

Table 1. Genotype at the *Rht-B1* , *Rht-D1* and *Xgwm261* loci, release date and developer of 115 hard winter wheat cultivars and breeding lines from the Great Plains wheat growing region of the United States.

reference: Guedira, M, G Brown-Guedira, D Van Sanford, C Sneller, E Souza, D Marshall. 2009. Distribution of *Rht* genes in modern and historic winter wheat germplasm from the eastern and central United States. Crop Sci. doi:10.2135/cropsci2009.10.0626

some notes on *Rht* genotype:

Rht1: *B1a* = wild type, *B1b* = dwarfing. ***Rht2:*** *D1a* = wild type, *D1b* = dwarfing

Cultivar	Accession Number [†]	Developer/State	Year	Rht genotype	<i>Xgwm261</i> allele (base pairs)
Blackhull	CItr 6251	Kansas SU	1917	<i>B1a, D1a</i>	175, 203
2137	PI 592444	Pioneer Hi-Bred/Kansas SU	1995	<i>B1a, D1b</i>	165
2145	NA	Pioneer Hi-Bred/Kansas SU	2001	<i>B1b, D1a</i>	165
2163	PI 601722	Pioneer Hi-Bred/Kansas SU	1989	<i>B1a, D1b</i>	165, 192
2174	PI 602595	Pioneer Hi-Bred/Oklahoma SU	1998	<i>B1b, D1a</i>	165
2180	PI 532912	Pioneer Hi-Bred Int.	1988	<i>B1a, D1b</i>	203
Abilene	PI 511307	AgriPro Wheat	1987	<i>B1b, D1a</i>	210
Above	NA	Colorado SU	2001	<i>B1b, D1a</i>	165
Agent	CItr 13523	Oklahoma SU	1967	<i>B1a, D1a</i>	165
Akron	PI 584504	Colorado SU	1994	<i>B1b, D1a</i>	210
Alliance	PI 573096	U Nebraska	1993	<i>B1b, D1a</i>	165, 210
Ankor	PI 632275	Colorado SU	2002	<i>B1b, D1a</i>	210
Antelope	PI 633910	U Nebraska	2005	<i>B1b, D1a</i>	197
AP502CL	NA	AgriPro Wheat	2001	<i>B1b, D1a</i>	nd
Arapahoe	PI 518591	U Nebraska	1988	<i>B1b, D1a</i>	165
Arlin	PI 564246	Kansas SU	1992	<i>B1b, D1a</i>	165
Avalanche	PI 620766	Colorado SU	2001	<i>B1b, D1a</i>	210
Baca	CItr 15891	Colorado SU	1973	<i>B1a, D1a</i>	210
Bakers White	NA	Farmer Direct Foods	2003	<i>B1b, D1a</i>	210
Bennett	CItr 17723	U Nebraska	1978	<i>B1a, D1a</i>	210
Betty	PI 612578	Kansas SU	1998	<i>B1b, D1a</i>	165
Brule	PI 466739	U Nebraska	1981	<i>B1b, D1a</i>	165
Burchett	NA	Farmer Direct Foods	2003	<i>B1b, D1a</i>	210
Carson	PI 501534	Colorado SU	1986	<i>B1a, D1a</i>	nd
Centura	PI 476974	U Nebraska	1983	<i>B1a, D1a</i>	197
Centurk	CItr 15075	U Nebraska	1971	<i>B1a, D1a</i>	197
Century	PI 502912	Oklahoma SU	1986	<i>B1b, D1a</i>	165
Cheyenne	CItr 8885	U Nebraska	1933	<i>B1a, D1a</i>	210
Chisholm	PI 486219	Oklahoma SU	1983	<i>B1b, D1a</i>	165
Concho	CItr 12517	Oklahoma SU	1954	<i>B1a, D1a</i>	210
Culver	PI 606726	U Nebraska	1999	<i>B1b, D1a</i>	210
Custer	NA [‡]	Oklahoma SU	1994	<i>B1b, D1a</i>	nd
Cutter	NA	AgriPro Wheat	2001	<i>B1b, D1a</i>	210
Danby	NA	Kansas SU	2006	<i>B1b, D1a</i>	210
Deliver	PI 639232	Oklahoma SU	2004	<i>B1a, D1b</i>	210

some notes on *Rht* genotype:

***Rht1*:** *B1a* = wild type, *B1b* = dwarfing. ***Rht2*:** *D1a* = wild type, *D1b* = dwarfing

Cultivar	Accession Number [†]	Developer/State	Year	Rht genotype	Xgwm261 allele (base pairs)
Dominator	NA	Polansky Seeds	1996	<i>B1b, D1a</i>	165
Dumas	NA	AgriPro Wheat	2000	<i>B1a, D1a</i>	165
Eagle	CItr 15068	Kansas SU	1970	<i>B1a, D1a</i>	210
Endurance	PI 639233	Oklahoma SU	2004	<i>B1b, D1a</i>	203, 210
Expedition	PI 629060	South Dakota SU	2002	<i>B1b, D1a</i>	197
Gem	NA	Agseco	2003	<i>B1b, D1a</i>	165
Goodstreak	PI 632434	U Nebraska	2002	<i>B1a, D1a</i>	210
Hallam	PI 638790	U Nebraska	2005	<i>B1b, D1a</i>	165
Halt	PI 584505	Colorado SU	1994	<i>B1b, D1a</i>	165
Hamlet	PI 549276	Kansas SU	1989	<i>B1a, D1a</i>	165
Harding	PI 608049	South Dakota SU	1999	<i>B1a, D1a</i>	210
Harry	PI 632435	U Nebraska	2002	<i>B1b, D1a</i>	165
Hatcher	PI 638512	Colorado SU	2004	<i>B1b, D1a</i>	165
Heyne	PI 612577	Kansas SU	1998	<i>B1b, D1a</i>	175
Ike	PI 574488	Kansas SU	1993	<i>B1b, D1a</i>	210
Infinity	PI 639922	U Nebraska	2005	<i>B1b, D1a</i>	210
Intrada	PI 631402	Oklahoma SU	2000	<i>B1b, D1a</i>	210
Jagalene	PI 631376	AgriPro Wheat	2002	<i>B1b, D1a</i>	210
Jagger	PI 593688	Kansas SU	1994	<i>B1b, D1a</i>	210
Karl 92	PI 564245	Kansas SU	1992	<i>B1b, D1a</i>	165
Lakin	PI 617032	Kansas SU	2000	<i>B1b, D1a</i>	165
Lamar	PI 559719	Colorado SU	1988	<i>B1a, D1a</i>	nd
Lancota	CItr 17389	U Nebraska	1975	<i>B1a, D1a</i>	210
Larned	CItr 17650	Kansas SU	1976	<i>B1a, D1a</i>	210
Lindon	CItr 17440	Colorado SU	1975	<i>B1b, D1a</i>	165
Millennium	PI 613099	U Nebraska	2000	<i>B1b, D1a</i>	210
Mustang	PI 477286	AgriPro Wheat	1983	<i>B1a, D1a</i>	nd
Nekota	PI 584997	U Nebraska	1994	<i>B1b, D1a</i>	210
Newton	CItr 17715	Kansas SU	1978	<i>B1b, D1a</i>	210
Nicoma	CItr 13874	Oklahoma SU	1971	<i>B1a, D1a</i>	165
Niobrara	PI 584996	U Nebraska	1994	<i>B1b, D1a</i>	165
NuFrontier	NA	AgriPro Wheat	2000	<i>B1a, D1a</i>	210
NuHills	NA	AgriPro Wheat	2003	<i>B1b, D1a</i>	210
NuHorizon	NA	General Mills	2000	<i>B1b, D1a</i>	165
NuPlains	PI 605741	U Nebraska	1999	<i>B1b, D1a</i>	165, 197
Ok 101	PI 631493	Oklahoma SU	2001	<i>B1a, D1b</i>	165
Ok 102	PI 632635	Oklahoma SU	2002	<i>B1b, D1a</i>	165
Onaga	NA	Agseco	1998	<i>B1b, D1a</i>	165
Osage	CItr 17292	Oklahoma SU	1974	<i>B1a, D1a</i>	210
Overley	NA	Kansas SU	2003	<i>B1b, D1a</i>	165
Parker 76	CItr 17685	Kansas SU	1976	<i>B1a, D1a</i>	210
Pawnee	CItr 11669	U Nebraska	1942	<i>B1a, D1a</i>	175

some notes on *Rht* genotype:

***Rht1*:** *B1a* = wild type, *B1b* = dwarfing. ***Rht2*:** *D1a* = wild type, *D1b* = dwarfing

Cultivar	Accession Number [†]	Developer/State	Year	Rht genotype	Xgwm261 allele (base pairs)
Payne	CItr 17717	Oklahoma SU	1977	<i>B1b, D1a</i>	165
Platte	GSTR 10701	HybriTech Seed International	2001	<i>B1b, D1a</i>	210
Ponca	CItr 12128	Kansas SU	1951	<i>B1a, D1a</i>	210
Prairie Red	PI 605390	Colorado SU	1998	<i>B1b, D1a</i>	165
Prairie White	NA	Farmer Direct Foods	2003	<i>B1b, D1a</i>	nd
Pronghorn	PI 593047	U Nebraska	1996	<i>B1a, D1a</i>	197
Prowers	PI 605389	Colorado SU	1997	<i>B1a, D1a</i>	165
Rall	CItr 17578	Oklahoma SU	1976	<i>B1a, D1a</i>	210
Santa Fe	NA	WestBred LLC	1994	<i>B1b, D1a</i>	165
Scout 66	CItr 13996	U Nebraska	1967	<i>B1a, D1a</i>	210
Scoutland	CItr 14075	U Nebraska	1970	<i>B1a, D1a</i>	210
Stanton	PI 617033	Kansas SU	2000	<i>B1b, D1a</i>	210
Sturdy	CItr 13684	Texas A&M U	1966	<i>B1b, D1a</i>	165
T81	NA	Trio Research	1995	<i>B1b, D1a</i>	165
TAM 105	CItr 17826	Texas A&M U	1979	<i>B1b, D1a</i>	165
TAM 107	PI 495594	Texas A&M U	1984	<i>B1b, D1a</i>	165
TAM 108	PI 495595	Texas A&M U	1984	<i>B1b, D1a</i>	197
TAM 110	PI 595757	Texas A&M U	1996	<i>B1b, D1a</i>	165
TAM 111	PI 631352	Texas A&M U	2002	<i>B1b, D1a</i>	192, 197
TAM 200	PI 578255	Texas A&M U	1986	<i>B1b, D1a</i>	165, 197
TAM 202	PI 561933	Texas A&M U	1992	<i>B1b, D1a</i>	nd
TAM 300	PI 576151	Texas A&M U	1993	<i>B1a, D1b</i>	nd
TAM 301	PI 596544	Texas A&M U	1995	<i>B1b, D1a</i>	nd
TAM 302	PI 605910	Texas A&M U	1998	<i>B1a, D1b</i>	nd
TAM W-101	CItr 15324	Texas A&M U	1971	<i>B1b, D1a</i>	210
Tenmarq	CItr 6936	Kansas SU	1932	<i>B1a, D1a</i>	210
Thunderbolt	NA	AgriPro Wheat	1999	<i>B1b, D1a</i>	165
Tonkawa	NA	Oklahoma SU	1994	<i>B1b, D1a</i>	nd
Trego	PI 612576	Kansas SU	1999	<i>B1b, D1a</i>	197
Triumph 64	CItr 13679	Oklahoma SU	1964	<i>B1a, D1a</i>	165, 210
Vista	PI 562653	U Nebraska	1992	<i>B1b, D1a</i>	210
Vona	CItr 17441	Colorado SU	1976	<i>B1b, D1a</i>	165
Wahoo	PI 619098	U Nebraska	2000	<i>B1b, D1a</i>	210
Wendy	PI 638521	South Dakota SU	2004	<i>B1b, D1a</i>	210
Wesley	PI 605742	U Nebraska	1998	<i>B1b, D1a</i>	192
Windstar	PI 597379	U Nebraska	1996	<i>B1b, D1a</i>	175
Yuma	PI 559720	Colorado SU	1992	<i>B1b, D1a</i>	165
Yumar	PI 605388	Colorado SU	1998	<i>B1b, D1a</i>	165

[†] Accession number from the USDA-ARS National Small Grains Collection.

[‡] "NA" indicates that a USDA-ARS accession number for the line is not available.

Table 2. Genotype at the *Rht-B1* , *Rht-D1* and *Xgwm261* loci, release date and developer of 247 soft winter wheat cultivars from the Eastern soft wheat growing region of the United States and Canada.

reference: Guedira, M, G Brown-Guedira, D Van Sanford, C Sneller, E Souza, D Marshall. 2009. Distribution of *Rht* genes in modern and historic winter wheat germplasm from the eastern and central United States. Crop Sci. doi:10.2135/cropsci2009.10.0626

some notes on *Rht* genotype:

Rht1: *B1a* = wild type, *B1b* = dwarfing. ***Rht2:*** *D1a* = wild type, *D1b* = dwarfing

