

UNIFORM REGIONAL NURSERY, 1960

The twenty-ninth Uniform Regional Nursery was seeded in 1960 at 20 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, Concord, Nebraska, was seeded this year.

The list of the spring wheats included in the Uniform Regional Nursery for 1960 is as follows:

Key No.	Variety or Cross	Old or New	Included by	Station developing	State or N. S. No.	C.I.No.
1	Marquis	Old				3641
2	Thatcher	"				10003
3	Selkirk	"				13100
4	Lee	"				12488
5	Conley	"				13157
6	Pembina	"	Canada	Winnipeg	C.T.229	13332
7	Henry ⁷ x P. I. 94587	"	Wis.	Madison	Wis. 253	13457
8	Lee ² x Kenya Farmer	New	Canada	Winnipeg	RL 2938	13463
9	To ² x Frontana-Thatcher	"	"	"	RL 4009	13464
10	II-44-29 x Lee ³	Old	Minn.	St. Paul	II-53-562	13458
11	"	"	"	"	-567	13416
12	KT-To ³ x II-44-29-To ²	New	"	"	-404	13465
13	Ftn-To ³ x II-44-29-To ²	"	"	"	-525	13466
14	Conley x ND 40-2	Old	N.Dak.	Fargo	ND 102	13462
15	ND 81 x Lee	"	"	"	ND 137	13349
16	Lee x ND 34	"	"	"	ND 138-1	13461
17	ND 81 x Conley	"	"	"	ND 153	13452
18	(Lee x ND 81 sib) x Lee	"	"	"	ND 162	13453
19	ND 81 sib x ND 1	New	"	"	ND 208	13603
20	Conley x ND 81	"	"	"	ND 218	13604
21	ND 81 sib x Conley	"	"	"	ND 220	13605
22	ND 81 sib x Conley ²	"	"	"	ND 223	13606
23	N2350 x [(Rmr-KF) x Ns 3880]	"	"	"	ND 235	13607
24	ND 81 sib x Conley	"	"	"	ND 256	13608

Yields, Bushel Weights, and Disease Resistance

Data on 1960 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 dry), 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 8-1 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 9, and disease notes are given in table 10.

Yields were variable at the stations, depending on the amount of moisture. Rather low yields were produced at Dickinson, N. Dak., Akron, Colo., Sheridan, Wyo., and Tetonia, Idaho. Good yields were produced at many stations as shown by an average yield of 31.0 bushels. C. I. 13463, C. I. 13457, and C. I. 13603 were the highest yielding varieties over the entire area.

Bushel weights were fair to good in 1960. C. I. 13466 had the highest bushel weight.

There was considerable leaf rust infection at most of the stations in the eastern section of the area. The 3 most resistant varieties were C. I. 13466, C. I. 13464, and C. I. 13605. The heaviest epidemics developed at Concord, Nebr., and Winnipeg, Can.

Stem rust was very light over the entire region, with the heaviest infections at Concord, Nebr., and Winnipeg, Can.

The Disease Garden data given in table 10 are furnished through cooperation with the Department of Plant Pathology of the Institute of Agriculture, St. Paul, Minn. A good epidemic of both rusts was obtained in the Rust Nurseries where infection was induced by artificial inoculation.

Table 5 Station and average yield per acre (bushel) of 24 spring wheats grown in the Uniform Regional Nursery in 1960, ranked in order of their average yield at all stations*

