UNIFORM REGIONAL NURSERY, 1962

The thirty-first Uniform Regional Nursery was seeded in 1962 at 20 stations in nine states - Wisconsin, Minnesota, North Dakota, South Dakota, Nebraska, Colorado, Wyoming, Montana, and Idaho, and in Manitoba and Saskatchewan.

The list of spring wheats included in the Uniform Regional Nursery in 1962 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
Pembina	"	Canada	Winnipeg	CT 229	13332
Lathrop	"	Wisconsin	Madison	Wisc. 253	13457
Lee^2 x KF	"	Canada	Winnipeg	RL 2938	13463
To^6-KF x To^7-Ftn	"	"	"	RL 4125	13625
(Ftn x II-44-29,Sel. II-50-17) x Pilot	New	Montana	Bozeman	B61-95	13586
(Norin 10 x Brevor, Sel.14) x Centana	"	"	"	B59-3	13587
Kenya 184 x Wisc. 250^4	"	Wisconsin	Madison	6-16-2	13588
Cly x ND 40-2	Old	N.Dak.	Fargo	ND 102	13462
ND 81 sib x ND 1	"	"	"	ND 208	13603
ND 81 sib x Conley	"	"	"	ND 256	13608
Conley x ND 81	"	"	"	ND 215 sib	13567
ND 140 x ND 138	"	"	"	ND 247	13568
ND 138 x Lee x FPI 186035	"	"	"	ND 264	13569
Conley x ND 142	"	"	"	ND 271	13571
ND 140 x ND 138	New	"	"	ND 229-1	13589
ND 137 x ND 138	"	"	"	ND 287	13590
ND 102 x ND 81	"	"	"	ND 322	13652
ND 40-2-1-76 x Conley	"	"	"	ND 345	13653
Ftn x To^4	Old	Minnesota	St. Paul	II-52-238	13572
Ftn-To^2 x II-44-29-To^2	"	"	"	II-53-661	13573
Rival x II-50-17	"	"	"	II-53-749	13576
KT-To^3 x II-44-29-To^2	"	"	"	II-53-404	13465
II-50-17 x Rushmore	New	"	"	II-54-29	13654
"	"	"	"	II-54-30	13655
Ftn-To^3 x II-44-29-To^2	"	"	"	II-53-525-1	13751
"	"	"	"	II-53-521	13657

Yields, Bushel Weights, and Disease Resistance

Data on 1962 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 group or area of the tests - Eastern - Western (irrigated and dryland) and 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 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 were good at most of the stations. The highest average yield was obtained at the Ft. Collins station. The average yields at Morris, Minn., Brookings, S. Dak., Casselton, N. Dak., and Saskatoon, Sask., were lower than normal.

The average yield of a selection, II-50-17 x Rushmore, C. I. 13654, was significantly higher than all other varieties in this test. Another selection of this same cross, C. I. 13655, was second. Lathrop, C. I. 13457 was third. Selkirk ranked 15th in yield and Pembina ranked 21st.

The same two wheats that yielded best, C. I. 13655 and 13654, had the best bushel weight.

There was a rather heavy leaf rust infection at many of the stations. The most resistant varieties were C. I. Nos. 13654, 13655, 13576, 13751, and 13573. Stem rust did not develop except on one or two of the very susceptible varieties because most new spring wheats are resistant to the stem rust race 56 which was most prevalent in 1962. It is interesting to note that Marquis had a heavy infection at a number of the stations.

The disease notes in table 11 give the average infections for both natural and artificially inoculated nurseries. Due to the severe hail damage at St. Paul, the leaf rust infection was lighter than under natural infection. The reverse occurred with stem rust, with the heaviest infections occurring in the Rust Nursery. Scab infection was heavy where it occurred, particularly at Brookings, S. Dak. Only 4 varieties had the lighter infection. The two most resistant varieties were C. I. 13586 and 13654.

Table 5 Station and average yield per acre (bushel) of 30 spring wheats grown in the Uniform Regional Nursery in 1962, ranked in order of their average yield at all stations