Cultivar	Accession Number [†]	Developer/State	Year	Rht genotype	<i>Xgwm261</i> allele
					(base pairs)
2510	PI 550696	Pioneer Hi-Bred	1991	<i>B1b, D1a</i>	192
2540	NA	Pioneer Hi-Bred	1995	<i>B1a, D1b</i>	203
2545	PI 550697	Pioneer Hi-Bred	1991	<i>B1a, D1b</i>	203
2548	PI 532913	Pioneer Hi-Bred	1988	<i>B1a, D1b</i>	175
2550	PI 600858	Pioneer Hi-Bred	1982	<i>B1a, D1b</i>	203
2552	NA	Pioneer Hi-Bred	1993	<i>B1a, D1b</i>	165
2555	PI 532914	Pioneer Hi-Bred	1986	<i>B1a, D1b</i>	175
2568	NA	Pioneer Hi-Bred	1995	<i>B1a, D1b</i>	165
2571	PI 561200	Pioneer Hi-Bred	1992	<i>B1b, D1a</i>	175
2580	PI 561198	Pioneer Hi-Bred	1992	<i>B1a, D1b</i>	165
2643	NA	Pioneer Hi-Bred	1994	<i>B1a, D1b</i>	203
2684	NA	Pioneer Hi-Bred	1993	<i>B1a, D1b</i>	203
25R18	NA	Pioneer Hi-Bred	1999	<i>B1b, D1a</i>	165
25R23	NA	Pioneer Hi-Bred	2001	<i>B1a, D1b</i>	192
25R26	NA	Pioneer Hi-Bred	1996	<i>B1a, D1b</i>	165
25R35	NA	Pioneer Hi-Bred	2003	<i>B1a, D1b</i>	175
25R37	NA	Pioneer Hi-Bred	2000	<i>B1a, D1b</i>	210
25R42	NA	Pioneer Hi-Bred	2001	<i>B1a, D1b</i>	165
25R44	NA	Pioneer Hi-Bred	2000	<i>B1a, D1b</i>	165
25R47	NA	Pioneer Hi-Bred	2002	<i>B1a, D1b</i>	165
25R49	NA	Pioneer Hi-Bred	2000	<i>B1a, D1b</i>	175
25R51	NA	Pioneer Hi-Bred	2005	<i>B1b, D1a</i>	165
25R54	NA	Pioneer Hi-Bred	2003	<i>B1a, D1b</i>	165
25R56	NA	Pioneer Hi-Bred	2006	<i>B1a, D1b</i>	203
25R57	NA	Pioneer Hi-Bred	1996	<i>B1a, D1b</i>	175
25R62	NA	Pioneer Hi-Bred	2007	<i>B1a, D1b</i>	175
25R63	NA	Pioneer Hi-Bred	2005	<i>B1a, D1b</i>	165
25R78	NA	Pioneer Hi-Bred	2001	<i>B1b, D1a</i>	175
25R85	NA	Pioneer Hi-Bred	2000	<i>B1b, D1a</i>	192
25W33	NA	Pioneer Hi-Bred	1996	<i>B1a, D1b</i>	165
25W36	NA	Pioneer Hi-Bred	2007	<i>B1a, D1b</i>	203
25W41	NA	Pioneer Hi-Bred	2003	<i>B1a, D1b</i>	203
25W43	NA	Pioneer Hi-Bred	2007	<i>B1a, D1b</i>	203
25W60	NA	Pioneer Hi-Bred	1998	<i>B1a, D1b</i>	175
26R12	NA	Pioneer Hi-Bred	2002	<i>B1a, D1b</i>	165
26R15	NA	Pioneer Hi-Bred	2003	<i>B1b, D1a</i>	203
26R22	NA	Pioneer Hi-Bred	2005	<i>B1a, D1b</i>	165

some notes on *Rht* genotype:

***Rht1*:** *B1a* = wild type, *B1b* = dwarfing. ***Rht2*:** *D1a* = wild type, *D1b* = dwarfing

Cultivar	Accession Number [†]	Developer/State	Year	Rht genotype	<i>Xgwm261</i> allele
					(base pairs)
26R24	NA	Pioneer Hi-Bred	1999	<i>B1a, D1b</i>	175
26R31	NA	Pioneer Hi-Bred	2004	<i>B1a, D1b</i>	203
26R46	NA	Pioneer Hi-Bred	1998	<i>B1a, D1b</i>	165
26R61	NA	Pioneer Hi-Bred	1998	<i>B1a, D1b</i>	165
26R87	NA	Pioneer Hi-Bred	2006	<i>B1a, D1b</i>	203
Abe	CItr 15375	Purdue U	1972	<i>B1a, D1b</i>	175
Adder	PI 491396	Purdue U	1984	<i>B1a, D1b</i>	175
Adena	PI 481852	Ohio SU	1983	<i>B1b, D1a</i>	192
AG 2020	NA	Ag Alumni Seeds/ Indiana	2002	<i>B1b, D1a</i>	175
AGS 2000	PI 612956	U Georgia	2000	<i>B1a, D1b</i>	203
American Banner	CItr 6943	Michigan SU	1922	<i>B1a, D1a</i>	175
Argee	CItr 17606	U Wisconsin	1976	<i>B1b, D1a</i>	175
Arthur	CItr 14425	Purdue U	1968	<i>B1a, D1a</i>	175
Augusta	CItr 17831	Michigan SU	1979	<i>B1a, D1b</i>	175
Baldrock	CItr 11538	Michigan SU	1931	<i>B1a, D1a</i>	175
Batavia	PI 595085	Cornell U	1994	<i>B1a, D1b</i>	175
Beck 112	NA	Beck's Hybrids	2004	<i>B1a, D1b</i>	203
Beck 117	NA	Beck's Hybrids	2003	<i>B1a, D1a</i>	175
Beck 122	NA	Beck's Hybrids	2006	<i>B1b, D1a</i>	175
Becker	PI 494524	Ohio SU	1985	<i>B1a, D1b</i>	192
Benhur	CItr 14054	Purdue U	1966	<i>B1a, D1a</i>	175
Beretta	PI 634822	AgriPro Wheat	2004	<i>B1b, D1a</i>	175
Bess	PI 642794	U Missouri	2003	<i>B1b, D1a</i>	175
Blazer	PI 477289	AgriPro Wheat	1984	<i>B1a, D1b</i>	165
Blueboy	CItr 14031	North Carolina SU	1964	<i>B1b, D1a</i>	175
Boone	PI 570654	AgriPro Wheat	1993	<i>B1a, D1b</i>	165
Bradford	PI 470925	Texas A&M U	1984	<i>B1a, D1b</i>	175
Brandy	NA	Indiana	1988	<i>B1a, D1a</i>	192, 203
Branson	PI 639227	AgriPro Wheat	2005	<i>B1b, D1a</i>	175
Caldwell	CItr 17897	Purdue U	1981	<i>B1b, D1a</i>	175
Caledonia	PI 610188	Cornell U	1998	<i>B1a, D1b</i>	192
Cardinal	PI 502973	Ohio SU	1986	<i>B1b, D1a</i>	165
Cayuga	PI 595848	Cornell U	1993	<i>B1a, D1a</i>	175
Chancellor	CItr 12333	U Georgia	1947	<i>B1a, D1a</i>	175
Charmany	PI 491537	U Wisconsin	1984	<i>B1a, D1b</i>	210
Chelsea	PI 583811	Michigan SU	1998	<i>B1a, D1b</i>	165
Clark	PI 512337	Purdue U	1987	<i>B1b, D1a</i>	175
Clemens	PI 583281	AgriPro Wheat	1995	<i>B1b, D1a</i>	175
Clemson 201	PI 585044	Clemson U	1995	<i>B1a, D1b</i>	175
Coker 47-27	CItr 12563	Coker/Syngenta	1950	<i>B1a, D1a</i>	175
Coker 65-20	CItr 14132	Coker/Syngenta	1965	<i>B1a, D1a</i>	165
Coker 68-15	CItr 15291	Coker/Syngenta	1968	<i>B1a, D1b</i>	203
Coker 747	CItr 17923	Coker/Syngenta	1976	<i>B1a, D1b</i>	203