C.I.No.	Madison,Wis.	St.Paul,Minn.	Morris,Minn.	Crookston,Minn.	Concord,Nebr.	Fargo,N.D.	Casselton,N.D.	Langdon,N.D.	Dickinson,N.D.	Minot,N.D.	Brookings,S.D.	Watertown,S.D.	Higmore,S.D.**	Fort Collins,Colo.	Akron,Colo.***	Bozeman,Mont.	Sidney,Mont.	Laramie,Wyo.	Sheridan,Wyo.	Teton,Ida.	Saskatoon,Sask.	Winthrop,Man.	Average
13463	36.7	38.1	38.1	43.9	22.8	40.1	29.1	46.7	12.7	28.1	36.1	21.2	25.8	56.5	16.2	55.3	25.3	63.2	17.9	19.1	35.4	53.8	34.6
13457	36.7	43.5	38.0	39.4	32.1	47.3	28.9	43.3	13.4	32.2	36.5	22.8	19.3	54.7	9.4	48.9	24.5	57.4	17.6	18.7	29.1	56.5	34.1
13603	32.8	53.9	30.3	37.4	26.7	47.9	27.3	46.8	14.7	32.9	30.4	20.3	22.5	49.9	5.6	43.1	20.2	53.6	17.9	15.6	37.1	54.6	32.8
13455	31.6	46.2	36.6	39.3	27.0	36.6	25.2	34.0	15.4	29.6	32.0	29.3	26.6	44.7	10.0	48.1	21.5	60.0	16.8	19.0	36.0	52.6	32.6
13458	33.0	34.2	35.8	43.9	26.0	31.6	28.3	34.7	11.1	26.7	38.8	26.6	27.5	56.5	8.9	47.0	21.4	65.1	17.7	17.3	30.5	52.0	32.5
12488	29.7	38.3	36.3	36.2	23.6	40.8	22.7	42.0	15.5	27.4	33.0	24.3	25.2	52.7	7.5	50.2	20.6	61.4	18.5	20.4	33.9	52.1	32.4
13453	33.5	43.3	31.9	40.0	24.6	35.3	28.6	42.2	14.5	33.8	32.4	17.6	27.7	53.6	8.8	46.0	22.0	60.8	16.2	18.5	34.4	50.1	32.4
13416	35.1	46.1	35.1	35.4	25.3	35.4	31.9	26.7	11.7	29.3	34.3	18.1	25.1	53.5	5.9	44.6	24.7	61.8	17.8	17.6	40.8	45.7	32.0
13466	30.0	46.6	30.4	28.7	28.0	35.1	27.9	41.5	11.7	29.3	34.3	27.5	27.8	43.8	9.6	44.6	19.8	59.6	19.0	15.5	28.0	45.7	31.6
13606	33.0	34.4	31.8	39.8	27.6	34.0	24.1	43.5	13.1	27.0	32.6	29.4	21.3	51.8	6.3	46.8	20.4	59.8	18.0	16.8	30.1	53.2	31.6
13349	32.5	43.0	29.5	36.4	21.5	43.4	30.7	40.7	12.9	26.0	29.8	27.3	21.1	48.5	10.7	42.1	23.3	58.6	17.8	13.6	33.3	49.8	31.5
13605	28.9	50.4	26.5	34.7	27.4	46.4	32.5	39.0	10.6	24.0	29.7	20.9	24.0	45.0	7.8	42.7	15.3	58.6	15.0	15.4	35.9	46.8	31.2
13607	30.9	46.9	24.2	31.8	26.9	43.4	35.7	41.1	16.2	27.2	36.4	29.2	23.2	42.6	14.6	49.8	20.2	51.0	15.6	15.6	40.3	49.4	31.1
13461	26.8	52.6	24.2	35.0	11.9	37.7	28.4	42.2	12.9	25.5	26.1	21.1	28.1	56.2	8.5	44.7	18.5	51.4	18.1	15.9	33.9	49.4	30.9
13332	32.1	50.5	28.5	28.7	27.9	36.0	27.3	29.6	14.3	28.0	37.8	22.4	26.3	49.9	6.1	41.8	20.1	50.4	16.5	15.6	26.7	49.7	30.6
13464	33.1	40.9	29.7	37.0	28.8	46.2	27.0	35.4	15.7	33.3	34.0	20.2	26.5	37.5	10.1	39.1	18.6	54.0	20.0	17.0	29.0	46.8	30.5
13462	28.2	48.3	31.8	30.2	24.8	36.0	25.3	42.7	13.7	27.6	27.3	28.4	23.4	48.5	12.5	37.8	20.0	58.7	18.0	16.1	32.0	40.9	30.1
13452	26.0	45.1	29.1	37.5	26.7	42.1	24.3	36.6	14.0	30.4	28.9	16.6	19.5	48.5	3.8	40.8	19.1	51.8	15.1	16.8	31.1	50.5	29.9
13100	28.4	39.1	35.0	32.4	28.3	36.3	29.0	37.5	11.0	28.6	34.3	21.7	17.9	53.7	7.8	44.9	20.8	64.6	16.8	16.9	30.3	46.8	29.7
10003	25.9	36.0	27.9	35.3	22.3	27.8	24.3	46.6	12.9	22.9	28.9	21.5	15.1	50.4	4.2	44.7	22.5	53.8	17.8	13.0	25.8	48.3	29.3
13604	28.0	45.7	28.0	32.4	24.2	42.0	19.9	42.7	11.7	26.8	23.5	19.5	19.3	50.4	5.9	33.3	18.0	54.4	15.9	15.7	30.7	44.6	28.6
13608	26.7	37.7	27.4	38.3	23.5	33.8	26.1	35.0	14.8	31.0	28.0	23.4	18.1	48.0	6.2	33.8	20.2	47.8	18.7	15.0	28.8	50.9	26.9
13157	28.4	36.8	28.5	27.8	20.1	32.5	23.0	34.9	12.7	29.1	23.1	18.8	17.8	37.5	2.6	37.9	18.8	56.4	18.8	17.2	33.8	37.2	25.9
3641	16.1	46.9	30.3	34.8	25.3	15.2	12.7	35.4	13.7	28.7	19.0	6.7	11.3	50.5	2.6	37.9	18.8	56.4	18.8	17.2	33.8	37.2	25.9
Mean	30.2	43.5	31.1	35.7	25.1	37.4	26.6	39.3	13.5	28.5	31.7	22.8	22.3	49.3	8.2	43.9	20.7	56.8	17.5	16.6	32.4	49.8	31.0
L.S.D. (5%)	4.1	7.3	4.9	10.2	5.2	8.8	3.3	8.4	4.7	7.6	5.7	8.8	—	9.1	5.6	5.5	2.6	8.0	N.S.	3.6	N.S.	7.3	1.5

