

Hard Spring Wheat Trial - 1953

Trials with hard spring wheat at the Dickinson Experiment Station in 1953 included field plot trials of twenty-two varieties and selections, the Uniform Regional Spring Wheat Nursery which this year contained twenty-six entries, Series 894 from Dr. L.R. Waldron which included forty varieties and selections, the Dickinson Advanced Station Nursery of twenty varieties and selections, the Dickinson Series 500 Nursery of twenty-five entries, the Dickinson Station Spring Wheat Nursery which included one hundred and fifteen varieties, strains, and selections, and the Uniform Spring Wheat Bunt Nursery which included fifty-eight entries.

Wheat Variety Trials

Stem rust race 15B took a heavy toll of both yield and test weight in the wheat variety trials at Dickinson this year. High yielder was C.T. 186, McMurachy - Exchange x Redman³, which averaged 28.2 bushels per acre and weighed 58.0 pounds per bushel. Ranking second was Minnesota 2824, Thatcher x Supresa, with an average of 23.4 bushels per acre of 58.5 pound grain. Rushmore and Lee ranked third and fourth respectively with yields of 23.0 and 22.5 bushels per acre. Ns. 3880, Lee x Mida - sib, was fifth with a yield of 21.7 bushels per acre. Mida ranked fifteenth with an average of 15.1 bushels per acre and a test weight of 53.5 bushels per acre, Thatcher ranked eleventh with a yield of 16.6 bushels per acre, Pilot ranked twelfth at 15.9 bushels per acre, and Cadet ranked sixth with a yield of 18.8 bushels per acre.

Nugget durum was the poorest yielder in this trial, producing an average of 6.2 bushels per acre of 48.5 pound grain. Mindum durum averaged 7 bushels per acre and Ld 356, Ld 3089 x Nugget, averaged 17.5 bushels of 58 pound grain.

Data from the 1953 Wheat Variety Trials are presented in [table 23](#).

Comparative yields for the Wheat Variety Trials from 1944 through 1943 with averages since 1944 are summarized in [table 24](#).

Nursery Trials

Yields were exceptionally high in the Uniform Regional Spring Wheat Nursery which was seeded on April 23 this year. Frontana x Thatcher, C.I. 14046, averaged 32.2 bushels per acre of 58.0 grain to rank first in yield. Ranking second in this trial was Rushmore² x Supresa, C.I. 12792, at 30.8 bushels per acre and third in order of yield was Kenya - Gular - Pilot x K58 - A - Newthatch, C.I. 13047, at 30.4 bushels per acre. Ranking fourth and fifth in the order of yield were Rushmore² x Supresa, C.I. 12973 and Henry x Cadet, C.I. 12966, with respective yields of 30.3 and 30.0 bushels per acre.

Stem rust infection varied from a low of 15% to a high of 80%, with no entries being completely free from rust.

Date of seeding made a noticeable difference in yields this year with the earlier seedings having the advantage. For example, in the Uniform Regional Spring Wheat Nursery seeded on April 23, C.T. 186 averaged 28.8 bushels per acre while in the Series 894 Nursery which was seeded on May 8, C.T. 186 averaged 22.9 bushels per acre, nearly 6 bushels less.

Date from the 1953 Uniform Regional Spring Wheat Nursery planting at Dickinson are summarized in [table 25](#).

Top yielders in the Series 894 Nursery planting this year were: first, Timstein x Henry, Il-44-65, which produced a yield of 24.1 bushels per acre, second, Lee x Mida sib, NS 3880 - 191 at 23.8 bushels per acre, third was C.T. 186 yielding 22.9 bushels per acre, fourth was Ns 3880-83 at 22.6 bushels per acre and fifth was Ns 3880-128 yielding 22.4 bushels per acre. Mida and Lee, used as checks in this trial, produced respective yields of 14.6 and 18.5 bushels per acre.

Date from the Series 894 planting at Dickinson are summarized in [table 26](#).

Considering the amount of stem rust present, there were some surprisingly good yields in the Dickinson Series 500

Nursery planting this year. Ranking first in order of yield was DS 118, N. No. 1556 x N. No. 1563, which averaged 22.3 bushels per acre. Second from the top was DS 119, N. No. 1552 x Pilot, which produced a yield of 22.0 bushels per acre. Third and fourth place went to DS 284 and DS 249 with average yields of 21.3 and 20.3 bushels per acre respectively. Fifth in order of yield was DS 131, 1552 x Pilot, which averaged 20.3 bushels per acre also. Mida and Lee, used as checks in this trial, produced respective average yields of 16.4 and 19.1 bushels per acre.

Data from the Series 500 Nursery planting at Dickinson for 1953 are summarized in [table 27](#).

C.T. 186, used as a check in the Dickinson Spring Wheat Nursery this year, produced an average yield of 19.7 bushels per acre, and this was high for the nursery excepting for two selections from the cross N. No. 1552 x Pilot, 40.5 A1-1-3-1 and 40.5 A1-3-4 which produced 20.0 and 19.8 bushels per acre respectively. All other entries yielded less than the C.T. 186 check, with the lowest yield being recorded from a selection out of the cross Wisconsin 240 x Rescue which produced 6.4 bushels per acre of 49.0 pound grain.

Stem rust was generally severe in this nursery which was seeded on the 9th of May, with percentages running from a trace infection on C.T. 186 to a very infection of 50% and above from many of the Dickinson selections.

Data from the Dickinson Spring Wheat Nursery plantings in 1953 are summarized in tables [28](#) and [29](#).

