News.

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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.

Jaidee R, Polthanee A, Saenjan P, Kirkham MB, and Promkumbut A. 2013. Pre- or post-rice soybean production with phosphorus fertilization under rainfed conditions. Aust J Crop Sci 7(1):22-31.

Knewtson SJB, Kirkham MB, Janke RR, Murray LW, and Carey EE. 2012. Soil quality after eight years under high tunnels. HortSci 47(11):1630-1633.

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 F_3, where TA5655 is a disomic wheat-*Elymus tsukushiense* Honda Robertsonian translocation TW·1E^{ts}#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^{ts}#1S, consisting of the complete long arm and most of the short arm of a wheat chromosome and a distal segment derived from 1E^{ts}#1S. The E^{ts}#1S segment in this translocation has a gene that confers type-2 resistance to FHB. The TWL·WS-1E^{ts}#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, 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 H = high infection with over 40% of the leaf area showing symptoms. Powdery mildew present on leaves rated as 0 = no mildew seen, L = low infection with 10% or less of leaf area with mildew spores, M = moderate infection with up to 40% of the leaf area having spores, and H = high infection with over 40% of the leaf area having spores present. — = no test.

TA	Genus	species	Country of origin	Leaf rust			Barley yellow dwarf virus		Powdery mildew		Heading date
				5/22	6/9	6/13	5/22	6/6	5/22	6/6	
2909	*Triticum*	*aestivum* 'Jagger'	United States	10R	20MS	40MS	M	H	H	M	17-May
				20MR	70S	70S	M	H	H	M	18-May
2922	*Triticum*	*aestivum* 'Heines IV'	Germany	10R	20MR	40S	L	M	M	L	11-Jun
				10R	30MS	30MS	M	M	M	M	12-Jun
2951	*Triticum*	*aestivum* 'TAM 107'	United States	10R	70MS	80S	L	M	0	L	17-May
				1M	80S	—	0	M	H	H	17-May
3009	*Triticum*	*aestivum* 'Wichita'	United States	10R	50MS	70MS	M	H	M	L	27-May
				30MR	50MS	60MS	M	H	M	M	27-May
3014	*Triticum*	*aestivum* 'Courtot'	France	0	20MS	60MS	M	H	0	L	26-May
				10R	40MS	75S	M	H	L	M	26-May
10374	*Triticum*	*aestivum* landrace	Uzbekistan	0	10MS	40MS	M	H	L	L	4-Jun
				10R	20MS	40MS	M	H	L	L	8-Jun
10380	*Triticum*	*aestivum* landrace	Kyrgyzstan	10R	10M	15MS	M	H	L	L	22-May
				25MR	25MS	40MS	L	M	L	L	24-May
10395	*Triticum*	*aestivum* landrace	Tajikistan	0	45S	60S	M	M	H	H	8-Jun
10428	*Triticum*	*aestivum* 'Kirik'	Turkey	10R	40MS	—	H	H	H	H	27-May
				15R	40S	50S	H	H	H	M	28-May
10431	*Triticum*	*aestivum* landrace	Iran	1R	20MR	—	M	H	M	L	3-Jun
				1R	5MR	20MR	M	H	L	L	11-Jun
2601	*Triticum*	*aestivum* subsp. *compactum*	Turkey	10R	50MS	50M	H	H	H	M	28-May
				10R	40S	40S	H	H	H	H	5-Jun
10430	*Triticum*	*aestivum* subsp. *compactum*	Pakistan	10R	30MS	50MS	M	H	M	L	27-May
				5MS	70MS	70S	M	M	H	H	7-Jun
10861	*Triticum*	*aestivum* subsp. *compactum*	Kazakhstan	10R	40S	—	L	M	H	H	18-Jun
				15MR	30S	—	H	H	M	M	9-Jun
10862	*Triticum*	*aestivum* subsp. *macha*	Iran	10MR	60S	80S	L	H	H	H	12-Jun
				15R	80S	80S	L	M	H	H	10-Jun
10863	*Triticum*	*aestivum* subsp. *macha*	Georgia	10R	60S	60S	M	H	M	L	12-Jun
				10R	10MS	30MS	M	H	H	H	10-Jun
2603	*Triticum*	*aestivum* subsp. *spelta*	Switzerland	10R	20MS	20S	M	H	M	L	10-Jun
				10R	30S	40S	L	H	M	M	12-Jun
10424	*Triticum*	*aestivum* subsp. *spelta*	Iran	10R	50S	70S	H	H	H	H	12-Jun
				25MR	70S	80S	M	H	H	H	29-May
2605	*Triticum*	*aestivum* subsp. *sphaerococcum*	Greece	15R	50S	80S	L	M	H	L	26-May
				15R	60MS	70S	M	M	M	M	20-May
10864	*Triticum*	*aestivum* subsp. *sphaerococcum*	India	10R	15MS	30S	M	H	H	M	20-May
183	*Triticum*	*monococcum* subsp. *aegilopoides*	Iran	10R	15MR	—	L	H	0	0	27-May
				20MR	25MS	—	M	H	0	L	26-May
236	*Triticum*	*monococcum* subsp. *aegilopoides*	Iraq	0	10MR	20MR	0	M	0	0	22-May
				10R	25M	40M	L	H	L	L	24-May
352	*Triticum*	*monococcum* subsp. *aegilopoides*	Iraq	1R	5M	—	L	H	L	L	18-May
				0	10MR	—	L	H	0	L	18-May
463	*Triticum*	*monococcum* subsp. *aegilopoides*	Iraq	1R	5M	—	M	H	0	L	26-May
				10R	20MR	30M	L	H	0	L	23-May
547	*Triticum*	*monococcum* subsp. *aegilopoides*	Lebanon	5R	5MR	—	L	M	0	0	27-May
				10R	15MR	20MR	L	H	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 H = high infection with over 40% of the leaf area showing symptoms. Powdery mildew present on leaves rated as 0 = no mildew seen, L = low infection with 10% or less of leaf area with mildew spores, M = moderate infection with up to 40% of the leaf area having spores, and H = high infection with over 40% of the leaf area having spores present. — = no test.