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

** Not replicated.

*** C.I. 13332 (Pembina) calculated yield.

Table 6 Average yield and rank for each of the 24 spring wheats grown in the Uniform Regional Nursery in 1960*

C.I.No.	Wisconsin		Minnesota		Nebraska		N.Dakota		S.Dakota		Colorado		Montana		Wyoming		Idaho		Canada		Average	
	Yield Rank	Yield	Yield Rank	Yield	Yield Rank	Yield	Yield Rank	Yield	Yield Rank	Yield	Yield Rank	Yield	Yield Rank	Yield	Yield Rank	Yield	Yield Rank	Yield Rank	Yield Rank	Yield Rank	Yield Rank	Yield Rank
13463	36.7	1	40.0	4	22.8	20	31.3	5	27.7	7	36.4	1	40.3	1	40.6	3	19.1	2	44.6	3	34.6	1
13457	36.7	2	40.3	3	32.1	1	33.0	2	26.2	12	32.0	4	36.7	2	37.5	14	18.7	4	42.8	9	34.1	2
13603	32.8	8	40.5	2	26.7	11	33.9	1	24.4	18	27.8	14	31.6	15	35.8	16	15.6	17	45.8	1	32.8	3
13465	31.6	11	40.7	1	27.0	8	28.2	17	29.3	4	32.7	16	34.8	5	38.4	11	19.0	3	44.3	4	32.6	4
13458	33.0	7	38.0	7	26.0	12	26.5	22	31.0	1	32.7	3	34.2	7	41.4	1	17.3	7	41.2	15	32.5	5
12488	29.7	14	36.9	12	23.6	18	29.7	9	27.5	8	30.1	10	35.4	3	39.5	6	20.4	1	43.0	7	32.4	6
13453	33.5	4	38.4	6	24.6	16	30.9	6	25.2	14	31.2	5	33.0	11	38.5	9	18.5	5	42.2	10	32.4	7
13416	35.1	3	38.9	5	25.3	13	26.7	21	27.1	9	30.8	6	34.0	8	39.8	4	17.6	6	43.2	5	32.0	8
13466	30.0	13	35.2	20	28.0	4	29.1	12	29.9	2	24.8	22	34.6	6	39.8	5	15.5	20	42.8	8	31.8	9
13606	33.0	6	35.3	19	27.6	6	28.3	16	27.8	6	30.7	8	32.2	14	39.3	7	16.8	12	41.6	11	31.6	10
13349	32.5	9	36.3	14	21.5	22	30.7	7	26.1	13	27.4	15	33.6	9	38.9	8	15.7	15	41.6	13	31.5	11
13605	28.9	15	37.2	11	27.4	7	30.5	8	24.9	16	27.8	13	32.7	13	38.2	12	13.6	23	43.2	6	31.4	12
13607	30.9	12	35.1	21	26.9	9	32.7	3	29.6	3	25.2	21	29.0	19	31.9	24	15.4	21	41.4	14	31.2	13
13461	26.8	20	37.3	9	11.9	24	29.3	11	25.1	15	35.4	2	35.0	4	33.3	23	15.6	18	44.8	2	31.1	14
13332	32.1	10	35.9	15	27.9	5	27.0	19	28.8	5	29.2	12	32.6	16	34.8	19	15.9	14	41.6	12	30.9	15
13464	33.1	5	35.9	16	28.8	2	31.5	4	26.9	10	21.8	24	31.0	17	33.5	21	15.6	19	38.2	19	30.6	16
13462	28.2	18	36.8	13	24.8	15	29.1	13	26.4	11	29.3	11	28.8	21	37.0	15	17.0	9	37.9	20	30.5	17