C.I. No.	Madison, Wis.	Morris, Minn.	Crookston, Minn.	Brookings, S. Dak.	Watertown, S. Dak.	Winnipeg, Man.	Langdon, N. Dak.	Casselton, N. Dak.	Minot, N. Dak.	Williston, N. Dak.	Ft. Collins, Colo.*	Bozeman, Mont.*	Sidney, Mont.	Laramie, Wyo.*	Sheridan, Wyo.	Tetonia, Ida.	Saskatoon, Sask.	17 Station Average
13654	39.3	39.5	54.1	26.9	46.2	33.0	33.8	32.1	33.4	37.4	52.0	53.1	45.6	47.8	45.8	23.4	23.5	39.2
13655	39.1	35.1	44.1	25.0	40.9	29.0	35.3	32.2	37.1	35.7	53.9	51.0	44.2	45.0	41.5	26.5	21.6	37.5
13457	39.9	33.5	37.4	24.8	33.0	29.5	39.3	32.5	35.4	34.6	57.3	49.9	45.6	50.0	45.2	23.2	20.6	37.2
13572	39.0	34.0	36.7	30.1	42.7	31.9	31.6	26.3	44.5	38.2	46.0	55.4	43.7	36.0	40.1	26.6	28.8	37.2
13751	36.0	29.3	38.4	25.8	39.8	29.0	35.4	24.4	30.4	38.0	46.1	53.9	46.3	52.3	39.4	26.0	25.3	36.2
13588	36.2	32.1	35.6	26.1	39.8	29.1	37.2	25.1	34.7	33.1	52.1	45.2	43.9	52.0	40.0	23.5	18.3	35.5
13625	37.3	27.6	36.0	24.5	34.9	25.6	34.3	21.0	31.4	36.2	51.2	51.3	46.8	49.4	41.1	24.0	22.2	35.0
13586	40.0	26.2	40.5	20.3	28.4	28.3	33.8	21.2	29.6	34.4	49.8	50.7	51.4	50.1	35.4	27.1	23.6	34.8
13569	34.6	21.2	39.2	17.8	26.8	27.9	36.9	18.1	36.1	33.3	48.9	57.0	42.3	63.2	38.6	24.1	23.1	34.7
13603	37.1	27.1	39.3	17.6	30.5	32.0	34.0	18.2	31.9	36.9	59.5	42.8	45.2	52.0	42.6	19.4	17.6	34.3
13657	29.1	29.1	40.2	22.5	37.0	19.8	28.3	18.7	30.4	34.0	47.6	51.8	46.6	45.6	40.6	26.7	27.3	33.8
13571	38.5	20.2	33.0	18.3	25.0	28.0	36.4	19.2	37.2	33.8	50.9	56.3	41.9	48.5	34.4	25.7	27.4	33.8
13463	36.5	19.1	29.0	17.5	20.1	28.7	28.7	13.0	31.5	34.4	54.7	54.2	49.2	56.4	42.7	23.7	22.4	33.0
13573	35.2	19.4	31.0	19.1	28.7	22.3	29.0	24.1	29.4	37.3	51.4	50.0	44.9	52.8	38.3	24.4	21.0	32.8
13100	34.1	24.9	34.5	18.2	21.1	24.3	35.7	20.0	25.2	35.1	56.3	47.2	41.8	44.9	39.7	22.1	23.3	32.3
12488	39.1	19.7	33.3	19.0	18.8	25.8	34.9	20.1	22.3	32.2	51.0	47.5	45.1	57.2	41.8	18.3	18.2	32.0
13465	41.2	18.1	34.3	13.2	19.2	30.3	29.6	18.6	26.1	34.9	51.7	46.1	43.8	48.4	42.0	19.8	21.2	31.7
13576	32.0	29.0	45.7	18.1	28.3	28.4	33.8	15.8	24.8	29.0	49.1	46.7	38.7	39.2	42.3	16.7	19.1	31.6
13589	27.4	14.5	28.1	12.4	19.1	24.7	29.0	20.7	26.6	32.6	51.9	56.6	43.4	48.7	40.4	26.3	26.8	31.1
13568	34.5	16.9	28.8	14.9	17.4	21.7	24.8	12.5	25.8	31.3	52.1	52.0	43.7	53.6	42.6	25.7	22.6	30.6
13332	37.2	28.0	30.6	22.2	25.0	22.6	30.1	14.6	26.5	30.4	44.7	45.7	42.9	45.5	34.0	19.6	18.4	30.5
13590	32.8	13.5	31.2	15.8	16.1	22.1	28.8	13.7	30.8	31.9	50.4	49.3	42.2	55.6	38.8	21.6	22.9	30.4
13653	33.6	21.1	35.0	17.3	22.5	28.0	35.2	21.6	26.5	28.9	50.7	43.3	37.1	32.8	34.5	19.0	19.5	29.8
13567	31.4	14.6	23.4	14.0	20.1	27.8	21.0	12.3	35.1	34.0	50.7	48.8	44.0	50.6	35.6	20.3	20.2	29.6
10003	30.7	15.6	28.2	14.3	17.7	19.3	28.1	13.3	19.4	38.2	51.9	53.7	39.4	48.2	37.0	23.3	23.3	29.5
13652	30.5	15.6	30.2	14.9	16.3	21.7	25.1	12.0	22.5	32.6	49.5	52.1	43.6	50.2	38.8	22.6	22.7	29.5
13462	31.2	19.0	26.0	17.6	20.0	25.4	28.3	13.1	23.7	31.3	50.7	45.1	40.5	47.1	34.9	21.9	24.9	29.5
13608	33.2	18.3	25.1	16.0	20.6	28.9	20.6	19.1	30.0	29.3	51.0	39.3	36.1	37.1	35.0	17.1	19.0	28.0
3641	11.6	22.7	33.6	17.7	23.6	6.8	8.3	8.9	13.1	33.3	35.6	48.4	26.1	24.8	35.9	25.2	23.0	23.4
13587	13.3	0.9	4.8	4.8	7.7	6.4	4.0	3.5	8.5	35.2	35.9	55.0	33.4	38.2	42.6	29.6	28.3	20.7
Mean	33.7	22.9	33.6	18.9	26.2	25.1	29.7	18.9	28.7	33.9	50.2	50.0	42.7	47.4	39.4	23.1	22.5	32.2
L.S.D.(5%)	5.6	4.8	9.3	4.4	4.5	3.5	9.4	7.7	7.4	3.9	9.3	5.8	4.2	9.2	9.1	3.0	2.3	1.6

