

## EXPERIMENTS WITH WHEAT WINTER WHEAT TRIALS

In general winter wheat is not dependable in western North Dakota. The amount of winter wheat grown in North Dakota is relatively small but because much of it has been grown in the Slope region it has received considerable attention at the Dickinson Experiment Station. The winter wheat nurseries grown at the Dickinson Experiment Station are part of a regional testing program and the trial at Dickinson is particularly desirable because of the severity of the winter in this area.

In the 1952 trials a Kharkof selection averaged twenty percent survival followed by the original Kharkof with eleven percent survival and Minturki with nine percent survival. Five percent of the Turkey x Oro cross survived at Dickinson and four percent of the variety Minter survived. The rest of the entries in both the Uniform Winterhardness Nursery and the Supplementary Winterhardness Nursery survived less than three percent with the majority of the entries killing out entirely.

A summary of the survival data on the entries in both nurseries is presented in tables [28](#) and [29](#).

1952 No.	Variety	C.I. No.	Ave. Of 3 Replications
			% of Survival
1	Kharkof	1442	11
2	Kharkof M.C. 22	6938	20
3	Nebred	10094	3

4	Minturki	6155	9
5	Iohardi	12510	3
6	Minter	12138	4
7	Turkey x Oro	12705	5
8	Cheyenne x Turkey	12142	2
9	Turkey x Cheyenne	12711	1
10	Yogo	8033	1
11	Minhardi	5149	1
12	Hope - Turkey x Cheyenne H.P. 44555	12716	0
13	Mint. O lo. X 44 Mint. <sup>2</sup>	II-40-52	1
14	Hope x Cheyenne <sup>2</sup> 45910	12717	0
15	Comanche x Blk. - Hd. Fed.	12517	1

Table 29 - Survival Data From Supplementary Winterhardiness Nursery - 1952

1952 No.	Variety	C.I. or State No.	Ave. Of 2 Replications
			% of Survival
1	Kharkof	1442	1
2	Blackhull	6251	1

3	Early Blackhull	8856	1
4	Pawnee	11669	0
5	Comanche	11673	0
6	Triumph	12132	1
7	Blue Jacket	12502	3
8	Mqo. - Oro x Oro - Tenmarq	12406	1
9	Hd. Fed. Hybrid	12515	2
10	Turkey	12137	0
11	Comanche x Blackhull - Hd. Fed.	12517	0
12	Quivira Hybrid	12525	0
13	12701 x Wichita	12702	0
14	12701 x Wichita	12703	3
15	Stafford	12706	0
16	Pawnee Sel. 33	12707	3
17	Comanche x Chey. - Blackhull	12708	0
18	Blackhull - Oro x Pawnee	12709	0
19	Comanche x Blackhull - Hd. Fed.	12710	0
20	Tenmarq	6936	0

21	Pawnee x Cheyenne	12715	2
22	Turkey x Cheyenne	12711	2
23	Hope - Turkey x Cheyenne	12716	0
24	Red Chief	12109	0
25	Kawwale - Marquillo x Kawwale - Tenq.	12128	0
26	Kiowa	12133	0
27	Kaw. - Mqo. -Tenq. x Kaw. - Mqo. - Kaw - Tenq.	Stw. 494021	0
28	Wheat x Rye	N 496613	0
29	Wheat x Rye P.I. 149898		0
30	Kharkof	1442	0
31	Wheat x Rye	N 496604	0
32	Wheat x Rye	N 496608	0
33	Do	N 496610	0
34	Do	N 496602	0
35	Do	N 496607	0
36	Do	N 496615	0
37	Australia P.I. 161995	N 505510	0
38	Sakahalin		0

39	Chey. R. Chief x Pn. Mqo. - Oro	N 492303	0
40	Turkey	12137	0
41	Chey. - R. Chief x Pn. - Mqo. - Oro	N 492314	0
42	Do	N 493033	0
43	Kaw. - Mqo. - Tq. x Kaw. - Mqo. - K -T	Stw. 494022	0
44	Do	Stw. 494091	0
45	Nebred x Med. - Hope - Pawnee	Stw. 494109	0
46	Do	Stw. 494111	0
47		Stw. 494153	0
48	Nebred x Med. - Hope - Pawnee	Stw. 494176	0
49	Westar Sel.	Stw. 515437	0
50	Tenmarq	6936	1
51	E. Blk. - Tq. x Oro - Med. - Hope	K. 4711238	0
52	Kan Queen	C44-36	0
53	Mqo. - Oro x Oro - Tenmarq	K. 431413	0
54	Do	K. 452033	0

