
13463	30.8	3	22.6	1	44.1	3	13.4	1	26.9	
13575	31.4	2	21.5	3	45.2	2	11.3	12	26.7	
13457	31.7	1	20.2	12	41.7	10	10.9	17	26.2	
13574	29.7	5	22.3	2	47.7	1	11.4	10	26.2	
13465	29.9	4	20.4	9	42.8	6	10.8	19	25.4	
13577	29.6	6	20.2	11	40.8	12	11.4	11	25.1	
13569	28.3	12	21.2	5	42.2	9	12.2	3	24.9	
13603	28.3	11	20.8	6	42.5	7	11.5	8	24.7	
13572	28.9	9	20.2	14	39.8	15	11.7	6	24.7	
13571	29.1	7	19.7	17	38.8	20	11.4	9	24.6	
13625	27.7	14	19.8	16	38.6	21	11.7	5	24.0	
13565	27.3	16	20.2	13	39.2	18	12.0	4	23.9	
13568	27.1	18	20.4	10	42.4	8	10.9	18	23.9	
12488	27.0	19	20.4	8	43.0	5	10.7	20	23.8	
13462	26.7	20	20.7	7	40.2	14	12.3	2	23.8	
13573	27.5	15	19.5	18	39.2	17	11.1	14	23.7	
13349	27.8	13	19.2	19	39.8	16	10.4	23	23.7	
13576	28.9	8	17.5	26	34.3	24	10.3	24	23.5	
13453	25.4	24	21.2	4	43.6	4	11.6	7	23.4	
13584	28.5	10	17.3	27	34.2	25	10.0	26	23.2	
13567	25.9	23	20.0	15	40.4	13	11.2	13	23.1	
13100	26.1	21	19.1	20	41.0	11	9.7	28	22.8	
13332	27.2	17	17.8	25	33.5	27	11.0	15	22.7	
13608	25.9	22	17.8	24	33.7	26	11.0	16	22.1	
13566	25.4	25	18.0	23	36.5	23	10.1	25	21.9	
10003	23.9	28	19.1	21	39.0	19	10.5	22	21.6	
13157	25.4	26	17.2	28	32.8	28	10.6	21	21.5	
13570	24.1	27	18.1	22	38.3	22	9.4	29	21.2	
3641	18.3	29	14.7	29	26.3	29	9.8	27	16.6	
Mean	27.4		19.6		39.4		11.0		23.6	
L.S.D. (5%)	2.2		1.5		3.8		1.3		1.3	

Table 8 Average bushel weight for each of the 29 wheats, with averages for the Eastern and Western areas and in overall average

