Nows

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Publications.

Bolan NS, Makino T, Kunhikrishnan A, Kim P-J, Ishikawa S, Murakami M, Naidu R, and Kirkham MB. 2013. Cadmium contamination and its risk management in rice ecosystems. Adv Agron 119:183-273.

Frank BJ, Schlegel AJ, Stone LR, and Kirkham MB. 2013. Grain yield and plant characteristics of corn hybrids in the Great Plains. Agron J 105(2):383-394.

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KANSAS STATE UNIVERSITY

Wheat Genetics Resource Center, Department of Plant Pathology, Department of Agronomy, and the USDA-ARS Hard Red Winter Wheat Genetic Research Unit, Throckmorton Plant Sciences Center, Manhattan, KS 66506-5501, USA.

Notice of release of KS14WGRC61 Fusarium head blight-resistant wheat germ plasm.

Bernd Friebe, William Bockus, P.D. Chen, L.L. Qi, Joey Cainong, Duane L. Wilson, W. John Raupp, Jesse Poland, Robert L. Bowden, Allan K. Fritz, and Bikram S. Gill.

The Agricultural Research Service, U.S. Department of Agriculture and the Kansas Agricultural Experiment Station announce the release of **KS14WGRC61** hard red winter wheat germ plasm with resistance to Fusarium head blight (FHB) for breeding and experimental purposes. KS14WGGRC61 is derived from the cross TA5655/TA3809*2//TA9121*2 F₃, where TA5655 is a disomic wheat-*Elymus tsukushiense* Honda Robertsonian translocation TW·1E^{is}#1S, TA3809 is a Chinese Spring stock homozygous for the *ph1b* mutant allele, and TA9121 is the hard red winter wheat cultivar Everest. KS14WGRC61 is homozygous for a distal wheat–*E. tsukushiense* recombinant chromosome TWL·WS-1E^{is}#1S, consisting of the complete long arm and most of the short arm of a wheat chromosome and a distal segment derived from 1E^{is}#1S. The E^{is}#1S segment in this translocation has a gene that confers type-2 resistance to FHB. The TWL·WS-1E^{is}#1S stock is a novel source of FHB resistance and may be useful in wheat improvement. Small quantities (3 grams) of seed of KS14WGGRC61 are available upon written request. We request that the appropriate source be given when this germ plasm contributes to research or development of new cultivars. Seed stocks are maintained by the Wheat Genetics Resource Center, Throckmorton Plant Sciences Center, Kansas State University, Manhattan, KS 66506.

Evaluating a core collection for stress tolerance in the field.

Duane L. Wilson, W. John Raupp, Sunish Sehgal, Bernd Friebe, and Bikram S. Gill.

A core set of *Aegilops*, *Triticum*, and *Dasypyrum* accessions was evaluated at the Rocky Ford Research Area, Manhattan, KS, for field resistance to leaf rust, barley yellow dwarf virus, and powdery mildew (Table 1, pp. 138-147). The lines also were evaluated for heading date. Leaf rust reaction was recorded on three dates and barley yellow dwarf and powdery mildew on two. Virus infection was rated as symptoms on visible as chlorosis, necrosis of the leaf tips and leaves, or purpling of the leaves. One accession of *Ae. columnaris*, *Ae. peregrina*, *Ae. sharonensis*, *Ae. umbellulata*, *T. aestivum*, and *T. zhukovskyi*; two accessions of *Ae. longissima*, *T. turgidum* subsps. *carthlicum* and dicoccum; and six accessions of *T. turgidum* subsp. *polonicum* were winterkilled.

Table 1. Data from the core set of *Triticum* and *Aegilops* species evaluated for disease severity in the field, Manhattan, KS, for field resistance to leaf rust, barley yellow dwarf virus, and powdery mildew. Heading date also was recorded. Leaf rust was evaluated on the Cobb scale, where a number indicating the percent of leaf area affected is followed by a letter designation, R = resistant flecks or very small pustules, MR = moderately resistant small pustules, R = moderate = moderately = modera

spores pr			Cou—ry of Leaf rust					Barley yellow dwarf virus		dery dew	Heading
TA	Genus	species	origin	5/22	6/9	6/13	5/22	6/6	5/22	6/6	date
		•		10R	20MS	40MS	M	Н	Н	M	17-May
2909	Triticum	aestivum 'Jagger'	United States	20MR	70S	70S	M	Н	Н	M	18-May
			_	10R	20MR	40S	L	M	M	L	11-Jun
2922	Triticum	aestivum 'Heines IV'	Germany	10R	30MS	30MS	M	M	M	M	12-Jun
	1_			10R	70MS	80S	L	M	0	L	17-May
2951	Triticum	aestivum 'TAM 107'	United States	1M	80S	_	0	M	Н	Н	17-May
				10R	50MS	70MS	M	Н	M	L	27-May
3009	Triticum	aestivum 'Wichita'	United States	30MR	50MS	60MS	M	Н	M	M	27-May
2011	<i>T</i>		_	0	20MS	60MS	M	Н	0	L	26-May
3014	Triticum	aestivum 'Courtot'	France	10R	40MS	75S	M	Н	L	M	26-May
10071			** 1 1 1 1	0	10MS	40MS	M	Н	L	L	4-Jun
10374	Triticum	aestivum landrace	Uzbekistan	10R	20MS	40MS	M	Н	L	L	8-Jun
10200	<i>T</i>		**	10R	10M	15MS	M	Н	L	L	22-May
10380	Triticum	aestivum landrace	Kyrgyzstan	25MR	25MS	40MS	L	M	L	L	24-May
10395	Triticum	aestivum landrace	Tajikistan	0	45S	60S	M	M	Н	Н	8-Jun
10.120	<i>T</i>	. (77: 11.)	m 1	10R	40MS	_	Н	Н	Н	Н	27-May
10428	Triticum	aestivum 'Kirik'	Turkey	15R	40S	50S	Н	Н	Н	M	28-May
10101				1R	20MR	_	M	Н	M	L	3-Jun
10431	Triticum	aestivum landrace	Iran	1R	5MR	20MR	M	Н	L	L	11-Jun
•				10R	50MS	50M	Н	Н	Н	M	28-May
2601	Triticum	aestivum subsp. compactum	Turkey	10R	40S	40S	Н	Н	Н	Н	5-Jun
10.120			211	10R	30MS	50MS	M	Н	M	L	27-May
10430	Triticum	aestivum subsp. compactum	Pakistan	5MS	70MS	70S	M	M	Н	Н	7-Jun
10061	<i>T</i>		**	10R	40S	_	L	M	Н	Н	18-Jun
10861	Triticum	aestivum subsp. compactum	Kazakhstan	15MR	30S	_	Н	Н	M	M	9-Jun
10062				10MR	60S	80S	L	Н	Н	Н	12-Jun
10862	Triticum	aestivum subsp. macha	Iran	15R	80S	80S	L	M	Н	Н	10-Jun
10062	Tr. ivi	. 1 1	G :	10R	60S	60S	M	Н	M	L	12-Jun
10863	Triticum	aestivum subsp. macha	Georgia	10R	10MS	30MS	M	Н	Н	Н	10-Jun
2602	T.::4:		Ci411	10R	20MS	20S	M	Н	M	L	10-Jun
2603	Triticum	aestivum subsp. spelta	Switzerland	10R	30S	40S	L	Н	M	M	12-Jun
10424	Triticum	aastiyum suben snalta	Iron	10R	50S	70S	Н	Н	Н	Н	12-Jun
10424	Trucum	aestivum subsp. spelta	Iran	25MR	70S	80S	M	Н	Н	Н	29-May
2605	Triticum	aestivum subsp. sphaerococcum	Greece	15R	50S	80S	L	M	Н	L	26-May
2003	Trucum	aestivum suosp. spiiaerococcum	Gicccc	15R	60MS	70S	M	M	M	M	20-May
10864	Triticum	aestivum subsp. sphaerococcum	India	10R	15MS	30S	M	Н	Н	M	20-May
183	Triticum	monococcum subsp. aegilo-	Iran	10R	15MR	_	L	Н	0	0	27-May
103	11 iii cum	poides	11 (11)	20MR	25MS	_	M	Н	0	L	26-May
236	Triticum	monococcum subsp. aegilo-	Iraq	0	10MR	20MR	0	M	0	0	22-May
230	11 iii um	poides	naq	10R	25M	40M	L	Н	L	L	24-May
352	Triticum	monococcum subsp. aegilo-	Iraq	1R	5M	_	L	Н	L	L	18-May
334	11 iii um	poides	naq	0	10MR	_	L	Н	0	L	18-May
463	Triticum	monococcum subsp. aegilo-	Iraq	1R	5M	_	M	Н	0	L	26-May
-102	11 iii um	poides	naq	10R	20MR	30M	L	Н	0	L	23-May
547	Triticum	monococcum subsp. aegilo-	Lebanon	5R	5MR		L	M	0	0	27-May
211	1cuit	poides	Leodiioii	10R	15MR	20MR	L	Н	0	L	28-May