Bunt infection was comparatively light in the Spring Wheat Uniform Bunt Nursery planting at Dickinson this year. Highest average infection in the nursery was recorded for Ulka at 24% with most of the entries showing 0 infection. Only 8 entries in this year's trial were infected with a bunt to a percentage of 10% or more. Data from the Spring Wheat Uniform Bunt Nursery planting at Dickinson for 1953 are presented in [table 30](#).

Table 23 - Agronomic Data from Wheat Variety Trials - 1953							
Date Seeded - 4-21-53							
Date Emerged - 5-10-53							
Rate - 1 BPA							
Plot Size - 1/66 Acre							
					Dates		% Stem

Key No.	Description	C.I. or N.						rest Wt.			Ht. In.	% Stem Rust	Rank
			1	2	3	4	Av.		1 st Head	Ripe			
1	1764 x Henry	2211	13.8	15.4	15.1	17.6	15.5	53.0	7-4	8-10	35	80	14
2	Rushmore	SD.2280	22.0	24.8	24.2	20.9	23.0	57.0	7-5	8-10	36	50	3
3	Lee	M.2776	23.7	21.2	22.0	23.1	22.5	56.0	7-5	8-10	35	50	4
4	Lee x Mida sib.	Ns.3880	21.5	24.8	17.6	23.1	21.7	58.5	7-5	8-11	37	80	5
5	Thatcher x Supresa	M.2824	24.8	24.8	17.9	26.4	23.4	58.5	7-7	8-11	36	50	2
6	McMurachy - Exchange x Redman ³	C.T.186	27.0	31.6	23.4	30.8	28.2	58.0	7-8	8-10	35	15	1
7	Thatcher	10003	16.5	18.2	13.5	18.4	16.6	52.5	7-7	8-10	36	50	11
8	Thatcher Selection	4036	11.0	10.5	9.9	11.0	10.6	48.0	7-9	8-11	38	80	19
9	Mida	12008	15.4	15.7	12.7	16.8	15.1	53.5	7-7	8-11	39	80	15
10	Red Thatcher	Sel.	12.1	14.3	8.8	15.4	12.7	50.0	7-10	8-10	38	80	17
11	Rival	11708	17.1	17.6	13.8	18.7	16.8	53.0	7-10	8-10	38	50	10
12	Ceres	6900	17.1	15.1	13.2	17.1	15.6	51.5	7-8	8-12	39	80	13
13	Cadet	12053	18.7	19.8	16.0	20.9	18.8	51.0	7-11	8-13	39	50	6
14	Chinook	S.C.4258	19.8	19.3	15.4	19.8	18.6	53.0	7-7	8-10	38	50	7
15	Rescue	12436	16.0	19.1	16.5	20.9	18.3	54.0	7-9	8-10	37	50	8
16	Pilot	11945	15.1	17.6	12.1	18.7	15.9	50.0	7-9	8-10	38	50	12
17	Nugget	Ld303	6.1	6.9	4.7	6.9	6.2	48.5	7-4	8-9	37	80	22
18	Ld 308 x Nugget	Ld356	17.1	17.6	17.6	17.6	17.5	58.0	7-5	8-11	37	80	9

19	Marquis	3641	13.8	12.1	12.1	14.9	13.2	50.0	7-10	8-11	37	50	16
20	Red Fife	3329	11.0	12.4	12.1	12.7	12.0	50.0	7-10	8-12	39	80	18
21	Mindum	5296	7.7	6.3	6.9	7.2	7.0	52.0	7-9	8-14	44	80	21
22	Haynes Bluestem	2674	10.2	5.5	7.7	7.4	7.7	43.0	7-13	8-13	39	80	20

Table 24 - Comparative Yields - Wheat Varietal Trials - 1944-1953 With averages since 1944

Variety	Yields in Bushels per Acre										Averages								
	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1952 to 1953	1951 to 1953	1950 to 1953	1949 to 1953	1948 to 1953	1947 to 1953	1946 to 1953	1945 to 1953	1944 to 1953
Common Wheat																			
Thatcher	20.2	20.0	16.3	26.2	33.0	10.8	18.2	23.8	12.5	16.6	14.6	17.6	17.8	16.4	19.2	20.2	19.8	19.7	19.8
Ceres	16.8	21.0	14.0	18.6	36.3	12.5	19.2	24.1	11.0	15.6	13.3	16.9	17.5	16.5	19.8	19.6	18.9	19.2	18.9
Marquis	16.5	18.1	15.0	16.7	34.5	10.9	17.8	24.4	11.2	13.2	12.2	16.3	16.7	15.5	17.7	18.3	18.0	18.0	17.8
Red Fife	16.0	17.0	16.5	16.0	34.5	11.0	18.5	25.9	11.7	12.0	11.9	16.5	17.0	15.8	18.9	18.5	18.3	19.1	17.9
Haynes Bluestem	15.0	13.9	14.9	14.5	34.9	8.6	16.7	23.8	12.3	7.7	10.0	14.6	15.1	13.8	17.3	16.9	16.7	16.4	16.2
Pilot	20.0	19.1	15.7	25.6	39.8	13.6	18.5	25.4	13.7	15.9	14.8	18.3	18.4	17.4	21.2	21.8	21.0	20.8	20.7
Rival	22.6	24.3	19.9	27.6	35.8	11.3	19.5	25.3	13.0	16.8	14.9	18.7	18.7	17.2	20.3	21.3	21.2	21.5	21.6
Mida	23.4	25.0	18.1	24.3	35.9	11.9	20.5	26.1	12.9	15.1	14.0	18.0	18.7	17.3	20.4	21.0	20.6	21.1	21.3
Cadet	21.4	20.2	17.7	25.3	37.8	13.0	21.2	23.7	11.6	18.8	15.2	18.0	18.8	17.7	21.0	21.6	21.1	21.0	21.1
Rescue			19.9	25.4	32.7	9.6	19.0	20.9	12.0	18.3	15.2	17.1	17.6	16.0	18.8	19.7	19.9		

