

NURSERY TRIALS WITH SMALL GRAIN

The cooperative nursery trials grown at Dickinson in 1975 and the leaders responsible for each trial are:

Uniform Regional Hard Red Spring Wheat Nursery; Dr. R. E. Heiner, ARS-USDA, Institute of Agriculture, St. Paul, Minnesota.

Uniform Regional Durum Nursery; Dr. J. S. Quick, Agronomy Department, North Dakota State University, Fargo, North Dakota.

Uniform Early Oat Nursery, and Uniform Midseason Oat Nursery; Dr. L. W. Briggles, ARS-USDA, Institute of Agriculture, St. Paul, Minnesota.

Daylength Insensitive Oats; V. Burrows, Ottawa Research Station, Canada.

Great Plains Barley Nursery; Dr. P. B. Price, ARS-USDA, Agronomy Department, South Dakota State University, Brookings, South Dakota.

Western Spring Barley And Western Dryland Spring Barley; Dr. E.A. Hockett, ARS-USDA, Plant and Soil Department, Montana State University, Bozeman, Montana.

Uniform Regional Flax Nursery; Dr. T.E. Thompson, Agronomy Department, North Dakota State University, Fargo, North Dakota.

Data from the 1975 nursery trials are summarized in tables 24 through 33.

Table 24 - Uniform regional hard red spring wheat nursery.

Variety	Avg. yield	Test weight	Heading date	Height inches
Marquis	26.6	58.5	7-14	33.5
Justin	36.3	58.5	7-14	34.5
Selkirk	28.0	59.5	7-13	34.0
Chris	31.6	59.0	7-12	36.0
Waldron	36.5	59.0	7-11	34.0
ND519	32.2	62.0	7-9	33.5
ND527	37.6	61.5	7-15	36.0
ND531	34.6	61.5	7-12	36.5
ND532	41.9	62.0	7-8	35.0
ND533	37.8	61.0	7-9	34.0
MT711	32.4	60.5	7-14	34.0
H678-1-64311	32.0	59.0	7-7	27.5
WI262T	28.5	60.0	7-8	27.0
MT7156	24.4	60.5	7-12	27.5
ND522	33.3	57.5	7-12	31.5
ND528	32.1	53.5	7-14	31.0
ND354	33.6	56.5	7-8	30.5
ND535	47.1	60.0	7-8	29.5

MNII-64-27	35.3	60.5	7-11	27.5
MN7083	36.7	62.0	7-7	23.5
MN7086	30.2	57.5	7-11	30.0
MN70113	30.5	62.5	7-7	29.0
MN70180	23.2	61.5	7-7	25.0
MN6728	31.2	61.0	7-8	29.5
MN70175	33.1	59.5	7-12	25.5
MN70121	31.6	60.0	7-8	25.0
Era	36.7	59.5	7-13	27.5
Borah	34.6	60.0	7-7	25.5
Standard error of a treatment mean = 3.3 L.s.d. @ 5% = 9.4 The c.v. = 17.4 P.C.				

Table 25 - Uniform regional durum nursery				
Variety	Avg. yield	Test weight	Heading date	Height inches
Mindum	31.5	61.0	7-17	37.5
Wells	32.7	61.0	7-12	35.0
Leeds	31.4	61.5	7-10	34.5
Rolette	32.1	61.0	7-9	33.5

Ward	33.2	61.0	7-10	31.5
Wakooma	39.3	59.5	7-15	36.0
Crosby	34.8	60.5	7-11	35.0
Botno	34.7	60.5	7-8	33.5
Rugby	3.0	60.0	7-11	34.0
Macoun	35.0	60.0	7-10	34.5
D6962	32.8	61.5	7-10	25.0
Cando (D7057)	32.2	60.5	7-12	24.5
D7047	33.2	61.5	7-11	23.5
D71110	36.1	60.5	7-10	31.5
D71117	44.2	59.0	7-11	34.5
DT411	36.5	60.0	7-11	33.5
D7131	35.7	56.0	7-15	33.0
D7158	36.2	61.0	7-11	27.5
D7169	35.4	58.5	7-13	26.0
D7175	40.5	60.0	7-11	36.0
D71111	39.1	59.0	7-10	34.5
D71101	32.4	61.5	7-8	33.0
D71121	35.9	58.5	7-12	34.0

