

COOPERATIVE SMALL GRAIN NURSERY TRIALS

Plantings in 1985 included: Uniform Regional Hard Red Spring Wheat, Project leader Dr. Robert Busch, University of Minnesota; Uniform Hard Red Winter Wheat, Dr. Darryl Cox, Agronomy Dept., North Dakota State University; Uniform Regional Durum, Project leader Dr. R.G. Cantrell, North Dakota State University; Uniform Early and Midseason Oats, Project leader Dr. Howard Rines, University of Minnesota; Western Spring Barley and Western Dryland Spring Barley, Project leader Dr. E.A. Hockett, Montana State University; and Advanced Two-row Barley Nursery, cooperator Dr. Jerry Franckowiak, North Dakota State University. Field performance reports are furnished to respective project leaders for evaluation and compilation into composite regional reports. Required samples for quality analysis are furnished to appropriate state or USDA cereal chemistry laboratories upon request of the respective project leaders. Trials included 30 varieties and experimental lines in the Uniform Regional hard spring wheat trial; 66 entries in two hard red winter wheat trials; 30 lines in the Uniform Regional durum nursery; 65 varieties and experimentals in three separate oats nurseries and 85 two-row and six-row lines in three barley nurseries. Yields were less than those of field plots. Hard red spring wheat yields ranged from a low of 1513 kg/ha to 2286 kg/ha. High field plot yield was 3948 kg/ha. Cal/Ed, a NAPB experimental was high producer in the Regional durum trials and Lang, an Illinois release was the highest yielding oats entry in the 1985 trials. A wide range of yields were produced by 85 barley lines, with a high yield of 3949 kg/ha. recorded for MT 81619. Barley yields ranged from a low of 1759 kg/ha to 3949 kg/ha and averaged 3229 kg/ha. The Elite yield trial and Intermediate performance trial both winter wheat nurseries completely winterkilled in 1985.

Variety	Avg. yield bu./acre	Test Weight	Heading date	Height inches
Marquis	27.6	58.5	7-3	32
Chris	23.2	58.0	7-2	31

Waldron	25.8	57.5	7-1	32
Era	29.1	59.0	7-3	23
Butte	23.1	58.0	6-29	26
SD 2956	29.9	58.5	7-1	26
SD 2968	30.3	60.0	7-1	29
SD 8036	22.5	60.0	7-1	26
SD 8026	32.5	57.5	6-27	30
SD 2962	30.2	59.5	6-26	28
MT 8218	32.9	57.5	6-30	27
MT 8320	29.9	57.5	7-1	28
MT 8328	29.4	58.5	6-27	27
MN 80056	29.2	59.0	6-30	25
MN 82128	27.1	58.0	6-29	27
MN 82047	32.5	58.5	7-1	27
ND 597	23.2	59.0	6-28	27
ND 604	27.7	59.0	7-1	29
ND 600	26.8	58.0	6-29	27
ND 606	29.6	58.0	6-29	31
ND 616	24.5	55.5	6-29	28

ID 0291	29.5	56.0	6-29	28
RH 841246	32.7	58.0	6-27	28
NAHS82-175	30.6	60.5	6-30	29
NAHS82-288	31.4	56.5	6-29	26
NAHS81-55	32.2	59.5	6-30	28
NAHS81-12	34.0	57.5	7-2	24
WA 7075	32.9	56.0	7-1	27
WA 7182	28.5	57.0	7-1	30
WA 7185	32.5	58.0	7-1	25

Lsd @ 5% = 5.9 bpa; CV = 12%; Seeding date April 26; Harvest date August 6

Variety	Avg. yield bu./acre	Test Weight	Heading Date	Height Inches
Mindum	33.9	62.5	7-1	40
Ward	35.1	61.0	6-28	33
Crosby	33.5	61.0	6-26	33
Rugby	35.1	61.0	9-27	33
Cando	35.7	62.0	6-28	23
Vic	35.5	62.0	6-27	32

