

PROJECT TITLE: Western Regional Spring Wheat Variety Evaluations

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

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

RESULTS:

Yields from the 1992 Western Regional Spring Wheat Nursery were noticeably reduced from yields in previous years. None of the thirty-six entries yielded above 100 bu/A. Several varieties grown both this year and in 1991 were 10 to 40 bu/A less in this nursery. Test weights were relatively the same in comparison to other seasonal data and averaged 59.4 lb/bu. The heading date average was ten days earlier than last year, and was early compared to the long term average.

SUMMARY:

Cool, wet weather in June and July were factors that contributed to lower than normal yields this year in spring wheat. No variety yielded above 100 bu/A. Heading dates were one week to 10 days earlier than previous years.

FUTURE PLANS:

There are plans for continued evaluation of new and introduced lines of spring wheat in 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. Planted: April 7, 1992 Harvested: August 28, 1992

VARIETY	YIELD BU/A	TEST WT LB/BU	HEADING DATE	HEIGHT INCHES
CI 17904 OWENS	96.0	59.5	167.3	32.4
WA 7176 K78504/K74129-33//K7	94.5	59.2	170.0	32.9
UT 1597 WYNNE/UT78S166-2746	92.4	59.7	169.7	34.9
WA 7677 K80184/K7905769	91.8	60.7	167.3	30.8
WA 7183 WAKANZ	91.5	58.7	171.0	30.3
ID 377S GALLO-YR'S'/AU X KAL	91.0	60.5	165.7	31.9
ID 392 OWENS/ID159	89.9	60.5	169.0	31.6
PI495916 PENAWAWA	89.2	59.9	168.3	30.8
UC 638 SERRA	88.5	59.6	164.3	28.5
OR487453 SPHWE 11	87.1	59.9	170.0	28.2
ID 410 A81515S-A/STERLING	86.8	60.1	169.3	30.6
WA 7702 NDM00011/NK751,S83-1	86.8	59.3	165.0	29.7
ML 42 SEL. ML 42	86.0	60.1	169.7	32.4
OR386306 KAUZ 'S'	84.7	60.3	165.0	24.7
ID 441 OWENS/4/FDR/MENG//81	84.0	59.2	163.3	32.0
OR487249 TAN.S/3/TI/TOB//ALD.	83.4	60.4	165.7	28.5
ID 429 ID182/FIELDWIN	83.2	60.6	163.0	32.4
CI 17903 MCKAY	83.2	58.7	168.3	31.8
OR487469 RPV/WW15/3/BJ.S/ON*2	82.3	59.6	165.7	28.7
ID 440 ID130/MAYA74-PVN'S'/	81.8	59.3	163.7	31.8
ID 408 ID232/A75120S-2214-1	80.8	57.3	169.0	29.7
OR488403 VS73.600/MRL.S/3/BOW	80.3	58.9	166.7	26.0
UT850646 UT77W1054-1777/906R	79.9	58.0	168.0	28.2
OR488189 BJY.S/4/TZPP//IRN46/	79.6	59.5	167.0	26.1
OR487255 TAN.S/PEW.S	79.5	61.5	163.7	29.7
UT 1711 UT77W1054-1777/MCKAY	79.2	59.3	170.0	35.2
OR489025 'TUI'	78.3	60.6	166.7	30.3
ID 420 A7612S-2/A75141S-2-1	78.2	59.1	169.7	29.9
OR487462 SPHRE 16	77.7	59.8	165.6	29.7
UT 1708 UT77W1054-1777/MCKAY	77.3	58.9	169.7	38.7
UT 2571 UT77W1054-1815/MCKAY	76.9	60.3	169.0	44.1
UT 1723 UT77W1054-1777/MCKAY	76.2	59.3	170.0	36.6
ID 439 ID203/ID166//906R	76.0	58.7	167.3	27.8
UC 786 YOLO'S'/YRR,CA810041	74.9	58.5	168.3	23.8
CI 4734 FEDERATION	69.3	56.8	171.0	40.0
OR487279 SPHWE9	69.2	59.0	163.7	26.3
SUNDER02 SUNSTAR 2	66.3	59.5	164.0	29.4
UC 785 STA/YRR,CA770284-OD-	64.7	58.4	164.7	21.5
NKF 8022 KLASIC	61.8	58.5	162.7	20.5
UC 784 STA/YRR,CA770284-OD-	60.0	58.6	162.7	20.6
Mean	81.0	59.4	167.0	30.2
L.S.D.	9.75	.58	1.51	1.73