

**Table S1.** Characteristics of 424 soybean accessions in conditions of Krasnodar and Primorye Territories of Russia.

#	VIR Catalog number	Accession name	Country of origin	Maturity group	Krasnodar Territory			Primorye Territory		
					Yield (g m <sup>-2</sup> )	Days to maturity	1000 seed weight (g)	Yield (g m <sup>-2</sup> )	Days to maturity	1000 seed weight (g)
1	5065	BAI-MEI	China	Middle	142.7	128.0	237.8	156.7	120	-
2	5127	FUSHOU	China	Late	234.0	139.7	163.8	183.3	117	-
3	5225	FU-SHOU	China	Late	293.5	144.9	205.3	165.0	119	-
4	5466	BAI-HUA-TCO-TCZY	China	Late	293.3	132.0	182.9	155.0	116	-
5	9177	LINIYA DA 103	Russia	Early	24.9	107.3	154.5	28.3	91	-
6	9332	OMSKAYA 4	Russia	Early	149.6	98.7	157.4	77.5	97	-
7	9515	LINIYA NOM.52 M	Russia	Early	158.1	97.3	149.5	81.7	90	-
8	9550	SIBLEY	USA	Middle	192.9	122.7	176.8	293.8	116	-
9	9551	LINIYA 72	Moldova	Middle	319.3	119.3	159.5	153.3	110	-
10	9552	LINIYA 99	Moldova	Middle	343.9	117.0	148.1	98.3	112	-
11	9553	LINIYA 101	Moldova	Early	225.3	101.7	132.5	91.7	98	-
12	9554	LINIYA 102	Moldova	Middle	264.2	118.0	147.7	175.0	114	-
13	9555	LINIYA 103	Moldova	Late	181.0	130.7	150.6	251.7	116	-
14	9556	LINIYA 104	Moldova	Middle	235.8	124.0	150.9	77.5	108	-
15	9557	LINIYA 105	Moldova	Middle	143.3	123.7	156.0	166.7	115	-
16	9558	LINIYA 106	Moldova	Late	262.2	131.0	150.5	133.3	121	-
17	9559	LINIYA 108	Moldova	Middle	253.8	119.7	136.0	163.3	110	-
18	9566	LINIYA 110	Moldova	Early	182.7	108.7	171.1	153.8	107	-
19	9567	LINIYA 111	Moldova	Middle	240.4	123.7	203.5	113.3	115	-
20	9578	K 001	Moldova	Middle	302.2	114.0	184.2	135.0	103	-
21	9579	K 002	Moldova	Middle	190.2	111.3	143.0	128.3	109	-
22	9580	ALTAIR	Ukraine	Middle	200.7	114.3	157.0	110.0	102	-
23	9581	DEMETRA	Ukraine	Middle	251.1	121.3	149.6	170.0	111	-
24	9582	YUZHANKA	Ukraine	Middle	324.0	125.4	171.3	250.0	115	-
25	9583	3S	Russia	Early	36.5	109.5	148.9	105.0	94	-
26	9584	HARKOVSKAYA SKOROSPELAYA	Ukraine	Early	158.6	97.7	144.2	80.0	92	-
27	9585	HARKOVSKAYA 66	Ukraine	Early	174.0	100.3	116.2	168.3	92	-
28	9594	LINIYA NOM.7	Russia	Early	164.4	96.0	163.2	71.7	94	-