D7233	40.3	60.5	7-8	32.5
D7266	36.3	61.0	7-10	28.5
D72108	34.5	60.0	7-9	34.5
D72110	29.9	60.5	7-10	31.5
D72114	36.5	60.5	7-10	29.0
D7268	29.3	61.5	7-14	24.5
D7275	29.0	61.0	7-8	33.5
L.s.d. @ 5% = 8.0 C.v. = 16.4 P.C.				

Table 26 - Uniform early oat nursery				
Variety	Avg. yield	Test weight	Heading date	Height inches
Jaycee	64.1	36.5	7-10	27.5
III. 67-1514	60.7	38.0	7-12	27.0
III. 68-1643	60.3	35.5	7-12	27.5
III. 68-1469	37.9	37.5	7-10	25.5
III. 71-1158	67.2	34.5	7-10	28.0
III. 69-7648	61.2	35.0	7-10	23.5
Clintford	54.5	33.0	7-10	27.5

Multiline E76	32.3	40.5	7-7	28.0
Andrew	72.3	33.0	7-15	28.5
Mo. 06072	70.4	35.5	7-14	25.5
Mo. 05859	62.3	34.5	7-10	26.0
Mo. 06204	82.1	33.5	7-14	26.5
Mo. 06035	63.7	37.5	7-10	27.5
Mo. 06234	63.2	33.3	7-14	27.0
Mo. 0-205	59.3	38.5	7-11	25.5

Table 27 - Uniform midseason oat performance nursery				
Variety	Avg. yield	Test weight	Heading date	Height inches
Lodi	71.6	37.5	7-17	36.5
Wis. X1986-1	70.3	38.0	7-14	31.5
Wis. X2456-2	75.3	33.5	7-15	31.5
Dal	61.8	36.5	7-17	32.5
Wis. X1839-1	80.1	36.0	7-17	36.0
Wis. X2078-1	69.2	37.0	7-15	35.0
Wis. X2221-2	65.0	40.0	7-14	25.5
Orbit	94.5	33.0	7-15	29.5

Ill. 67-1514	84.4	33.5	7-10	27.0
Ill. 69-7669	87.3	38.5	7-14	31.5
Ill. 69-6198	63.7	36.5	7-10	26.0
Ill. 68-1227	72.8	37.0	7-12	29.0
Ill. 71-1130	67.5	41.5	7-11	29.5
Ill. 71-1161	58.7	35.5	7-11	27.5
Jaycee	56.5	36.0	7-10	27.0
Hudson	81.2	29.5	7-22	29.0
RL 2966 (Hulless)	57.3	40.0	7-15	29.5
OA269	80.7	37.5	7-15	31.5
OA309	62.0	38.5	7-10	35.5
SD711045	66.2	33.5	7-15	28.5
Mich. 64-151-123	80.0	33.5	7-18	30.0
Clintland 64	64.0	37.0	7-11	32.5
Minn. 71211	77.3	35.0	7-15	30.5
Minn. 71202	67.9	34.0	7-12	32.0
Minn. 71101	68.7	35.5	7-14	33.0
Minn. 71205	80.8	39.0	7-15	33.5
Minn. 71218	73.1	38.0	7-15	29.5

Minn. 73119	65.6	37.0	7-12	27.5
Minn. 73231	75.1	36.5	7-15	33.5
Gopher	73.1	35.5	7-13	30.0
Pur. 666D1-24-2-3-1	54.7	39.0	7-12	27.5
Pur. 666D1-42-2-4-5	57.2	35.5	7-11	25.5
Standard error of a treatment mean = 5.5 L.s.d. @ 5% = 15.4 The c.v. = 13.5 P.C.				