Lee					32.2	9.4	19.1	22.0	11.1	22.5	16.8	18.5	18.7	16.8	19.4				
Rushmore					28.0	9.8	18.9	22.8	10.5	23.0	16.8	18.6	18.8	17.0	18.8				
N. No. 2211							19.7	20.9	6.9	15.5	11.2	14.4	15.8						
Red Thatcher								25.1	13.9	12.7	13.3	17.2							
Ns. 4036 (Grimm)								26.7	13.3	10.6	12.0	16.9							
Minn. 2824								24.4	11.1	23.4	17.3	19.6							
Ns 3880									9.0	21.7	15.4								
Chinook (4258)									12.4	18.6	15.5								
C.T. 186										28.2									
Durum Wheat																			
Mindum	21.0 ^a	22.1	19.8	32.8	43.0	12.0	19.1	21.3	12.1	7.0	9.6	13.5	14.9	14.3	19.1	21.0	20.9	21.0	21.0
Nugget					29.4	9.2	20.2	21.2	9.6	6.2	7.9	12.3	14.3	13.3	16.0				
Ld. 356										17.5									
Sig. diff. bu		2.8	3.1	2.3		2.2	3.7	2.6											
^a 2 replications only																			

Table 25 - Agronomic Data from Uniform Regional Spring Wheat - 1953

Date Seeded - 4-23-53
 Date Emerged - 5-10-53
 Rate 1 bpa
 Plot Size - 3 x 16'

1953 No.	Variety or Cross	State or N. No.	C.I No.	Yield - Bu. per Acre				Test Wt.	1st Head	Ripe	Ht. In.	% Stem Rust	Rank
				1	2	3	Av.						
1	Marquis		3641	16.4	18.0	20.0	18.1	52.5	7-12	8-14	39	80	26
2	Thatcher		10003	18.6	17.0	19.8	18.5	57.0	7-6	8-13	37	80	25
3	McMurachy - Exch. x Redman ³ C.T.186	R.L.2769	13049	28.2	30.0	28.2	28.8	57.0	7-7	8-14	35	15	8
4	Henry x Cadet	N.2300	12966	26.6	32.6	31.0	30.0	56.5	7-11	8-14	39	25	5
5	Henry x Cadet	N.2239	12779	26.2	23.8	27.4	25.8	56.0	7-7	8-14	38	80	20
6	Rushmore ² x Supresa	PW 36	12972	30.0	31.2	31.2	30.8	61.5	7-6	8-15	40	25	2
7	Rushmore ² x Supresa	PW 114	12973	27.6	31.4	31.8	30.3	61.0	7-9	8-14	41	50	4
8	Mida 3175	Ns 4042	13033	28.2	28.0	26.2	27.4	59.0	7-7	8-14	38	50	15
9		Ns 4043	13034	28.2	29.2	25.8	27.7	59.0	7-6	8-14	38	50	13
10		Ns 4044	13035	25.6	28.6	26.2	26.8	59.0	7-6	8-14	38	50	16
11		Ns 4045	13036	25.2	27.4	33.4	28.7	60.0	7-5	8-14	38	50	9
12		Ns 4046	13037	25.0	29.2	24.2	26.1	59.5	7-7	8-14	38	50	19
13		Ns 4047	13038	26.4	24.8	28.2	26.5	59.0	7-6	8-12	38	50	17
14		Ns 4048	13039	21.8	26.8	30.0	26.2	59.0	7-5	8-13	39	80	18

15	Henry x Thatcher - W - 38 - 111.1 - Hope	Wisc.250	13040	27.2	20.8	28.8	25.6	57.0	7-7	8-14	39	25	22
16	1520 x 1752	N 2389	13041	21.4	19.0	21.0	20.5	54.0	7-11	8-14	38	80	24
17	Pilot ² x Regent	N 2183	13042	23.0	21.2	26.0	23.4	59.5	7-7	8-10	37	50	23
18	Timstein x Henry	II-44-65	13043	28.8	23.6	31.6	28.0	56.0	7-6	8-11	39	50	12
19	Frontana x Thatcher	II-46-13	13030	33.6	26.6	28.2	29.5	59.0	7-10	8-15	43	15	6
20	Frontana x Thatcher	II-46-53	13044	28.0	25.0	31.4	28.1	57.5	7-5	8-15	39	15	10
21		II-46-52	13031	27.0	23.0	33.2	27.7	57.5	7-5	8-17	39	25	14
22	Mida x Kenya 117A	II-44-22	12964	26.8	29.0	28.6	28.1	59.5	7-5	8-14	38	25	11
23	K58 x Mida - New thatch	II-45-45	13045	25.6	24.2	27.4	25.7	56.0	7-12	8-17	41	25	21
24	Frontana x Thatcher	II-46-63	14046	35.4	28.4	32.8	32.2	58.0	7-12	8-17	40	15	1
25	Kenya Gular - Pilot x K58 - New thatch	II-44-56	13047	34.4	28.2	28.6	30.4	60.0	7-12	8-19	39	15	3
26	Red Egyptian x Frontana	II-45-7	13048	29.8	28.0	29.2	29.0	60.0	7-11	8-19	41	15	7