Table 1. Data from the core set of *Triticum* and *Aegilops* species evaluated for disease severity in the field, Manhattan, KS, for field resistance to leaf rust, barley yellow dwarf virus, and powdery mildew. Heading date also was recorded. Leaf rust was evaluated on the Cobb scale, where a number indicating the percent of leaf area affected is followed by a letter designation, R = resistant flecks or very small pustules, MR = moderately resistant small pustules, M = moderate small to medium size pustules, MS = moderately susceptible medium to large pustules, and S = susceptible with large pustules. Rating of the leaves with virus symptoms was 0 = no visible signs of infection, L = low infection with 10% or less of the leaf area with visible symptoms, M = moderate infection with up to 40% of the leaf area with visible symptoms, and M = moderate infection with up to 40% of the leaf area having spores, M = moderate infection with up to 40% of the leaf area having spores, and M = moderate infection with up to 40% of the leaf area having spores, and M = moderate infection with up to 40% of the leaf area having spores. M = moderate infection with up to 40% of the leaf area having spores, and M = moderate infection with over 40% of the leaf area having spores present. M = moderate infection with up to 40% of the leaf area having spores. M = moderate infection with up to 40% of the leaf area having spores. M = moderate infection with up to 40% of the leaf area having spores. M = moderate infection with up to 40% of the leaf area having spores. M = moderate infection with up to 40% of the leaf area having spores. M = moderate infection with up to 40% of the leaf area having spores. M = moderate infection with up to 40% of the leaf area having spores. M = moderate infection with up to 40% of the leaf area having spores. M = moderate infection with up to 40% of the leaf area having spores.

spores pr	resent. — = no	lest.	Cou-ry of		Leaf rus	t		yellow f virus	Pow mile	dery dew	Heading
TA	Genus	species	origin	5/22	6/9	6/13	5/22	6/6	5/22	6/6	date
500	T :::	monococcum subsp. aegilo-		0	10MR	15MR	0	Н	0	0	6-Jun
582	Triticum	poides	Armenia	0	30MS	_	0	Н	0	Н	28-May
570	T.::4:	monococcum subsp. aegilo-	A1 : :	1R	15M	_	L	Н	0	L	3-Jun
570	Triticum	poides	Azerbaijan	5R	10MR	_	L	Н	0	L	28-May
641	Triticum	monococcum subsp. aegilo-	Tuelcari	5R	5M	_	L	Н	0	L	22-May
041	Truicum	poides	Turkey	5R	5MR	10MR	0	M	L	L	23-May
2005	Triticum	monococcum subsp. aegilo-	Turkey	0	1R	15MR	L	M	0	0	8-Jun
2003	Trucum	poides	Turkey	0	1R	20MR	L	M	0	0	11-Jun
2010	Triticum	monococcum subsp. aegilo-	Turkey	1R	15M	30M	L	Н	0	0	9-Jun
2010	Trucum	poides	Turkey	5R	10MR	20MR	M	M	0	L	29-May
137	Triticum	monococcum subsp. monococ-	Turkey	10R	15M	20M	M	M	0	0	9-Jun
137	Trucum	cum	Turkey	10R	15MR	15MR	L	Н	L	0	12-Jun
2025	Triticum	monococcum subsp. monococ-	Turkey	10R	10R	15R	L	M	0	0	8-Jun
	2.000000	cum	1011127	30MR	30MR	35MR	M	M	0	0	29-May
2033	Triticum	monococcum subsp. monococ-	Portugal	0	5R	5R	M	M	L	L	7-Jun
	17 000000	cum	1 orrugui	0	1R	5R	M	M	0	0	28-May
2034	Triticum	monococcum subsp. monococ-	Bosnia-Herze-	0	1R	5MR	M	M	0	0	8-Jun
		cum	govina	5R	5R	10MR	M	Н	0	0	28-May
2039	Triticum	monococcum subsp. monococ-	Albania	10R	15MR	20MR	M	Н	0	0	11-Jun
		cum		10R	10R	30MR	L	M	0	0	3-Jun
10594	Triticum	monococcum subsp. aegilo-	Turkey	5R	15MR	15M	0	Н	0	M	11-Jun
		poides	-	0	1R	30M	L	M	0	0	8-Jun
10604	Triticum	monococcum subsp. monococ- cum	Turkey	1R 1R	1MR	5MR	M	M	Н	0 M	8-Jun
				10R	1R 10MR	10MR 15MR	M M	M M	M 0	M L	12-Jun 14-Jun
10634	Triticum	monococcum subsp. monococ- cum	Italy	5R	5R	20R	L	L	0	0	14-Jun
				10R	10MR	10MR	L	M	H	Н	12-Jun
10635	Triticum	monococcum subsp. monococ- cum	Georgia	15R	15R	15MR	L	M	L	Н	12-Jun
				5R	_	_	L		M	_	23-May
732	Triticum	urartu	Turkey	0	10M	_	L	Н	L	L	22-May
	_			5R	5M	_	M	Н	0	0	24-May
768	Triticum	urartu	Lebanon	10R	15MR	_	L	Н	0	0	26-May
				0	5M	_	L	Н	Н	Н	10-Jun
828	Triticum	urartu	Armenia	0	10MR	15M	M	M	Н	Н	28-May
024				5R	10M	_	0	Н	M	L	24-May
831	Triticum	urartu	Iran	1R	10M	_	0	Н	Н	Н	21-May
056	T :::	,	7	5R	5M	_	M	Н	Н	L	23-May
856	Triticum	urartu	Iraq	15R	30MS	_	L	Н	Н	Н	20-May
4	Triticam	timonhamii suhan ammania	Iron	1R	10M	30M	M	Н	0	0	24-May
4	Triticum	timopheevii subsp. armeniacum	Iran	1R	20M	_	M	Н	0	M	23-May
6	Triticum	timopheevii subsp. armeniacum	Turkey	0	20MS	20MS	L	Н	0	L	27-May
U	Trucum	umopneevu suosp. armeniacum	Turkey	5R	15M	20MS	M	M	0	L	29-May
7	Triticum	timopheevii subsp. armeniacum	Iraa	5R	1MR	_	M	Н	0	0	26-May
,	11 mcum	umopneevu suosp. armeniacum	Iraq	5R	10MR	_	L	Н	0	L	28-May
36	Triticum	timopheevii subsp. armeniacum	Iraq	1R	10M	_	M	Н	0	L	24-May
50	11 mount	opneern snosp. armenaeum	-ruq	1R	25M	_	L	Н	Н	M	27-May