C.I.No.	TEST WEIGHT (Pounds)											11 Eastern Stations	
	Madison	St. Paul	Morris	Crockston	Concord	Lincoln*	Fargo	Langdon	Casselton	Brookings	Highmore	Watertown	Ave. Rank
13570	60.4	59.3	60.3	59.5	54.2	50.5	56.0	60.0	59.0	59.9	58.1	58.2	58.6
13569	60.1	60.0	60.5	59.5	53.5	50.8	57.0	61.5	59.0	60.4	56.8	57.0	58.7
13566	59.5	59.7	61.3	60.0	55.0	53.5	54.0	60.0	59.0	58.7	58.0	59.6	58.6
13603	60.1	59.7	60.7	59.5	56.6	56.0	57.5	60.0	60.0	58.4	56.8	58.4	58.9
13608	59.8	59.8	60.0	60.0	55.0	53.2	55.5	60.5	60.0	58.2	57.0	58.6	58.6
13457	59.3	60.8	60.3	60.0	55.5	54.1	56.0	61.0	60.0	59.2	54.1	58.7	58.6
13453	59.3	60.2	60.7	58.0	54.8	52.4	57.0	61.0	60.0	58.6	53.9	56.0	58.1
13568	61.2	60.7	60.5	59.0	55.0	53.3	56.5	58.5	59.5	58.6	56.8	57.0	58.5
13567	59.5	59.3	60.7	60.0	55.3	52.9	56.0	59.5	59.0	57.8	57.0	57.0	58.3
13571	60.1	60.3	60.5	60.5	52.0	50.2	54.5	59.5	60.0	60.1	56.2	57.8	58.3
12488	58.4	61.0	60.3	60.5	57.0	54.6	56.0	60.0	60.0	58.2	53.8	57.1	58.4
13465	58.1	60.7	61.2	59.5	53.2	51.4	57.5	60.0	61.0	57.5	53.8	57.2	58.2
13576	57.6	59.3	60.0	58.0	55.0	53.0	56.0	60.0	58.5	57.1	55.6	58.0	57.8
13572	60.1	60.5	60.5	60.5	53.2	50.1	56.0	61.0	58.0	58.1	56.0	56.0	58.1
13577	58.1	60.3	60.2	59.0	55.0	53.1	55.0	59.0	60.0	58.1	56.0	57.2	58.0
13463	58.1	61.0	60.3	58.0	52.8	51.9	54.5	61.0	60.0	58.0	54.6	56.0	57.7
13349	59.3	59.7	59.3	58.0	53.7	51.3	56.0	59.5	59.0	57.6	55.0	55.6	57.5
13565	57.9	59.5	60.5	58.5	53.0	50.7	53.0	60.0	57.0	57.8	57.0	55.3	57.2
13462	59.5	59.2	59.0	58.5	52.0	51.2	52.0	61.0	59.0	57.2	54.8	56.2	57.1
13157	59.3	58.7	59.3	60.0	52.0	49.6	51.0	60.0	59.0	53.0	54.5	55.4	56.6
13625	59.3	59.5	60.0	59.0	52.0	52.6	52.5	60.5	58.5	57.0	53.4	54.8	56.6
10003	58.1	58.7	59.0	58.5	50.0	48.8	52.0	60.5	59.5	56.2	54.0	55.0	56.5
13575	55.6	57.5	58.3	57.5	51.3	50.0	52.0	59.0	55.5	55.2	53.6	55.4	55.5
13574	56.7	58.2	58.2	57.0	48.2	48.9	50.0	59.0	57.2	56.6	53.1	53.0	55.2
13573	59.3	59.2	58.7	56.5	51.5	48.1	52.0	59.0	57.0	58.0	53.0	54.7	56.3
13584	57.0	59.5	58.7	58.5	49.9	49.6	57.0	58.5	58.5	56.2	51.9	56.6	56.6
13332	57.3	59.0	58.5	57.0	51.1	50.4	50.5	60.0	57.0	57.1	51.8	54.8	55.8
13100	56.7	56.0	57.7	57.0	50.1	45.5	49.0	59.5	58.0	55.2	50.7	53.4	54.8
3641	56.2	57.0	57.3	55.0	47.0	43.3	49.0	60.0	53.0	41.9	51.9	45.8	52.3
Mean	58.7	59.5	59.7	58.7	52.9	51.0	54.2	60.0	58.7	57.1	54.8	56.1	57.3

* Observation Nursery only at Lincoln, Nebr. Not included in the average.

Table 8 - cont'd.