Lloyd	36.5	60.5	6-28	24
Medora	34.8	61.5	6-27	33
Monroe	38.2	60.5	6-26	34
D79168*	36.5	62.0	6-29	25
D79103	34.1	62.5	6-27	33
D79209*	40.1	61.5	6-28	25
D79104	30.1	61.5	6-27	28
D7925	34.1	61.0	6-25	30
D8012	38.8	61.5	6-27	30
D8016	37.5	60.5	7-1	30
D8019	38.8	62.0	6-29	31
Cal/Ed	41.6	63.0	7-1	26
Ed/Ward	38.5	62.5	6-27	33
Laker	37.8	62.0	7-1	28
D8172	39.0	61.5	6-30	33
D8191	37.2	61.0	6-30	30
D8193	40.3	61.5	6-28	31
D8194	37.0	62.0	6-29	29
D8114	36.7	62.5	6-29	29

D81151	40.8	61.5	7-1	32
D81154	39.9	62.0	6-29	30
D81183*	40.2	62.5	7-1	26
DT 380	38.5	61.0	6-30	29
FA882-268	36.7	61.0	7-1	26

*Denotes Semidwarf entries.

Lsd @ 5% 6.2 bu.; CV = 12%; Seeding date April 26; Harvest Date August 7

Table 32. Uniform Early Oats Nursery				
Variety	Avg. yield bu./acre	Test Weight	Heading date	Height inches
Otee	63.4	40.0	6-26	33
IL 75-5860	76.3	40.0	6-25	31
IL 80-2294	71.1	39.5	6-21	31
Lang	88.3	38.0	6-22	32
IA D623-15	71.3	38.5	6-23	32
Clintford	61.9	40.0	6-23	36
PA 8196-1556	72.3	40.0	6-24	30
PA 8290-4589	62.6	39.5	6-27	26
PA 8290-8097	79.9	39.0	6-23	26

MN 80116	72.7	40.0	6-25	33
MN 83144	69.1	41.5	6-26	39
SD 740065-3	69.3	41.0	6-22	35
SD 800435	77.3	39.0	6-28	36
Andrew	66.9	39.5	6-23	39
MO 07399	74.6	39.0	6-23	33
MO 06637	77.2	40.5	6-21	30
MO 07444	64.0	37.5	6-27	24
MO 07461	71.5	40.5	6-21	28
MO 06767	73.8	40.5	6-26	31
Bates	76.1	38.5	6-22	30
Lsd @ 5% 10.3 bu.; CV = 9%; Seeding date April 26; Harvest date August 5				

Table 33. Uniform Midseason Oats Nursery				
Variety	Avg. yield bu./acre	Test Weight	Heading date	Height inches
WI X4312-4	64.3	36.0	7-1	29
Dal	64.7	36.5	7-4	29

IL 75-3402	57.2	38.5	7-1	26
IL 80-3072	62.9	38.0	7-1	29
IL 79-1776	60.7	37.0	6-28	30
IL 79-4924	54.7	38.0	6-29	26
Ogle	69.3	35.5	7-2	29
IA B605-1085	53.2	38.5	6-25	30
W 80474	70.6	37.5	6-30	31
PA 8098-13900	54.6	39.5	6-30	31
PA 8196-1338	72.7	37.5	6-24	28
PA 8098-13848	61.4	40.0	7-2	28
PA 8290-9340	64.0	37.0	6-25	27
PA 8290-1334	61.7	37.0	6-23	28
SD 790400	69.6	36.5	6-30	33

SD 810095	57.9	42.0	6-27	36
SD 790188	58.9	40.5	7-1	36
SD 800287	60.8	38.0	6-28	33
Clintland 64	50.2	37.5	6-26	34
MN 81128	58.8	39.5	6-26	31
MN 81229	56.6	41.5	6-25	31
MN 81227	58.0	41.5	6-30	32
MN 82212	59.1	35.5	7-4	34
MN 83207	65.2	36.0	7-1	32
MN 83231	64.0	36.5	7-1	34
MN 810917	64.0	37.0	7-2	29
ND 78355	69.3	36.5	7-2	35
ND 820603	58.4	36.5	7-1	29

