

SUPPLEMENTARY MATERIAL

to the article S.E. Smolenskaya, V.M. Efimov, Yu.V. Kruchinina, B.F. Nemtsev, G.Yu. Chepurinov, E.S. Ovchinnikova, I.A. Belan, E.V. Zuev, Zhou Chenxi, V.V. Piskarev, N.P. Goncharov "Earliness and morphotypes of common wheat cultivars of Western and Eastern Siberia"

Common wheat cultivars of Western (West) and Eastern (East) Siberia and their characteristics

No. cvs	Cultivar	Region*	West	East	Zoned year	Awedness**	Spike color***	Graion color****	DVP	1000 grain weight	Vrn-A1	Vrn-B1a	Vrn-B1c	Vrn-B1null	Vrn-B1all	Variety	Status	References
1	Aviada	0	1	0	2004	0	0	1	87.5	37	1	1	0	0	a	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
2	Alen'kaya uluchshennaya	1	0	1	1939	1	1	1	74.5	20	1	1	0	0	a	<i>ferrugineum</i>	cv.	(Fait, Stelmakh, 1993; Moiseeva, Goncharov, 2007; Likhenko et al., 2014)
3	Aleshina	0	1	0	2003	0	0	1	90	37	1	1	0	0	a	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
4	Altajskaya 70	0.5	1	1	2009	0	0	1	80	38.5	1	0	0	1	null	<i>lutescens</i>	cv.	(Likhenko et al., 2014; Lysenko et al., 2014)
5	Altajskaya 92	0	1	0	1995	0	0	1	80.5	36.5	1	1	0	0	a	<i>lutescens</i>	cv.	(Likhenko et al., 2014)
6	Altajskaya 98	0	1	0	2000	0	0	1	72	35	1	0	1	0	c	<i>lutescens</i>	cv.	(Likhenko et al., 2014; Lysenko et al., 2014)
7	Altajskaya 99	0	1	0	2005	0	0	1	81	40	1	0	1	0	c	<i>lutescens</i>	cv.	(Likhenko et al., 2014; Lysenko et al., 2014)
8	Altajskaya 100	0	1	0	2003	0	0	1	88.5	38	0	0	1	0	c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
9	Altajskaya 110	0	1	0	2011	0	0	1	88	36.5	1	1	0	0	a	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
10	Altajskaya 325	0	1	0	2004	0	0	1	87.5	40	1	0	0	1	null	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
11	Altajskaya 530	0	1	0	2007	0	0	1	82	37.5	1	0	1	0	c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
100	Al'bidum 3700 (k-34706)	0	1	0	1940	0	0	0	79.7	32.2	1	0.5	0.5	0	a/c	<i>albidum</i>	cv.	(Goncharov, 2012)
12	Angara 86	0	1	0	1989	0	0	1	82.5	38	1	0	1	0	c	<i>lutescens</i>	cv.	(Likhenko et al., 2014)
13	Aryuna	1	0	1	2003	0	0	1	81.5	30.5	1	1	0	0	a	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
14	Baganskaya 95	0	1	0	2007	0	0	1	88	39.5	1	1	0	0	a	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
15	Balaganka	1	0	1	1929	1	1	1	84	23.5	1	1	0	0	a	<i>ferrugineum</i>	cv.	(Moiseeva, Goncharov, 2007; Goncharov, 2012; Likhenko et al., 2014)
16	Bezim	1	0	1	2000	0	1	1	83	34.5	1	1	0	0	a	<i>milturum</i>	cv.	(Lysenko et al., 2014)
17	Biryusinka	1	0	1	1973	0	0	1	72	28	1	1	0	0	a	<i>lutescens</i>	cv.	(Likhenko et al., 2014)
18	Boevchanka	0	1	0	2009	0	0	1	79	33.5	1	0.5	0.5	0	a/c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