C.I.No.	TEST WEIGHT (Pounds)											9	Western Stations Ave.	Rank	20 Regional Stations Ave.
	Dickinson	Minot	Williston	Sheridan	Laramie	Sidney	Bozeman	Tetonia	Ft. Collins	Saskatoon					
13570	60.0	61.0	59.0	53.0	52.8	58.5	61.4	59.6	62.0	63.8		59.8		1	59.2
13569	59.0	60.0	58.0	57.0	59.2	55.0	61.4	59.5	61.8	63.5		59.7		2	59.1
13566	59.0	59.0	57.5	-	62.0	54.5	61.1	59.0	60.4	62.5		59.4		3	59.0
13603	57.0	60.0	58.0	52.0	58.3	55.0	60.9	58.0	61.0	63.8		59.1		5	59.0
13608	59.5	59.5	58.5	-	56.1	54.5	59.9	58.3	60.8	62.8		58.9		6	58.7
13457	59.0	57.5	58.5	-	58.8	53.0	60.6	57.2	60.8	62.8		58.7		15	58.6
13453	57.5	60.5	58.0	-	62.4	53.5	60.6	57.9	60.5	61.8		59.2		4	58.6
13568	58.0	59.0	57.0	-	54.5	56.5	60.8	59.4	61.2	62.5		58.8		10	58.6
13567	59.0	59.5	57.0	56.0	60.0	55.0	60.3	58.5	59.4	61.0		58.9		7	58.5
13571	58.0	59.5	57.0	53.0	57.3	53.5	60.3	58.1	61.8	63.0		58.7		14	58.5
12488	59.5	58.5	57.5	54.0	60.4	53.5	60.9	55.9	59.4	61.2		58.5		17	58.5
13465	59.0	58.5	56.5	-	60.8	53.5	60.8	58.3	59.0	62.8		58.8		9	58.4
13576	59.5	59.0	57.0	-	60.3	53.5	59.7	57.6	59.8	61.8		58.7		16	58.2
13572	58.5	56.5	56.0	-	61.0	52.5	60.6	57.6	59.2	62.5		58.3		19	58.2
13577	58.0	59.0	57.0	M	58.6	52.5	60.5	57.6	59.6	62.2		58.3		18	58.1
13463	58.0	59.5	58.0	58.0	57.3	54.0	61.1	58.1	59.3	63.2		58.7		13	58.1
13349	57.5	58.5	58.5	-	60.6	54.0	60.3	57.9	59.5	62.0		58.8		11	58.1
13565	59.0	59.5	57.5	-	59.7	54.5	60.3	57.5	58.9	62.5		58.8		8	57.9
13462	59.0	59.5	57.0	-	59.6	53.5	60.7	57.7	58.7	63.0		58.7		12	57.9
13157	58.0	58.0	57.0	-	60.0	52.5	59.4	57.9	58.1	62.8		58.2		22	57.3
13625	59.0	56.5	54.0	-	60.2	50.0	60.7	57.3	58.1	61.2		57.4		24	57.2
10003	59.0	57.5	55.0	-	59.7	50.5	60.4	56.4	58.3	61.5		57.6		23	57.0
13575	57.5	58.5	59.0	-	60.1	52.5	60.2	57.1	58.1	61.0		58.2		21	56.7
13574	58.0	58.0	57.0	-	60.7	53.0	60.2	56.1	58.5	61.8		58.3		20	56.6
13573	56.5	55.5	54.0	49.0	58.2	51.0	60.0	56.1	58.2	60.0		56.6		25	56.4
13584	56.5	54.5	54.5	M	60.1	49.0	58.1	53.6	58.5	60.2		56.1		28	56.4
13332	59.5	56.0	54.0	50.0	54.9	52.0	59.8	54.8	57.5	60.2		56.5		26	56.1
13100	57.5	55.0	51.5	-	59.9	48.5	59.0	53.0	57.2	60.2		55.8		29	55.3
3641	59.5	57.5	53.0	-	46.2	55.0	60.8	57.9	54.3	64.0		56.5		27	54.1
Mean	58.4	58.3	56.6	-	58.6	53.3	60.4	57.4	59.3	62.2		57.2			57.7

** Not included in the average.

Table 9 Averages of agronomic characters recorded on 29 spring wheats in the 1961 Uniform Regional Nursery