* Irrigated Stations.

Table 6 Average yield and rank by states for each of the 30 spring wheats grown in the Uniform Regional Nursery in 1962

C.I.No.	Wisconsin 1 Station		Minnesota 2 Stations		S. Dakota 2 Stations		Manitoba 1 Station		N. Dakota 4 Stations		Colorado 1 Station		Montana 2 Stations		Wyoming 2 Stations		Idaho 1 Station		Saskatchewan 1 Station		17 Station Average
	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	
13654	39.3	4	46.8	1	36.6	1	33.0	1	34.2	4	52.0	8	49.4	7	46.8	8	23.4	16	23.5	9	39.2
13655	39.1	5	39.6	2	33.0	4	29.0	7	35.1	3	53.9	5	47.8	14	43.2	16	26.5	5	21.6	19	37.5
13457	39.9	3	35.4	4	28.9	8	29.5	5	35.4	1	57.3	2	47.8	13	47.6	5	23.2	18	20.6	22	37.2
13572	39.0	7	35.4	5	36.4	2	31.9	3	35.2	2	46.0	27	49.6	6	38.0	27	26.6	4	28.8	1	37.2
13751	36.0	14	33.8	8	32.8	5	29.0	8	32.0	6	46.1	26	50.1	3	45.8	10	26.0	7	25.3	6	36.2
13588	36.2	13	33.8	7	33.0	3	29.1	6	32.5	5	52.1	7	44.6	21	46.0	9	23.5	15	18.3	28	35.5
13625	37.3	9	31.8	11	29.7	7	25.6	18	30.7	9	51.2	13	49.0	10	45.2	12	24.0	13	22.2	18	35.0
13586	40.0	2	33.4	9	24.4	9	28.3	12	29.8	12	49.8	21	51.0	2	42.8	19	27.1	2	23.6	8	34.8
13569	34.6	16	30.2	12	22.3	14	27.9	15	31.1	8	48.9	24	49.6	5	50.9	1	24.1	12	23.1	12	34.7
13603	37.1	11	33.2	10	24.0	10	32.0	2	30.2	10	59.5	1	44.0	25	47.3	6	19.4	26	17.6	29	34.3
13657	29.1	27	34.6	6	29.8	6	19.8	27	27.8	15	47.6	25	49.2	8	43.1	18	26.7	3	27.3	4	33.8
13571	38.5	8	26.6	17	21.6	15	28.0	13	31.6	7	50.9	16	49.1	9	41.4	22	25.7	8	27.4	3	33.8
13463	36.5	12	24.0	21	18.8	20	28.7	10	26.9	19	54.7	4	51.7	1	49.6	2	23.7	14	22.4	17	33.0
13573	35.2	15	25.2	20	23.9	11	22.3	23	30.0	11	51.4	12	47.4	15	45.6	11	24.4	11	21.0	21	32.8
13100	34.1	18	29.7	13	19.6	18	24.3	21	29.0	13	56.3	3	44.5	22	42.3	21	22.1	20	23.3	11	32.3
12488	39.1	6	26.5	18	18.9	19	25.8	17	27.4	16	51.0	15	46.3	18	49.5	3	18.3	28	18.2	30	32.0
13465	41.2	1	26.2	19	16.2	24	30.3	4	27.3	17	51.7	11	45.0	20	45.2	13	19.8	24	21.2	20	31.7
13576	32.0	22	37.4	3	23.2	13	28.4	11	25.8	21	49.1	23	42.7	27	40.8	24	16.7	30	19.1	25	31.6
13589	27.4	28	21.3	28	15.8	28	24.7	23	27.2	18	51.9	9	50.0	4	44.6	14	26.3	6	26.8	5	31.1
13568	34.5	17	22.8	23	16.2	25	21.7	25	23.6	27	52.1	6	47.8	12	48.1	4	25.7	9	22.6	16	30.6
13332	37.2	10	29.3	14	23.6	12	22.6	22	25.4	23	44.7	28	44.3	23	39.8	26	19.6	25	18.4	27	30.5
13590	32.8	21	22.4	25	16.0	27	22.1	24	26.3	20	50.4	20	45.8	19	47.2	7	21.6	22	22.9	14	30.4
13653	33.6	19	28.0	16	19.9	17	28.0	14	28.0	14	50.7	17	40.2	28	33.6	29	19.0	27	19.4	24	29.8
13567	31.4	23	19.0	29	17.0	23	27.8	16	25.6	22	50.7	19	46.4	17	43.1	17	20.3	23	20.2	23	29.6
10003	30.7	25	21.9	26	16.0	26	19.3	28	24.8	25	51.9	10	46.6	16	42.6	20	23.3	17	23.3	10	29.5
13652	30.5	26	22.9	22	15.6	29	21.7	26	23.0	28	49.5	22	47.8	11	44.5	15	22.6	19	22.7	15	29.5
13462	31.2	24	22.5	24	18.8	21	25.4	19	24.1	26	50.7	18	42.8	26	41.0	23	21.9	21	24.9	7	29.5
13608	33.2	20	21.7	27	18.3	22	28.9	9	24.8	24	51.0	14	37.7	29	36.0	28	17.1	29	19.0	26	28.0
3641	11.6	30	28.2	15	20.6	16	6.8	29	15.9	29	35.6	30	37.2	30	30.4	30	25.2	10	23.0	13	23.4
13587	13.3	29	22.8	30	6.2	30	6.4	30	12.8	30	35.9	29	44.2	24	40.4	25	29.6	1	28.3	2	20.7
Mean	33.7		28.2		22.6		25.1		27.8		50.2		46.4		43.4		23.1		22.5		32.2
L.S.D.(5%)	5.6		5.2		3.1		3.5		3.7		9.3		3.6		6.5		3.0		2.3		1.6