some notes on *Rht* genotype:

***Rht1*:** *B1a* = wild type, *B1b* = dwarfing. ***Rht2*:** *D1a* = wild type, *D1b* = dwarfing

Cultivar	Accession Number [†]	Developer/State	Year	Rht genotype	<i>Xgwm261</i> allele
					(base pairs)
Coker 762	CItr 17924	Coker/Syngenta	1980	<i>B1a, D1b</i>	165
Coker 797	CItr 17722	Coker/Syngenta	1980	<i>B1a, D1b</i>	203
Coker 80-28	NA	Coker/Syngenta	1980	<i>B1a, D1b</i>	203
Coker 833	PI 601465	Coker/Syngenta	1992	<i>B1b, D1a</i>	165
Coker 9134	PI 573034	Coker/Syngenta	1992	<i>B1a, D1b</i>	203
Coker 9152	PI 631088	Coker/Syngenta	2002	<i>B1a, D1b</i>	165
Coker 916	PI 600974	Coker/Syngenta	1983	<i>B1a, D1a</i>	175
Coker 9375	PI 634859	Coker/Syngenta	2004	<i>B1b, D1a</i>	203
Coker 9511	PI 643095	Coker/Syngenta	2006	<i>B1a, D1a</i>	175
Coker 9663	PI 596345	Coker/Syngenta	1997	<i>B1a, D1a</i>	203
Coker 9766	PI 601429	Coker/Syngenta	1987	<i>B1b, D1a</i>	165
Coker 9803	PI 548845	Coker/Syngenta	1990	<i>B1a, D1b</i>	203
Coker 983	PI 601076	Coker/Syngenta	1983	<i>B1a, D1b</i>	203
Coker 9835	PI 548846	Coker/Syngenta	1990	<i>B1a, D1b</i>	203
Coker 9904	PI 567907	Coker/Syngenta	1992	<i>B1a, D1b</i>	175
Compton	PI 478892	Purdue U	1983	<i>B1a, D1b</i>	175
Cooper	PI 634821	AgriPro Wheat	2004	<i>B1b, D1a</i>	203
Cornell 595	CItr 12372	Cornell U	1944	<i>B1a, D1a</i>	165
Cumberland	NA	U Kentucky	2004	<i>B1a, D1b</i>	175
Daisy	NA	Sunbeam Extract/Ohio	2003	<i>B1b, D1a</i>	175
Delaware	NA	Ag Canada	1992	<i>B1a, D1b</i>	175
Delta Queen	CItr 17893	Coker/Syngenta	1978	<i>B1b, D1a</i>	175
Doublecrop	CItr 17349	U Arkansas	1974	<i>B1a, D1a</i>	175
Dynasty	PI 506409	Ohio SU	1987	<i>B1a, D1b</i>	175
Ebberts 501	NA	Ebberts Field Seeds	2005	<i>B1a, D1b</i>	175
Ebberts 570	NA	EbbertsField Seeds	2006	<i>B1b, D1a</i>	175
Ebberts 575	NA	Ebberts Field Seeds	2007	<i>B1b, D1a</i>	165
Elkhart	PI 591626	AgriPro Wheat	1996	<i>B1b, D1a</i>	175
Ernie	PI 584525	U Missouri	1994	<i>B1b, D1a</i>	175
Excel	PI 555465	Ohio SU	1991	<i>B1a, D1b</i>	175
Fairfield	CItr 12013	Purdue U	1939	<i>B1a, D1a</i>	175
FFR 544W	NA	Indiana	1992	<i>B1a, D1b</i>	nd
FFR 555W	NA	Virginia	1991	<i>B1a, D1b</i>	175
Flint	CItr 6307	U Georgia	1919	<i>B1a, D1a</i>	175
Florida 302	PI 601163	U Florida	1985	<i>B1a, D1a</i>	192
Florida 304	PI 562528	U Florida	1992	<i>B1a, D1b</i>	203
Forward	CItr 6691	Cornell U	1921	<i>B1a, D1a</i>	175
Foster	PI 593689	U Kentucky	1996	<i>B1b, D1a</i>	175
Frankenmuth	CItr 17830	Michigan SU	1979	<i>B1a, D1a</i>	175
Freedom	PI 562382	Ohio SU	1992	<i>B1b, D1a</i>	165
Fulcaster	CItr 4862	Schindel - Maryland	1913	<i>B1a, D1a</i>	175
Fultz	PI 5493	Fultz - Pennsylvania	1871	<i>B1a, D1a</i>	175
GA-Gore	PI 561842	U Georgia	1990	<i>B1b, D1a</i>	nd

