

Supplemental Table S1. Disease severity ratings of 74 U.S. winter and spring wheat cultivars, and Near Isogenic Lines (NILs) to wheat blast isolate T-25. All entries possessed the *Ae. ventricosa* 2NS/2AS translocation.

No.	Wheat Entry	Type	Head Blast severity^a
1	OK03305	Winter	0.0
2	KS020822-M-5	Winter	0.0
3	WA008123	Spring	0.0
4	UC1617	Spring	0.0
5	Express 2NS	NIL	0.0
6	Yecora Rojo 2NS	NIL	0.0
7	Art	Winter	0.1
8	UC1041 2NS	NIL	0.4
9	GA011493-8E18	Winter	0.4
10	Santa Fe	Winter	1.0
11	OR4071004	Spring	1.1
12	Jagger	Winter	1.3
13	Jagalene	Winter	1.3
14	SY Gold	Winter	1.4
15	Overley	Winter	1.5
16	Protection CL	Winter	1.6
17	HV9W03-539R	Winter	1.7
18	Jackpot	Winter	1.7
19	Smokey Hill	Winter	1.8
20	Shocker	Winter	2.0
21	Postrock	Winter	2.4
22	Danby	Winter	2.8
23	CO06W096	Winter	3.1
24	ARS970163-4C	Winter	3.4
25	Hawken	Winter	3.8
26	GA00067-8E35	Winter	3.9
27	Kern 2NS	NIL	4.0
28	A01110D-208-5-C	Winter	4.0
29	UC1618	Spring	4.1
30	NuDakota	Winter	4.2
31	Greer	Winter	4.8
32	CJ	Winter	4.9
33	GA99-1371-6E12	Winter	5.1
34	Stout	Winter	5.3
35	OK Bullet	Winter	5.4
36	OK04525	Winter	6.0
37	Anza 2NS	NIL	6.2
38	UC 1037 2NS	NIL	7.1
39	KS020638-5-1	Winter	7.1

40	AP06T A4520	Winter	7.6
41	Ripper	Winter	8.3
42	TX04V075080	Winter	8.7
43	T-136	Winter	9.1
44	KS020319-7-2	Winter	9.5
45	Keota	Winter	11.9
46	Trego	Winter	12.7
47	CA9W07-819	Winter	14.9
48	Fuller	Winter	17.5
49	T166	Winter	19.8
50	HV9W03-696R-2	Winter	21.3
51	OK06336	Winter	22.0
52	CO04W320-1	Winter	25.4
53	Heyne	Winter	26.8
54	NX04Y2107	Winter	27.3
55	PATWIN	Spring	29.2
56	OKO5212	Winter	31.9
57	SD07165	Winter	34.6
58	SD05118-1	Winter	38.0
59	KS970093-8-9-#1-1	Winter	39.4
60	Hitch	Winter	40.8
61	NE05496	Winter	41.3
62	Kharkof	Winter	41.6
63	CO06W153	Winter	44.4
64	CO06041	Winter	46.2
65	Blanca Royale	Winter	46.8
66	ARS03174CS-14	Spring	51.5
67	TAM-107	Winter	58.2
68	OR4081232	Spring	65.1
69	Summit	Winter	66.7
70	2137	Winter	71.3
71	TX07A001305	Winter	75.3
72	NI08708	Winter	85.5
73	Mace	Winter	98.1
74	NWD4Y2188	Winter	100.0

^a Percent of wheat spikelets affected by isolate T-25

Supplemental Table S2. Disease severity ratings of 169 U.S. winter cultivars to wheat blast isolate T-25. No entry possessed the *Ae. ventricosa* 2NS/2AS translocation.

No.	Wheat Entry	Head Blast severity ^a
1	CO050173	0.00
2	NE04490	0.00
3	CO06M242	0.00
4	CO06531	0.00
5	RonL	0.05
6	TAM 112	0.1
7	Jackpot	0.52
8	Hatcher	0.6
9	TAM 110	0.9
10	GA-981621-5E34	0.93
11	GA001138-8E37	1.11
12	2609	1.12
13	ARS05-1044	1.25
14	Overland	1.46
15	BC97ROM-50W	1.56
16	ARS05-0443	1.78
17	OR2070136H	2.31
18	KS05HW136-3	2.39
19	KSO6HW46-3	3.32
20	Avaanche	3.41
21	CO050173	3.61
22	SD07W053	3.73
23	TX05A001828	4.83
24	CO050337-2	5.83
25	NE05549	6.67
26	KS08HW35-1	7.04
27	Tiger	7.41
28	CO050303-2	8.32
29	ARS03-5358	8.62
30	Fuller	9.18
31	TAM 111	9.3
32	KS0603A-57-1	9.33
33	CO06534	9.72
34	ARS05-0286	9.73
35	Infinity CL	9.75
36	NEO5496	9.76
37	ARS05-0404	10.00
38	ARS05-1041	10.00
39	TX06V7266	10.00