Table 7 Average yield of the Uniform Regional Nursery wheats at Eastern, Western, Western Dryland, and Western Irrigated Stations in 1962

C.I. No.	8 Eastern Stations Yield	Rank	9 Western Stations Yield	Rank	3 Western Irrigated Stations Yield	Rank	6 Western Dryland Stations Yield	Rank	17 Regional Stations Yield
13654	38.1	1	40.2	3	51.0	12	34.9	2	39.2
13655	35.1	2	39.6	7	50.1	17	34.4	3	37.5
13457	33.7	4	40.2	4	52.4	5	34.1	6	37.2
13572	34.0	3	39.9	5	45.8	24	37.0	1	37.2
13751	32.3	6	39.7	6	50.8	13	34.2	5	36.2
13588	32.6	5	38.1	17	49.7	19	32.3	15	35.5
13625	30.2	7	39.3	9	50.8	14	33.6	8	35.0
13586	29.8	8	39.1	11	50.2	16	33.6	9	34.8
13569	27.8	12	40.7	2	56.4	1	32.9	12	34.7
13603	29.5	9	38.7	15	51.4	10	32.3	14	34.3
13657	28.1	11	39.0	12	48.3	22	34.3	4	33.8
13571	27.3	13	39.6	8	51.9	7	33.4	10	33.8
13463	24.1	20	41.0	1	55.1	2	34.0	7	33.0
13573	26.1	18	38.8	13	51.4	9	33.2	11	32.8
13100	26.6	15	37.3	19	49.5	20	31.2	20	32.3
12488	26.3	16	37.1	23	51.9	6	29.4	25	32.0
13465	25.6	19	37.1	22	48.7	21	31.3	19	31.7
13576	28.9	10	34.0	27	45.0	26	28.4	27	31.6
13589	22.0	23	39.3	10	52.4	4	32.7	13	31.1
13568	21.4	25	38.8	14	52.6	3	32.0	16	30.6
13332	26.3	17	34.2	25	45.3	25	28.6	26	30.5
13590	21.8	24	38.2	16	51.8	8	31.4	18	30.4
13653	26.8	14	32.5	29	42.3	29	27.6	29	29.8
13567	20.6	28	37.7	18	50.0	18	31.5	17	29.6
10003	20.9	26	37.2	21	51.3	11	30.1	22	29.5
13652	20.8	27	37.2	20	50.6	15	30.5	21	29.5
13462	22.6	22	35.6	24	47.6	23	29.5	24	29.5
13608	22.7	21	32.7	28	42.5	28	27.8	28	28.0
3641	16.6	29	29.5	30	36.3	30	26.1	30	23.4
13587	5.7	30	34.1	26	43.0	27	29.6	23	20.7
Mean	26.1		37.5		49.2		31.7		32.2
L.S.D.(5%)	2.3		2.2		4.8		2.3		1.6