TA	Genus	species	Cou—ry of origin	Leaf rust			Barley yellow dwarf virus		Powdery mildew		Heading date
				5/22	6/9	6/13	5/22	6/6	5/22	6/6	
582	*Triticum*	*monococcum* subsp. *aegilopoides*	Armenia	0	10MR	15MR	0	H	0	0	6-Jun
				0	30MS	—	0	H	0	H	28-May
570	*Triticum*	*monococcum* subsp. *aegilopoides*	Azerbaijan	1R	15M	—	L	H	0	L	3-Jun
				5R	10MR	—	L	H	0	L	28-May
641	*Triticum*	*monococcum* subsp. *aegilopoides*	Turkey	5R	5M	—	L	H	0	L	22-May
				5R	5MR	10MR	0	M	L	L	23-May
2005	*Triticum*	*monococcum* subsp. *aegilopoides*	Turkey	0	1R	15MR	L	M	0	0	8-Jun
				0	1R	20MR	L	M	0	0	11-Jun
2010	*Triticum*	*monococcum* subsp. *aegilopoides*	Turkey	1R	15M	30M	L	H	0	0	9-Jun
				5R	10MR	20MR	M	M	0	L	29-May
137	*Triticum*	*monococcum* subsp. *monococcum*	Turkey	10R	15M	20M	M	M	0	0	9-Jun
				10R	15MR	15MR	L	H	L	0	12-Jun
2025	*Triticum*	*monococcum* subsp. *monococcum*	Turkey	10R	10R	15R	L	M	0	0	8-Jun
				30MR	30MR	35MR	M	M	0	0	29-May
2033	*Triticum*	*monococcum* subsp. *monococcum*	Portugal	0	5R	5R	M	M	L	L	7-Jun
				0	1R	5R	M	M	0	0	28-May
2034	*Triticum*	*monococcum* subsp. *monococcum*	Bosnia–Herzegovina	0	1R	5MR	M	M	0	0	8-Jun
				5R	5R	10MR	M	H	0	0	28-May
2039	*Triticum*	*monococcum* subsp. *monococcum*	Albania	10R	15MR	20MR	M	H	0	0	11-Jun
				10R	10R	30MR	L	M	0	0	3-Jun
10594	*Triticum*	*monococcum* subsp. *aegilopoides*	Turkey	5R	15MR	15M	0	H	0	M	11-Jun
				0	1R	30M	L	M	0	0	8-Jun
10604	*Triticum*	*monococcum* subsp. *monococcum*	Turkey	1R	1MR	5MR	M	M	H	0	8-Jun
				1R	1R	10MR	M	M	M	M	12-Jun
10634	*Triticum*	*monococcum* subsp. *monococcum*	Italy	10R	10MR	15MR	M	M	0	L	14-Jun
				5R	5R	20R	L	L	0	0	14-Jun
10635	*Triticum*	*monococcum* subsp. *monococcum*	Georgia	10R	10MR	10MR	L	M	H	H	12-Jun
				15R	15R	15MR	L	M	L	H	12-Jun
732	*Triticum*	*urartu*	Turkey	5R	—	—	L	—	M	—	23-May
				0	10M	—	L	H	L	L	22-May
768	*Triticum*	*urartu*	Lebanon	5R	5M	—	M	H	0	0	24-May
				10R	15MR	—	L	H	0	0	26-May
828	*Triticum*	*urartu*	Armenia	0	5M	—	L	H	H	H	10-Jun
				0	10MR	15M	M	M	H	H	28-May
831	*Triticum*	*urartu*	Iran	5R	10M	—	0	H	M	L	24-May
				1R	10M	—	0	H	H	H	21-May
856	*Triticum*	*urartu*	Iraq	5R	5M	—	M	H	H	L	23-May
				15R	30MS	—	L	H	H	H	20-May
4	*Triticum*	*timopheevii subsp. armeniacum*	Iran	1R	10M	30M	M	H	0	0	24-May
				1R	20M	—	M	H	0	M	23-May
6	*Triticum*	*timopheevii subsp. armeniacum*	Turkey	0	20MS	20MS	L	H	0	L	27-May
				5R	15M	20MS	M	M	0	L	29-May
7	*Triticum*	*timopheevii subsp. armeniacum*	Iraq	5R	1MR	—	M	H	0	0	26-May
				5R	10MR	—	L	H	0	L	28-May
36	*Triticum*	*timopheevii subsp. armeniacum*	Iraq	1R	10M	—	M	H	0	L	24-May
				1R	25M	—	L	H	H	M	27-May

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				5/22	6/9	6/13	5/22	6/6	5/22	6/6	
49	*Triticum*	*timopheevii subsp. armeniacum*	Azerbaijan	0	1MR	10MR	L	H	0	0	6-Jun
				1R	20MR	30MR	L	H	0	M	29-May
896	*Triticum*	*timopheevii subsp. armeniacum*	Iraq	0	10MR	—	0	H	0	0	26-May
				1R	5MR	—	L	M	0	L	28-May
1900	*Triticum*	*timopheevii subsp. armeniacum*	Turkey	10R	20MR	30MR	H	H	0	0	8-Jun
				15R	15MR	30MR	H	H	0	L	11-Jun