13452	26.0	22	37.2	10	26.7	10	29.5	10	21.7	21	30.5	9	28.9	20	38.4	10	16.1	13	36.4	23	30.1	18
13100	28.4	17	35.5	17	28.3	3	28.5	15	24.6	17	26.8	19	30.0	18	33.5	20	16.8	11	40.8	16	29.9	19
10003	25.9	23	33.1	23	22.3	21	26.9	20	23.8	19	30.8	7	32.8	12	40.7	2	16.9	10	38.6	18	29.7	20
13604	28.0	19	35.4	18	24.2	17	28.6	14	20.8	22	27.3	17	33.6	10	35.8	17	13.0	24	37.0	22	29.3	21
13608	26.7	21	34.5	22	23.5	19	28.1	18	23.2	20	27.0	18	25.6	24	35.2	18	15.7	16	37.6	21	28.6	22
13157	28.4	16	31.0	24	20.1	23	26.4	23	19.9	23	21.8	23	27.0	23	33.3	22	15.0	22	39.8	17	26.9	23
3641	16.1	24	37.3	8	25.3	14	21.1	24	12.3	24	26.6	20	28.4	22	37.6	13	17.2	8	35.5	24	25.9	24

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

** Not replicated.

*** C.I. 13332 (Pembina) calculated yield.

Table 7 Average yield of the Uniform Regional Nursery wheats at Eastern, Western, Western Dryland, and Western Irrigated Stations in 1960

C.I.No.	12 Eastern Stations		10 Western Stations		3 Western Irrigated Stations		7 Western Dryland Stations		22 Regional Stations
	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	
13463	36.0	2	33.0	1	58.3	1	22.1	1	34.6
13457	37.0	1	30.6	4	53.7	5	20.7	5	34.1
13603	35.9	3	29.1	11	48.9	14	20.6	7	32.8
13465	34.8	5	30.1	8	50.9	11	21.2	2	32.6
13458	34.4	8	30.2	6	56.2	2	19.1	14	32.5
12488	33.7	13	30.8	2	54.8	3	20.5	8	32.4
13453	33.8	11	30.7	3	53.4	6	20.9	4	32.4
13416	33.2	14	30.6	5	53.0	7	21.0	3	32.0
13466	34.6	7	28.3	15	50.1	12	19.0	16	31.8
13606	33.7	12	29.1	10	52.0	9	19.3	11	31.6
13349	33.8	10	28.8	13	51.7	10	18.9	18	31.5
13605	34.7	6	27.5	18	48.6	16	18.5	21	31.4
13607	34.9	4	26.7	22	44.7	22	19.0	17	31.2
13461	32.0	18	30.2	7	52.3	8	20.7	6	31.1
13332	33.0	15	28.3	14	48.7	15	19.6	10	30.9
13464	34.0	9	26.4	23	43.2	23	19.1	13	30.6
13462	32.8	16	27.8	17	47.5	19	19.3	12	30.5
13452	31.1	20	28.8	12	48.3	17	20.4	9	30.1
13100	32.5	17	26.8	20	47.5	20	17.9	23	29.9
10003	30.1	22	29.2	9	54.4	4	18.3	22	29.7
13604	31.1	19	27.1	19	49.6	13	17.4	24	29.3
13608	30.2	21	26.8	21	45.2	21	18.9	19	28.6
13157	28.6	23	25.0	24	39.7	24	18.7	20	26.9
3641	24.2	24	27.8	16	48.3	18	19.1	15	25.9