Table 8 Average bushel weight for each of the 30 wheats, with averages for the Eastern and Western areas and in overall average

	TEST WEIGHT (pounds)							7 Eastern Stations	
C.I. No.	Madison	Morris	Crookston	Brookings	Watertown	Langdon	Casselton	Ave.	Rank
13655	61.8	58.8	60.7	55.2	59.5	61.5	61.0	59.8	1
13654	60.7	57.7	61.3	55.0	59.5	61.0	61.0	59.5	2
13588	59.7	58.3	60.3	53.3	58.8	60.5	60.5	58.8	3
13653	58.8	54.8	61.5	52.8	57.6	59.5	59.0	57.7	5
13572	58.7	57.2	61.3	53.9	59.3	59.5	59.5	58.5	4
13751	58.5	56.0	60.5	52.0	58.4	59.5	58.5	57.6	6
13657	57.4	57.8	60.5	52.8	58.8	58.5	56.5	57.5	7
13586	60.1	56.0	60.7	50.5	55.5	59.0	59.0	57.3	8
13457	59.5	55.8	60.3	52.3	55.5	58.5	57.0	57.0	9
13603	59.2	54.5	60.2	52.6	57.3	57.0	58.0	57.0	10
13569	57.5	53.8	60.8	50.2	55.6	57.5	56.0	55.9	14
13571	59.6	53.5	60.7	48.2	56.3	60.0	56.5	56.4	13
13625	57.6	56.0	60.0	51.6	58.1	58.5	57.0	57.0	11
13608	58.4	52.8	60.0	51.0	55.1	55.5	56.0	55.5	18
13462	58.0	52.2	59.3	50.8	55.4	57.0	57.0	55.7	16
12488	59.1	54.2	59.3	50.9	55.9	59.0	56.5	56.4	12
13576	56.5	54.2	60.2	48.1	56.4	58.5	57.5	55.9	15
13568	59.2	52.8	59.7	49.7	55.1	57.0	55.0	55.5	19
13332	56.0	53.8	59.8	48.9	54.1	58.0	55.0	55.1	20
13573	58.0	52.2	58.8	48.7	56.1	58.5	57.0	55.6	17
13567	57.0	51.2	59.2	47.4	54.3	57.0	54.0	54.3	23
13652	56.7	50.0	59.7	48.0	54.2	56.5	54.0	54.2	24
10003	56.8	53.5	59.0	49.3	54.6	57.0	52.0	54.6	21
13463	59.1	51.0	60.0	48.5	54.5	55.0	53.0	54.4	22
13465	57.4	54.0	60.3	46.7	44.9	58.0	57.0	54.0	25
13590	57.4	50.5	58.7	48.3	53.4	55.0	52.0	53.6	27
13100	55.9	53.0	59.0	48.0	52.4	57.5	52.5	54.0	26
13589	56.1	49.5	57.3	47.1	53.5	55.0	54.0	53.3	28
3641	48.1	52.2	58.5	47.0	52.5	45.0	56.0	51.3	29
13587	44.2	35.4*	37.0	32.4	36.3	37.7*	37.0*	37.1	30
Mean	57.4	53.4	59.2	49.7	55.0	56.9	55.8	55.3	

* Calculated value.

Table 8 (cont'd.)