C.I.No.	Date of heading (June)			Height (inches)			Lodging class-(1-9)*		Lodging due to sawfly (percent)
	11		21	11		8	6		
	Eastern Stations	Western Stations	Regional Stations	Eastern Stations	Western Stations	Regional Stations	Eastern Stations	Regional Stations	
3641	29	30	30	34	29	32	2.3	2.3	10
10003	27	28	28	32	27	30	2.3	2.3	2
13100	28	29	28	33	27	31	1.9	1.9	10
12488	25	26	26	31	26	29	2.3	2.3	2
13157	30	30	30	34	28	31	1.8	1.8	2
13332	26	27	27	31	27	29	2.5	2.5	5
13457	28	27	27	34	28	31	2.5	2.5	15
13463	26	26	26	31	26	29	2.9	2.9	2
13625	27	28	27	32	27	30	2.3	2.3	1
13462	28	30	29	33	27	31	1.4	1.4	1
13349	27	27	27	32	26	30	1.3	1.3	1
13453	27	28	28	32	26	29	2.2	2.2	0
13603	28	30	29	34	27	31	1.4	1.4	0
13608	28	29	28	35	28	32	2.5	2.5	5
13565	29	29	29	32	26	29	2.3	2.3	1
13566	29	30	29	34	27	31	2.8	2.8	1
13567	29	29	29	32	26	29	2.0	2.0	1
13568	28	28	28	32	26	29	1.4	1.4	0
13569	29	29	29	35	28	32	2.1	2.1	1
13570	7-1	30	7-1	32	26	30	1.8	1.8	1
13571	29	30	30	35	27	32	4.0	4.0	1
13572	30	7-1	30	35	27	32	2.1	2.1	1
13573	28	29	28	35	27	31	1.5	1.5	1
13574	26	26	26	32	26	29	2.0	2.0	2
13575	25	26	25	31	26	29	2.0	2.0	3
13576	26	27	26	34	28	32	4.5	4.5	5
13577	26	29	27	33	27	31	3.1	3.1	5
13584	25	27	26	35	28	32	2.6	2.6	5
13465	26	27	27	34	28	31	3.4	3.4	5

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* 1 = Erect, 9 = Flat.

Table 10 Leaf and stem rust notes recorded on 29 spring wheats in the 1961 Uniform Regional Nursery at stations recording (T or trace - was computed at 0.2 percent)

C.I.No.	LEAF RUST												Station Average	Rank
	Madison	St.Paul	Morris	Crookston	Fargo	Langdon	Casselton	Laramie	Brookings	Highmore	Watertown	Winnipeg		
3641	80	50	60	60	40	40	10	10	65	40	80	80S	51	28
10003	90	50	90	60	60	40	10	65	70	60	70	90S	63	29
13100	35	40	70	30	40	20	30	25	50	30	50	30MR	37	16
12488	50	50	50	30	70	20	50	5	55	30	50	30M	41	19
13157	70	T	70	50	40	20	50	10	55	20	30	60MS	40	18
13332	20	40	70	40	20	20	10	25	50	25	50	30MR	33	13
13457	10	T	T	T	T	T	0	T	15	5	10	3M	4	1
13463	60	40	70	60	60	20	25	5	55	35	50	30M	42	22
13625	8	40	40	20	10	10	5	0	50	30	50	1R	22	10
13462	20	15	60	40	40	20	20	25	55	40	20	1R	30	12
13349	15	5	60	10	60	20	10	5	40	30	15	5MR	23	11
13453	35	40	60	40	60	10	10	5	55	35	30	30M	34	14
13603	70	40	80	50	60	10	40	T	60	28	30	40MS	42	21
13565	65	20	80	60	70	10	75	5	40	18	20	40MS	44	24
13566	33	60	60	60	60	40	50	10	62	30	30	2MR	40	17
13567	50	60	80	60	70	10	60	T	55	25	30	30M	44	25
13568	28	50	80	30	60	10	50	15	50	20	30	15M	36	26
13569	T	T	50	3	0-20	10	T	0	25	8	10	2R	9	15
13570	1	T	40	3	5	0	10	0	60	20	30	2R	14	4
13571	10	(T-50)5	50	50	T-40	2	20	T	28	15	15	TR	18	7
13572	T	T	40	10	5	20	20	0	35	5	20	0	13	8
13573	T	T	30	T	5	5	10	0	30	15	15	0	9	6
13574	40	60	80	70	70	10	50	5	50	30	20	30M	43	5
13575	38	60	80	60	70	10	70	5	60	40	50	30M	48	23
13576	T	T	3	0	10	T	T	0	20	20	10	TR	5	27
13577	1	T	5	0	T	0-30	0	0	40	5	10	TR	6	2
13584	6	50	50	10	20	10	5	5	40	10	5	TR=30MR	19	3
13465	50	50	50	40	70	50	20	T	45	25	30	70S	42	9

Table 10 - cont'd.