55	Med. - Hope - Pn x Oro - l11.1 - Com.	K. 49383	0
56	Do - 49454	12804	0
57		K. 49415	0
58		K. 49460	0
59	Med. - Hope x Pawnee <sup>2</sup>	K. 50248	0
60	Kharkof	1442	0
61	Med. - Hope x Pawnee <sup>2</sup>	K. 50249	0
62	Do	K.50521	0
63		K. 50263	0
64		12800	0
65	Med. - Hope x Comanche <sup>2</sup>	K. 50266	0
66	Mqo. - Oro x E. Blkhull Hybrid	51H2013	0
67	Kiowa x Mqo. - Oro	51H2030	0
68	Wichita x Mqo. - Oro - Kaw. - Tenq.	51H2042	0
69	Blackhull - Oro x Pawnee	Wd. 3h1-94	0
70	Turkey	12137	0
71	Comanche x Chey. - Blackhull	Wd. 4h3-85	0

72	Pawnee x Oro	Wd. 44hl-94	0
73	Clark Sel.	C43A31-16	0
74	K - Marq. - Tenq. x M. - Hope - Pn.	K.49369	0
75	Ivcl - Comanche x Pn. - Com.	K. 472941	0
76	Quivira - Tq. x Mqo. - Oro	K. 49422	0
77	Mqo. - Oro x E. Blkl. Hybrid	51H2010	0
78	Do	51H2011	0
79		51H2015	0
80	Tenmarq	6936	0
81	Mqo. -Oro x E. Blackhull Hybrid	51H2016	0
82	Kiowa x Mqo. - Oro	51H2024	0
83	Do	51H2025	0
84		51H2028	0
85	Double Cross	172-48-4	0
86	Kiowa x Mqo. - Oro	51H2031	0
87	Do	51H2032	0
88		51H2032	1

89	Wichita x Mqo. - Oro - Kv. - Tq.	51H2040	0
90	Kharkof	1442	0
91	Wichita x Mqo. - Oro - Kv. - Tq.	51H2043	0
92	Chey. - Red Chief x Pn. - Mqo. - Oro	51H2044	0
93	Do	51H2045	0
94	Pn. - Mqo. - Oro x Chiefk. - E. Bl. - Tq.	51H2046	3
95	Do	51H2055	0
96	Com. - Mqo. - Oro x R. Chief - Nebred	51H2052	0
97	Nebred - Mqo. - Oro x Chiefkan - Pn.	51H2058	0
98	Sinvalocho x Wichita	Tx 201-46-33	0
99	Do	Tx 201-47-4	0
100	Turkey	12137	0
101	Sinv. - Wichita x Hope Chey.	Tx 208-46-12	0
102	Do (208-46-22)	12701	0
103		Tx 208-46-24	0
104		Tx 208-46-32	0



105		Tx 208-46-46	0
106		Tx 208-47-89	0
107	Mqo. - Oro x Wichita	Tx 218-46-5	0
108	Do	Tx 218-48-8	0
109		47-2364	0
110	Tenmarq	6936	0
111	Sinv. - Wich. <sup>2</sup> x Hope - Cheyenne	Tx 237-46-18-2	0
112	Do	Tx 237-46-23-2	0
113		Tx 237-46-26-2	0
114	Chiefkan - Oro - Tk. - Flo. x Mqo. Oro	Tx 240-47-3	0
115	Chiefkan x Mqo. - Oro	Tx 244-46-13	0
116	Do	Tx 244-46-15	0
117		Tx 248-48-9	0
118	Red Chief x Hope - Turkey	48-1155	0
119	Do	48-1144	0
120	Yogo x Minter	Nebr. 2541B	0
121	Minter x Nebr. 60	2672B	0
122	T. Timopheevi - Wis. 5 -	5157	0

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123	Do	5158	0
124		5159	0
125		5161	0
126		5162	0
127	lowin x T. timopheevi - Wis. 5	5167	0
128	Do	5169	0
129	lobred - T. timo -T. vulg. x T. timo - T. vulg	la 51706	0
130	Do	la 51702	0
131		la 51706	0
132	Kharkof	1442	0
133	F.C. 1197	Wich. H-44- Minturki <sup>2</sup> x Martian -Tq.- Kh	1
134	F.C 1199	Mqo-Oro-Oro-Tq x Med.- Hope-Pawnee	1
135	F.C. 1247	Mqo-Oro-Oro-Tq. x H44- Minturki <sup>2</sup>	0
136	F.C. 1248	Triumph-H44-Mint <sup>2</sup> x Martian-Tq-Kh	0
137	F.C. 1249	Mqo-Oro-Oro-Tq. x Med.-	0

		Hope -Pawnee	
138	F.C. 1250	Mqo.-Oro-Oro-Tq x Med.- Hope -Pawnee	0
139	F.C. 1251	Mqo-Oro-Oro-Tq. x Med.- Hope -Pawnee	0
140	F.C. 1252	Mqo.-Oro-Oro-Tq x Med.- Hope -Pawnee	0

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