2893	*Triticum*	*timopheevii subsp. armeniacum*	Armenia	1R	5MR	30M	L	M	0	0	10-Jun
				5R	30MR	30M	L	H	0	M	2-Jun
103	*Triticum*	*timopheevii subsp. timopheevii*	Serbia	5R	5MR	5MR	0	M	L	0	10-Jun
				10R	15R	20MR	L	M	L	L	12-Jun
10473	*Triticum*	*turgidum subsp. carthlicum*	Turkey	1R	30MS	40MS	M	H	L	M	27-May
				20MR	50MS	60MS	H	H	0	L	28-May
10477	*Triticum*	*turgidum subsp. carthlicum*	Georgia	10R	60MS	60MS	L	H	M	L	26-May
				25MR	60MS	60MS	H	H	H	H	28-May
60	*Triticum*	*turgidum subsp. dicoccoides*	Israel	10R	5M	—	M	H	0	L	24-May
				15MR	15M	—	H	H	0	M	27-May
107	*Triticum*	*turgidum subsp. dicoccoides*	Syrian Arab Republic (Golan Heights)	1R	5M	—	H	H	0	—	23-May
				10M	20M	—	M	H	H	M	23-May
1060	*Triticum*	*turgidum subsp. dicoccoides*	Lebanon	1M	50MS	—	L	H	0	L	26-May
				20MR	30MS	—	M	H	0	L	27-May
1082	*Triticum*	*turgidum subsp. dicoccoides*	Turkey	5R	30MS	—	H	H	H	L	6-Jun
				10R	50S	—	M	H	H	M	26-May
1181	*Triticum*	*turgidum subsp. dicoccoides*	Palestine (West Bank)	1R	10MS	—	H	H	0	—	26-May
				5M	20M	—	H	H	0	M	23-May
1385	*Triticum*	*turgidum subsp. dicoccoides*	Iraq	1R	20MS	—	M	H	H	L	22-May
				15MR	30MS	—	M	H	H	H	27-May
1454	*Triticum*	*turgidum subsp. dicoccoides*	Palestine (West Bank)	5R	25MS	—	L	H	0	L	26-May
				15R	25M	—	M	H	0	L	27-May
10479	*Triticum*	*turgidum subsp. dicoccum*	Turkey	5R	20MS	—	M	H	L	L	7-Jun
				15R	60MS	60MS	M	M	L	L	10-Jun
10480	*Triticum*	*turgidum subsp. dicoccum*	Turkey	10R	20MR	30S	L	H	M	L	3-Jun
				25MR	25M	30MS	M	M	0	L	26-May
10484	*Triticum*	*turgidum subsp. dicoccum*	Oman	10R	60MS	—	M	H	H	H	27-May
				15R	60S	80S	H	H	H	H	29-May
10504	*Triticum*	*turgidum subsp. dicoccum*	Iran	15MR	15MR	20MR	L	M	H	H	14-Jun
10517	*Triticum*	*turgidum subsp. dicoccum*	Armenia	5R	20M	40M	L	M	0	0	12-Jun
				15R	15MR	30MR	M	M	0	0	14-Jun
2807	*Triticum*	*turgidum subsp. paleocolchicum*	Georgia	5R	20M	30M	M	H	0	M	6-Jun
				15MR	15MR	60M	M	H	0	M	29-May
10858	*Triticum*	*turgidum subsp. polonicum*	Pakistan	10R	10MR	20M	M	M	M	L	4-Jun
				20R	20MR	20MR	M	H	0	L	4-Jun
10859	*Triticum*	*turgidum subsp. polonicum*	India	15MR	40MS	50S	L	H	H	L	28-May
10534	*Triticum*	*turgidum subsp. turanicum*	Turkey	10R	15M	15S	M	H	H	H	28-May
				15R	15MR	15M	L	L	0	L	6-Jun
10537	*Triticum*	*turgidum subsp. turanicum*	Iran	1R	25S	30S	M	M	M	L	11-Jun
				15R	30M	40S	M	M	M	M	4-Jun

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TA	Genus	species	Cou—ry of origin	Leaf rust			Barley yellow dwarf virus		Powdery mildew		Heading date
				5/22	6/9	6/13	5/22	6/6	5/22	6/6	
10541	*Triticum*	*turgidum subsp. turanicum*	Syrian Arab Republic	15R	35MS	40M	M	H	H	L	27-May
				10R	25MS	50MS	M	H	L	M	28-May
1945	*Aegilops*	*bicornis*	Egypt	0	30MS	—	L	H	0	L	22-May
				1R	25M	—	L	H	0	L	19-May
1951	*Aegilops*	*bicornis*	Israel	1M	—	—	L	—	0	—	18-May
				1R	20MS	—	M	H	0	L	17-May
2349	*Aegilops*	*biuncialis*	Turkey	1R	0	—	0	M	0	0	25-May
				1R	1R	10R	0	M	0	L	24-May
2663	*Aegilops*	*biuncialis*	Syrian Arab Republic	0	5M	—	M	H	0	L	18-May
				0	5MR	—	L	H	0	L	17-May