Table 28 - Daylength insensitive oats nursery				
Variety	Avg. yield grams	Test weight	Heading date	Height inches
O.A. 241	163	34.5	7-11	29.5
O.A. 242	171	29.5	7-11	37.0
O.A. 243	319	32.5	7-14	39.0
O.A. 244	176	38.0	7-7	31.5
O.A. 245	265	32.5	7-12	36.0
O.A. 246	375	36.5	7-11	34.0
O.A. 247	309	32.5	7-9	34.0
O.A. 248	319	35.0	7-8	33.5
O.A. 249	277	36.5	7-8	33.0

O.A. 250	258	36.0	7-10	33.5
O.A. 266	349	31.5	7-14	31.5
O.A. 267	330	35.5	7-12	34.0
O.A. 268	273	35.5	7-10	30.0
O.A. 269	374	33.0	7-15	33.5
O.A. 270	283	36.0	7-11	36.5
O.A. 271	359	34.0	7-14	33.5
O.A. 272	256	34.5	7-15	36.5
O.A. 273	349	36.0	7-13	36.0
O.A. 274	331	37.0	7-13	36.5
O.A. 303	303	38.5	7-15	36.0
O.A. 304	340	36.5	7-13	36.5
O.A. 307	210	36.0	7-8	31.0
O.A. 308	278	32.5	7-9	33.5
O.A. 309	316	35.0	7-9	35.5
O.A. 310	282	34.5	7-8	33.0
O.A. 312	237	31.0	7-8	32.0
O.A. 313	333	34.5	7-13	32.5
28	313	33.5	7-13	33.5

29	318	37.5	7-14	34.5
30	162	38.0	7-8	32.0
31	287	40.5	7-10	35.0
32	264	36.5	7-10	35.5
33	329	38.0	7-13	38.0
34	286	34.0	7-12	36.5
35	304	36.0	7-9	31.5
36	240	34.5	7-11	36.5
37	160	36.5	7-8	29.5
38	207	37.0	7-9	31.5
39	200	37.5	7-11	28.5
40	242	37.0	7-12	27.5

Standard error of a treatment mean = 27.1

L.s.d. @ 5% = 75.9

The c.v. = 16.9 P.C.

Table 29 - Uniform Great Plains barley nursery				
Variety	Avg. yield	Test weight	Heading date	Height inches
Firlbeck III	42.2	47.5	7-15	25.5
Primus II	47.7	50.5	7-6	27.0

Larker	45.3	50.0	7-11	27.5
Galt	46.7	46.5	7-13	25.5
Cree	51.0	45.0	7-12	24.0
Manker	37.7	50.0	7-11	25.5
Beacon	38.3	46.5	7-10	25.0
ND759	52.6	47.0	7-12	25.5
ND1265	35.2	49.5	7-9	26.0
ND1311	36.1	46.5	7-11	25.5
Br. YG 3-4	45.1	49.0	7-13	22.0
Steptoe	51.7	46.5	7-8	21.5
SD69-1781	53.8	49.0	7-13	27.5
SD71-672	41.0	47.5	7-14	25.5
SD71-698	37.9	49.0	7-12	23.5
M25	38.1	49.5	7-11	25.5
Br. YKQ-1	43.6	45.5	7-13	29.0
Br. 6602-2-4-5	44.4	44.5	7-14	27.5
Br. A31-1	52.4	49.0	7-13	25.0
SD67-535	49.2	49.5	7-6	26.5

Standard error of a treatment mean = 3.9

L.s.d. @ 5% = 11.3

Variety	Avg. yield grams	Test weight	Heading date	Height inches
Firlbeck III	319	46.5	7-14	25.0
Trebi	332	43.0	7-12	23.5
Steptoe	331	43.0	7-10	23.5
Shabet	326	43.5	7-16	27.0
Vanguard	312	44.5	7-15	24.5
Larker	295	46.0	7-11	25.0
Klages	386	40.5	7-16	25.0
ID181053	269	39.5	7-16	24.0
WA766467	316	44.5	7-16	23.5
WA765267	416	42.5	7-16	25.5
AT506	307	46.5	7-15	23.5
ID714552	305	43.5	7-16	24.0
MT148366	299	45.0	7-16	25.0
MT13455	305	44.0	7-17	22.0
MT267105	273	46.5	7-16	17.5

MT267100	277	45.0	7-15	15.5
Glacier	357	36.5	7-6	22.0
MT34310	318	44.5	7-6	23.5
MT3432	321	42.5	7-6	23.5
MT34311	315	43.5	7-6	19.5
MT3433	299	41.0	7-6	21.5
Standard error of a treatment mean = 31.7 L.s.d. @ 5% = 90.6 The c.v. = 17.5 P.C.				