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	resent. $-=$ no		Cou-ry of		Leaf rus	t	Barley dwarf	yellow virus			Heading
TA	Genus	species	origin	5/22	6/9	6/13	5/22	6/6	5/22	6/6	date
40	<i>m</i>			0	1MR	10MR	L	Н	0	0	6-Jun
49	Triticum	timopheevii subsp. armeniacum	Azerbaijan	1R	20MR	30MR	L	Н	0	M	29-May
007	<i>m</i> · · ·			0	10MR	_	0	Н	0	0	26-May
896	Triticum	timopheevii subsp. armeniacum	Iraq	1R	5MR	_	L	M	0	L	28-May
1000	T :::	. 1 . 1	T. 1	10R	20MR	30MR	Н	Н	0	0	8-Jun
1900	Triticum	timopheevii subsp. armeniacum	Turkey	15R	15MR	30MR	Н	Н	0	L	11-Jun
2893	Triticum	timopheevii subsp. armeniacum	Armenia	1R	5MR	30M	L	M	0	0	10-Jun
2093	Trucum	umopneevu suosp. armeniacum	Affilellia	5R	30MR	30M	L	Н	0	M	2-Jun
103	Triticum	timopheevii subsp. timopheevii	Serbia	5R	5MR	5MR	0	M	L	0	10-Jun
103	Trucum	imopicevii suosp. imopicevii	Gerbia	10R	15R	20MR	L	M	L	L	12-Jun
10473	Triticum	turgidum subsp. carthlicum	Turkey	1R	30MS	40MS	M	Н	L	M	27-May
10175	17 the cont	tar graum suosp. car miteum	Turkey	20MR	50MS	60MS	Н	Н	0	L	28-May
10477	Triticum	turgidum subsp. carthlicum	Georgia	10R	60MS	60MS	L	Н	M	L	26-May
		G		25MR	60MS	60MS	Н	Н	Н	Н	28-May
60	Triticum	turgidum subsp. dicoccoides	Israel	10R	5M	_	M	Н	0	L	24-May
				15MR	15M	_	Н	Н	0	M	27-May
107	Tuitioum	tunaidum auban diagoggidas	Syrian Arab	1R	5M	_	Н	Н	0	_	23-May
107	Triticum	turgidum subsp. dicoccoides	Republic (Go- lan Heights)	10M	20M	_	M	Н	Н	M	23-May
				1M	50MS	_	L	Н	0	L	26-May
1060	Triticum	turgidum subsp. dicoccoides	Lebanon	20MR	30MS	_	M	Н	0	L	27-May
1000	<i>m</i>			5R	30MS	_	Н	Н	Н	L	6-Jun
1082	Triticum	turgidum subsp. dicoccoides	Turkey	10R	50S	_	M	Н	Н	M	26-May
1181	Tuitioum	tunaidum auban diagoggidas	Palestine	1R	10MS	_	Н	Н	0	_	26-May
1101	Triticum	turgidum subsp. dicoccoides	(West Bank)	5M	20M	_	Н	Н	0	M	23-May
1385	Triticum	turgidum subsp. dicoccoides	Iraq	1R	20MS	_	M	Н	Н	L	22-May
1303	Trucum	iurgiaum suosp. aicoccoiaes	пац	15MR	30MS	_	M	Н	Н	Н	27-May
1454	Triticum	turgidum subsp. dicoccoides	Palestine	5R	25MS	_	L	Н	0	L	26-May
1454	Trucum	in grain subsp. acoccoiaes	(West Bank)	15R	25M	_	M	Н	0	L	27-May
10479	Triticum	turgidum subsp. dicoccum	Turkey	5R	20MS	_	M	Н	L	L	7-Jun
				15R	60MS	60MS	M	M	L	L	10-Jun
10480	Triticum	turgidum subsp. dicoccum	Turkey	10R	20MR	30S	L	Н	M	L	3-Jun
		1		25MR	25M	30MS	M	M	0	L	26-May
10484	Triticum	turgidum subsp. dicoccum	Oman	10R	60MS	-	M	Н	Н	Н	27-May
10504	m		, , , , , , , , , , , , , , , , , , ,	15R	60S	80S	Н	Н	Н	Н	29-May
10504	Triticum	turgidum subsp. dicoccum	Iran	15MR	15MR	20MR	L	M M	H 0	Н	14-Jun
10517	Triticum	turgidum subsp. dicoccum	Armenia	5R	20M	40M	L		0	0	12-Jun
				15R 5R	15MR 20M	30MR 30M	M M	M H	0	0 M	14-Jun 6-Jun
2807	Triticum	turgidum subsp. paleocolchicum	Georgia	15MR	15MR	60M	M	Н	0	M	29-May
				10R	10MR	20M	M	М	M	L	4-Jun
10858	Triticum	turgidum subsp. polonicum	Pakistan	20R	20MR	20MR	M	Н	0	L	4-Jun
10859	Triticum	turgidum subsp. polonicum	India	15MR	40MS	50S	L	Н	Н	L	28-May
				10R	15M	15S	M	Н	Н	Н	28-May
10534	Triticum	turgidum subsp. turanicum	Turkey	15R	15MR	15M	L	L	0	L	6-Jun
1050-	T			1R	25S	30S	M	M	M	L	11-Jun
10537	Triticum	turgidum subsp. turanicum	Iran	15R	30M	40S	M	M	M	M	4-Jun

