

PROJECT TITLE: Western Regional Spring Wheat Variety Evaluations

PROJECT LEADERS: Bob Stougaard and Todd Keener, NWARC, Kalispell, MT.
Luther Talbert and Susan Lanning, Plant and Soil Science,
Bozeman, MT

OBJECTIVE: To determine the adaptability of spring wheat varieties grown under high moisture conditions in Montana.

RESULTS : Yields were very high this year and were reduced in only a few varieties. The average yield was 89.7 bu/A compared to 62 bu/A last year. OR 488372, ID 456, Serra, ID 377S, and FM 5702 were the high yielding varieties with yields above 100 bu/a.

SUMMARY: Excellent weather conditions contributed to early heading and harvest yet some varieties were affected by the warm, dry July and August conditions and had shriveled kernels and lower test weights. The mean test weight was 56.63 lb/bu with the highest being 59.7 lb/bu from ID 463.

FUTURE PLANS: Continue evaluation of new lines of spring wheat in Northwestern Montana by growing the Western Regional Spring Wheat Nursery.

Table 1. Agronomic data from the Western Regional Spring Wheat Nursery grown on the Northwestern Agricultural Research Center in Kalispell, MT. Planted: April 13, 1994 Harvested: August 22, 1994

VARIETY		YIELD BU/A	TEST WT LB/BU	HEADING DATE	HEIGHT INCHES
OR488372	VEE.S/BOW.S	111.03	58.70	175.00	32.15
ID 456	ID184/ID187//TREASURE,A84	107.75	58.40	172.33	34.12
UC 638	SERRA	107.38	56.70	171.33	31.50
ID 377S	GALLO-YR'S'/AU X KAL-BB//	104.55	58.90	172.00	34.78
FM 5702	NW CONSORTIUM,FMO05702	101.73	58.20	168.00	26.25
PI566595	WADUAL 94	99.30	56.90	173.00	37.40
SDM 405	CENTENIAL 2*/FIELDWIN (SU	99.28	57.70	175.00	32.15
OR487410	CORVALLIS SEL.4870410	98.87	57.00	174.00	34.12
PI566596	ALPOWA	97.03	54.90	173.33	32.81
OR895181	PFAU.S/VEE#5.S,OR4895181	95.33	56.30	174.33	32.81
CI 17903	MCKAY	94.18	56.50	173.67	33.46
NKF 8022	KLASIC	91.25	58.00	168.00	26.25
PI574538	WAWAWAI	90.93	59.00	174.67	36.09
FM 8631	NW CONSORTIUM,FMO08631	90.83	57.20	169.33	25.59
ID 429	ID182/FIELDWIN	90.72	58.70	171.33	34.78
OR895207	KASYON.S,OR4895207	90.53	55.30	174.33	29.53
ID 450	TONICHI,S/2*STERLING,ID71	90.07	55.40	173.67	32.15
UT 2464	UT 78S 147-209/906R	88.32	56.00	175.33	35.43
OR895224	CORVALLIS SEL.4895224	87.87	53.70	175.33	29.53
ID 448	A771084S-B/ID246	87.15	55.00	176.33	32.15
OR487374	CORVALLIS SEL.4870374	85.98	54.40	170.00	25.59
UT 1175	UT78S166-2746/906-R	85.55	54.60	174.67	37.40
UT 1146	UT78S166-2746/906-R	85.20	56.20	173.67	35.43
ID 439	ID203/ID166//906R	84.47	57.00	172.67	30.84
ID 463	ID203/ID166//WPB906R,ID85	83.28	59.70	168.67	30.18
ID 452	VANDAL/3/WA6291/PRODAX//B	82.73	58.60	176.00	30.84
SDM 406	CENTENIAL 2*/FIELDWIN (SU	81.08	57.50	173.67	32.15
UT 1117	UT78S116-2746/906R	80.73	56.90	175.33	37.40
CI 4734	FEDERATION	80.19	55.40	174.67	43.31
PI495916	PENAWAWA	79.08	52.70	173.67	32.15
UT850646	UT77W1054-1777/906R	78.75	56.00	174.33	30.18
SUNDERO2	SUNSTAR 2	78.30	56.70	172.00	31.50
ML 42	SEL. ML 42	76.73	55.70	175.67	33.46
ID 462	ID203/ID166//WPB906R,ID85	75.85	56.60	172.33	32.81
UT 1597	WYNNE/UT78S166-2746	75.73	55.40	174.67	36.09
MEAN		89.65		173.21	32.64
LSD (0.05)		22.22		1.12	1.87