

PROJECT TITLE: 2005 Evaluation of winter wheat development lines for sawfly stem cutting.

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OBJECTIVES:

To evaluate new winter wheat lines for sawfly stem cutting susceptibility.

RESULTS:

Forty nine winter wheat lines and check varieties were seeded no-till recrop into spring stubble that had a moderately heavy infestation of sawfly. Stand was a little erratic as the site was near the edge of the field and there had been some equipment compaction of the soil. Sawfly cutting and infestations were below ideal levels for evaluation tolerance or resistance. Rampart and Genou had intermediate levels of stem cutting, while Rocky and Neeley had the highest level of stem cutting. These rankings of the check varieties suggest that scoring was valid.

SUMMARY:

MTS 0360 exhibited no stem cutting. Eight other lines exhibited less than one percent stem cutting (see Table 1).

FUTURE PLANS:

CARC will establish another observation south of Moore in an area that has only recently experience heavy sawfly infestations.

Table 1 2005 Sawfly cutting evaluation of 49 development lines and checks.
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Variety	Entry	Score	Variety	Entry	Score
MTS0360	8	0.0	MTS0520	36	2.5
MTCL0506	22	0.5	MTS0528	44	3.0
MTS0526	42	0.5	MTCL0318	6	3.0
MTCL0502	18	0.5	MTCL0509	25	3.0
MTS0521	37	0.5	GENOU	5	3.0
MTS0527	43	0.5	MTS0531	47	3.0
MTS0524	40	0.5	MTS0517	33	3.5
MTCL0507	23	0.5	MTCL0461	11	4.0
MTCL0504	20	0.5	MTS0530	46	4.0
MTS0533	49	1.0	MTS04113	12	5.5
MTS0523	39	1.0	MTS0519	35	5.5
MTS0522	38	1.0	MTS0518	34	5.5
MTCL0508	24	1.0	MTS04119	15	6.5
RAMPART	1	1.0	MTS0514	30	7.0
MTCL0510	26	1.0	MTS0513	29	7.5
MTS0516	32	1.5	MTS04101	10	8.0
MTS0525	41	1.5	MTS0495	9	8.0
MTS04120	16	1.5	MORGAN	4	8.5
MTCL0501	17	1.5	MTCL0511	27	9.0
MTS0529	45	2.0	MTS04118	14	9.0
MTS0333	7	2.0	MTS0515	31	12.5
MTS04114	13	2.0	ROCKY	2	14.0
MTCL0505	21	2.0	NEELEY	3	15.0
MTCL0503	19	2.0	MTS0512	28	20.0
MTS0532	48	2.5			
Overall mean:					4.061
Cv 1					70.2
LSD (0.05)					5.7

Score: Ocular estimation of percent stem cutting.