Table 8 Average bushel weight for each of the 24 wheats, with averages for the Eastern and Western areas and an overall average

C.I. No.	Madison	St. Paul	Morris	Crookston	Concord	TEST WEIGHT (Pounds)*					Water-town	Highmore	Stations Ave.	Rank
						Fargo	Casselton	Langdon	Brookings					
3641	51.7	56.3	56.7	59.2	56.5	49.0	53.0	60.0	52.8	40.8	52.0	53.5	24	
10003	56.6	56.5	57.0	61.2	56.5	53.0	57.5	60.0	56.0	53.0	49.8	56.1	20	
13100	54.6	56.5	56.8	59.5	57.0	54.5	56.0	57.0	54.4	51.0	49.0	55.1	23	
12488	57.2	56.3	58.2	61.7	57.5	55.0	58.0	59.0	57.6	51.1	54.1	56.9	12	
13157	56.7	56.2	57.7	60.3	57.5	54.0	56.5	58.5	54.0	51.4	51.0	55.8	22	
13332	57.0	57.0	57.5	60.2	58.0	56.5	57.5	58.5	57.0	51.6	52.8	56.7	14	
13457	57.6	57.7	59.5	61.3	59.6	56.0	61.0	60.0	57.0	52.6	52.5	57.7	4	
13463	57.8	56.2	59.0	61.0	56.5	56.0	57.5	59.0	56.0	52.2	48.9	56.4	18	
13464	57.4	57.5	59.2	61.5	59.5	57.0	59.5	58.5	57.8	55.0	55.6	58.0	2	
13458	58.0	56.2	59.2	62.0	58.0	55.5	60.0	57.0	57.0	54.5	55.0	57.5	6	
13416	57.8	55.3	58.0	60.0	58.0	55.0	59.0	56.0	56.0	52.2	52.8	56.4	19	
13465	57.1	57.0	58.0	60.3	59.5	56.5	60.0	57.5	56.0	53.1	53.2	57.1	9	
13466	58.5	59.3	59.5	61.5	59.5	54.0	57.5	59.0	59.4	55.2	55.8	58.1	1	
13462	57.8	58.2	58.3	60.5	55.5	56.5	58.5	59.5	56.0	54.8	50.0	56.9	13	
13349	57.2	57.3	57.2	59.7	57.0	56.5	59.0	58.5	55.0	51.8	52.9	56.6	16	
13461	56.2	57.7	56.7	60.5	53.0	57.5	60.0	59.0	55.5	54.1	56.0	56.9	10	
13452	57.6	56.8	58.2	60.3	56.5	56.5	59.0	59.0	54.9	51.6	50.8	56.5	17	
13453	58.2	57.2	58.3	60.8	57.5	55.5	59.0	59.5	57.0	52.7	50.4	56.9	11	
13603	57.8	57.8	58.5	60.2	58.0	56.5	59.5	59.0	56.9	55.8	50.1	57.3	8	
13604	57.5	55.8	58.2	61.2	56.0	55.0	58.5	58.5	52.8	51.4	51.0	56.0	21	
13605	57.5	57.0	57.8	60.7	58.0	56.0	58.5	58.5	55.2	53.3	50.0	56.6	15	
13606	58.4	57.0	59.2	62.3	59.5	56.0	60.0	60.0	56.6	53.4	51.9	57.7	5	
13607	57.8	58.5	59.3	61.8	58.5	56.5	60.5	60.0	58.6	55.0	50.0	57.9	3	
13608	57.7	56.8	58.2	61.2	58.5	57.0	58.5	60.0	56.6	54.7	51.9	57.4	7	

* No test weights from Winnipeg and Tetonla.