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spores pr	resent. — = no	test.	Cou-ry of		Leaf rus	t	Barley dwarf	yellow f virus		dery dew	Heading
TA	Genus	species	origin	5/22	6/9	6/13	5/22	6/6	5/22	6/6	date
			Syrian Arab	15R	35MS	40M	M	Н	Н	L	27-May
10541	Triticum	turgidum subsp. turanicum	Republic	10R	25MS	50MS	M	Н	L	M	28-May
10.15				0	30MS	_	L	Н	0	L	22-May
1945	Aegilops	bicornis	Egypt	1R	25M	_	L	Н	0	L	19-May
1051	4 -7		Y 1	1M	_	_	L	_	0	_	18-May
1951	Aegilops	bicornis	Israel	1R	20MS	_	M	Н	0	L	17-May
2240	A :7	1	T. 1	1R	0	_	0	M	0	0	25-May
2349	Aegilops	biuncialis	Turkey	1R	1R	10R	0	M	0	L	24-May
2662	Assilans	himaialis	Syrian Arab	0	5M	_	M	Н	0	L	18-May
2663	Aegilops	biuncialis	Republic	0	5MR	_	L	Н	0	L	17-May
2702	A :1	Li	Bosnia-Herze-	0	1MR	_	L	Н	0	0	2-Jun
2783	Aegilops	biuncialis	govina	0	5R	5MR	L	Н	0	L	27-May
10057	A :7	1	T '1	0	5MR	_	0	Н	0	L	20-May
10057	Aegilops	biuncialis	Libya	1R	5MR	_	L	Н	0	L	20-May
10050	4 .7			10R	15MR	_	M	Н	0	L	24-May
10058	Aegilops	biuncialis	Azerbaijan	0	5MR	_	M	Н	0	L	22-May
10060	A :7	1	G.	5R	10M	_	L	Н	0	L	22-May
10060	Aegilops	biuncialis	Greece	20MR	20MR	_	L	Н	L	L	21-May
2106	A :7		T. 1	0	5MR	15MR	0	Н	0	L	28-May
2106	Aegilops	columnaris	Turkey	15MR	15MR	20MR	M	Н	0	L	26-May
2182	Aegilops	columnaris	Turkey	0	1R	5MR	M	Н	0	0	28-May
2656	4 .7		Syrian Arab	5R	10M	_	M	Н	0	L	20-May
2656	Aegilops	columnaris	Republic	20R	20M	_	0	Н	0	L	22-May
10010				10R	15M	_	L	Н	0	L	24-May
10049	Aegilops	columnaris	Azerbaijan	0	10MR	_	L	Н	0	L	18-May
2102	4 -7		T. 1	0	5MR	_	0	M	0	0	28-May
2102	Aegilops	comosa var. comosa	Turkey	5R	5R	_	L	M	0	0	26-May
2757	A :7		G.	5R	5M	_	L	Н	0	0	25-May
2757	Aegilops	comosa var. comosa	Greece	10R	15MR	15MR	L	Н	0	0	27-May
2724	A :7	1	G.	0	10M	_	L	Н	0	_	25-May
2734	Aegilops	comosa var. subventricosa	Greece	0	5MR	_	0	Н	0	L	22-May
1072	A :1	(4-)	T	5R	25M	_	M	Н	0	M	20-May
1873	Aegilops	crassa (4x)	Iran	5R	40MS	_	L	Н	0	M	21-May
1876	Aegilops	avassa (Av)	Iran	0	20MS	_	L	Н	0	L	24-May
1670	Aegitops	crassa (4x)	ITAII	0	80S	_	0	Н	0	L	26-May
1881	Aegilops	crassa (4x)	Afghanistan	1M	20M	_	L	Н	0	L	20-May
1001	Aegitops	Crassa (4x)	Aignamstan	0	25MS	_	L	Н	0	L	18-May
2319	Aggilons	crassa (Av)	Turkey	0	25MS	_	L	Н	0	L	22-May
2319	Aegilops	crassa (4x)	Turkey	0	30MS	_	L	Н	0	L	20-May
10340	Anailana	awassa	Toiilriston	1R	70MS	_	L	Н	0	0	25-May
10340	Aegilops	crassa	Tajikistan	0	80MS	_	L	Н	0	L	26-May
1858	Aegilops	cylindrica	Turkey	0	10M	Н	L	Н	0	L	24-May
1020	Aeguops	cynnun icu	Turkey	1R	20M	_	L	Н	0	L	26-May
2203	Aggilons	cylindrica	Iron	1MR	60MS	_	M	Н	0	L	26-May
2203	Aegilops	cylindrica	Iran	0	60MS	_	L	Н	0	L	26-May
2204	Aegilops	cylindrica	Armenia	1R	50MS	_	L	Н	0	L	27-May
2204	Aeguops	Cyunarica	Aimella	0	60MS	_	L	Н	0	L	28-May