2783	*Aegilops*	*biuncialis*	Bosnia–Herze-govina	0	1MR	—	L	H	0	0	2-Jun
				0	5R	5MR	L	H	0	L	27-May
10057	*Aegilops*	*biuncialis*	Libya	0	5MR	—	0	H	0	L	20-May
				1R	5MR	—	L	H	0	L	20-May
10058	*Aegilops*	*biuncialis*	Azerbaijan	10R	15MR	—	M	H	0	L	24-May
				0	5MR	—	M	H	0	L	22-May
10060	*Aegilops*	*biuncialis*	Greece	5R	10M	—	L	H	0	L	22-May
				20MR	20MR	—	L	H	L	L	21-May
2106	*Aegilops*	*columnaris*	Turkey	0	5MR	15MR	0	H	0	L	28-May
				15MR	15MR	20MR	M	H	0	L	26-May
2182	*Aegilops*	*columnaris*	Turkey	0	1R	5MR	M	H	0	0	28-May
2656	*Aegilops*	*columnaris*	Syrian Arab Republic	5R	10M	—	M	H	0	L	20-May
				20R	20M	—	0	H	0	L	22-May
10049	*Aegilops*	*columnaris*	Azerbaijan	10R	15M	—	L	H	0	L	24-May
				0	10MR	—	L	H	0	L	18-May
2102	*Aegilops*	*comosa var. comosa*	Turkey	0	5MR	—	0	M	0	0	28-May
				5R	5R	—	L	M	0	0	26-May
2757	*Aegilops*	*comosa var. comosa*	Greece	5R	5M	—	L	H	0	0	25-May
				10R	15MR	15MR	L	H	0	0	27-May
2734	*Aegilops*	*comosa var. subventricosa*	Greece	0	10M	—	L	H	0	—	25-May
				0	5MR	—	0	H	0	L	22-May
1873	*Aegilops*	*crassa* (4x)	Iran	5R	25M	—	M	H	0	M	20-May
				5R	40MS	—	L	H	0	M	21-May
1876	*Aegilops*	*crassa* (4x)	Iran	0	20MS	—	L	H	0	L	24-May
				0	80S	—	0	H	0	L	26-May
1881	*Aegilops*	*crassa* (4x)	Afghanistan	1M	20M	—	L	H	0	L	20-May
				0	25MS	—	L	H	0	L	18-May
2319	*Aegilops*	*crassa* (4x)	Turkey	0	25MS	—	L	H	0	L	22-May
				0	30MS	—	L	H	0	L	20-May
10340	*Aegilops*	*crassa*	Tajikistan	1R	70MS	—	L	H	0	0	25-May
				0	80MS	—	L	H	0	L	26-May
1858	*Aegilops*	*cylindrica*	Turkey	0	10M	H	L	H	0	L	24-May
				1R	20M	—	L	H	0	L	26-May
2203	*Aegilops*	*cylindrica*	Iran	1MR	60MS	—	M	H	0	L	26-May
				0	60MS	—	L	H	0	L	26-May
2204	*Aegilops*	*cylindrica*	Armenia	1R	50MS	—	L	H	0	L	27-May
				0	60MS	—	L	H	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 H = high infection with over 40% of the leaf area showing symptoms. Powdery mildew present on leaves rated as 0 = no mildew seen, L = low infection with 10% or less of leaf area with mildew spores, M = moderate infection with up to 40% of the leaf area having spores, and H = high infection with over 40% of the leaf area having spores present. — = no test.

TA	Genus	species	Cou—ry of origin	Leaf rust			Barley yellow dwarf virus		Powdery mildew		Heading date
				5/22	6/9	6/13	5/22	6/6	5/22	6/6	
2331	*Aegilops*	*cylindrica*	Turkey	0	60MS	—	L	M	0	0	26-May
				0	60MS	—	0	H	0	L	28-May
10148	*Aegilops*	*cylindrica*	Kazakhstan	5M	30M	—	M	H	0	L	25-May
				0	15MS	—	M	H	H	M	20-May
10346	*Aegilops*	*cylindrica*	Tajikistan	0	30M	—	L	H	0	L	26-May
				1R	40MS	—	M	H	0	L	24-May
10356	*Aegilops*	*cylindrica*	Kyrgyzstan	0	—	—	M	H	0	—	26-May
				1R	20M	—	M	H	0	L	24-May
1801	*Aegilops*	*geniculata*	Turkey	0	5MR	—	L	H	0	L	22-May
				1R	5MR	—	L	H	0	L	24-May
1805	*Aegilops*	*geniculata*	Turkey	0	5MR	—	0	H	0	L	22-May
				1R	5MR	—	L	H	0	L	24-May
1879	*Aegilops*	*geniculata*	Jordan	5R	20MR	—	L	H	H	—	17-May
				1R	10MR	—	0	H	0	L	19-May
2041	*Aegilops*	*geniculata*	Morocco	1R	10MR	15MR	L	H	0	L	26-May