Table 26 - Agronomic Data from Series 894 - Dickinson - 1953													
Date Seeded - 5-8-53 Date Emerged - 5-17-53 Rate - 1 bpa Plot Size - 1 x 16'													
1953 No.	Variety or Cross	C.I. or Sel. No.	Yield - Bu. per Ac.				Ave.	Test Wt.	Dates		Ht. In.	%Stem Rust	Rank
			1	2	3	4			1st Hd.	Ripe			

1	Lee x Mida sib.	3880-5	18.8	20.6	22.8	20.4	20.6	57.0	7-13	8-14	36	50	16
2	Do.	-9	20.6	18.0	21.0	22.0	20.4	57.5	7-10	8-14	37	50	19
3		-12	23.6	18.4	21.0	23.2	21.5	57.0	7-11	8-14	39	50	10
4		-41	20.4	17.0	21.6	22.0	20.2	57.0	7-11	8-14	36	25	20
5		-44	19.0	21.8	20.0	20.0	20.2	56.5	7-13	8-14	35	25	21
6		-45	17.0	20.0	21.6	20.2	19.7	56.0	7-13	8-14	36	25	27
7		-46	21.8	16.2	17.4	18.2	18.4	56.0	7-13	8-14	36	25	38
8		-66	19.6	16.8	22.2	21.0	19.9	56.0	7-12	8-14	36	25	24
9		-72	19.0	20.6	21.2	23.0	20.9	58.0	7-10	8-14	36	50	13
10		-83	23.0	19.2	23.2	25.0	22.6	57.0	7-13	8-14	36	50	4
11		-89	20.6	19.6	22.4	21.0	20.9	58.5	7-10	8-14	36	50	14
12		-100	19.6	16.6	19.0	20.0	18.8	56.0	7-14	8-14	36	50	36
13		-105	20.0	17.0	20.8	20.0	19.5	55.5	7-14	8-14	36	25	29
14		-116	17.8	16.0	19.2	20.4	18.4	56.0	7-14	8-14	36	25	39
15		-124	20.0	19.4	16.0	20.4	18.9	58.0	7-12	8-14	37	50	32
16		-125	20.0	19.2	20.8	22.4	20.6	55.5	7-13	8-14	36	50	17
17		-127	19.2	21.0	19.4	27.6	21.8	57.0	7-12	8-14	37	50	6
18		-128	20.0	21.0	27.4	21.2	22.4	56.0	7-14	8-15	37	50	5
19		-132	16.2	17.6	23.6	23.0	20.1	57.0	7-14	8-15	36	50	23
20		-138	18.0	20.2	22.8	23.0	21.0	58.0	7-11	8-15	36	50	11

21		-139	18.8	17.8	21.2	19.2	19.2	55.0	7-14	8-15	37	25	30
22		-143	19.4	18.6	23.0	21.0	20.5	57.0	7-11	8-15	39	50	18
23		-146	18.6	19.0	23.0	18.8	19.8	56.0	7-14	8-15	38	50	26
24		-149	19.0	19.0	23.6	21.8	20.8	57.0	7-14	8-15	37	50	15
25		-42	16.0	19.0	22.0	22.0	19.7	56.0	7-13	8-15	37	50	28
26		-159	18.0	14.4	21.6	21.6	18.9	57.0	7-14	8-15	38	50	33
27		-164	21.6	19.6	22.2	24.0	21.8	58.0	7-11	8-15	38	25	7
28		-166	18.0	18.6	23.2	21.0	20.2	57.0	7-14	8-15	37	25	22
29		-185	21.8	21.0	22.4	22.0	21.8	57.0	7-11	8-15	38	50	8
30	Lee x Mida sib.	-186	19.0	14.6	23.0	19.6	19.0	56.0	7-13	8-15	38	25	31
31	Do.	-191	24.6	19.2	26.6	25.0	23.8	58.5	7-11	8-15	40	50	2
32		-195	21.0	17.0	17.6	20.0	18.9	55.5	7-14	8-15	37	50	34
33		-225	21.2	16.0	20.0	27.0	21.0	56.0	7-14	8-15	37	25	12
34		-227	20.0	16.2	19.0	20.6	18.9	56.0	7-14	8-15	37	25	35
35		-243	19.0	20.6	19.6	20.4	19.9	57.0	7-11	8-15	37	25	25
36	McMurachy - Exchange x Redman ³	CT 186	23.6	22.0	24.2	21.8	22.9	56.0	7-15	8-15	35	T	3
37	Rushmore ² x Supresa	PW 36	21.0	21.6	21.0	23.0	21.6	60.0	7-13	8-18	38	10	9
38	Timstein x Henry	Il-44-65	22.4	22.0	24.6	27.6	24.1	54.0	7-13	8-17	38	25	1
39	Mida	12008	13.0	14.6	16.0	15.0	14.6	54.0	7-13	8-13	39	50	40

