

PROJECT TITLE: Western Regional Soft White Winter Wheat Evaluation

PROJECT LEADERS: Bob Stougaard and Todd Keener, NWARC, Kalispell, MT
Phil Bruckner/Jim Burg, Plant and Soil Science,
Bozeman, MT.

OBJECTIVE: To evaluate soft white winter wheats for adaptability, yield, quality and disease resistance for Northern Montana.

RESULTS: Yields were very high for many varieties in the Soft White Winter Wheat nursery due to favorable winter and spring environmental conditions. All but two of the forty-three entries yielded above 100 bu/A, with five varieties yielding in excess of 150 bu/A. The high yield was 153.6 bu/A (WA 7663) while the mean for the nursery was 125.3 bu/A. Lodging and disease pressure were minimal in this year's nursery.

SUMMARY: Although yields were very high this year, none of the newer cultivars produced yields significantly greater than Nugaines.

FUTURE PLANS:

We plan to discontinue this nursery due to the emphasis on varieties adapted to the drier regions of the Pacific Northwest. In it's place we will establish a soft white winter wheat nursery initiated from Bozeman.

Table 1. Agronomic data from the Western Regional Soft White Winter Wheat Nursery grown at the Northwestern Agricultural Research Center, Kalispell, MT.
Planted: September 28, 1993 Harvested: August 9, 1994

CI NO.	VARIETY	YIELD BU/A	TEST WT LB/BU	HEAD DATE	HEIGHT INCHES
WA 7663	Marksman/Daws, VH05208	153.6	57.9	164.0	36.8
WA 7755	Pullman Sel. VH091355	152.5	58.1	163.0	37.4
ID869015	LJN/ID80-855, ID86-09015	150.7	59.7	163.7	38.1
ID851008	Dusty/WA7433, ID85-01008	150.6	60.6	164.7	40.0
XWH 1005	X WH1005 Hybritech	150.0	59.6	161.3	38.7
XWH 1011	XWH 1011 Hybritech	149.3	59.3	161.3	40.0
OR090171	EG/PI178383//JCM/3/67-109/NGS/	146.9	58.6	162.0	34.8
WA 7768	MKS/Daws//WA07433, VH091705	144.1	60.1	163.7	33.5
OR091005	VPM/MOS421//2*TYEE/3/85C8077	143.3	59.8	158.3	34.1
WA 7769	STY(USA)/LJN/MDN, VH092066	136.0	58.5	164.7	35.4
WA 7690	VPM/MS951/YMH/Hill 81//WA6	135.9	59.5	161.3	36.1
PB83WW56	Plant Breed.1SEL PB1-83-WW-56	135.6	56.2	162.7	34.8
PB83WW59	Plant Breed.1SEL PB1-83-WW-59	131.5	59.5	161.7	38.1
XWH 1012	XWH 1012 Hybritech	132.8	58.3	162.0	38.7
WA 7752	Tres//Madsen/Tres, 9226	132.4	60.9	164.0	39.4
CI 13968	Nugaines	128.4	59.5	162.3	30.8
OR880172	HIM//KAL/BB/3/WWP7147, F1/4/D63	128.3	58.8	161.0	36.8
ORFWHS04	FW84106/Greer	127.6	55.8	160.7	34.1
OR090155	Pendleton Unknown Club Sel	126.6	58.7	159.0	38.1
OR880525	OR7946/HILL/HILL	126.5	59.6	163.7	40.0
CI 17917	Tres	126.1	62.0	163.7	36.1
XWH 1010	XWH 1010 Hybritech	126.0	59.5	159.7	39.4
WA 7770	Tres/WA7164//Tres, REA9223	125.0	59.1	163.7	35.4
WA 7686	VH02254/ORCW8313, VH089270	123.9	58.8	160.7	35.4
WA 7622	Tyee/Roason/Tres, 9022	122.5	57.7	164.7	34.1
OR090122	Pendleton Unknown Sel. OR85535	122.3	59.7	160.3	37.4
OR090133	HYS/YAHA//WA4095/3/CERCO/4/69-	121.9	59.7	164.0	39.4
ID850301	CI14563/3/RDL/SU92//KAL/B	121.5	55.9	166.0	22.3
WA 7729	WA6814/Tres, VA087002	118.9	57.4	162.3	33.5
PB83WW58	Plant Breeders 1 Sel. PB183-WW	116.9	60.2	164.0	39.4
WA 7695	Daws//SU92/3*Omar-279	115.1	58.7	161.3	31.5
OR870082	55-1744/7C//SU/RDL/3/JI/HYS/3/	115.1	60.2	159.0	33.5
WA 7697	SPN//SU92/3*Omar-279	114.9	59.7	159.3	31.5
ORFWB004	Stephens*2/SM-4	114.3	57.1	166.7	34.1
CI 13740	Moro	113.3	58.7	162.7	44.6
OR870012	HYS703/3/55-1744/7C//SU/RDL, F1	113.0	58.0	164.7	33.5
OR870337	KVZ/3/HD/ON//BB/4/YPOPF/3/RBS1	110.0	57.5	156.7	30.8
OR870831	AFG2/BUC, F1/KVZ	108.1	60.5	157.7	31.5
CI 17596	Stephens	108.0	58.4	161.3	36.1
ORFWHS02	T.Timopheevi/2*P101/2/OR7721	105.7	56.8	164.0	45.3
CI 11755	Elgin	102.8	60.4	164.0	48.6
CI 1442	Kharkof	84.8	60.6	161.3	55.8
OR090138	Pendleton Unknown Club Sel.	77.4	48.1	165.0	30.8
OVERALL MEAN =		125.3	58.68	162.3	36.64
LSD(0.05 by t)=		26.35	1.427	2.071	2.795