19	Buryatskaya 34	1	0	1	1977	0	0	1	105	42.5	1	0.5	0.5	0	a/c	<i>lutescens</i>	cv.	This study
20	Buryatskaya 79	1	0	1	1982	0	0	1	88.5	38	1	1	0	0	a	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
21	Buryatskaya 551	1	0	1	2012	0	0	1	91.5	38	1	0.5	0.5	0	a/c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
22	Buryatskaya ostistaya	1	0	1	2005	1	0	1	91	38	1	0	0	1	null	<i>erythrosperrum</i>	cv.	(Lysenko et al., 2014)
23	Bel'	0	1	0	2008	0	0	1	83	36	1	1	0	0	a	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
24	Vetluzhanka	1	0	1	1994	0	0	1	86.5	40	1	0.5	0.5	0	a/c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
25	Gerakl	0	1	0	2010	0	0	1	86.5	37	1	0.5	0.5	0	a/c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
26	Darnicza	0	1	0	2008	0	0	1	90	36.5	1	0	1	0	c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
27	Zlatozara	0	1	0	1999	1	0	1	86.5	43	1	0	0	1	null	<i>erythrosperrum</i>	cv.	(Likhenko et al., 2014)
28	Ivolginskaya	1	0	1	1999	0	0	1	88	38	1	0	0	1	null	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
29	Ikar	0	1	0	2001	0	0	0	79.5	37	1	1	0	0	a	<i>pyrothrix</i>	cv.	(Lysenko et al., 2014)
30	Il'inskaya	0	1	0	1997	0	0	1	76.5	37	1	0	1	0	c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
31	Irtyskaya 10	0	1	0	1981	0	0	1	77	37.5	1	1	0	0	a	<i>lutescens</i>	cv.	(Likhenko et al., 2014)
32	Kantegirskaya 89	1	0	1	1994	0	0	0	86	32	1	1	0	0	a	<i>albidum</i>	cv.	(Lysenko et al., 2014)
33	Katyusha	0	1	0	2008	0	0	1	84.5	36.5	1	0	1	0	c	<i>lutescens</i>	cv.	(Likhenko et al., 2014; Lysenko et al., 2014)
34	Lena	1	0	1	1971	1	1	1	72	16	1	1	0	0	a	<i>ferrugineum</i>	cv.	(Likhenko et al., 2014)
35	Lyutescens 25	0	1	0	1991	0	0	1	72	35.5	1	0	1	0	c	<i>lutescens</i>	cv.	(Likhenko et al., 2014)
36	Lyutescens 521	1	0	1	1991	0	0	1	95	40.5	1	1	0	0	a	<i>lutescens</i>	cv.	(Likhenko et al., 2014)
37	Lyutescens 937	1	0	1	1996	0	0	1	94.5	37	1	1	0	0	a	<i>lutescens</i>	cv.	(Likhenko et al., 2014; Lysenko et al., 2014)
102	Lyutescens 956 (k-18783)	0	1	0	1939	0	0	1	73.5	29.9	1	0.5	0.5	0	a/c	<i>lutescens</i>	cv.	(Fait, Stelmakh, 1993; Moiseeva, Goncharov, 2007)
38	Mariinka	0	1	0	2006	0	0	1	89	40.5	1	0.5	0.5	0	a/c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
39	Mariya 1	0	1	0	2011	0	0	1	85.5	37.5	1	0	0	1	null	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
40	Mil'turum 321	0	1	0	1929	0	1	1	87	31.5	1	0.5	0.5	0	a/c	<i>milturum</i>	cv.	(Goncharov, 2012)
41	Mil'turum 553	0	1	0	1940	0	1	1	86	30.5	1	0.5	0.5	0	a/c	<i>milturum</i>	cv.	(Goncharov, 2012)
42	Novosibirskaya 15	0.5	1	1	2003	0	0	1	79	35	1	1	0	0	a	<i>lutescens</i>	cv.	(Likhenko et al., 2014; Lysenko et al., 2014)