40	Lee	M 7776	17.6	17.6	19.0	20.0	18.5	53.0	7-11	8-14	39	50	37
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Table 27 - Agronomic Data from Series 500 - Dickinson - 1953										
Date Seeded - 5-8-53 Date Emerged - 5-18-53 Rate - 1 BPA Plot Size - 1 x 16'										
1953 No.	Variety or Cross	Sel. Or N. No.	Yield - 3 Plot Av. Bu. per Acre	Test Wt.	Dates		Ht. In.	% Stem Rust	Rank	Fargo yields ¹ 3 plot Av. Bu. per Acre
					1st Head	Ripe				
1	1556 x Cadet	Ds 249	20.3	54.0	7-13	8-14	35	25	4	17.7
2	1556 x Cadet	Ds 284	21.3	56.0	7-11	8-14	35	25	3	19.4
3	Pilot x Premier	2348	17.0	52.0	7-14	8-16	36	25	14	15.5
4	Pilot x New thatch	Ds111	20.0	48.5	7-14	8-14	34	25	7	12.2
5	1556 x 1563	Ds 118	22.3	55.0	7-9	8-14	35	25	1	10.9
6	1552 x Pilot	Ds 119	22.0	55.0	7-12	8-14	36	25	2	14.2
7	Regent x Mida	Ds 120	19.9	55.0	7-12	8-14	36	25	8	14.3
8	1556 x Pilot	Ds 121	18.3	54.5	7-12	8-14	36	25	11	15.9
9	Regent x Mida	Ds 122	16.5	50.0	7-12	8-15	38	25	18	11.2
10	Mida	12008	16.4	53.0	7-13	8-15	40	50	19	12.8
11	Regent - Mida x 1552 - Mida	Ds 123	13.7	49.5	7-13	8-14	36	50	23	8.2

12	Regent x Mida	Ds 124	17.0	55.0	7-13	8-17	36	25	15	16.3
13	Regent x Mida	Ds 125	14.9	50.0	7-14	8-17	37	50	22	9.7
14	1556 x Mida	Ds 126	16.7	55.0	7-12	8-15	36	50	16	8.5
15	Ceres x HTF	Ds 127	18.3	52.0	7-12	8-14	36	50	12	15.8
16	1556 x Cadet	Ds 128	17.9	53.0	7-12	8-14	37	50	13	12.7
17	1556 x Thatcher	Ds 129	15.1	51.5	7-12	8-14	35	50	21	15.4
18	Pilot x Premier	Ds 130	16.5	51.5	7-13	8-15	37	25	17	16.0
19	1552 x Pilot	Ds 131	20.3	54.0	7-12	8-14	37	25	5	15.0
20	Regent x Mida	Ds 132	16.3	53.5	7-11	8-17	36	50	20	11.1
21	1844 x Mida	Ds 133	20.3	56.0	7-10	8-14	39	50	6	16.3
22	Regent x Mida ²	Ds 224	12.2	52.0	7-15	8-17	37	25	24	6.8
23	Regent - Mida x 1552 - Mida	Ds 102	11.3	49.5	7-14	8-16	36	50	25	5.4
24	1556 x Cadet		18.9	53.0	7-13	8-17	37	50	10	18.0
25	Lee	M 2776	19.1	55.0	7-13	8-15	41	50	9	15.9

¹ Stem rust readings on all entries grown at Fargo were 60% or higher except for Ds 129 (1556 x Thatcher) which was rated at 40%. Significant difference in yield at Fargo was 5.2 bu.

Table 28 - Agronomic Data from Advanced Station Nursery - 1953

Date Seeded - 5-8-53
Date Emerged - 5-18-53
Rate - 1BPA

Plot Size - 3 x 16'

1953 No.	Variety or Cross	Sel. or N. No.	Yield - Bu. per Acre				Test Wt.	Dates		Ht. In.	% Stem Rust	Rank
			1	2	3	Av.		1st Head	Ripe			
1	Regent x Mida ²	Ds 218	14.8	18.0	15.0	15.9	52.5	7-13	8-16	37	50	4
2	Regent x Mida ²	Ds 221	13.4	10.8	13.0	12.4	52.5	7-14	8-17	37	50	10
3	1556 x 12040	Ds 227	10.0	12.6	14.6	12.4	51.0	7-13	8-14	37	50	11
4	1556 x Mida	Ds 230	11.0	12.0	13.0	12.0	52.0	7-13	8-14	37	50	13
5	1556 x Thatcher	Ds 250	9.6	8.8	15.6	11.3	49.5	7-12	8-13	36	80	16
6	1563 x Cadet	Ds 262	11.0	10.8	11.6	11.1	50.0	7-13	8-14	35	50	18
7	1556 x Cadet	Ds 103	14.0	13.0	14.8	13.9	51.5	7-13	8-14	37	50	7
8	1890 - Mida x Regent - Mida	Ds 104	14.6	15.4	18.0	16.0	50.0	7-12	8-14	38	50	2
9	1844 x Mida	Ds 110	14.8	17.2	16.0	16.0	53.0	7-13	8-14	38	50	3
10	Mida check	12008	12.0	12.0	14.6	12.9	53.0	7-14	8-14	40	50	8
11	1844 x Mida	Ds 115	11.6	13.8	11.0	12.1	50.0	7-13	8-14	41	80	12
12	1740 - Mida x 1753	Ds 117	12.0	14.2	17.6	14.6	52.0	7-13	8-15	36	50	6
13	Regent - Mida x 1552 - Mida	Ds 135	7.4	6.0	10.0	7.8	47.0	7-15	8-14	36	80	20
14	1556 x Cadet	Ds 136	10.6	9.4	13.4	11.1	50.0	7-15	8-17	37	50	19
15	1556 x R.L. 1333	Ds 137	15.6	17.6	16.8	16.7	53.0	7-11	8-14	37	25	1
16	1556 x Regent	Ds 138	10.4	12.0	13.2	11.9	50.0	7-12	8-16	36	50	14