				10R	15R	—	0	M	0	L	26-May
2227	*Aegilops*	*geniculata*	Morocco	0	5M	—	L	H	0	L	22-May
				5R	5MR	—	L	H	0	L	20-May
2239	*Aegilops*	*geniculata*	Morocco	10R	15M	—	L	H	0	L	22-May
				5R	5MR	—	M	H	0	L	20-May
2649	*Aegilops*	*geniculata*	Turkey	1R	10M	—	0	H	0	—	18-May
				10R	10M	—	0	H	0	L	16-May
2650	*Aegilops*	*geniculata*	Syrian Arab Republic	0	1MR	—	0	M	0	L	20-May
				10R	20M	—	0	M	0	L	19-May
2786	*Aegilops*	*geniculata*	Bosnia–Herze-govina	1R	15MR	—	L	M	0	0	24-May
				5R	5R	10R	0	M	0	L	23-May
2787	*Aegilops*	*geniculata*	Croatia	0	1MR	—	L	H	0	0	24-May
				0	5R	5MR	L	H	0	L	23-May
2899	*Aegilops*	*geniculata*	Israel	15R	15MR	30MR	0	L	0	0	23-May
				5R	10MR	30MR	0	M	0	L	20-May
10029	*Aegilops*	*geniculata*	Morocco	1R	5MR	—	0	H	0	0	24-May
				1R	5MR	—	0	H	0	L	22-May
2346	*Aegilops*	*juvenalis*	Iran	0	20M	—	L	H	0	L	22-May
				1R	40MS	—	M	H	0	L	20-May
2347	*Aegilops*	*juvenalis*	Iraq	1M	25M	—	M	H	0	H	17-May
				5M	10M	—	M	H	L	L	22-May
1980	*Aegilops*	*kotschyi*	Israel	1R	10M	—	H	H	0	L	17-May
				5R	—	—	H	—	0	—	16-May
1981	*Aegilops*	*kotschyi*	Egypt	1R	10M	—	M	H	0	L	18-May
				0	5MR	—	H	H	L	M	17-May
1984	*Aegilops*	*kotschyi*	Egypt	0	5R	5MR	L	H	0	L	19-May
				0	10M	—	M	H	0	L	17-May
2207	*Aegilops*	*kotschyi*	Uzbekistan	10R	—	—	L	—	0	—	16-May
				30MR	30MR	—	L	H	0	L	16-May
2667	*Aegilops*	*kotschyi*	Jordan	1R	10M	—	M	H	0	—	18-May
				1R	10M	—	M	H	0	L	16-May

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TA	Genus	species	Cou—ry of origin	Leaf rust			Barley yellow dwarf virus		Powdery mildew		Heading date
				5/22	6/9	6/13	5/22	6/6	5/22	6/6	
1910	*Aegilops*	*longissima*	Israel	1R	5MR	—	M	H	0	0	22-May
				0	5MR	20MR	M	H	0	0	22-May
1921	*Aegilops*	*longissima*	Jordan	1R	5M	—	H	H	0	0	20-May
				10MS	30MS	—	L	H	0	L	20-May
1906	*Aegilops*	*markgrafii*	Turkey	0	30M	—	L	H	0	L	20-May
				5R	5MR	—	M	H	0	L	22-May
1908	*Aegilops*	*markgrafii*	Unknown	10R	15MR	—	L	H	0	0	26-May
				5R	5MR	—	M	H	0	0	27-May
2087	*Aegilops*	*markgrafii*	Turkey	0	1R	5MR	L	H	0	0	8-Jun
				1R	5MR	10MR	L	H	0	L	10-Jun
2090	*Aegilops*	*markgrafii*	Turkey	1R	1R	—	L	H	0	0	26-May
				0	1MR	5MR	L	H	0	L	28-May
2096	*Aegilops*	*markgrafii*	Turkey	0	5MR	5MR	L	H	L	L	28-May
1961	*Aegilops*	*neglecta*	Iraq	1R	10MR	10MR	L	M	0	L	22-May
				15MR	15MR	—	L	H	0	L	23-May
2153	*Aegilops*	*neglecta*	Turkey	0	1R	5MR	L	M	0	L	28-May
				10R	10MR	20MR	0	M	L	L	27-May
2156	*Aegilops*	*neglecta*	Turkey	0	5MR	10MR	M	M	0	L	28-May
				0	10MR	20MR	L	M	0	M	28-May
2341	*Aegilops*	*neglecta*	Turkey	0	1M	—	M	H	0	0	23-May
				1R	5MR	—	L	H	0	L	25-May
2790	*Aegilops*	*neglecta*	Bosnia–Herze-govina	1R	5M	—	L	H	0	0	26-May
				1R	10M	—	L	H	0	L	26-May
2793	*Aegilops*	*neglecta*	Croatia	0	5MR	—	L	H	0	0	27-May
				10R	20MR	20M	L	H	0	L	27-May
10062	*Aegilops*	*neglecta*	Spain	0	1R	5MR	L	H	0	L	3-Jun
				0	5R	10MR	L	H	0	0	3-Jun
10064	*Aegilops*	*neglecta*	Greece	5R	5R	5MR	L	M	0	0	10-Jun
				0	1R	5MR	L	M	0	0	28-May
10065	*Aegilops*	*neglecta*	Ukraine	0	5MR	—	0	H	0	0	2-Jun
				0	1R	—	L	M	0	0	28-May