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spores pr	resent. — = no		Cou-ry of				yellow f virus	Pow mile	dery dew	Heading	
TA	Genus	species	origin	5/22	6/9	6/13	5/22	6/6	5/22	6/6	date
2221	,	1: 1:	T. 1	0	60MS	_	L	M	0	0	26-May
2331	Aegilops	cylindrica	Turkey	0	60MS	_	0	Н	0	L	28-May
10140	,	1: 1:	77 11 .	5M	30M	_	M	Н	0	L	25-May
10148	Aegilops	cylindrica	Kazakhstan	0	15MS	_	M	Н	Н	M	20-May
10246	4	1: 1:	m	0	30M	_	L	Н	0	L	26-May
10346	Aegilops	cylindrica	Tajikistan	1R	40MS	_	M	Н	0	L	24-May
10256	4 .1	1: 1:	17	0	_	_	M	Н	0	_	26-May
10356	Aegilops	cylindrica	Kyrgyzstan	1R	20M	_	M	Н	0	L	24-May
1901	Assilons	acuiculata	Tuelcore	0	5MR	_	L	Н	0	L	22-May
1801	Aegilops	geniculata	Turkey	1R	5MR	_	L	Н	0	L	24-May
1805	A :1		Toulous	0	5MR	_	0	Н	0	L	22-May
1603	Aegilops	geniculata	Turkey	1R	5MR	_	L	Н	0	L	24-May
1879	A :1		T4	5R	20MR	_	L	Н	Н	_	17-May
10/9	Aegilops	geniculata	Jordan	1R	10MR	_	0	Н	0	L	19-May
2041	Assilons	acuiculata	Morocco	1R	10MR	15MR	L	Н	0	L	26-May
2041	Aegilops	geniculata	Morocco	10R	15R	_	0	M	0	L	26-May
2227	Aegilops	geniculata	Morocco	0	5M	_	L	Н	0	L	22-May
2221	Aeguops	geniculaia	Morocco	5R	5MR	_	L	Н	0	L	20-May
2239	Aggilons	ganiaulata	Morocco	10R	15M	_	L	Н	0	L	22-May
2239	Aegilops	geniculata	Morocco	5R	5MR	_	M	Н	0	L	20-May
2649	Aegilops	geniculata	Turkey	1R	10M	_	0	Н	0	_	18-May
2049	Aeguops	geniculaia	Turkey	10R	10M	_	0	Н	0	L	16-May
2650	Aegilops	ganiaulata	Syrian Arab	0	1MR	_	0	M	0	L	20-May
2030	Aeguops	geniculata	Republic	10R	20M	_	0	M	0	L	19-May
2786	Aegilops	geniculata	Bosnia-Herze-	1R	15MR	_	L	M	0	0	24-May
2700	Aeguops	geniculaia	govina	5R	5R	10R	0	M	0	L	23-May
2787	Aegilops	geniculata	Croatia	0	1MR	_	L	Н	0	0	24-May
2707	Aeguops	geniculaia	Croatia	0	5R	5MR	L	Н	0	L	23-May
2899	Aegilops	geniculata	Israel	15R	15MR	30MR	0	L	0	0	23-May
	Aeguops	geniculaia	131401	5R	10MR	30MR	0	M	0	L	20-May
10029	Aegilops	geniculata	Morocco	1R	5MR	_	0	Н	0	0	24-May
10027	110811000	05.1101111111	111010000	1R	5MR	_	0	Н	0	L	22-May
2346	Aegilops	juvenalis	Iran	0	20M	_	L	Н	0	L	22-May
	120.000	J		1R	40MS	_	M	Н	0	L	20-May
2347	Aegilops	juvenalis	Iraq	1M	25M	_	M	Н	0	Н	17-May
		J	1	5M	10M	_	M	Н	L	L	22-May
1980	Aegilops	kotschyi	Israel	1R	10M	_	Н	Н	0	L	17-May
				5R	_	_	Н	_	0	_	16-May
1981	Aegilops	kotschyi	Egypt	1R	10M	_	M	Н	0	L	18-May
	0 -F-		67 F	0	5MR	_	Н	Н	L	M	17-May
1984	Aegilops	kotschyi	Egypt	0	5R	5MR	L	Н	0	L	19-May
	0 -F-		97 F	0	10M	_	M	Н	0	L	17-May
2207	Aegilops	kotschyi	Uzbekistan	10R	_	_	L	_	0	_	16-May
-	0 -F-			30MR	30MR	_	L	Н	0	L	16-May
2667	Aegilops	kotschyi	Jordan	1R	10M	_	M	Н	0	_	18-May
				1R	10M	_	M	Н	0	L	16-May

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зрогез рі	resent. — = no		Cou-ry of		Leaf rus	t		yellow f virus	Pow mile		Heading
TA	Genus	species	origin	5/22	6/9	6/13	5/22	6/6	5/22	6/6	date
1010	,			1R	5MR	_	M	Н	0	0	22-May
1910	Aegilops	longissima	Israel	0	5MR	20MR	M	Н	0	0	22-May
1021	4 :7	1	T 1	1R	5M	_	Н	Н	0	0	20-May
1921	Aegilops	longissima	Jordan	10MS	30MS	_	L	Н	0	L	20-May
1006	A :1	1	T. 1	0	30M	_	L	Н	0	L	20-May
1906	Aegilops	markgrafii	Turkey	5R	5MR	_	M	Н	0	L	22-May
1000	A :1		T I 1	10R	15MR	_	L	Н	0	0	26-May
1908	Aegilops	markgrafii	Unknown	5R	5MR	_	M	Н	0	0	27-May
2087	Aegilops	markgrafii	Turkey	0	1R	5MR	L	Н	0	0	8-Jun
2067	Aegiiops	таткугаји	Turkey	1R	5MR	10MR	L	Н	0	L	10-Jun
2090	Aegilops	markgrafii	Turkey	1R	1R	_	L	Н	0	0	26-May
2090	Aegitops	таткугаји	Turkey	0	1MR	5MR	L	Н	0	L	28-May
2096	Aegilops	markgrafii	Turkey	0	5MR	5MR	L	Н	L	L	28-May
1961	Aegilops	neglecta	Iraq	1R	10MR	10MR	L	M	0	L	22-May
1901	Aegitops	negiecia	Iraq	15MR	15MR	_	L	Н	0	L	23-May
2153	Aegilops	neglecta	Turkey	0	1R	5MR	L	M	0	L	28-May
2133	Aegitops	negiecia	Turkey	10R	10MR	20MR	0	M	L	L	27-May
2156	Aegilops	neglecta	Turkey	0	5MR	10MR	M	M	0	L	28-May
2130	Aegitops	negiecia	Turkey	0	10MR	20MR	L	M	0	M	28-May
2341	Aegilops	neglecta	Turkey	0	1M	_	M	Н	0	0	23-May
2571	Aeguops	negieciu	Turkey	1R	5MR	_	L	Н	0	L	25-May
2790	Aegilops	neglecta	Bosnia-Herze-	1R	5M	_	L	Н	0	0	26-May
2170	Aeguops	negieciu	govina	1R	10M	_	L	Н	0	L	26-May
2793	Aegilops	neglecta	Croatia	0	5MR	_	L	Н	0	0	27-May
2173	пезиорз	negiceia	Croatia	10R	20MR	20M	L	Н	0	L	27-May
10062	Aegilops	neglecta	Spain	0	1R	5MR	L	Н	0	L	3-Jun
10002	Tieguops .	negreen	Брин	0	5R	10MR	L	Н	0	0	3-Jun
10064	Aegilops	neglecta	Greece	5R	5R	5MR	L	M	0	0	10-Jun
	18			0	1R	5MR	L	M	0	0	28-May
10065	Aegilops	neglecta	Ukraine	0	5MR	_	0	Н	0	0	2-Jun
	0 1	0		0	1R	_	L	M	0	0	28-May
10066	Aegilops	neglecta	France	1R	5M	5M	L	Н	0	0	24-May
	0 1			5R	5MR	1OM	L	Н	0	L	24-May
1886	Aegilops	peregrina	Syrian Arab	10R	10M	_	L	Н	0	L	18-May
			Republic	20MR	20MR	_	M	Н	0	L	18-May
1889	Aegilops	peregrina	Israel	10R	15MR	15MR	0	M	0	L	24-May
				5R	5MR	20MR	0	M	0	0	26-May
1897	Aegilops	peregrina	Turkey	10R	15MR	_	L	Н	0	L	21-May
		-		10MR	15MR	_	L	Н	0	M	19-May
1898	Aegilops	peregrina	Lebanon	0	20M	_	L	Н	0	0	23-May
				0	10M	- 2514	L	M	0	L	22-May
1918	Aegilops	peregrina	Turkey	0	5M	25M	L	M	0	L	26-May
				0 1D	20MS	15D	0	H	0	L	26-May
2775	Aegilops	peregrina	Israel	1R	1R	15R	L	M	0	0	24-May
				10R	15MR	15MR	L	Н	0	L	23-May
1837	Aegilops	searsii	Palestine	5R	5M	_	M	Н	Н	Н	26-May
	1			10R	25MS	_	L	Н	Н	L	26-May