Supplementary Material (continued)

No. cvs	Cultivar	Region*	West	East	Zoned year	Awedness**	Spike color***	Graion color****	DVP	1000 grain weight	Vrn-A1	Vrn-B1a	Vrn-B1c	Vrn-B1null	Vrn-B1all	Variety	Status	References
43	Novosibirskaya 20	0	1	0	2007	0	0	1	73	34	1	0.5	0.5	0	a/c	<i>lutescens</i>	Line	(Goncharov, 2012)
44	Novosibirskaya 22	0	1	0	1991	0	0	1	75	34.5	1	0	0	1	null	<i>lutescens</i>	cv.	(Likhenko et al., 2014)
45	Novosibirskaya 29	0.5	1	1	2003	0	0	1	85	39.5	1	0	0	1	null	<i>lutescens</i>	cv.	(Likhenko et al., 2014)
46	Novosibirskaya 31	0.5	1	1	2010	0	0	1	83.5	36.5	1	0	0	1	null	<i>lutescens</i>	cv.	(Efremova et al., 2016)
47	Novosibirskaya 44	0	1	0	2009	0	0	1	81.5	37.5	1	0	1	0	c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
48	Novosibirskaya 67	0	1	0	1975	0	0	0	104.5	36	1	0.5	0.5	0	a/c	<i>albidum</i>	cv.	(Moiseeva, Goncharov, 2007; Goncharov, 2012)
49	Novosibirskaya 89	0.5	1	1	1994	0	0	1	85	33.5	1	0	1	0	c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
50	Noe selectcionnoe	0	1	0	1928	0	0	1	101	26.5	1	0	0	1	null	<i>lutescens</i>	cv.	This study
51	Obskaya 14	0	1	0	1998	0	0	1	84.5	37.5	1	0	1	0	c	<i>lutescens</i>	cv.	(Likhenko et al., 2014; Lysenko et al., 2014)
52	Omskaya 9	0	1	0	1979	0	0	1	85.5	41	0	0	1	0	c	<i>lutescens</i>	cv.	(Goncharov, 2012; Efremova et al., 2016)
146	Omskaya 12	1	0	1	1984	0	0	1	73.7	32.7	1	0	0	1	null	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
53	Omskaya 18	0	1	0	1991	0	0	1	99.5	32.5	0	0	1	0	c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
54	Omskaya 24	0	1	0	1996	0	0	1	99.5	35	1	0	0	1	null	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
55	Omskaya 26	0	1	0	1998	0	0	1	91	No data	1	0.5	0.5	0	a/c	<i>lutescens</i>	cv.	(Likhenko et al., 2014)
147	Omskaya 27	0	1	0	1997	0	0	1	79.1	38.8	1	0	1	0	c	<i>lutescens</i>	cv.	(Efremova et al., 2016)
56	Omskaya 28	0	1	0	1997	0	0	1	93	35.5	0	0	1	0	c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
57	Omskaya 29	0	1	0	1999	0	0	1	84	37	1	1	0	0	a	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
58	Omskaya 32	0.5	1	1	2001	0	0	1	89	37	1	0	1	0	c	<i>lutescens</i>	cv.	(Likhenko et al., 2014; Lysenko et al., 2014)
59	Omskaya 33	0.5	1	1	2001	0	0	1	85.5	38	1	0	1	0	c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
60	Omskaya 35	0	1	0	2004	0	0	1	88.5	37.5	1	0	0	1	null	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
61	Omskaya 36	0	1	0	2007	0	0	1	80.5	39	1	1	0	0	a	<i>lutescens</i>	cv.	(Likhenko et al., 2014; Lysenko et al., 2014)
62	Omskaya 37	0	1	0	2006	0	0	1	88.5	36	1	0	0	1	null	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
63	Pamyati Azieva	0	1	0	2000	0	0	1	76.5	35.5	1	1	0	0	a	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
64	Pamyati Vavenkova	0.5	1	1	2008	0	0	1	78.5	36.5	1	0	0	1	null	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
65	Pamyati Yudina	1	0	1	2011	0	0	1	82.5	34.5	1	1	0	0	a	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
66	Polyushko	0	1	0	2008	0	0	1	73.5	36.5	1	1	0	0	a	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
67	Prilenskaya 6	1	0	1	1993	1	1	1	71	31	1	0	0	1	null	<i>ferrugineum</i>	cv.	(Likhenko et al., 2014)
68	Prilenskaya 19	1	0	1	1995	1	1	1	66	29	1	1	0	0	a	<i>ferrugineum</i>	cv.	(Lysenko et al., 2014)
69	Riks	0	1	0	2011	0	0	1	88	39.5	1	0	0	1	null	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
70	Rosinka	0.5	1	1	1997	0	0	1	72.5	32.5	1	1	0	0	a	<i>lutescens</i>	cv.	(Lysenko et al., 2014; Efremova et al., 2016)
71	Saratovskaya 29	0.5	1	1	1957	0	0	1	82.5	37	1	0	1	0	c	<i>lutescens</i>	cv.	(Efremova et al., 2004)
72	Svetlanka	0	1	0	2004	0	0	1	88.5	38.5	1	0	1	0	c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
73	Selenga	1	0	1	1989	0	0	1	95	41.5	1	0	0	1	null	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
74	Sibirka 1818	1	0	1	1940	1	1	1	69.3	18	1	1	0	0	a	<i>ferrugineum</i>	cv.	(Moiseeva, Goncharov, 2007; Likhenko et al., 2014)
75	Sibirskaya 12	0	1	0	2006	0	0	1	89	38	1	1	0	0	a	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
76	Sibirskij Al'yans	0.5	1	1	2012	0	0	1	89.5	39.5	1	0	1	0	c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
77	Sibiryachka 4	0	1	0	1977	0	0	1	94	33	0	0	1	0	c	<i>lutescens</i>	cv.	(Likhenko et al., 2014)
78	Skala	1	0	1	1956	0	0	1	88.5	36	1	1	0	0	a	<i>lutescens</i>	cv.	(Likhenko et al., 2014; Lysenko et al., 2014)
79	SKENT 3	0	1	0	2003	0	0	1	85	36.5	1	0	0	1	null	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
80	Skorospelka uluchshennaya	1	0	1	1948	1	1	1	66	19	1	1	0	0	a	<i>ferrugineum</i>	cv.	(Likhenko et al., 2014)
148	Smena (k-28130)	0	1	0	1938	1	0	1	77.4	31	1	0.5	0.5	0	a/c	<i>erythrosperrum</i>	cv.	(Fait, Stelmakh, 1993; Moiseeva, Goncharov, 2007)
81	Sonata	0	1	0	2002	0	0	1	83	34	1	0	1	0	c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
82	Strada Sibiri	0	1	0	2002	0	0	1	77	32.5	1	1	0	0	a	<i>lutescens</i>	cv.	(Likhenko et al., 2014)
83	Tarskaya 8	0	1	0	2009	0	0	1	72	33.7	1	1	0	1	a	<i>lutescens</i>	cv.	(Likhenko et al., 2014)
84	Tertsiya	1	0	1	1995	0	0	1	85	37.5	1b	1	0	0	a	<i>lutescens</i>	cv.	(Efremova et al., 2016)