ND 810104	77.7	37.0	6-28	32
ND 810106	69.0	36.5	6-27	33
Gopher	65.8	36.0	6-27	33
P72288RB1-3-4-3	57.6	36.5	6-27	31
P72288RB1-3-4-3-1	52.3	36.5	6-26	30
P72288RB1-3-4-3-13-1	55.1	37.0	5-25	31
P7869D1-5-3-4	51.3	39.0	6-27	31
Lsd @ 5% 8.3 bu.; Cv = 8%; Seeding date April 26; Harvest date Aug. 7				

Table 34. Station Oats Nursery				
Variety	Avg. yield Bu./acre	Test Weight	Heading date	Height inches
Border	77.0	31.5	7-5	29
Dumont	89.7	37.0	7-4	32

Kelsey	83.0	36.5	7-1	34
Menominee	84.0	36.5	7-5	33
Monida	75.1	33.0	7-4	30
Otana	82.2	37.0	7-3	32
Porter	80.0	37.0	7-3	31
Proat	72.4	38.5	7-2	33
Steele	59.6	38.0	7-1	33
Moore	63.6	37.5	7-2	37
Lsd @ 5% 27.6 bu.; CV = 20%; Seeding date April 26; Harvest date August 6				

Table 35. Western Dryland Barley Nursery				
Variety	Avg. yield bu./acre	Test Weight	Heading date	Height inches
Munsing	55.1	48.5	7-2	21
Steptoe	67.7	45.0	6-27	23
Hector	57.6	50.5	7-3	27
Clark	62.3	48.0	7-4	26
ID 810099	61.9	48.5	7-4	25
ID 789009	59.5	50.0	6-27	26
Lewis	65.1	50.5	7-1	28

BA 26	67.1	44.5	6-21	22
Apex	62.6	48.5	7-1	24
Bellona	57.5	48.5	7-3	25
Summit/Hector	65.2	52.0	7-1	29
Bowman	57.0	52.0	6-27	28
UT 1731	58.6	45.5	6-28	29
UT 1733	62.0	46.5	6-28	31
UT 1734	52.8	43.5	6-27	29
AZ 2221	42.2	38.0	6-21	22
AZ 2229	50.4	37.0	6-21	25
BA 280529	59.2	47.0	7-6	27
MT 81143	61.2	51.5	7-1	29
MT 81502	70.3	47.5	7-2	29
MT 81616	62.1	47.5	7-2	28
MT 81619	73.4	48.5	7-1	28
OR 8432	66.6	50.0	7-3	24
OR 8406	53.2	45.0	7-1	25
UT 1685	57.1	46.0	6-27	30
UT 1695	60.6	47.5	7-1	27

UT 275248	62.7	46.5	7-1	28
Piston	59.9	49.5	7-3	25
Spirit	61.7	49.0	7-1	26
WA 890878	64.4	48.0	7-4	27
Lsd @ 5% 11.0 bu.; CV = 11%; Seeding date April 26; Harvest date August 2 and 6				

Table 36. Western Spring Barley Nursery				
Variety	Avg. yield bu./acre	Test Weight	Heading date	Height inches
Trebi	52.5	43.0	6-30	29
Steptoe	55.2	45.0	6-27	25
Klages	32.7	47.5	7-9	25
Morex	57.5	47.0	7-1	31
Lewis	62.1	50.5	7-5	28
Premier	53.4	48.5	7-10	26
OR 339041	54.1	41.5	7-1	25
BA 27937	47.9	47.5	7-9	27
ID 910719	63.6	47.5	6-26	25
MT 4126	61.3	49.0	7-5	25
OR 722895	54.3	43.5	7-5	23

UT 1685	62.5	46.0	6-27	31
WA 877178	51.4	49.5	7-2	27
WA 890878	46.0	48.5	7-7	26
BA 280529	60.5	44.5	7-2	29
BA 814038	59.1	44.5	7-1	27
Apex	65.2	48.0	6-30	25
Bellona	52.8	46.0	7-1	25
ID 910740	58.8	45.5	6-29	29
MT 81161	60.5	44.5	6-29	27
MT 81616	55.5	44.0	7-1	28
ND 6989	64.4	49.0	6-30	27
NK 41558	50.7	45.0	6-28	20
Or 8407	50.1	43.5	6-30	27
OR 8408	49.1	44.0	7-2	22
Robust	59.3	45.5	6-27	29
UT 1696	55.3	46.0	6-29	30
UT 1733	52.3	43.0	6-27	29
Spirit	60.5	46.5	7-1	27
WA 854278	60.1	43.0	6-27	26