C.I. No.	TEST WEIGHT (Pounds) Minot	Williston	Ft. Collins	Bozeman	Sidney	Laramie	Sheridan	Tetonia	Saskatoon	9 Western Stations Ave.	Rank	16 Regional Stations Ave.
13655	63.0	62.8	62.7	63.6	62.0	60.6	60.0	61.7	65.7	62.5	2	61.3
13654	63.0	63.2	62.7	62.7	62.0	61.6	61.0	61.8	65.7	62.6	1	61.2
13588	62.0	61.3	61.1	61.2	60.5	58.4	61.0	61.0	63.8	61.1	7	60.1
13653	62.0	63.0	62.4	62.6	62.0	57.1	62.0	60.4	65.5	61.9	3	60.1
13572	62.0	62.0	63.1	62.6	61.5	58.1	58.0	60.3	64.0	61.3	5	60.1
13751	62.0	62.0	60.6	61.9	61.5	59.1	61.0	61.0	65.2	61.6	4	59.9
13657	61.0	62.2	61.6	62.7	62.0	54.4	61.0	59.8	65.0	61.1	9	59.5
13586	61.0	61.5	62.6	62.1	62.0	58.3	59.0	60.0	64.3	61.2	6	59.5
13457	61.0	60.8	60.5	60.5	61.0	58.0	61.0	61.5	63.3	60.8	10	59.2
13603	60.0	61.7	60.0	60.8	61.0	56.8	61.0	59.9	62.5	60.4	15	58.9
13569	61.0	62.7	61.4	63.2	61.0	56.6	59.0	61.2	63.8	61.1	8	58.8
13571	60.0	62.2	61.5	62.4	61.0	54.0	59.0	59.8	64.8	60.5	12	58.7
13625	60.0	60.7	60.0	60.6	60.0	58.9	54.0	60.9	64.5	60.0	20	58.6
13608	59.0	62.0	60.7	60.9	60.5	57.1	62.0	58.8	63.9	60.5	11	58.4
13462	59.0	60.8	60.8	61.9	60.5	56.2	61.0	58.9	64.8	60.4	13	58.4
12488	59.0	61.7	61.0	59.2	60.0	55.6	58.0	59.9	63.3	59.7	22	58.3
13576	60.0	60.7	60.8	59.4	59.5	55.8	61.0	60.4	62.5	60.1	18	58.2
13568	59.0	61.8	60.9	62.8	61.0	55.1	59.0	58.5	64.4	60.3	17	58.2
13332	59.0	59.5	60.0	59.7	59.5	57.4	60.0	60.5	63.7	59.9	21	57.8
13573	60.0	60.3	60.7	60.9	60.0	56.2	54.0	58.9	64.1	59.5	26	57.8
13567	59.0	61.8	60.7	61.5	61.0	56.9	61.0	58.6	63.3	60.4	14	57.7
13652	58.0	61.7	60.4	62.2	61.0	54.7	61.0	60.1	64.6	60.4	16	57.7
10003	56.0	61.2	60.1	60.4	60.0	57.5	57.0	60.6	64.8	59.7	24	57.5
13463	59.0	60.3	61.1	60.7	60.5	55.3	57.0	60.2	63.5	59.7	23	57.4
13465	58.0	61.3	60.0	60.6	60.5	55.1	60.0	60.4	64.5	60.0	19	57.4
13590	58.0	60.2	60.2	61.5	60.0	53.7	59.0	58.0	64.8	59.5	25	56.9
13100	57.0	59.2	60.0	59.2	59.0	59.0	55.0	59.4	63.0	59.0	29	56.8
13589	57.0	60.7	60.7	61.9	60.5	52.3	58.0	57.0	63.5	59.1	28	56.5
3641	55.0	60.3	56.9	62.2	57.5	58.6	59.0	60.3	64.9	59.4	27	55.9
13587	43.0	60.2	55.7	61.6	54.5	51.0	59.0	57.6	64.5	56.3	30	47.9
Mean	59.1	61.3	60.7	61.4	60.4	56.6	59.3	59.9	64.2	60.3		58.2

Table 9 Averages of agronomic characters and insect data recorded on 30 spring wheats in the 1962 Uniform Regional Nursery