17	Regent x Mida ²	Ds 139	11.4	16.2	16.6	14.7	53.0	7-15	8-15	37	25	5
18	1556 x Thatcher	Ds 140	8.8	11.6	13.6	11.3	48.0	7-12	8-17	36	50	17
19	1552 x Mida	Ds 141	11.0	10.0	13.6	11.5	52.0	7-15	8-18	37	25	15
20	Thatcher check	10003	11.2	11.4	14.8	12.5	51.0	7-14	8-17	37	80	9

Table 29 - Agronomic Data from Dickinson Spring Wheat Nursery - 1953								
Date Seeded - 5-9-53 Date Emerged - 5-20-53 Rate - 1 BPA Plot Size - 1 x 16'								
1953 No.	Variety or Cross	C.I., N. No. or Sel.	3 row Av. bpa.	Test Weight	Dates		Height Inches	Rating ¹ % Stem Rust
					1st Head	Ripe		
201	Reg. - Mida x 1552 - Mida	43.29 A1-15-2-5	12.0	49.0	7-15	8-17	37	3
202	Regent x Mida ²	43.28 A1-8-2-1	15.2	51.0	7-13	8-16	39	3
203	Regent x Mida ²	43.28 A1-4-2-4	11.1	51.0	7-16	8-17	39	3
204	Regent x Mida ²	43.28 A1-4-2-5	13.7	52.0	7-17	8-22	39	2
205	Regent x Mida ²	43.28 A1-4-4-2	11.7	49.5	7-17	8-22	38	3
206	Regent	Check	15.1	52.0	7-13	8-17	36	2
207	1556 x 12040	41.20 A2-20-2-1	15.3	51.0	7-13	8-17	37	3
208	1556 x 12040	41.20 A2-20-5-	14.0	50.5	7-13	8-17	37	3

		3						
209	1556 x Mida	42.7 A1-7-4-1	12.9	50.0	7-13	8-17	37	3
210	1556 x Mida	42.7 A1-36-3-4	12.8	53.0	7-13	8-17	37	3
211	1556 x Mida	42.7A1-46-1-3	15.2	52.0	7-14	8-17	36	3
212	Merit x 1556	41.9 A1-7-2-1	16.1	52.0	7-14	8-17	37	3
213	N. No. 1556	Check	15.9	53.0	7-12	8-17	36	3
214	1556 x R. L. 1333	42.6 A1-10-1-4	14.4	51.0	7-12	8-17	36	3
215	1556 x R. L. 1333	42.6 A1-11-6-4	14.2	49.0	7-13	8-17	36	3
216	1556 x R. L. 1333	42.6 A1-50-1-3	13.3	49.5	7-15	8-17	37	2
217	Mida	Check	13.3	51.5	7-14	8-17	39	3
218	1556 x Regent	42.25 A1-9-3-2	16.3	51.0	7-14	8-17	37	3
219	Regent x Mida	1843-11	16.2	52.0	7-14	8-17	37	3
220	Regent x Mida	1843-68	14.3	47.5	7-12	8-17	35	3
221	Regent x Mida	1843-75	15.3	53.0	7-14	8-17	36	2
222	Regent x Mida	1844-9	11.4	47.0	7-14	8-17	36	3
223	Regent x Mida	1844-92	11.0	47.0	7-14	8-17	37	3
224	Ceres ³ - H - G 334 x Pilot - Premeir	43.16 A1-1-16- 3-3	11.3	48.5	7-17	8-21	35	3
225	Pilot x Premeir	40.28 A1-15-3- 4	16.7	54.0	7-15	8-17	37	3
226	Pilot ² x Premier	41.22 A1-15-2	16.8	53.0	7-14	8-17	37	4
227	1556 x Pilot	41.11 A1-3-1-2	16.8	51.0	7-15	8-17	35	2

228	1556 x Pilot	41.11 A1-3-3	17.7	52.0	7-14	8-17	35	3
229	1552 x Pilot	40.5 A1-1-3-1	20.0	53.0	7-14	8-17	38	3
230	1552 x Pilot	40.5 A1-3-4	19.8	54.0	7-14	8-17	38	1
231	1552 x Pilot	40.5 A1-19-1-2	14.7	52.0	7-16	8-17	38	1
232	Pilot check	11945	16.4	50.0	7-17	8-17	37	2
233	Regent x Mida	2026-23	14.7	53.0	7-17	8-17	38	2
234	Regent x Mida	2026-46	14.6	53.5	7-17	8-17	38	2
235	Ceres ³ H.G. 334 x Pilot - Premier	43.16 A1-16-3-3	13.5	51.5	7-18	8-22	38	3
236	1552 x Thatcher	2027-45	10.7	46.0	7-15	8-17	37	3
237	1552 x Thatcher	40.29 A1-1-4-2	13.0	48.5	7-15	8-17	36	3
238	1552 x Mida	40.1 A1-3-1-3	12.1	51.0	7-16	8-17	36	3
239	1552 x Mida	40.1 A1-3-1-5	13.0	53.0	7-16	8-17	36	3
240	1552 x Mida	40.1 A1-6-4-2	9.7	48.0	7-16	8-17	36	3
241	Thatcher	Check	15.2	48.0	7-14	8-17	37	3
242	Pilot x 2822	41.24 A1-15-2-3	15.1	44.5	7-14	8-17	37	3
243	Pilot x 2822	41.24 A1-31-1-1	16.9	46.0	7-14	8-16	38	2
244	1844 - Mida	44.10 A1-12-5-1	15.2	51.0	7-12	8-17	38	3
245	1844 - Mida	44.10 A1- 12-5-5	13.7	50.5	7-14	8-17	40	3