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.t b	esent. — = no		Cou-ry of		Leaf rus	t _	Barley dwarf		Pow mile		Heading
TA	Genus	species	origin	5/22	6/9	6/13	5/22	6/6	5/22	6/6	date
22.14	4 .,		Syrian Arab	1R	10M	_	L	Н	Н	_	24-May
2344	Aegilops	searsii	Republic	5R	_	_	Н	_	Н	_	24-May
2255	4 .7		D. L. C	1R	_	_	M	_	0	_	24-May
2355	Aegilops	searsii	Palestine	1R	5MR	_	L	Н	L	L	24-May
2660				1R	10M	_	M	Н	0	_	24-May
2669	Aegilops	searsii	Jordan	5R	5MR	_	L	Н	0	L	25-May
1001				5R	_	_	Н	_	0	_	22-May
1996	Aegilops	sharonensis	Israel	5MR	20S	_	L	Н	0	L	18-May
				1R	5MR	_	M	Н	Н	Н	22-May
1998	Aegilops	sharonensis	Israel	0	5R	25MR	0	Н	0	L	21-May
10434	Aegilops	sharonensis	Israel	1R	5MR	_	L	Н	0	L	22-May
				10R	10MR	10MR	L	Н	0	0	26-May
1772	Aegilops	speltoides var. ligustica	Turkey	5R	5R	5MR	L	M	0	0	27-May
				1R	1R	1R	L	М	0	0	26-May
1778	Aegilops	speltoides var. ligustica	Turkey	0	1R	1R	L	М	0	0	27-May
				1R	1R	1R	L	M	0	0	22-May
1789	Aegilops	speltoides var. ligustica	Iraq	1R	1R	1R	L	Н	0	0	26-May
				0	1MR	1MR	L	Н	0	0	8-Jun
2646	Aegilops	speltoides var. ligustica	Turkey	0	1R	1R	L	Н	0	0	7-Jun
				0	0	10R	L	M	0	0	3-Jun
2781	Aegilops	speltoides var. ligustica	Israel	0	1R	1R	0	Н	0	0	28-May
				0	0	1R	L	Н	0	0	24-May
1795	Aegilops	speltoides var. speltoides	Iraq	5R	5R	5MR	L	Н	0	0	26-May
				1R	0	1R	L	M	0	0	24-May
1971	Aegilops	speltoides var. speltoides	Turkey	1R	1R	5MR	L	Н	0	0	25-May
				0	0	1R	L	Н	0	0	6-Jun
2342	Aegilops	speltoides var. speltoides	Israel	0	1R	5MR	L	Н	0	0	24-May
				0	1R	10R	0	L	0	0	2-Jun
2356	Aegilops	speltoides var. speltoides	Turkey	0	1R	1R	L	M	0	0	10-Jun
			Syrian Arab	0	5M	_	L	Н	0	L	26-May
10545	Aegilops	speltoides var. speltoides	Republic	10MR	10MR	15MR	L	Н	0	L	24-May
		speltoides var. speltoides/ligus-	1	0	0	5R	L	M	0	0	2-Jun
2780	Aegilops	tica mix	Israel	1R	1R	1R	L	Н	0	0	27-May
				0	10M	40MS	L	M	0	L	4-Jun
1588	Aegilops	tauschii	Turkey	15R	30M	_	M	Н	Н	L	2-Jun
				0	10M	30M	0	Н	L	L	26-May
1626	Aegilops	tauschii f. strangulata	Turkmenistan	5R	5MR	15M	M	M	0	L	27-May
				10R	10MR	15MR	0	M	L	L	26-May
1642	Aegilops	tauschii f. strangulata	Iran	5R	10MR		L	Н	0	L	26-May
				5R	10M	25M	L	Н	0	L	24-May
1659	Aegilops	tauschii f. strangulata	Azerbaijan	15MR	15M		L	Н	0	L	26-May
				1R	5M		M	Н	0	0	26-May
1662	Aegilops	tauschii	Azerbaijan	10R	15M	20MS	0	M	0	L	26-May
			+	1R	1MR	201115	0	M	0	0	26-May
1668	Aegilops	tauschii f. strangulata	Azerbaijan	1R	5MR	10MR	L	M	L	L	27-May
				0	5M	TOWIK	L	M	0	L	26-May
1673	Aegilops	tauschii	Azerbaijan	5R	25M	_	L	M	0	L	24-May
	1		1	JK	23IVI		L	IVI	U	L	24-1 v1 ay