C. I. No.	Date of heading (July)			Height (inches)			Lodging Class (1-9)*			Sawfly percent	Bill Bug percent	Hessian fly (number)
	6 Eastern Stations	9 Western Stations	15 Regional Stations	7 Eastern Stations	7 Western Stations	14 Regional Stations	8 Eastern Stations	2 Western Stations	10 Regional Stations	1 Station	1 Station	1 Station
3641	2	4	4	39	35	37	2.4	1.0	2.2	8	-	85
10003	6/30	1	1	37	34	36	2.3	1.8	2.2	0	1	90
13100	1	1	1	36	33	35	1.5	1.1	1.4	4	2	116
12488	6/29	6/29	6/29	37	33	35	2.9	1.6	2.7	12	12	93
13332	6/29	6/30	6/30	35	33	34	2.2	2.0	2.1	4	1	116
13457	3	1	2	41	35	38	2.5	1.4	2.3	4	3	7
13463	6/30	6/29	6/29	36	33	35	2.6	2.0	2.5	0	12	158
13625	6/30	6/30	6/30	36	33	34	2.3	1.8	2.2	0	2	141
13586	1	2	2	40	36	38	2.4	2.4	2.4	0	1	147
13587	2	2	2	35	32	33	3.0	1.8	2.8	0	-	121
13588	1	6/30	6/30	38	35	36	1.8	1.2	1.7	4	2	46
13462	2	3	2	38	34	36	1.2	1.1	1.2	0	5	129
13603	2	3	2	40	36	38	1.4	1.1	1.4	8	2	82
13608	2	3	3	39	36	38	3.0	1.2	2.6	4	3	168
13567	2	3	2	37	34	35	1.8	1.1	1.7	24	2	186
13568	1	3	2	37	34	35	1.6	1.0	1.5	0	3	173
13569	3	2	2	42	38	40	2.1	1.6	2.0	0	7	156
13571	3	3	3	40	36	38	4.2	2.6	3.8	0	8	92
13589	1	3	2	36	34	35	1.3	1.0	1.2	0	12	111
13590	6/30	1	1	37	34	36	1.7	1.1	1.6	0	7	116
13652	6/30	1	1	38	34	36	1.5	1.0	1.4	0	10	162
13653	2	3	3	40	36	38	2.5	1.4	2.3	0	6	124
13572	2	3	3	40	36	38	2.2	1.1	2.0	0	1	187
13573	1	2	2	38	35	37	2.0	1.2	1.9	0	2	140
13576	6/30	6/30	6/30	36	35	36	5.1	1.9	4.5	0	15	99
13465	1	6/30	6/30	38	34	36	3.9	1.5	3.4	0	10	137
13654	6/30	1	1	40	36	38	3.2	1.2	2.8	0	4	89
13655	1	1	1	39	35	37	3.1	1.0	2.7	0	1	141
13751	6/30	1	6/30	37	33	35	3.3	1.2	2.8	0	1	125
13657	5	3	4	37	33	35	1.7	1.0	1.5	0	1	142

* 1 = Erect, 9 = Flat.

Table 10 Leaf and stem rust notes recorded on 30 spring wheats in the 1962 Uniform Regional Nursery at stations recording (T or trace – was computed at 0.2 percent)

C. I. No.	LEAF RUST										10 Station Average	Rank
	Madison	Morris	Crookston	Brookings	Watertown	Winnipeg	Langdon	Casselton	Minot	Williston		
3641	93	–	–	–	–	50	40	80	50	70	64	28
10003	83	80	70	100	100	80	70	100	80	50	81	30
13100	80	60	40	5	40	30	20	30	40	20	35	17
12488	70	80	50	5	100	30	30	30	65	5	46	23
13332	60	60	40	10	40	30	20	30	35	10	34	16
13457	10	30	30	1	10	T	T	2.5	1	5	9	11
13463	65	70	40	25	65	20	30	30	35	5	38	18
13625	25	10	25	T	T	1	5	8	30	5	11	12
13586	10	T	T	0	0	T	T	T	T	5	2	6
13587	98	80	80	100	100	70	60	100	90	10	79	29
13588	T	T	T	25	T	3	0	5	1	5	4	9
13462	25	40	40	10	5	5	20	30	60	1	24	15
13603	80	60	50	65	40	30	40	30	40	5	44	20
13608	65	60	70	65	100	30	60	40	90	5	58	27
13567	60	60	70	65	T	30	50	32	60	1	43	19
13568	50	60	70	65	100	20	20	28	50	1	46	22
13569	T	5	15	T	5	3	T	T	T	1	3	8
13571	10	15	40	10	T	2	2	40	0	1	12	13
13589	55	70	50	65	100	20	30	30	55	1	49	24
13590	20	60	20	5	10	30	10	12	10	1	17	14
13652	30	40	80	10	100	3	40	40	90	20	45	21
13653	55	60	40	100	100	50	40	60	50	5	56	26
13572	T	T	40	0	0	T	5	T	T	5	5	10
13573	0	T	5	0	0	T	T	T	T	1	0.7	5
13576	0	T	T	0	0	T	0	0	0	1	0.2	1
13465	60	70	60	65	100	40	40	50	70	1	56	25
13654	0	T	T	0	0	T	0	0	T	1	0.2	2
13655	0	T	T	0	0	T	0	T	T	1	0.2	3
13751	0	T	T	0	0	T	0	0	1	1	0.3	4
13657	0	T	5	0	0	T	0	0	10	1	2	7

Table 10(cont'd.)

