

PROJECT TITLE: Off-center hard red winter wheat variety trial:  
Dwarf smut area, Lodgegrass. 1989.

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PROJECT PERSONNEL: John Bowman, Lodgegrass MT - Cooperator

PROJECT LOCATION: MSU - Southern Agricultural Research Center,  
Huntley, MT 59037

OBJECTIVES:

To evaluate hard red winter wheat varieties and breeder selections for resistance to Dwarf Bundt, Tilletia controversa: yield and quality.

SUMMARY AND RESULTS:

The disease pressure was too low in 1989 to accurately rate the selections for dwarf smut.

FUTURE PLANS:

This is a continuous study trial in a dwarf smut problem area.

TABLE 1 .1989 DRYLAND OFF STATION LODGEGRASS HARD RED WINTER WHEAT TRIAL

VARIETY	YIELD BU/AC	TESTWT LB/BU	PLANTHT INCHES	% * DOWN	PROT %
QT 542 HYBRITECH	44.25	58.93	33.67	1.00	14.8
CI 17846 MANNING	43.69	59.73	31.67	23.33	15.8
CI 17441 VONA	41.42	58.63	27.00	.00	13.9
CI 17902 WINRIDGE	41.04	57.80	33.00	8.67	14.4
CI 17844 REDWIN	40.93	59.67	32.33	.00	15.6
MT 88062 CST/VT1230//ID745101	39.55	56.77	32.33	6.67	16.3
MT 88064 CST/VT1230//ID745101	39.27	55.23	29.67	11.67	13.7
CI 17727 WESTON	38.73	60.57	37.00	4.00	16.0
MT 88065 CST/VT1230//ID745101	37.68	58.00	30.67	9.33	14.4
CI 17879 ROCKY	36.98	57.93	29.00	.00	15.9
CI 15075 CENTURK	36.94	58.97	31.33	3.00	15.7
MT 8039 JUDITH	36.52	59.27	31.67	4.33	15.2
PI491532 CREE	36.06	59.60	31.00	8.00	15.6
CI 8885 CHEYENNE	35.91	58.97	35.00	8.00	15.8
MT 8003 TIBER	35.86	58.67	30.33	.33	14.6
CI 17735 NORSTAR	35.72	59.23	35.00	8.00	14.9
CI 17860 NEELEY	35.72	58.57	29.33	6.00	16.0
CI 13670 WINALTA	34.92	60.10	35.33	7.00	15.9
MT 88005 WSC/YOGO//RSC/3/TD25	32.66	57.90	33.00	.00	16.8
ID 297 BLIZZARD	32.44	59.30	30.67	5.33	16.1
CI 13190 WARRIOR	32.23	58.83	32.67	.33	16.0
MT 79125 UT755079/CST56//TX65	31.28	57.50	27.67	3.67	15.9
MT 88003 POLO/TURG//WRR	31.23	57.37	24.00	.00	13.2
MT 88008 WSC/YOGO//RSC/3/WRR1	29.46	58.83	28.33	6.67	15.8
MT 88006 WSC/YOGO//RSC/3/TD25	28.91	56.70	33.00	.00	15.3
MT 88001 SMT/TD//YGSS	28.81	56.87	19.00	.00	16.7
PI491533 NORWIN	26.46	57.27	24.33	.00	17.2
MT 88002 POLO/TURG//WRR	17.77	58.40	23.33	.00	14.9

\*\*\*\*\* STATISTICAL TABLE \*\*\*\*\*

EXPERIMENTAL MEANS	35.09	58.41	30.40	4.48
TOTAL OBSERVATIONS	84.00	84.00	84.00	84.00
NO. OF REPLICATIONS	3.00	3.00	3.00	3.00
NO. OF VARIETIES	28.00	28.00	28.00	28.00
C.V. 1: (S/MEAN)*100	12.49	1.60	9.60	84.70
C.V. 2: (S OF MEAN/MEAN)*100	7.21	.93	5.54	48.90
LSD (0.05)	7.18	1.53	4.78	6.21

\* NOTE: %Down refers to stems broken over.

FB381889.WWD  
3818.STT