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spores pi	resent. — = no	tust.	Cou-ry of		Leaf rus	t	Barley yello dwarf virus				Heading
TA	Genus	species	origin	5/22	6/9	6/13	5/22	6/6	5/22	6/6	date
1717	,		, , , , , , , , , , , , , , , , , , ,	5R	5MR	_	L	Н	M	M	22-May
1717	Aegilops	tauschii	Iran	5R	10MR	_	L	Н	L	L	21-May
2274	,		D.11.	1R	15M	_	M	Н	M	L	17-May
2374	Aegilops	tauschii	Pakistan	1R	50MS	_	M	Н	Н	L	16-May
2270				5R	10MR	_	L	Н	L	Н	20-May
2378	Aegilops	tauschii	Iran	5R	10MR	_	L	Н	Н	Н	20-May
2200	A .1	. 1	A.C.1	1MR	20MS	_	M	Н	Н	Н	16-May
2388	Aegilops	tauschii	Afghanistan	1MR	60S	_	Н	Н	Н	Н	16-May
2398	Assilons	tauashii	Afahaniatan	1R	30MS	_	L	Н	Н	Н	19-May
2396	Aegilops	tauschii	Afghanistan	1MR	40MS	_	L	Н	Н	Н	21-May
2422	A :1	41.::	A C-1	1R	10M	_	M	Н	0	L	20-May
2422	Aegilops	tauschii	Afghanistan	1MR	10MS	_	M	Н	0	L	18-May
2490	A :1	41.::	T	5R	20MS	_	M	Н	Н	Н	8-Jun
2489	Aegilops	tauschii	Iran	5R	40MS	_	M	Н	Н	Н	28-May
2521	Assilons	tauachii	Luon	5R	15M	_	M	Н	Н	Н	22-May
2321	Aegilops	tauschii	Iran	1R	60S	_	L	Н	Н	Н	24-May
2536	Aegilops	tauschii	Afghanistan	10R	10M	_	L	Н	0	L	17-May
2330	Aeguops	iauscnii	Aighanistan	15R	30M	_	M	Н	0	M	18-May
2574	Aegilops	tausohii	Armenia	0	50MS	_	M	Н	Н	Н	27-May
2374	Aeguops	tauschii	Affilellia	1M	40S	_	L	Н	Н	Н	27-May
2586	Aegilops	tauschii	Caamaia	1R	20M	_	M	Н	0	L	26-May
2360	Aeguops	lausenti	Georgia	10R	20MS	_	M	Н	0	L	4-Jun
10077	Aegilops	tauschii	Pakistan	1R	10M	_	L	Н	0	L	20-May
10077	Aeguops	iauscnii	Fakistali	5M	40MS	_	M	Н	0	M	16-May
10106	Aegilops	tauschii	Kyrgyzstan	1R	5M	_	Н	Н	Н	Н	4-Jun
10100	Aeguops	iausciii	Kyigyzstan	0	20MS	_	M	Н	Н	Н	8-Jun
10134	Aegilops	tauschii	PR China	0	5M	30MS	M	Н	0	0	11-Jun
10154	Aeguops	iausciii	1 K Cillia	15MR	40MS	_	M	M	Н	Н	29-May
10142	Aegilops	tauschii	Syrian Arab	1R	5MR	_	L	Н	0	L	22-May
10172	Aeguops	iausciii	Republic	1R	20MR	_	L	Н	M	M	24-May
10155	Aegilops	tauschii	Tajikistan	10R	20M	_	M	Н	L	L	20-May
10100	The group's	TOWN OF THE STATE	Tajinistai	10MR	25M	_	M	Н	0	L	18-May
10166	Aegilops	tauschii	Turkmenistan	10R	20MR	_	L	Н	Н	Н	20-May
	11181111			25MR	25MR	_	L	Н	Н	Н	18-May
10189	Aegilops	tauschii	Uzbekistan	1R	20M	_	Н	Н	Н	Н	22-May
10107	Tie gueps	Total Control	020011134411	15R	30MS	_	Н	Н	Н	Н	19-May
10193	Aegilops	tauschii	Uzbekistan	5R	20M	_	L	Н	L	L	25-May
	9r.s		32223	10R	40MS	_	L	Н	Н	L	22-May
1725	Aegilops	triuncialis	Turkey	20R	25MR	_	Н	Н	0	0	23-May
	0 1			15R	15MR	_	M	Н	0	L	21-May
1740	Aegilops	triuncialis	Turkey	1R	1MR	_	L	Н	0	0	25-May
	0 1			0	10MR	_	0	M	0	L	21-May
1748	Aegilops	triuncialis	Afghanistan	1R	10MR	_	M	Н	0	0	20-May
	0 -F-			15R	15MR		L	Н	0	L	19-May
1752	Aegilops	triuncialis	Iran	10R	20MR	20MR	L	M	0	0	26-May
				5R	10MR	20MR	M	Н	0	0	28-May

Table 1. Data from the core set of *Triticum* and *Aegilops* species evaluated for disease severity in the field, Manhattan, KS, for field resistance to leaf rust, barley yellow dwarf virus, and powdery mildew. Heading date also was recorded. Leaf rust was evaluated on the Cobb scale, where a number indicating the percent of leaf area affected is followed by a letter designation, R = resistant flecks or very small pustules, MR = moderately resistant small pustules, R = moderate = moderately = modera

TA Genus Species S	53		species	Cou 1y or	f Leaf rust		Leaf rust		y yellow Powdery mildew		Heading	
1753 Aegilops triuncialis Turkey	55	A :1		origin	5/22	6/9	6/13	5/22	6/6	5/22	6/6	date
1755 Aegilops triuncialis Iran 1R 10MR - M	55		•		0		_	0	Н	0	0	26-May
1755		Aeguops	triuncialis	Turkey	0	5MR	10MR	L	M	0	L	28-May
100				- L	1R	10MR	_	M	Н	0	0	20-May
2155 Aegilops triuncialis Morocco 1R 15MR M H L	15	Aegilops	triuncialis	Iran	10R	10MR	_	M	Н	0	L	17-May
15R 15MR -				77 11	5R	15M	_	L	Н	0	L	27-May
Aegilops triuncialis Turkey 0	55	Aegilops	triuncialis	Kazakhstan	15R	15MR	_	M	Н	L	M	27-May
2279 Aegilops triuncialis Turkey 0 SMR 10MR L M 0	20	4 .7			0	5MR	5MR	0	Н	0	L	27-May
Turkey 0 SMR 10MR L M 0	29	Aegilops	triuncialis	Morocco	1R	10MR	_	L	Н	0	L	25-May
2304 Aegilops triuncialis Turkey 0 SMR IOMR L M 0	70	A :1	4	Total	0	5MR	10MR	L	M	0	L	28-May
10	19	Aeguops	iriunciaiis	Turkey	0	5MR	10MR	L	M	0	0	27-May
1	24	A :1	4	Total	0	1R	5MR	L	M	0	L	2-Jun
Traq 10R 15M 30S L H 0 0 0 0 0 0 0 0 0)4	Aeguops	iriunciaiis	Turkey	0	5MR	10MR	L	M	0	L	28-May
10R 15M 30S L H 0	25	A :1	4	T	5R	10MR	20M	L	Н	0	L	27-May
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	د،	Aeguops	trunctaus	Iraq	10R	15M	30S	L	Н	0	0	27-May
2788	22	Assilons	tuismaialia	Syrian Arab	10R	15M	_	Н	Н	0	L	20-May
2788 Aegilops triuncialis Croatia 0 $5MR$ — 0 H 0 10013 Aegilops triuncialis $1R$ $5MR$ — L H 0 10055 Aegilops triuncialis $1R$ <td>22</td> <td>Aeguops</td> <td>iriunciaiis</td> <td>Republic</td> <td>15R</td> <td>15M</td> <td>_</td> <td>0</td> <td>M</td> <td>0</td> <td>L</td> <td>19-May</td>	22	Aeguops	iriunciaiis	Republic	15R	15M	_	0	M	0	L	19-May
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	20	Aggilons	triuncialis	Croatia	0	1R	_	L	Н	0	0	27-May
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	30	Aeguops	truncians	Cioana	0	5MR	_	0	Н	0	L	28-May
10055 Aegilops triuncialis Portugal O 1R - L H O)13	Aggilons	triuncialis	Morocco	1R	5MR	_	L	Н	0	L	22-May
10055 Aegilops triuncialis Portugal 5R 5R - L M 0	713	Aeguops	ir unctaits	Wiorocco	0	5MR	20MR	L	Н	0	L	2-Jun
10056 Aegilops triuncialis Greece O 5MR 10MR O M O)55	Aggilons	triuncialis	Portugal	0	1R	_	L	Н	0	0	27-May
10056 Aegilops triuncialis Greece 10R 10MR - L M 0	155	Aeguops	ir turic tatis	1 Ortugai	5R	5R	_	L	M	0	L	28-May
10)56	Aegilons	triuncialis	Greece	0	5MR	10MR	0	M	0	0	4-Jun
10358 Aegilops truncialis Tajikistan 25MR 25MR 25MR M M 0	,50	педиорз	in tune tuns	Greece		10MR	_	L	M	0	L	28-May
1825 Aegilops umbellulata Turkey 0 1R - 0 H 0	358	Aegilons	triuncialis	Tajikistan	10R		40MR	M	M	0	L	28-May
1825 Aegilops umbellulata Turkey 0 10M - 0 H 0 1831 Aegilops umbellulata Iran 10R 10M - 0 H 0 1850 Aegilops umbellulata Syrian Arab Republic 5R 10M - L H 0 1851 Aegilops umbellulata Unknown 10R 15MR - L H 0 1851 Aegilops umbellulata Unknown 10R 15MR - L H 0 1851 15MR - D H 0 1851 1851 15MR - D H 0 1851 1851 15MR - D H 0 1851		110811075	Tribite teats	Taginistan	25MR	25MR	25MR	M	M	0	0	28-May
1831 Aegilops umbellulata 1	25	Aegilops	umbellulata	Turkey			_	_			0	2-Jun
1831 Aegilops umbellulata Iran 15MR 15MR - L H 0		g			+		_	-			L	28-May
15MR 15MR - L H 0	31	Aegilops	umbellulata	Iran		-	_				L	17-May
1850 Aegilops umbellulata Republic 5R 10M — L H 0 1851 Aegilops umbellulata Unknown 20R 25MR — M H 0 10R 15MR — L H 0 1R 15MR — 0 H 0		8 1					_	_			L	17-May
1851 Aegilops umbellulata Unknown 20R 25MR — M H 0 10R 15MR — L H 0 1R 15M — 0 H 0	50	Aegilops	umbellulata					+	-		L	17-May
1851 Aegilops umbellulata				Republic	_	_					L	18-May
1R 15M _ 0 H 0	51	Aegilops	umbellulata	Unknown				-			0	2-Jun
					+	1	_	_			L	28-May
1852 Aegilops umbellulata Turkey	52	Aegilops	umbellulata	Turkey			_	_			L	27-May
1R 1MR - L H 0								_			L	27-May
2641 Aegilops umbellulata	41	Aegilops	umbellulata	Turkey		-		-			L	20-May
15R 15MR — L M 0	-							_	_		L	18-May
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	335	Aegilops	umbellulata	Azerbaijan				1			_	20-May
10R — — 0 H 0 0 1MR 15M 0 M 0	-				+			-	-		0	18-May 26-May
2762 <i>Aegilops uniaristata</i> Greece 0 1MR 15M 0 M 0 1R 10MR 20MR L H 0	52	Aegilops	uniaristata	Greece					_	_		28-May
								+			L L	24-May
2766 Aegilops uniaristata Greece	56	Aegilops	uniaristata	Greece				_			H	24-May 24-May
								_			0	27-May
2768 $Aegilops$ $uniaristata$ $Greece$ $0 10M - 0 H 0$ $0 5M - L H 0$		Aegilops	uniaristata	Greece				+			L	27-May 25-May