Table 37. Advanced Yield Barley Nursery

Variety	Avg. yield Bu./acre	Test Weight	Heading date	Height inches
Bowman	65.6	51.0	6-23	28
Harrington	55.6	44.0	7-1	28
Hazen	70.5	45.5	6-27	30
Hector	63.5	49.0	6-30	30
Morex	72.0	47.0	6-26	31
MT 312613	71.0	50.5	6-29	29
TR 479	66.2	47.5	7-2	26
ND 5883	70.5	49.0	6-29	28
ND 5971	57.2	48.0	7-1	31
ND 7015	67.3	51.0	7-1	31
ND 7085	56.3	52.0	6-26	30
ND 7194	69.0	50.0	6-27	29
ND 7556	63.7	47.0	7-1	29
ND 7557	64.8	46.5	7-2	31
ND 7615	66.3	50.5	6-25	29

ND 7686	59.5	45.5	7-1	29
ND 7691	56.0	48.5	7-1	29
ND 7714	65.6	50.5	6-27	29
ND 7720	69.5	49.5	6-27	30
ND 7771	67.5	48.5	7-2	29
ND 7802	60.5	49.0	7-1	29
ND 7848	69.9	51.0	6-26	26
BD 8543	62.1	47.0	6-27	28
ND 8668	67.3	49.5	7-1	29
ND 8803	58.3	50.0	6-22	28
Lsd @ 5% 12.9 bu.; CV= 12%; Seeding date April 26; Harvest date August 2				

Table 38. Summary of 1985 two-rowed barley advanced yield trials, Exp. 12						
Cultivar	Yield in bushels per acre					
	Langdon	Carrington	Minot	Williston	Dickinson	Average
Morex	83.0	111.8	96.9	30.2	72.0	78.8
Hazen	95.0	136.0	107.6	34.2	70.5	88.7
Hector	83.6	106.7	108.3	28.0	63.5	78.0

Harrington	87.0	113.2	117.0	26.9	55.6	79.9
Bowman	75.5	122.8	93.0	34.1	65.7	78.2
MT312613	95.2	134.1	116.8	31.8	71.0	89.8
TR479	93.5	114.3	108.4	24.0	66.2	81.3
ND5883	77.0	125.7	107.6	28.7	70.56	81.9
ND5971	85.2	98.3	106.6	26.7	57.2	74.8
ND7015	95.4	130.5	108.3	27.3	67.3	85.8
ND7085	77.4	99.0	82.7	32.6	56.3	69.6
ND7194	85.0	112.1	94.7	30.8	69.0	78.3
ND7556	97.7	130.8	109.7	28.3	63.7	86.0
ND7557	95.2	135.0	101.1	19.2	64.8	83.1
ND7615	79.8	117.5	91.6	29.6	66.3	77.0
ND7686	85.1	125.8	99.6	27.7	59.5	79.5
ND7691	93.3	124.0	104.4	27.3	56.0	81.0
ND7714	97.3	129.9	109.0	31.6	65.6	86.7
ND7720	80.2	116.2	90.0	30.8	69.5	77.3
ND7771	90.5	134.9	107.1	30.3	67.5	86.1
ND7802	96.2	119.5	114.3	29.1	60.5	83.9
ND7848	81.8	123.1	107.2	35.6	69.9	83.5
ND8543	76.4	123.4	118.2	32.9	62.1	82.6

ND8668	88.2	130.9	110.3	28.9	67.3	85.1
ND8803	94.2	107.9	100.2	35.5	58.3	79.2
Average	87.6	120.9	104.4	29.7	64.6	
C.V.	7.5	6.0	6.6	8.0	12.0	
LSD @ 5%	10.8	11.8	11.4	3.9	9.1	

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