some notes on *Rht* genotype:

***Rht1*:** *B1a* = wild type, *B1b* = dwarfing. ***Rht2*:** *D1a* = wild type, *D1b* = dwarfing

Cultivar	Accession Number [†]	Developer/State	Year	Rht genotype	<i>Xgwm261</i> allele
					(base pairs)
Genesee	CItr 12653	Cornell U	1951	<i>B1a, D1a</i>	175
Genesee Giant	NA [‡]	New York	1893	<i>B1a, D1a</i>	175
Georgia 1123	CItr 13292	U Georgia	1961	<i>B1a, D1a</i>	175
Gibson	PI 608001	AgriPro Wheat	2000	<i>B1b, D1a</i>	203
Glacier	PI 555586	U Wisconsin	1991	<i>B1b, D1a</i>	175
Glory	PI 592750	Ohio SU	1992	<i>B1b, D1a</i>	203
Goens	CItr 4857	Goens-Ohio	1808	<i>B1a, D1a</i>	165
Goldfield	PI 608672	Purdue U	1995	<i>B1b, D1a</i>	175
GR 860	PI 508288	Ohio SU	1987	<i>B1b, D1a</i>	192
GR 942	NA	Ohio SU	1994	<i>B1b, D1a</i>	175, 203
Grandprize	CItr 4876	Jones - New York	1904	<i>B1a, D1a</i>	175
Hart	CItr 17426	U Missouri	1975	<i>B1a, D1a</i>	192
Harus	NA	Ag Canada	1985	<i>B1a, D1b</i>	175
Harvest Queen	CItr 5314	Marshall - Kansas	1897	<i>B1a, D1a</i>	175
Hickory	PI 573036	AgriPro Wheat	1994	<i>B1b, D1a</i>	175
Hillsdale	PI 489688	Michigan SU	1984	<i>B1a, D1b</i>	175
Holley	CItr 14579	U Georgia	1969	<i>B1a, D1a</i>	175
Honor	CItr 6161	Cornell U	1918	<i>B1a, D1a</i>	175
Hopewell	PI 595678	Ohio SU	1996	<i>B1b, D1a</i>	165
Houser	CItr 17736	Cornell U	1977	<i>B1a, D1b</i>	175
Howell	PI 552816	U Illinois	1991	<i>B1a, D1b</i>	175
Illini Chief	CItr 5406	Gillham - Illinois	1917	<i>B1a, D1a</i>	175
INW 0101	NA	Purdue U	2001	<i>B1a, D1b</i>	203
INW 0303	NA	Purdue U	2003	<i>B1b, D1a</i>	175
INW 0411	NA	Purdue U	2005	<i>B1b, D1a</i>	175
Ionia	CItr 14469	Michigan SU	1972	<i>B1a, D1a</i>	175
Jackson	PI 591479	Virginia Tech U	1993	<i>B1a, D1b</i>	203
Jaypee	PI 592760	U Arkansas	1995	<i>B1a, D1b</i>	175
Jensen	PI 654384	Cornell U	2008	<i>B1a, D1b</i>	175
Kaskaskia	PI 602969	U Illinois	1999	<i>B1b, D1a</i>	175
Kenosha	CItr 14025	U Wisconsin	1964	<i>B1a, D1a</i>	165
Key	CItr 15928	Purdue U	1975	<i>B1a, D1a</i>	175
Knox 62	CItr 13701	Purdue U	1962	<i>B1a, D1a</i>	175
Kristy	NA	U Kentucky	2001	<i>B1a, D1b</i>	175
Lewis	CItr 13705	U Missouri	1964	<i>B1a, D1a</i>	175
Logan	CItr 14156	Ohio SU	1968	<i>B1a, D1a</i>	165
Longberry No. 1	CItr 5823	Jones - New York	1898	<i>B1a, D1a</i>	175
Madison	PI 547041	Virginia Tech U	1990	<i>B1b, D1a</i>	175
Magnum	PI 477285	AgriPro Wheat	1984	<i>B1a, D1a</i>	175
Mallard	PI 559928	AgriPro Wheat	1991	<i>B1b, D1a</i>	175, 203
Mason	PI 594044	AgriPro Wheat	1996	<i>B1b, D1a</i>	165
Massey	CItr 17953	Virginia Tech U	1981	<i>B1b, D1a</i>	175
McNair 1003	PI 552975	McNair Seed	1977	<i>B1a, D1a</i>	165