** Estimated test weight.

Table 8 cont'd.

C.I.No.	Minot	Dickinson	Rt.Collins	Akron	Bozeman	TEST WEIGHT(Pounds)				Western Stations		Regional Stations	
						Sidney	Iaramle	Sheridan	Saskatoon	Ave.	Rank	Ave.	Rank
3641	60.0	55.0	62.6	55.0	59.6	57.1	60.4	52.0	62.1	58.2	2	55.6	23
10003	59.0	54.0	61.8	56.5	58.0	55.5	58.9	45.0	57.1	56.2	23	56.1	22
13100	58.0	49.5	60.3	52.0	57.2	53.5	58.4	54.0	55.0	55.4	24	55.1	24
12488	59.0	52.5	62.7	57.5	58.6	55.0	55.3	59.0	59.5	57.6	7	57.2	11
13157	58.5	51.0	60.7	55.5	58.0	54.0	56.8	58.0	57.8	56.7	18	56.2	20
13332	58.0	50.5	60.9	57.9**	57.3	54.5	57.1	52.0	58.0	56.2	22	56.5	19
13457	59.5	52.0	62.7	56.5	58.0	57.0	57.6	58.0	58.7	57.7	6	57.7	2
13463	58.5	50.0	62.0	56.5	57.9	56.0	54.9	58.0	60.0	57.2	11	56.7	16
13464	58.0	50.5	59.9	54.5	57.6	56.0	56.2	57.0	59.5	56.6	19	57.4	7
13458	58.5	51.5	62.3	56.0	58.3	57.0	57.0	56.0	57.0	57.1	14	57.3	10
13416	58.0	51.5	61.4	55.5	57.7	56.5	56.9	58.0	59.1	57.2	12	56.7	17
13465	59.0	53.5	61.7	56.0	57.6	55.0	55.7	59.0	60.6	57.6	8	57.3	9
13466	59.5	51.5	61.2	57.5	58.9	57.0	58.2	45.0	60.2	56.6	20	57.4	5
13462	58.5	52.0	60.2	57.0	58.5	55.0	57.3	54.0	59.7	56.9	17	56.9	13
13349	58.5	53.0	61.1	55.0	57.7	55.0	56.0	57.0	60.6	57.1	13	56.8	14
13461	59.5	56.0	62.2	57.0	59.8	57.0	55.3	53.0	62.1	58.0	4	57.4	6
13452	59.0	52.0	61.2	54.5	58.1	56.0	55.3	57.0	59.1	56.9	16	56.7	18
13453	59.0	52.5	62.1	56.0	57.9	55.0	55.3	58.0	59.2	57.2	10	57.1	12
13603	60.0	53.0	60.8	57.0	58.9	56.0	57.5	58.0	61.7	58.1	3	57.6	4
13604	59.0	49.0	60.8	55.5	58.3	56.0	56.8	55.0	57.7	56.5	21	56.2	21
13605	58.5	48.0	62.0	57.0	58.1	56.0	56.8	57.0	59.4	57.0	15	56.8	15
13606	61.0	50.0	61.9	58.0	58.4	57.0	56.8	57.0	59.3	57.7	5	57.7	3
13607	60.0	52.5	61.8	57.5	58.7	56.0	57.4	59.0	61.5	58.3	1	58.0	1
13608	59.0	49.5	61.7	56.0	57.4	55.0	58.2	59.0	60.8	57.4	9	57.4	8

Table 8-1 Averages by sections for date of heading, height, lodging class and shattering