10066	*Aegilops*	*neglecta*	France	1R	5M	5M	L	H	0	0	24-May
				5R	5MR	1OM	L	H	0	L	24-May
1886	*Aegilops*	*peregrina*	Syrian Arab Republic	10R	10M	—	L	H	0	L	18-May
				20MR	20MR	—	M	H	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	H	0	L	21-May
				10MR	15MR	—	L	H	0	M	19-May
1898	*Aegilops*	*peregrina*	Lebanon	0	20M	—	L	H	0	0	23-May
				0	10M	—	L	M	0	L	22-May
1918	*Aegilops*	*peregrina*	Turkey	0	5M	25M	L	M	0	L	26-May
				0	20MS	—	0	H	0	L	26-May
2775	*Aegilops*	*peregrina*	Israel	1R	1R	15R	L	M	0	0	24-May
				10R	15MR	15MR	L	H	0	L	23-May
1837	*Aegilops*	*searsii*	Palestine	5R	5M	—	M	H	H	H	26-May
				10R	25MS	—	L	H	H	L	26-May

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TA	Genus	species	Cou—ry of origin	Leaf rust			Barley yellow dwarf virus		Powdery mildew		Heading date
				5/22	6/9	6/13	5/22	6/6	5/22	6/6	
2344	*Aegilops*	*searsii*	Syrian Arab Republic	1R	10M	—	L	H	H	—	24-May
				5R	—	—	H	—	H	—	24-May
2355	*Aegilops*	*searsii*	Palestine	1R	—	—	M	—	0	—	24-May
				1R	5MR	—	L	H	L	L	24-May
2669	*Aegilops*	*searsii*	Jordan	1R	10M	—	M	H	0	—	24-May
				5R	5MR	—	L	H	0	L	25-May
1996	*Aegilops*	*sharonensis*	Israel	5R	—	—	H	—	0	—	22-May
				5MR	20S	—	L	H	0	L	18-May
1998	*Aegilops*	*sharonensis*	Israel	1R	5MR	—	M	H	H	H	22-May
				0	5R	25MR	0	H	0	L	21-May
10434	*Aegilops*	*sharonensis*	Israel	1R	5MR	—	L	H	0	L	22-May
1772	*Aegilops*	*speltoides* var. *ligustica*	Turkey	10R	10MR	10MR	L	H	0	0	26-May
				5R	5R	5MR	L	M	0	0	27-May
1778	*Aegilops*	*speltoides* var. *ligustica*	Turkey	1R	1R	1R	L	M	0	0	26-May
				0	1R	1R	L	M	0	0	27-May
1789	*Aegilops*	*speltoides* var. *ligustica*	Iraq	1R	1R	1R	L	M	0	0	22-May
				1R	1R	1R	L	H	0	0	26-May
2646	*Aegilops*	*speltoides* var. *ligustica*	Turkey	0	1MR	1MR	L	H	0	0	8-Jun
				0	1R	1R	L	H	0	0	7-Jun
2781	*Aegilops*	*speltoides* var. *ligustica*	Israel	0	0	10R	L	M	0	0	3-Jun
				0	1R	1R	0	H	0	0	28-May
1795	*Aegilops*	*speltoides* var. *speltoides*	Iraq	0	0	1R	L	H	0	0	24-May
				5R	5R	5MR	L	H	0	0	26-May
1971	*Aegilops*	*speltoides* var. *speltoides*	Turkey	1R	0	1R	L	M	0	0	24-May
				1R	1R	5MR	L	H	0	0	25-May
2342	*Aegilops*	*speltoides* var. *speltoides*	Israel	0	0	1R	L	H	0	0	6-Jun
				0	1R	5MR	L	H	0	0	24-May
2356	*Aegilops*	*speltoides* var. *speltoides*	Turkey	0	1R	10R	0	L	0	0	2-Jun
				0	1R	1R	L	M	0	0	10-Jun
10545	*Aegilops*	*speltoides* var. *speltoides*	Syrian Arab Republic	0	5M	—	L	H	0	L	26-May
				10MR	10MR	15MR	L	H	0	L	24-May
2780	*Aegilops*	*speltoides* var. *speltoides*/*ligustica* mix	Israel	0	0	5R	L	M	0	0	2-Jun
				1R	1R	1R	L	H	0	0	27-May
1588	*Aegilops*	*tauschii*	Turkey	0	10M	40MS	L	M	0	L	4-Jun
				15R	30M	—	M	H	H	L	2-Jun
1626	*Aegilops*	*tauschii* f. *strangulata*	Turkmenistan	0	10M	30M	0	H	L	L	26-May
				5R	5MR	15M	M	M	0	L	27-May
1642	*Aegilops*	*tauschii* f. *strangulata*	Iran	10R	10MR	15MR	0	M	L	L	26-May
				5R	10MR	—	L	H	0	L	26-May
1659	*Aegilops*	*tauschii* f. *strangulata*	Azerbaijan	5R	10M	25M	L	H	0	L	24-May
				15MR	15M	—	L	H	0	L	26-May
1662	*Aegilops*	*tauschii*	Azerbaijan	1R	5M	—	M	H	0	0	26-May