C.I.No.	STEM RUSE											Station Average	Rank
	Madison	Morris	Fargo	Langdon	Casselton	Laramie	Brookings	Highmore	Watertown	Ft.Collins	Winnipeg		
3641	80	15	80	50	70	65	55	40	70	25	80S	57.3	29
10003	4	5	20	7	0	0	8	8	20	20	10M	9.3	28
13100	T	T	5	0	0	0	T	5	0	0	TR	1.0	16
12488	6	T	5	0	0	0	6	3	20	10	5M	5.0	23
13157	T	0	0	0	0	0	1	T	0	0	TR	0.1	4
13332	T	0	0	0	0	0	1	T	0	0	TR	0.1	3
13457	4	T	0	0	0	0	2	0	0	0	20M	2.4	20
13463	1	3	20	0	0	0	3	T	3	5	0	3.2	21
13625	T	3	T	0	0	T	1	12	5	0	TR	2.0	18
13462	0	0	T	0	0	0	1	T	T	T	0	0.2	5
13349	2	0	T	0	0	0	0	T	T	0	0	0.2	6
13453	2	0	40	0	0	0	3	5	0	5	0	5.0	22
13603	1	0	20	0	0	5	8	2	12	0	5M	5.5	25
13565	10	0	0	0	0	T	2	T	3	0	TR	0.6	12
13566	T	0	T	0	0	T	6	T	T	0	TR	0.1	2
13567	T	0	T	0	0	0	4	0	0	0	0	0.6	13
13568	0	0	0	0	0	0	T	0	0	0	0	0.4	4
13569	0	0	0	0	0	0	1	0	0	5	0	0.5	11
13570	2	0	0	0	0	0	3	0	15	0	0	0.1	1
13571	1	0	0	0	0	0	T	0	0	5	0	2.3	19
13572	10	T	0	0	0	0	1	0	0	0	0	1.0	17
13573	6	0	0	0	0	0	3	0	3	0	0	0.5	9
13574	4	T	0	0	0	0	4	0	2	0	0	0.5	110
13575	4	T	0	0	0	0	8	0	25	5	5M	7.8	26
13576	1	0	0	0	0	5	T	0	20	5	5M	8.3	27
13577	T	0	0	0	0	0	0	4	0	5	TR	0.6	14
13584	0	0	0	0	0	0	0	0	1	T	TR	0.2	7
13465	T	0	5	0	0	30	0	0	0	5	TR-20M	0.9	15
										10		5.1	24

Table 11 Disease notes on the 29 wheats in the Uniform Regional Nursery in 1961

C.I. No.	Leaf Rust (Pct.)		Stem Rust (Pct.)		Rust		Disease Garden*	
	Natural, 12 Stations	Nursery St. Paul	Natural, 11 Stations	Nursery St. Paul	Natural, 11 Stations	Nursery St. Paul	Bunt Pct.	Scab Pct.
3641	51	100	57	70S			1	10
10003	63	100	9	20MS			3	5
13100	37	70	1	10MR			3	10
12488	41	70	5	40MS			20	10
13157	40	70	0.1	T			1	2
13332	33	70	0.1	T			2	10
13457	4	60	2	40MS			3	2
13463	42	50	3	5S			15	10
13625	22	50MR	2	10MS			10	5
13462	30	50	0.2	T-5S			4	15
13349	23	30	0.2	T			20	30
13453	34	60	5	20MS			20	10
13603	42	60	6	20MS			5	5
13608	44	70	0.6	15MS			5	10
13565	40	50	0.1	T			8	5
13566	44	50	0.6	5MS			3	10
13567	44	50	0.4	T			1	5
13568	36	440	0.5	T			20	5
13569	9	20	0.1	T			12	2
13570	14	30MR	2	30S			12	2
13571	18	50	1	15MR			4	5
13572	13	(T-30)T	0.5	T			4	2
13573	9	T-5	0.5	T			12	5
13574	43	50	8	15S			20	15
13575	48	60	8	40S			20	30
13576	5	T	0.6	20MR			5	5
13577	6	T	0.2	5R			35	10
13584	19	50MR	0.9	T			1	10
13465	42	60	5	T			15	10

* Data for the Disease Garden material were obtained from Dr. K. Fezer of the Department of Plant Pathology, Institute of Agriculture, St. Paul, Minn.