C.I. No.	STEM RUST							7 Station Average	Rank
	Madison	Winnipeg	Langdon	Casselton	Minot	Williston	Sidney		
3641	70	80	100	70	40	50	60	69	30
10003	T	30	20	10	5	10	10	12	28
13100	T	T	0	T	0	0	T	0.1	14
12488	1	1	20	20	0	0	5	7	26
13332	T	T	0	0	0	0	T	0.1	10
13457	2	20	0	0	0	0	T	3	24
13463	1	T	0	0	0	0	T	0.2	15
13625	T	20	25	0	0	0	T	6	25
13586	T	T	0	0	0	0	T	0.1	10
13587	80	60	100	100	70	10	40	66	29
13588	0	0	0	0	0	0	T	0	1
13462	0	T	0	0	0	0	0	0	1
13603	8	10	30	5	0	0	5	8	27
13608	T	T	0	2	0	1	T	0.5	18
13567	T	T	0	5	0	0	0	0.8	19
13568	T	0	0	2	0	0	T	0.3	17
13569	0	0	0	0	0	0	0	0	1
13571	0	T	0	0	0	0	T	0.1	5
13589	T	T	0	10	0	0	T	2	23
13590	0	T	2	5	0	0	T	1	21
13652	0	T	0	0	0	0	T	0.1	5
13653	1	T	0	10	0	0	T	0.2	15
13572	T	T	0	0	0	0	T	0.1	10
13573	0	T	0	0	0	0	T	0.1	5
13576	T	10	0	0	0	0	T	1	22
13465	0	T	0	2	0	0	5	1	20
13654	0	T	T	0	0	0	T	0.1	10
13655	0	0	0	0	0	0	T	0.1	5
13751	0	T	0	0	0	0	T	0	1
13657	0	T	0	0	0	0	T	0.1	5

Table 11 Disease notes on the 30 wheats in the Uniform Regional Nursery in 1962

C.I.No.	Leaf Rust (Pct) Natural, 10 Stations	Leaf Rust (Pct) Rust Nursery St. Paul	Stem Rust (Pct) Natural, 7 Stations	Stem Rust (Pct) Rust Nursery St. Paul	Stripe Rust (Pct) Natural, 2 Stations	Mildew (Pct) Natural, 1 Station	Black Chaff (0-9)* Natural, 1 Station	Scab (1-4)* Natural, 1 Station	Pct. Disease Garden** St. Paul
3641	64	80	69	30	6	18	0	4	30
10003	81	80	12	30	0.6	25	0	3	20
13100	36	60	0.1	30	T	4	1.5	3	30
12488	46	60	7	30	3	3	0	3	20
13332	34	70	0.1	30	3	3	0.5	3	20
13457	9	T	3	20	12	13	1.1	2	20
13463	38	40	0.2	T-5	4	T	0	3	30
13625	11	5	6	10	T	12	0	3	20
13586	2	T	0.1	T-5	T	T	0.5	1	15
13587	79	80	66	50	25	5	0	3	50
13588	4	T	0	5	20	T	0.6	4	10
13462	24	5	0	5	T	1	0	4	30
13603	44	50	8	40	T	T	0.1	4	25
13608	85	15	0.5	10	2	0	0	4	30
13567	43	20	0.8	20	2	0	0	4	15
13568	46	5	0.3	5	4	T	0	3	25
13569	3	T	0	10	T	0	0	4	15
13571	12	5	0.1	10	T	3	0	4	20
13589	49	5	2	10	1	0	0	4	30
13590	17	5	1	T-5	3	0	0	4	15
13652	45	60	0.1	20	4	T	0	4	40
13653	56	60	0.2	10	22	13	0	4	20
13572	5	T	0.1	T	T	0	0	4	15
13573	0.7	T	0.1	T	4	1	0.1	4	30
13576	0.2	T	1	T	0.5	T	1.0	3	20
13465	56	50	1	10	3	T	0	3	30
13654	0.2	T	0.1	T	8	0	0.1	1	20
13655	0.2	T	0.1	T	8	0	0	2	15
13751	0.3	T	0	T	T	1	0	3	25
13657	2	T	0.1	T	T	0	0	4	20

* Low number best.

** Disease Garden notes furnished by Dr. K. Fezer of the Department of Plant Pathology, Institute of Agriculture, St. Paul, Minn.