Table 1. Data from the core set of *Triticum* and *Aegilops* species evaluated for disease severity in the field, Manhattan, KS, for field resistance to leaf rust, barley yellow dwarf virus, and powdery mildew. Heading date also was recorded. Leaf rust was evaluated on the Cobb scale, where a number indicating the percent of leaf area affected is followed by a letter designation, R = resistant flecks or very small pustules, MR = moderately resistant small pustules, M = moderate small to medium size pustules, MS = moderately susceptible medium to large pustules, and S = susceptible with large pustules. Rating of the leaves with virus symptoms was S = moderately susceptible signs of infection, S = moderately or less of the leaf area with visible symptoms, S = moderately mildew present on leaves rated as S = moderately symptoms, and S = moderately or less of the leaf area with mildew spores, S = moderately mildew present on leaves rated as S = moderately mildew seen, S = moderately mildew spores, S = moderately or less of leaf area with mildew spores, S = moderately mildew present on leaves rated as S = moderately mildew spores, and S = moderately mildew spores, S = moderately mildew spores, and S = moderately mildew spores, S = moderately mildew spores, and S = moderately mildew spores, and S = moderately mildew spores, S = moderately mildew spores, and S = moderately mildew spores, and

spores pr			Cou-ry of				Barley yellow dwarf virus			dery dew	Heading
TA	Genus	species	origin	5/22	6/9	6/13	5/22	6/6	5/22	6/6	date
2655	Aegilops	vavilovii	Jordan	0	10M	_	L	Н	M	Н	20-May
2033	Aeguops	vaviiovii	Jordan	0	20MS	_	L	Н	L	Н	18-May
2210	Aegilops	ventricosa	Libya	0	_	_	M	_	0	_	17-May
2210	Aeguops	venincosa	Libya	0	40MS	_	L	Н	0	L	20-May
2230	Aegilops	ventricosa	Morocco	0	1MR	_	0	M	0	M	27-May
2230	педиорз	venincosa	Morocco	1R	10MR	_	L	Н	0	L	26-May
2741	Ambly-	muticum	Turkey	0	1R	20MR	0	Н	0	0	8-Jun
2711	opyrum	Thurse cont	Turkey	0	5MR	_	L	Н	0	L	27-May
2199	Dasypyrum	villosum	Croatia	10R	15MR	_	M	Н	0	0	17-May
	<i>y</i> F <i>y</i>			15R	15MR	15MR	M	M	0	0	19-May
10225	Dasypyrum	villosum	Italy	0	1R	5MR	M	Н	0	0	19-May
	<i>y</i> F <i>y</i> :			1R	10MR	_	L	Н	0	0	17-May
10226	Dasypyrum	villosum	Bulgaria	0	0	_	L	Н	0	0	24-May
	313			5R	10R	_	0	Н	0	0	22-May
10232	Dasypyrum	villosum	Italy	0	20MR	_	0	M	0	0	18-May
	313		,	10R	15R	_	M	Н	0	0	17-May
10235	Dasypyrum	villosum	France	0	5MR	_	Н	Н	0	0	19-May
				10R	15R	_	M	Н	0	0	20-May
10239	Dasypyrum	villosum	Turkey	1R	1R		M	Н	0	0	22-May
			,	10R	10R	10MR	L	Н	0	0	20-May
10273	Dasypyrum	villosum	Greece	5R	5MR	_	M	Н	0	0	18-May
	313			0	10MR	_	M	Н	0	L	16-May
10289	Dasypyrum	villosum	Greece	0	1MR	_	L	Н	0	0	20-May
	717			10R	10MR	_	M	Н	0	0	19-May
10662	Dasypyrum	villosum	Greece	0	5MR	_	M	Н	0	0	18-May
	111			0	5MR	_	M	Н	0	0	16-May
10664	Dasypyrum	villosum	Ukraine	0	15MR	15MR	0	Н	0	0	20-May
	717			0	5MR	_	L	Н	0	0	17-May