40	GA991209-6E33	10.21
41	T-154	11.16
42	NX05MD4180-6	11.48
43	OKO5128 .	11.70
44	NE05548	11.71
45	Truman	11.88
46	25R47	12.13
47	CO050175-1	12.55
48	Endurance	13.02
49	SD05W030	13.16
50	25R78	13.24
51	Millennium	13.25
52	NW07505	13.50
53	WB-Cedar	13.83
54	HV9W96-1383R	14.16
55	CA9WO7-817	14.25
56	Tomahawk	14.26
57	CO05066-1	14.36
58	25R62	16.79
59	McGill	16.87
60	GA011124-8E32	18.75
61	Robidoux	19.32
62	GA021282-8A2	20.00
63	TX05V7259	22.03
64	Centerfield	24.83
65	Camelot	25.57
66	NC06-20401	26.23
67	SD07W084	27.64
68	TX03A0563-07AZHR247	27.90
69	NC05-20671	28.50
70	T181	28.50
71	NE06469	28.64
72	Settler CL	29.05
73	CO050337-2	30.00
74	SD08028	30.67
75	TX06A001263	30.80
76	9553	31.44
77	TAM 304	31.55
78	TAM 107	31.93
79	NE06545	32.20
80	OK07218	32.41
81	2525	32.67
82	CO06530	33.33
83	KS020319-7-3	34.56
84	T150-1	35.47

85	TX07A001505	35.60
86	Triumph 64	35.8
87	T165	37.14
88	Aspen	37.42
89	CO06059	37.47
90	NI04420	37.50
91	CO06052	37.86
92	Trego	38
93	T-140	39.02
94	T-151	40.1
95	SCT98-5B1	40.91
96	TAM 105	41.08
97	NE07487	41.61
98	T164	42.71
99	Armour	42.94
100	Antelope	44.72
101	T-81	45.73
102	Ca Rojo	45.98
103	CO05W194	47.07
104	Above CL	47.15
105	SD08080	47.19
106	Scout 66	47.63
107	Hondo	47.81
108	CO06424	50
109	AR98088-1-2	50.00
110	SD06W160-2	50.00
111	KSO5HW136-3	52.41
112	CO050270-1	52.71
113	CO050322	52.92
114	Trica Brand 96	56.00
115	CO03064-2	56.33
116	Anton	56.85
117	Billings	58.29
118	Duster	58.67
119	Ike	58.75
120	OK07209	58.84
121	Blanca Fuerte	59.41
122	NE07531	61.13
123	AR99138-7-1	61.80
124	GA02264-8LE17	62.00
125	SD06158	62.50
126	CO06107	62.75
127	CO06542	62.97
128	CO06052	64.44
129	AR99015-2-1	64.44

130	T179	66.67
131	SD05085-1	67.04
132	Lariat	67.30
133	CO06424	67.93
134	WGRC 46	68.67
135	CO05W111	69.33
136	Oakes	69.48
137	Lance	70.86
138	BO30543	73.24
139	CO050233-2	73.24
140	TX05A001188	74.25
141	NC05-22804	75.00
142	CO06072	75.82
143	NE06607	77.90
144	T180	79.57
145	TX06A001281	80.28
146	OK07231	80.36
147	AR99009-3-2	80.89
148	NE06430	82.71
149	ARS03-4736	83.75
150	OK08328	85.36
151	NI07703	85.42
152	USG3555 CK	85.71
153	NE07627	86.82
154	Cameot	88.00
155	NE07444	88.00
156	Fortissimo	88.26
157	00WV50059	88.46
158	SCAR99103N1	89.17
159	OK07214	89.17
160	KS970093	90.33
161	Wesley	93.72
162	Winterhawk	94.23
163	NE07520	94.36
164	Karl 92	94.52
165	Everest	95.1
166	Voante	96.56
167	Redwing	100.00
168	AR99174-5-1	100.00
169	NX04Y2107	100.00

^a Percent of wheat spikelets affected by isolate T-25

Supplemental Table S3. Disease severity ratings of 175 U.S. spring cultivars to wheat blast isolate T-25. No entry possessed the *Ae. ventricosa* 2NS/2AS translocation.

No.	Wheat Entry ^a	Head Blast severity ^b
1	Sunco	0.00
2	LASSIK	0.00
3	01S0263-28	9.38
4	NICK	15.40
5	BR7030	16.00
6	Klasic	19.50
7	OR4031138	24.65
8	OR4051259	25.71
9	WA008100	26.07
10	Snowcrest	27.05
11	BUCK PRONTO	31.41
12	WA008074	32.95
13	00S0211-29-4	33.15
14	01S0263-29	34.90
15	WB-FUZION	36.15
16	NDSW0217*	37.42
17	Jerome	38.25
18	SD3746	39.43
19	TARA 2002	39.95
20	MN02252-A	40.71
21	BW362	42.48
22	ND 800	44.29
23	OR4990114	46.15
24	OR4041268	47.17
25	OR4081276	48.47
26	2-49	50.90
27	BW396	51.50
28	WA008122	51.50
29	UC 1037 ^a	51.69
30	BW342	52.00
31	WHIT	52.25
32	MACON	52.70
33	ND 741	52.77
34	OR4031177	53.00
35	SD3943	53.75
36	OTIS	53.80
37	Pristine	53.85
38	Yecora Rojo ^a	55.00
39	00S0292-14	55.25
40	WAKANZ	55.55