29	9595	LINIYA 90131	Moldova	Early	143.6	101.0	132.1	156.7	102	-
30	9596	LINIYA 90132	Moldova	Early	127.5	103.0	176.3	136.7	105	-
31	9597	LINIYA 90133	Moldova	Middle	292.6	128.7	193.1	130.0	115	-
32	9598	LINIYA 90134	Moldova	Middle	211.7	115.0	117.3	121.7	109	-
33	9599	LINIYA 90135	Moldova	Middle	249.7	117.0	145.0	188.3	109	-
34	9600	LINIYA 90136	Moldova	Early	273.8	104.7	143.5	153.3	110	-
35	9601	LINIYA 90137	Moldova	Early	161.8	99.3	175.1	126.7	101	-
36	9602	LINIYA 90138	Moldova	Middle	321.9	125.3	148.3	290.0	114	-
37	9603	LINIYA 90139	Moldova	Early	-	105.3	147.9	141.7	110	-
38	9604	LINIYA 90140	Moldova	Early	178.1	107.7	170.2	150.0	100	-
39	9605	LINIYA 9084	Moldova	Middle	409.8	125.0	148.8	253.3	119	-
40	9608	YUG 30	Ukraine	Early	147.3	99.7	154.9	100.0	100	-
41	9614	BYSTRITCA 2	Russia	Early	219.2	108.3	134.0	175.0	114	-
42	9615	ALISA	Russia	Middle	185.0	116.0	106.6	235.0	121	-
43	9616	LADYA	Russia	Middle	221.6	121.0	143.2	187.5	121	-
44	9631	S-5	France	Early	159.8	103.0	207.0	86.3	95	-
45	9632	S-13	France	Early	185.0	104.1	198.8	148.8	99	-
46	9644	BICENTENNIAL	Canada	Middle	205.9	111.3	186.6	141.7	109	-
47	9647	HOYT	USA	Late	302.5	135.7	178.0	165.0	118	-
48	9648	MAPLE RIDGE	Canada	Early	182.8	98.8	165.3	76.7	99	-
49	9650	ASGROW 3127	USA	Late	267.1	142.3	159.4	175.0	122	-
50	9651	PIONEER 3981	USA	Late	438.8	143.7	191.9	253.3	117	-
51	9652	REGAL	USA	Late	331.1	143.9	195.0	260.0	120	-
52	9653	OS-87-2	Yugoslavia	Middle	234.9	117.0	170.6	309.0	109	-
53	9654	NS-87-1	Yugoslavia	Middle	198.4	120.3	134.4	221.0	110	-
54	9655	OS-87-3	Yugoslavia	Middle	266.5	118.0	164.8	161.0	109	-
55	9656	OS-87-4	Yugoslavia	Middle	244.5	122.7	151.7	220.0	116	-
56	9661	HARKOVSKAYA ZERNOUKOSNAYA	Ukraine	Early	206.5	105.0	142.9	155.0	98	-
57	9662	VIKTORIYA	Ukraine	Early	189.1	106.0	123.7	183.3	98	-
58	9734	INGULA	Ukraine	Early	175.3	102.7	131.8	103.3	110	-
59	9735	VYS	Ukraine	Early	201.6	107.5	150.2	126.3	110	-
60	9736	IZUMRUDNAYA	Ukraine	Early	218.4	105.7	132.7	217.5	117	-
61	9737	PETROVKA	Ukraine	Middle	182.4	112.3	132.3	142.5	115	-