Table 31 - Western dryland spring barley nursery				
Variety	Avg. yield grams	Test weight	Heading date	Height inches
CI6009	445	46.0	7-8	21.5
CI10421	417	44.5	7-9	25.5
CI11770	413	45.0	7-10	25.0
ID143411	436	48.5	7-8	23.5
CI15229	439	42.5	7-7	26.5
CI13827	459	48.0	7-14	26.0
CI19558	412	47.5	7-12	26.0

CI15514	390	45.0	7-14	25.5
MT125235	397	42.5	7-8	23.5
MT125265	399	43.5	7-8	23.5
ID143413	465	46.5	7-11	23.5
ID711180	344	45.0	7-14	24.0
MT3492	389	48.0	7-7	23.5
MT134910	497	48.0	7-7	21.5
MT34917	381	46.5	7-8	25.0
MT34920	378	47.5	7-9	23.0
MT34921	354	41.0	7-16	27.0
MT34924	321	38.5	7-16	25.5
MT294318	363	45.5	7-9	21.5
CI5438	346	44.5	7-9	20.0
Standard error of a treatment = 40.8 L.s.d. @ 5% = 116.6 The c.v. = 17.6 P.C.				

Table 32 - Uniform regional flax nursery				
Variety	Avg. yield	Test weight	Heading date	Height inches
CI389	12.9	52.5	7-12	23.5

CI2292	13.7	54.0	7-15	22.5
CI2522	13.6	53.5	7-11	21.5
CI2541	11.2	53.5	7-15	24.0
CI2776	11.5	53.5	7-10	21.5
CI2797	12.1	53.0	7-11	23.0
CI2802	12.8	55.0	7-16	22.0
CI2804	12.8	52.0	7-12	22.5
CI2806	10.6	53.5	7-17	22.0
CI2808	11.3	55.0	7-18	22.5
CI2814	12.6	54.5	7-17	23.0
CI2816	11.2	53.5	7-11	22.0
CI2817	11.6	53.0	7-12	24.0
CI2818	13.1	53.0	7-18	24.5
CI2819	13.1	53.5	7-17	21.5
CI2820	13.0	53.5	7-17	22.5
CI2821	12.4	53.0	7-17	23.0
CI2822	11.6	54.5	7-11	19.5
CI2923	14.2	54.0	7-17	21.0

Table 33 - Single row flax nursery

Variety	Avg. yield	Heading date	Height inches
Ottawa 770B	5.8	7-16	22.5
Dakota	9.8	7-10	23.0
Bombay	6.2	7-10	22.0
Stewart	6.6	7-10	22.0
Cass	10.4	7-10	21.5
Koto	5.2	7-10	22.0
Clay	9.6	7-10	22.5
Polk	6.8	7-10	18.0
Birio	7.8	7-11	20.5
Kenya	7.0	7-11	22.5
Akmolinsk	7.6	7-11	21.5
Abyssinian	6.4	7-11	22.0
Leona	9.8	7-13	18.5
Wilden	8.6	7-16	22.0
Williston Brown	7.4	7-17	21.5
Victory	10.6	7-15	21.5
Bison	8.6	7-19	22.5

B. Golden	12.6	7-18	21.0
Barnes	9.4	7-11	22.0
Towner	16.4	7-13	22.5
Marshall	8.4	7-10	22.5
Cortland	14.6	7-12	18.5
Pale blue crimped	8.0	7-14	21.0
Burke	16.8	7-18	22.5
Ward	12.6	7-18	22.0
Kugine	9.4	7-18	21.5

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