41	SD4036	55.58
42	ND04/3-20	56.82
43	ND03/1-13	56.96
44	01S0042-10	57.00
45	ND04/3-21	57.55
46	ND04/3-18	58.25
47	01S0377-6	58.95
48	BW357	59.14
49	SCARLET	59.16
50	Keene	59.28
51	BW379	59.63
52	ES101	60.42
53	MN02255	60.93
54	ND05/1-1	61.91
55	KELSE	62.10
56	PT436	62.76
57	98S0051-1-14	63.95
58	SD3944	64.34
59	ND04/3-19	66.09
60	BULLSEYE	67.05
61	OR4042011	67.13
62	OUYEN	68.05
63	Pomerelle	68.45
64	ND05/1-3	68.53
65	ES95	68.71
66	OR4042009	68.73
67	ARS03171LS-12	69.94
68	CHRIS	70.08
69	NDSW0601	70.79
70	Centennial	71.00
71	NDSW0430	72.77
72	EDEN	73.26
73	SD4024	73.50
74	Anza ^a	74.22
75	MN99436-6	74.30
76	UC 1041 ^a	75.29
77	Kern ^a	75.30
78	97S0254-8-1	75.66
79	MARQUIS	75.86
80	IDO599	76.00
81	MN03306-1	76.04
82	HOLLIS	76.25
83	98S0113-20-23	76.50
84	Express ^a	76.52
85	SD3668	76.72

86	ARS03415LS	76.79
87	ND05/1-2	77.04
88	2375	77.05
89	BW415	78.30
90	MN03196	78.46
91	OR4061191	78.80
92	MN01197	78.82
93	BW361	78.95
94	ALPOWA	79.04
95	ND 801	79.25
96	SD3851	79.43
97	AVOCET	80.25
98	00S0291-3	80.26
99	EXPRESS	80.32
100	Owens	80.35
101	Twin	80.35
102	MN03308-4	80.76
103	SD3942	80.81
104	WA008106	80.90
105	JEFFERSON	80.91
106	UC1602	81.13
107	98S0113-20	81.84
108	UI Lochsa	81.86
109	Whitebird	82.00
110	BW430	82.42
111	SD3687	82.50
112	SD4073	82.52
113	Leona	82.70
114	Fielder	82.87
115	99S0362-21	82.95
116	NDSW0350	83.08
117	OR4081216	83.43
118	SD3948	83.48
119	BW367	83.81
120	MN01311-A	84.12
121	UI Pettit	84.15
122	NDSW0345*	84.45
123	NDSW0501	84.78
124	JD	84.86
125	OR4071017	85.07
126	99S0006-2	85.24
127	ND 751	85.84
128	Lolo	86.15
129	BW364	86.27
130	SD3618	86.45

131	UI WINCHESTER	87.14
132	DAHRWAR DRY	88.42
133	OR4071122	88.50
134	98S0051-1	88.79
135	96S0404-03	88.91
136	ALTURAS	89.05
137	00H04*J3	89.39
138	OR4041433	89.58
139	Idaho 377s	89.88
140	WA008124	90.20
141	WPB 936	90.40
142	LOUISE	90.40
143	UI Cataldo	90.41
144	SD4027	90.45
145	SD3956	90.52
146	MN00261-4	90.53
147	MN03358-4	90.70
148	ND 747	90.85
149	SD3868	90.95
150	NDSW0481*	90.96
151	NDSW0449	92.00
152	Glenn	92.04
153	MN03119-4	92.19
154	MN01333-A	92.28
155	N99-0241	92.28
156	ZAK	92.86
157	Fieldwin	93.15
158	98S0127-06	93.31
159	SD3854	93.83
160	NDSW0347	94.19
161	MN02072-7	94.29
162	MN03169-2-062	94.52
163	SD4001	94.57
164	99S0051-3-1	94.63
165	Sterling	95.60
166	WA008105	95.80
167	NDSW0348	96.12
168	MN05141-2	96.15
169	SD3870	96.36
170	Jubilee	97.30
171	SD3635	98.09
172	BABE	98.30
173	WA008090	98.71
174	PENAWAWA	100.00
175	ARS03173LS-10	100.00

^a Entries correspond to parents of Near Isogenic Lines (NILs) UC1037-2NS, Yecora Rojo-2NS, Anza-2NS, UC1041-2NS, Kern-2NS, and Express-2NS

^b Percent of wheat spikelets affected by isolate T-25