C.I.No.	Date of Heading			Height (inches)			Lodging Class (1-9)*			Shattering %
	11	10	21	12	9	21	6	3	9	
	Eastern Stations	Western Stations	Regional Stations	Eastern Stations	Western Stations	Regional Stations	Eastern Stations	Western Stations	Regional Stations	
3641	7/3	7/4	7/4	40	34	37	4.0	1.5	3.2	1
10003	6/30	7/2	7/1	38	32	35	3.3	1.4	2.7	1
13100	7/1	7/2	7/1	37	31	35	2.9	1.1	2.3	1
12488	6/29	6/29	6/29	37	32	35	4.6	1.0	3.3	2
13157	7/4	7/5	7/5	40	34	37	3.8	1.0	2.9	10
13332	6/30	7/1	6/30	37	30	34	3.2	1.8	2.7	1
13457	7/2	6/30	7/1	41	33	37	4.2	1.9	3.5	0
13463	6/29	6/29	6/29	37	32	35	3.6	1.5	2.9	2
13464	7/1	7/3	7/2	41	34	38	2.8	1.0	2.2	1
13458	6/29	6/30	6/30	40	34	37	5.6	2.7	4.7	0
13416	6/30	7/1	7/1	40	34	37	6.2	3.9	5.4	1
13465	6/30	7/1	6/30	40	33	37	4.6	1.4	3.5	1
13466	7/1	7/2	7/1	39	32	36	3.9	1.2	3.0	0
13462	7/3	7/3	7/3	40	34	37	2.0	1.0	1.7	3
13349	7/1	7/1	7/1	38	32	35	2.4	1.0	2.0	3
13461	6/29	6/29	6/29	37	30	33	1.5	1.0	1.3	0
13452	7/2	7/2	7/2	40	34	37	3.5	1.2	2.7	40
13453	7/1	7/1	7/1	38	32	35	3.7	1.2	2.9	5
13603	7/2	7/2	7/2	40	33	37	2.7	1.0	2.1	7
13604	7/3	7/5	7/4	39	31	35	2.0	1.0	1.7	1
13605	7/2	7/5	7/3	41	34	38	2.3	1.0	1.9	15
13606	7/2	7/3	7/3	39	33	37	5.1	2.0	4.0	0
13607	6/29	6/29	6/29	39	32	36	3.8	1.7	3.1	6
13608	7/1	7/2	7/2	40	33	37	3.7	1.0	2.8	30

* 1 = No. lodging.
9 = Flat.

Table 9 - 1

STEM RUST												
C.I.No.	Madison	Morris	Crockston	Concord	Fargo	Casselton	Langdon	Brookings	Watertown	Highmore	Winnipeg	Average Rank
3641	55	50	30	75S	80	90	50	45	50	10	80S	60.5
10003	1	T	T	40MR-MS	0	5	5	6	10	T	50S	10.7
13100	0	T	0	10MR	0	0	2	T	0	0	1R 5M	1.4
12488	3	T	0	35MS	0	0	0	5	4	T	40S	8.1
13157	0	T	0	10MR	0	0	0	0	T	0	1R	1.0
13332	0	0	0	10MR	0	0	0	1	0	0	TR 1M	1.1
13457	1	5	0	5MR	0	0	0	3	9	0	60S	7.5
13463	T	0	0	10 MR-MS	0	0	0	2	0	0	5M	1.6
13464	0	T	0	5MR	0	0	0	T	0	0	TR	0.5
13458	0	0	0	5MR-MS	0	0	0	0	T	0	TR	0.5
13416	0	0	0	5MR	0	0	0	0	0	0	LMR	0.6
13465	0	0	0	10MR	0	0	0	T	5	0	TR	1.4
13466	0	0	0	TR	0	0	0	0	T	0	TR	0.1
13462	0	0	0	2R	0	0	0	0	T	0	TR	0.2
13349	2	0	0	TR	0	0	0	0	T	0	TR	0.5
13461	1	0	0	10MR	0	0	0	T	2	0	1R	1.2
13452	T	0	0	10MR	0	0	0	T	1	0	1R	1.1
13453	1	0	0	5MR	0	0	0	1	2	0	1R	0.9
13603	1	0	0	25MS	0	0	0	1	4	0	30MS	6.3
13604	4	0	0	10MR	0	0	0	T	1	0	TR	1.0
13605	0	0	0	2R	0	0	0	T	1	0	2R	0.6
13606	T	0	0	15MS	0	0	0	T	1	0	TR	1.5
13607	T	T	0	20MS	0	0	0	T	10	0	3R	3.9
13608	T	0	0	10MR-MS	0	0	0	2	3	0	1R	1.5