				10R	15M	20MS	0	M	0	L	26-May
1668	*Aegilops*	*tauschii* f. *strangulata*	Azerbaijan	1R	1MR	—	0	M	0	0	26-May
				1R	5MR	10MR	L	M	L	L	27-May
1673	*Aegilops*	*tauschii*	Azerbaijan	0	5M	—	L	M	0	L	26-May
				5R	25M	—	L	M	0	L	24-May

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TA	Genus	species	Cou—ry of origin	Leaf rust			Barley yellow dwarf virus		Powdery mildew		Heading date
				5/22	6/9	6/13	5/22	6/6	5/22	6/6	
1717	*Aegilops*	*tauschii*	Iran	5R	5MR	—	L	H	M	M	22-May
				5R	10MR	—	L	H	L	L	21-May
2374	*Aegilops*	*tauschii*	Pakistan	1R	15M	—	M	H	M	L	17-May
				1R	50MS	—	M	H	H	L	16-May
2378	*Aegilops*	*tauschii*	Iran	5R	10MR	—	L	H	L	H	20-May
				5R	10MR	—	L	H	H	H	20-May
2388	*Aegilops*	*tauschii*	Afghanistan	1MR	20MS	—	M	H	H	H	16-May
				1MR	60S	—	H	H	H	H	16-May
2398	*Aegilops*	*tauschii*	Afghanistan	1R	30MS	—	L	H	H	H	19-May
				1MR	40MS	—	L	H	H	H	21-May
2422	*Aegilops*	*tauschii*	Afghanistan	1R	10M	—	M	H	0	L	20-May
				1MR	10MS	—	M	H	0	L	18-May
2489	*Aegilops*	*tauschii*	Iran	5R	20MS	—	M	H	H	H	8-Jun
				5R	40MS	—	M	H	H	H	28-May
2521	*Aegilops*	*tauschii*	Iran	5R	15M	—	M	H	H	H	22-May
				1R	60S	—	L	H	H	H	24-May
2536	*Aegilops*	*tauschii*	Afghanistan	10R	10M	—	L	H	0	L	17-May
				15R	30M	—	M	H	0	M	18-May
2574	*Aegilops*	*tauschii*	Armenia	0	50MS	—	M	H	H	H	27-May
				1M	40S	—	L	H	H	H	27-May
2586	*Aegilops*	*tauschii*	Georgia	1R	20M	—	M	H	0	L	26-May
				10R	20MS	—	M	H	0	L	4-Jun
10077	*Aegilops*	*tauschii*	Pakistan	1R	10M	—	L	H	0	L	20-May
				5M	40MS	—	M	H	0	M	16-May
10106	*Aegilops*	*tauschii*	Kyrgyzstan	1R	5M	—	H	H	H	H	4-Jun
				0	20MS	—	M	H	H	H	8-Jun
10134	*Aegilops*	*tauschii*	PR China	0	5M	30MS	M	H	0	0	11-Jun
				15MR	40MS	—	M	M	H	H	29-May
10142	*Aegilops*	*tauschii*	Syrian Arab Republic	1R	5MR	—	L	H	0	L	22-May
				1R	20MR	—	L	H	M	M	24-May
10155	*Aegilops*	*tauschii*	Tajikistan	10R	20M	—	M	H	L	L	20-May
				10MR	25M	—	M	H	0	L	18-May
10166	*Aegilops*	*tauschii*	Turkmenistan	10R	20MR	—	L	H	H	H	20-May
				25MR	25MR	—	L	H	H	H	18-May
10189	*Aegilops*	*tauschii*	Uzbekistan	1R	20M	—	H	H	H	H	22-May
				15R	30MS	—	H	H	H	H	19-May
10193	*Aegilops*	*tauschii*	Uzbekistan	5R	20M	—	L	H	L	L	25-May
				10R	40MS	—	L	H	H	L	22-May
1725	*Aegilops*	*triuncialis*	Turkey	20R	25MR	—	H	H	0	0	23-May
				15R	15MR	—	M	H	0	L	21-May
1740	*Aegilops*	*triuncialis*	Turkey	1R	1MR	—	L	H	0	0	25-May
				0	10MR	—	0	M	0	L	21-May
1748	*Aegilops*	*triuncialis*	Afghanistan	1R	10MR	—	M	H	0	0	20-May
				15R	15MR	—	L	H	0	L	19-May
1752	*Aegilops*	*triuncialis*	Iran	10R	20MR	20MR	L	M	0	0	26-May
				5R	10MR	20MR	M	H	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, 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 H = high infection with over 40% of the leaf area showing symptoms. Powdery mildew present on leaves rated as 0 = no mildew seen, L = low infection with 10% or less of leaf area with mildew spores, M = moderate infection with up to 40% of the leaf area having spores, and H = high infection with over 40% of the leaf area having spores present. — = no test.