some notes on *Rht* genotype:

***Rht1*:** *B1a* = wild type, *B1b* = dwarfing. ***Rht2*:** *D1a* = wild type, *D1b* = dwarfing

Cultivar	Accession Number [†]	Developer/State	Year	Rht genotype	<i>Xgwm261</i> allele
					(base pairs)
McNair 1813	CItr 15289	McNair Seed	1971	<i>B1a, D1a</i>	175
McNair 701	CItr 15288	McNair Seed	1973	<i>B1b, D1a</i>	175
Mediterranean	CItr 3332	New York	1912	<i>B1a, D1a</i>	175
Mitchell	PI 619197	AgriPro Wheat	2002	<i>B1a, D1b</i>	175
Moking	CItr 12556	Kansas SU	1947	<i>B1a, D1a</i>	175
Monon	CItr 13278	Purdue U	1959	<i>B1a, D1a</i>	175
Mountain	NA	Ag Canada	1999	<i>B1a, D1b</i>	175
MPV 57	NA	Virginia Tech U	2005	<i>B1a, D1a</i>	175
Nabob	CItr 8869	Ohio SU	1928	<i>B1a, D1a</i>	175
NC-Neuse	PI 633037	North Carolina SU	2003	<i>B1a, D1b</i>	165
Nittany	CItr 6962	Pennsylvania SU	1918	<i>B1a, D1a</i>	175
Oasis	CItr 15929	Purdue U	1973	<i>B1a, D1b</i>	175
Pat	PI 631446	U Arkansas	2001	<i>B1b, D1a</i>	175
Patterson	PI 583825	Purdue U	1994	<i>B1b, D1a</i>	175
Patton	PI 603961	AgriPro Wheat	1999	<i>B1b, D1a</i>	175
Pearl	NA	Virginia Tech U	2008	<i>B1a, D1b</i>	203
Pennoll	CItr 12755	Pennsylvania SU	1949	<i>B1a, D1a</i>	175
Pike	CItr 17878	U Missouri	1980	<i>B1a, D1b</i>	192
Pontiac	PI 573038	AgriPro Wheat	1993	<i>B1b, D1a</i>	175
Potomac	CItr 15292	Virginia Tech U	1975	<i>B1b, D1a</i>	175
Progold	NA	Michigan	1993	<i>B1b, D1a</i>	nd
Purplestraw	PI 500000	Introduction - Maryland	1822	<i>B1a, D1a</i>	165
Red May	CItr 5336	Missouri	1830	<i>B1a, D1a</i>	175
Redcoat	CItr 13170	Purdue U	1960	<i>B1a, D1a</i>	175
Redhart	CItr 8898	Coker/Syngenta	1929	<i>B1a, D1a</i>	175
Roane	PI 612958	Virginia Tech U	1999	<i>B1a, D1b</i>	203
Roy	CItr 17763	North Carolina SU	1979	<i>B1b, D1a</i>	175
Royal	CItr 12558	U Illinois	1947	<i>B1a, D1a</i>	165
Rudy	CItr 4873	Rudy - Ohio	1913	<i>B1a, D1a</i>	165
Ruler	CItr 17314	Ohio SU	1975	<i>B1a, D1b</i>	175
Rupert Giant	CI 5920	Thorburn - New York	1917	<i>B1a, D1a</i>	175
S-76	CItr 17608	Pioneer Hi-Bred	1976	<i>B1a, D1b</i>	192, 203
S-78	PI 600823	Pioneer Hi-Bred	1978	<i>B1a, D1b</i>	203
Sabbe	PI 614729	U Arkansas	2000	<i>B1a, D1b</i>	192
Saluda	PI 480474	Virginia Tech U	1983	<i>B1a, D1b</i>	203
Sawyer	PI 559930	AgriPro Wheat	1992	<i>B1a, D1a</i>	175
Scotty	PI 469294	U Illinois	1982	<i>B1a, D1b</i>	175
Seneca	CItr 12529	Ohio SU	1946	<i>B1a, D1a</i>	175
Severn	CItr 17939	U Maryland	1981	<i>B1a, D1a</i>	175
Shiloh	PI 591627	AgriPro Wheat	1996	<i>B1a, D1b</i>	192
Sisson	PI 617053	Virginia Tech U	2000	<i>B1a, D1b</i>	203
SS 520	NA	Southern States	2001	<i>B1a, D1b</i>	203
SS 560	NA	Southern States	2002	<i>B1b, D1a</i>	192