246	1844 - Mida	44.10 A1-23-5-3	14.0	51.0	7-14	8-17	40	3
247	1844 - Mida	44.10 A1-23-5-5	14.7	50.0	7-14	8-18	40	3
248	1844 - Mida	44.10 A1-28-4-2	14.7	49.5	7-13	8-17	40	3
249	1844 - Mida	44.10 A1-28-4-4	15.1	52.0	7-12	8-17	41	4
250	1844 - Mida	44.10 A1-28-4-5	17.5	51.0	7-13	8-17	40	3
251	1844 - Mida	44.10 A1-29-5-1	18.7	52.0	7-12	8-17	38	3
252	1844 - Mida	44.10 A1-29-5-5	17.2	53.0	7-12	8-17	38	3
253	Mida	Check	14.7	50.0	7-14	8-17	41	3
254	2157 x Rescue	46.24 A1-2-1-1	14.0	52.0	7-15	8-18	41	1
255	2157 x Rescue	46.24 A1-2-4-1	13.4	53.0	7-16	8-18	41	1
256	2157 x Rescue	46.24 A1-3-4-1	14.0	51.0	7-15	8-17	40	2
257	2157 x Rescue	46.24 A1-3-6-1	15.1	51.5	7-15	8-17	39	2
258	2157 x Rescue	46.24 A1-3-7-1	11.5	47.0	7-15	8-17	39	3
259	2157 x Rescue	46.24 A1-6-6-1	11.7	50.0	7-18	8-21	40	2
260	2157 x Rescue	46.24 A1-10-2-1	11.6	49.0	7-16	8-17	41	2
261	2157 x Rescue	46.24 A1-10-3-1	11.3	47.5	7-18	8-19	39	1
262	Rescue	Check	13.3	52.0	7-17	8-19	38	1

263	1552 - Mida x Cadet	45.7 A1-7-1-4	15.0	53.5	7-15	8-18	41	2
264	2157 x Rescue	46.24 A1-2-2-2	16.2	55.0	7-15	8-18	41	1
265	Mida x Rescue	46.17 A1-22-1-1	17.9	55.0	7-17	8-20	40	1
266	Mida x Rescue	46.17 A1-10-2-2	15.9	54.5	7-17	8-19	38	2
267	New thatch	Check	14.3	49.0	7-15	8-17	36	3
268	1552 - 12040 x New thatch	45.10 A1-7-3-2	9.3	43.0	7-17	8-18	36	2
269	1740 - Mida x 1753	45.13 A1-10-4-4	18.3	48.0	7-14	8-17	38	4
270	1552 - Mida x Cadet	45.7 A1-7-3-3	15.4	54.0	7-14	8-17	41	3
271	1552 - Mida x Cadet	45.7 A1-9-1-2	14.3	53.0	7-14	8-18	41	2
272	1552 - Mida x Cadet	45.7 A1-9-1-9	14.3	53.0	7-14	8-18	41	3
273	1552 - Mida x Cadet	45.7 A1-14-2-1	15.3	50.0	7-14	8-18	40	3
274	1552 - Mida x Cadet	45.7 A1-17-5-2	11.3	52.0	7-16	8-18	40	3
275	Cadet	Check	12.8	47.0	7-18	8-18	40	2
276	1552 - 12040 x New thatch	45.10 A1-6-2-1	10.7	47.0	7-18	8-17	36	3
277	1552 - 12040 x New thatch	45.10 A1-6-2-2	12.3	49.0	7-18	8-17	35	3
278	1552 - 12040 x New thatch	45.10 A1-6-2-7	12.2	49.0	7-18	8-17	35	2
279	1552 - 12040 x New thatch	45.10 A1-7-2-1	10.5	46.0	7-18	8-17	36	2

280	1552 - Pilot x New thatch	45.12 A1-10-1- 7	19.0	52.0	7-15	8-17	38	3
281	1552 - Pilot x New thatch	45.12 A1-16-2- 6	9.7	47.0	7-16	8-17	36	3
282	1552 - Pilot x New thatch	45.13 A1-6-1-1	13.0	51.0	7-15	8-17	36	3
283	1552 - Pilot x New thatch	45.13 A1-15-1- 2	14.5	50.0	7-14	8-18	40	3
284	1552 - Pilot x New thatch	45.13 A1-15-2- 3	14.3	49.0	7-14	8-18	40	3
285	Thatcher	check	13.5	48.0	7-15	8-17	37	3
286	II-42-22 x 2083		11.8	46.5	7-18	8-17	37	3
287	II-42-22 x 2083		12.0	44.5	7-19	8-17	37	4
288	II-42-22-2010		16.7	49.0	7-16	8-17	38	4
289	II-42-22-2010		17.0	48.0	7-17	8-17	36	3
290	II-42-22-2010		8.0	47.0	7-18	8-19	36	3
291	II-42-22-2010		14.0	52.0	7-17	8-18	38	3
292	II-42-22-2010		13.6	47.0	7-16	8-17	34	3
293	II-42-22 x 1924		10.0	46.5	7-18	8-17	34	3
294	II-42-22 x 1924		10.7	46.0	7-18	8-19	34	2
295	II-42-22 x 1924		13.3	49.0	7-18	8-19	35	1
296	Pilot		16.3	49.0	7-17	8-18	38	2
297	2083 x Rescue		11.3	52.0	7-18	8-20	36	1