Supplementary Material (end)

No. cvs	Cultivar	Region*	West	East	Zoned year	Awnedness**	Spike color***	Graion color****	DVP	1000 grain weight	Vrn-A1	Vrn-B1a	Vrn-B1c	Vrn-B1null	Vrn-B1all	Variety	Status	References
85	Tulun 15	1	0	1	1998	0	0	1	82	33.5	1	0	1	0	c	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
86	Tulun 3A/32	0	1	0	1939	1	1	1	No data	30.5	1	1	0	0	a	<i>ferrugineum</i>	cv.	(Goncharov, 2012)
87	Tulun 14h68	1	0	1	1945	1	1	1	74.5	18	1	1	0	0	a	<i>ferrugineum</i>	cv.	(Moiseeva, Goncharov, 2007; Likhenko et al., 2014)
88	Tulunskaya 12	0.5	1	1	1989	0	0	1	74.5	37.5	1	1	0	0	a	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
89	Tyumenskaya 80	0	1	0	1985	0	0	1	76.5	42	1	0	0	1	null	<i>lutescens</i>	cv.	(Likhenko et al., 2014)
90	Udacha	0	1	0	2006	0	0	1	82.5	37	1	1	0	0	a	<i>lutescens</i>	cv.	(Likhenko et al., 2014; Lysenko et al., 2014)
91	Uralosibirskaya	0.5	1	1	2012	0	0	1	85.5	35.5	1	0	0	1	null	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
92	Fora	0	1	0	1996	0	0	1	74	37.5	0	0	1	0	c	<i>lutescens</i>	cv.	(Likhenko et al., 2014)
93	Czeziium 111	0	1	0	1929	1	1	1	76	26.5	1	0.5	0.5	0	a/c	<i>caesium</i>	cv.	(Moiseeva, Goncharov, 2007; Goncharov, 2012)
94	Chernyava 13	0	1	0	2000	0	0	1	76	39.5	1	0	0	1	null	<i>lutescens</i>	cv.	(Lysenko et al., 2014)
96	1528-E-18 (6237)	0	1	0	2021	0	0	1	75	35	1	1	0	0	a	<i>lutescens</i>	Line	This study
97	1529-E-18 (6249)	0	1	0	2021	0	0	1	76	40	1	0	1	0	c	<i>lutescens</i>	Line	This study
98	Baganochka	0	1	0	2019	0	0	0	79	33	1	1	0	0	a	<i>albidum</i>	TSS	This study
143	Barnaul'skaya 32 (Ozimka)	0	1	0	1948	0	0	1	No data	No data	0	1	0	0	a	<i>lutescens</i>	cv.	This study
146	Soanovskaya 4	0	1	0	2009	0	1	1	No data	No data	1b	1	0	1	a	<i>milturum</i>	Line	(Likhenko et al., 2014)
162	Khludovka (k-23559)	Siberia?	0	1	1923	1	1	1	No data	No data	1	0.5	0.5	0	a/c	<i>ferrugineum</i>	cv.	(Moiseeva, Goncharov, 2007)
150	Priobskaya	Perm	0	0	1984	1	0	1	82	33.5	1	1	1	0	a/c	<i>erythrosperrum</i>	cv.	(Fait, Stelmakh, 1993)
99	Tayozhnaya	Far East	0	0	1982	0	0	1	79	30.2	1	0.5	0.5	0	a/c	<i>milturum</i>	cv.	(Lysenko et al., 2014)

Note. DVP – duration of vegetation period.

* 0 – Western Siberia, 1 – Eastern Siberia; ** 0 – awnedless, 1 – awned; *** 0 – white, 1 – red; **** 0 – white, 1 – red.