some notes on *Rht* genotype:

***Rht1*:** *B1a* = wild type, *B1b* = dwarfing. ***Rht2*:** *D1a* = wild type, *D1b* = dwarfing

Cultivar	Accession Number [†]	Developer/State	Year	Rht genotype	<i>Xgwm261</i> allele
					(base pairs)
SS 8302	NA	Southern States	2004	<i>B1a, D1b</i>	165
SS 8309	NA	Southern States	2004	<i>B1a, D1b</i>	165
SS 8404	NA	Southern States	2005	<i>B1a, D1b</i>	203
Stacey	CItr 17861	U Georgia	1980	<i>B1a, D1b</i>	192
Stadler	CItr 13704	U Missouri	1964	<i>B1a, D1a</i>	175
Steyer Alma	NA	Steyer Seeds	2004	<i>B1b, D1a</i>	203
Steyer Fatzinger	NA	Steyer Seeds	2006	<i>B1b, D1a</i>	175
Steyer Hammon	NA	Steyer Seeds	2006	<i>B1b, D1a</i>	175
Steyer Morral	NA	Steyer Seeds	2004	<i>B1b, D1a</i>	192
Stoddard	CItr 15925	U Missouri	1973	<i>B1a, D1b</i>	192
Sullivan	CItr 17684	Purdue U	1977	<i>B1a, D1a</i>	175
Superior	NA	Hyland Seeds Canada	2002	<i>B1a, D1b</i>	175
Tecumseh	CItr 17287	Michigan SU/ USDA-ARS	1973	<i>B1a, D1a</i>	175
Titan	CItr 17762	Ohio SU	1978	<i>B1b, D1a</i>	175
Tribute	PI 632689	Virginia Tech U	2002	<i>B1a, D1b</i>	203
Truman	PI 634824	U Missouri	2003	<i>B1b, D1a</i>	175
Trumbull	CItr 5657	Ohio SU	1916	<i>B1a, D1a</i>	175
Twain	PI 506408	AgriPro Wheat	1987	<i>B1b, D1a</i>	175
Tyler	CItr 17899	Virginia Tech U	1980	<i>B1b, D1a</i>	175
USG 3209	PI 658508	Unisouth Genetics	1999	<i>B1a, D1b</i>	203
USG 3342	NA	Unisouth Genetics	2007	<i>B1a, D1b</i>	192
USG 3350	NA	Unisouth Genetics	2003	<i>B1a, D1b</i>	175
Vermillion	CItr 12748	Purdue U	1955	<i>B1a, D1a</i>	175
Vermont Winter Reeds	NA	New York	1894	<i>B1a, D1a</i>	175
Vigo	CItr 12220	Purdue U	1946	<i>B1a, D1a</i>	175
Vigoro V9611	NA	Royster Clark	2006	<i>B1a, D1b</i>	175
Vigoro V9710	NA	Royster Clark	2007	<i>B1a, D1b</i>	203
Vigoro V9712	NA	Royster Clark	2007	<i>B1b, D1a</i>	192
Wakefield	PI 547040	Virginia Tech U	1990	<i>B1b, D1a</i>	175
Wakeland	CItr 13382	North Carolina SU	1957	<i>B1a, D1a</i>	175
Warwick	NA	Hyland Seeds Canada	2003	<i>B1a, D1b</i>	192
Wheeler	CItr 17900	Virginia Tech U	1980	<i>B1a, D1a</i>	175
White Wonder	CItr 6450	Sprigg - West Virginia	1919	<i>B1a, D1a</i>	175
Wilson	NA	Michigan	2002	<i>B1b, D1a</i>	175
Wisdom	NA	Hyland Seeds Canada	2003	<i>B1b, D1a</i>	175
Wonder	NA	Hyland Seeds Canada	2002	<i>B1a, D1b</i>	175
Yorkstar	CItr 14026	Cornell U	1964	<i>B1a, D1b</i>	175
Yorkwin	CItr 11855	Cornell U	1935	<i>B1a, D1a</i>	175

[†] Accession number from the USDA-ARS National Small Grains Collection.

^{**}“NA” indicates that a USDA-ARS accession number for the line is not available.