TA	Genus	species	Cou—ry of origin	Leaf rust			Barley yellow dwarf virus		Powdery mildew		Heading date
				5/22	6/9	6/13	5/22	6/6	5/22	6/6	
1753	*Aegilops*	*triuncialis*	Turkey	0	5MR	—	0	H	0	0	26-May
				0	5MR	10MR	L	M	0	L	28-May
1755	*Aegilops*	*triuncialis*	Iran	1R	10MR	—	M	H	0	0	20-May
				10R	10MR	—	M	H	0	L	17-May
2135	*Aegilops*	*triuncialis*	Kazakhstan	5R	15M	—	L	H	0	L	27-May
				15R	15MR	—	M	H	L	M	27-May
2229	*Aegilops*	*triuncialis*	Morocco	0	5MR	5MR	0	H	0	L	27-May
				1R	10MR	—	L	H	0	L	25-May
2279	*Aegilops*	*triuncialis*	Turkey	0	5MR	10MR	L	M	0	L	28-May
				0	5MR	10MR	L	M	0	0	27-May
2304	*Aegilops*	*triuncialis*	Turkey	0	1R	5MR	L	M	0	L	2-Jun
				0	5MR	10MR	L	M	0	L	28-May
2325	*Aegilops*	*triuncialis*	Iraq	5R	10MR	20M	L	H	0	L	27-May
				10R	15M	30S	L	H	0	0	27-May
2622	*Aegilops*	*triuncialis*	Syrian Arab Republic	10R	15M	—	H	H	0	L	20-May
				15R	15M	—	0	M	0	L	19-May
2788	*Aegilops*	*triuncialis*	Croatia	0	1R	—	L	H	0	0	27-May
				0	5MR	—	0	H	0	L	28-May
10013	*Aegilops*	*triuncialis*	Morocco	1R	5MR	—	L	H	0	L	22-May
				0	5MR	20MR	L	H	0	L	2-Jun
10055	*Aegilops*	*triuncialis*	Portugal	0	1R	—	L	H	0	0	27-May
				5R	5R	—	L	M	0	L	28-May
10056	*Aegilops*	*triuncialis*	Greece	0	5MR	10MR	0	M	0	0	4-Jun
				10R	10MR	—	L	M	0	L	28-May
10358	*Aegilops*	*triuncialis*	Tajikistan	10R	20MR	40MR	M	M	0	L	28-May
				25MR	25MR	25MR	M	M	0	0	28-May
1825	*Aegilops*	*umbellulata*	Turkey	0	1R	—	0	H	0	0	2-Jun
				0	10M	—	0	H	0	L	28-May
1831	*Aegilops*	*umbellulata*	Iran	10R	10M	—	0	H	0	L	17-May
				15MR	15MR	—	L	H	0	L	17-May
1850	*Aegilops*	*umbellulata*	Syrian Arab Republic	1R	5MR	—	L	H	0	L	17-May
				5R	10M	—	L	H	0	L	18-May
1851	*Aegilops*	*umbellulata*	Unknown	20R	25MR	—	M	H	0	0	2-Jun
				10R	15MR	—	L	H	0	L	28-May
1852	*Aegilops*	*umbellulata*	Turkey	1R	15M	—	0	H	0	L	27-May
				1R	1MR	—	L	H	0	L	27-May
2641	*Aegilops*	*umbellulata*	Turkey	10R	10MR	—	L	H	0	L	20-May
				15R	15MR	—	L	M	0	L	18-May
10835	*Aegilops*	*umbellulata*	Azerbaijan	5R	—	—	0	H	0	—	20-May
				10R	—	—	0	H	0	—	18-May
2762	*Aegilops*	*uniaristata*	Greece	0	1MR	15M	0	M	0	0	26-May
				1R	10MR	20MR	L	H	0	L	28-May
2766	*Aegilops*	*uniaristata*	Greece	0	5M	—	L	H	M	L	24-May
				1R	5MR	—	L	H	H	H	24-May
2768	*Aegilops*	*uniaristata*	Greece	0	10M	—	0	H	0	0	27-May
				0	5M	—	L	H	0	L	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 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 H = high infection with over 40% of the leaf area showing symptoms. Powdery mildew present on leaves rated as 0 = no mildew seen, L = low infection with 10% or less of leaf area with mildew spores, M = moderate infection with up to 40% of the leaf area having spores, and H = high infection with over 40% of the leaf area having spores present. — = no test.

TA	Genus	species	Cou—ry of origin	Leaf rust			Barley yellow dwarf virus		Powdery mildew		Heading date
				5/22	6/9	6/13	5/22	6/6	5/22	6/6	
2655	*Aegilops*	*vavilovii*	Jordan	0	10M	—	L	H	M	H	20-May
				0	20MS	—	L	H	L	H	18-May
2210	*Aegilops*	*ventricosa*	Libya	0	—	—	M	—	0	—	17-May
				0	40MS	—	L	H	0	L	20-May
2230	*Aegilops*	*ventricosa*	Morocco	0	1MR	—	0	M	0	M	27-May
				1R	10MR	—	L	H	0	L	26-May
2741	*Ambly-opyrum*	*muticum*	Turkey	0	1R	20MR	0	H	0	0	8-Jun
				0	5MR	—	L	H	0	L	27-May
2199	*Dasypyrum*	*villosum*	Croatia	10R	15MR	—	M	H	0	0	17-May
				15R	15MR	15MR	M	M	0	0	19-May
10225	*Dasypyrum*	*villosum*	Italy	0	1R	5MR	M	H	0	0	19-May
				1R	10MR	—	L	H	0	0	17-May
10226	*Dasypyrum*	*villosum*	Bulgaria	0	0	—	L	H	0	0	24-May
				5R	10R	—	0	H	0	0	22-May
10232	*Dasypyrum*	*villosum*	Italy	0	20MR	—	0	M	0	0	18-May
				10R	15R	—	M	H	0	0	17-May
10235	*Dasypyrum*	*villosum*	France	0	5MR	—	H	H	0	0	19-May
				10R	15R	—	M	H	0	0	20-May
10239	*Dasypyrum*	*villosum*	Turkey	1R	1R	—	M	H	0	0	22-May
				10R	10R	10MR	L	H	0	0	20-May
10273	*Dasypyrum*	*villosum*	Greece	5R	5MR	—	M	H	0	0	18-May
				0	10MR	—	M	H	0	L	16-May
10289	*Dasypyrum*	*villosum*	Greece	0	1MR	—	L	H	0	0	20-May
				10R	10MR	—	M	H	0	0	19-May
10662	*Dasypyrum*	*villosum*	Greece	0	5MR	—	M	H	0	0	18-May
				0	5MR	—	M	H	0	0	16-May
10664	*Dasypyrum*	*villosum*	Ukraine	0	15MR	15MR	0	H	0	0	20-May
				0	5MR	—	L	H	0	0	17-May