298	1840 x Rescue		9.7	51.0	7-18	8-20	36	1
299	Wis. 240 x Rescue		6.4	49.0	7-18	8-20	38	1
300	Wis. 240 x Rescue		10.1	50.0	7-18	8-20	37	2
301	Wis. 240 x Rescue		10.5	47.0	7-18	8-20	37	1
302	Mida x Rescue		11.7	50.0	7-17	8-19	38	2
303	2083 x Rescue		11.7	49.0	7-18	8-20	38	1
304	2083 x Rescue		9.2	49.0	7-18	8-19	38	2
305	2083 ² x Rescue		14.5	55.0	7-18	8-20	37	1
306	Mida ² x Rescue		11.7	52.0	7-18	8-20	38	2
307	2083 x 1831		14.7	52.0	7-17	8-20	39	3
308	2083 x 1831		10.3	47.0	7-18	8-19	39	3
309	Regent x Mida ³		10.1	44.0	7-18	8-19	38	3
310	Mida		13.5	50.5	7-16	8-20	40	3
311	Regent x Mida ³		9.7	43.0	7-18	8-18	38	3
312	Regent x Mida ³		14.0	50.0	7-16	8-18	40	3
313	Regent x Mida ³		14.5	50.0	7-16	8-18	40	3
314	McMurachy x Exchange x Redman ³	CT 186	19.7	53.5	7-16	8-18	36	T
315	Cadet	Check	12.9	48.0	7-18	8-19	36	2

¹1 - Light 5-15%; 2 - Moderate 15-30%; 3 - Heavy 30-50%; 4 - Very Heavy 50% and above.

Table 30 - Agronomic Data from Spring Wheat Uniform Bunt Nursery, 1953

Date Seeded - 5-10-53
 Date Emerged - 5-21-53
 Rate - 1 bpa
 Plot Size - 1 x 8'

1953		Variety or Cross	St. or Nur. No.	C.I. No.	Percent Bunt		
Row	Nos.				I	II	Average
1	59	Carleton	2707	12-64	0	0	0
2	60	Frontana x Thatcher	II-46-5		4	32	18
3	61	Frontana x Thatcher	II-46-13	13030	12	0	6
4	62	Frontana x Thatcher	II-46-52	13031	16	12	14
5	63	Frontana x Thatcher	II-46-53	13099	16	0	8
6	64	Frontana x Thatcher	II-46-63		0	0	0
7	65	Frontana x II-44-29	II-50-17		4	0	2
8	66	Frontana x II-44-29	II-50-25		24	0	12
9	67	Henry		12265	4	0	2
10	68	Henry x Cadet	N. 2300	12966	0	0	0
11	69	Henry x Cadet	N. 2239	12779	0	20	10
12	70	Henry x Thatcher - W38 - 111.1 - Hope	N. 250	13098	0	0	0

13	71	Kentana	2856		0	0	0
14	72	Kenya - Gular - Pilot x K58 - New thatch	II-44-52		4	0	2
15	73	Kenya - Gular - Pilot x K58 - New thatch	II-44-56		0	0	0
16	74	Kenya - Gular - Pilot x K58 - New thatch	II-44-58		4	0	2
17	75	K58 x Mida - New thatch	II-45-27		0	0	0
18	76	K58 x Mida - New thatch	II-45-45		4	0	2
19	77	Ld. 356	2825	13102	0	4	2
20	78	Lee		12488	0	0	0
21	79	Lee selection	1952 Pr. No. 549		0	0	0
22	80	Lerma	III-52-1		0	12	6
23	81	Marquis		3641	0	0	0
24	82	McMurachy - Exchange x Redman ³	C.T. 186 R.L. 2769	13100	0	0	0
25	83	Mida		12008	0	0	0
26	84	Mida x Kenya 117A	II-44-22	12964	0	0	0
27	85	Mida - New thatch x K117A	II-45-24		0	0	0
28	86	Mindum	470	5296	0	0	4
29	87	Moon Wheat (selected from Thatcher)	1-53-1		0	4	2

30	88	Nugget	2825	12620	4	0	2
31	89	New thatch x Frontana	II-46-96		12	0	6
32	90	Pilot ² x Regent	N. 2183		0	0	0
33	91	Red Egyptian x Frontana	II-45-7		12	8	10
34	92	Red Egyptian x Frontana	II-45-8		4	12	8
35	93	Redman	2777	12636	0	0	0
36	94	Rel. - 1018 x Mercury	N. 1691	12204	0	0	0
37	95	Rival		11708	0	0	0
38	96	Rushmore		12273	0	0	0
39	97	Rushmore x Java	P.W. 8		4	8	6
40	98	Rushmore x Java	P.W. 112		20	12	16
41	99	Rushmore ² x Supresa	P.W. 36	12972	8	4	6
42	100	Rushmore ² x Supresa	P.W. 114	12973	16	8	12
43	101	Rushmore ³ x Supresa	S.D. 863		4	4	4
44	102	Rushmore ³ x Supresa	S.D. 934		4	4	4
45	103	Stew art	2708	12066	0	0	0
46	104	Thatcher		10003	0	0	0
47	105	Thatcher x Supresa	2824	12641	0	0	0
48	106	Timstein x Henry	II-44-65	13026	0	0	0
49	107	Ulka		11478	24	24	24

50	108	1520 x 1752	N. 2389		0	0	0
51	109	1764 x Henry	N. 2211	12733	0	0	0
52	110		N. 4042	11478	0	0	0
53	111		N. 4043		0	0	0
54	112		N. 4044		0	0	0
55	113		N. 4045		0	0	0
56	114		N. 4046		0	0	0
57	115		N. 4047		4	0	2
58	116		N. 4048		4	0	2

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