62	9738	KORSAKOVKA	Ukraine	Middle	214.3	118.0	120.3	187.5	114	-
63	9739	DRUZHBA-90	Ukraine	Middle	198.1	119.3	130.7	172.5	115	-
64	9740	LINIYA 62	Moldova	Early	172.8	101.7	124.1	83.3	109	-
65	9741	LINIYA 63	Moldova	Middle	205.0	124.3	128.5	203.8	120	-
66	9742	LINIYA 64	Moldova	Early	120.6	101.3	145.2	151.7	108	-
67	9743	LINIYA 70	Moldova	Middle	204.5	128.7	153.5	151.3	120	-
68	9744	no name	Moldova	Early	104.7	99.7	180.8	73.3	105	-
69	9745	LINIYA 76	Moldova	Middle	175.5	126.3	151.8	178.8	121	-
70	9746	LINIYA 77	Moldova	Late	222.7	138.0	151.3	172.5	123	-
71	9747	LINIYA 78	Moldova	Middle	202.1	128.0	154.7	205.0	122	-
72	9748	LINIYA 79	Moldova	Late	228.2	130.7	157.5	197.5	122	-
73	9749	LINIYA 80	Moldova	Middle	147.6	115.0	144.3	180.0	116	-
74	9750	no name	Moldova	Middle	244.2	115.7	140.9	157.5	117	-
75	9751	VAZ 100	Russia	Middle	120.9	111.7	121.7	132.5	110	-
76	9752	DOZA K	Russia	Early	129.3	106.3	112.7	172.5	117	-
77	9753	KOBRA	Russia	Early	130.8	106.3	202.2	157.5	114	-
78	9754	LOKUS	Russia	Early	182.1	107.7	128.1	180.0	114	-
79	9755	M 1	Russia	Early	159.2	105.3	156.8	115.0	110	-
80	9756	MARIYA	Russia	Early	184.4	103.7	165.7	110.0	111	-
81	9758	NINA	Russia	Early	245.9	109.0	166.3	200.0	114	-
82	9759	K 004	Moldova	Early	160.1	105.7	155.5	115.0	112	-
83	9760	K 003	Moldova	Early	196.0	106.3	137.6	82.5	112	-
84	9761	LINIYA 136/87	Moldova	Early	159.8	109.3	143.5	150.0	112	-
85	9762	LINIYA 106/87	Moldova	Early	174.0	108.0	153.8	125.0	112	-
86	9763	LINIYA 227/87	Moldova	Early	174.9	109.0	144.0	115.0	112	-
87	9764	LINIYA 32/87	Moldova	Middle	191.7	115.0	140.5	130.0	112	-
88	9765	LINIYA 404/87	Moldova	Early	185.0	103.0	133.7	102.5	112	-
89	9766	LINIYA 76/91	Moldova	Early	181.3	102.7	120.1	100.0	112	-
90	9767	LINIYA 62/91	Moldova	Early	139.5	105.3	122.5	50.0	112	-
91	9768	LINIYA 891/91	Moldova	Middle	179.2	116.7	119.4	165.0	120	-
92	9769	LINIYA 884/91	Moldova	Middle	149.4	121.3	126.3	167.5	119	-
93	9770	LINIYA 877/91	Moldova	Early	188.2	109.3	119.8	77.5	112	-
94	9771	LINIYA 885/91	Moldova	Middle	172.6	115.3	123.2	142.5	116	-
95	9772	LINIYA 892/91	Moldova	Middle	125.6	113.0	123.1	70.0	112	-

96	9773	LINIYA K 36/91	Moldova	Middle	180.1	122.3	158.7	122.5	118	-
97	9774	OKTYABR 70	Russia	Early	169.4	107.0	171.1	116.7	107	-
98	9775	HU-76-6094	China	Early	345.7	105.0	180.6	129.0	109	-
99	9776	L 230	Russia	Late	306.2	138.3	151.0	108.0	120	-
100	9778	GLENWOOD	USA	Middle	266.1	129.0	152.1	211.7	108	-
101	9783	IASI 10	Japan	Middle	296.1	124.0	166.5	188.3	116	-
102	9784	614/83	unknown	Middle	153.4	112.0	156.1	155.0	112	-
103	9785	FORD	USA	Early	200.7	103.3	170.1	81.7	98	-
104	9786	VAR.BRUNNEA	unknown	Middle	295.5	119.5	157.9	81.7	101	-
105	9790	MAPLE ISLE	Canada	Early	204.5	103.0	176.0	228.3	116	-
106	9791	OAC ARIES	Canada	Middle	279.3	124.0	157.6	128.3	108	-
107	9792	OAC LIBRA	Canada	Middle	215.0	112.2	164.5	145.0	109	-
108	9793	OAC PISCES	Canada	Middle	242.4	122.3	160.9	238.3	112	-
109	9794	OAC SCORPIO	Canada	Middle	270.6	121.0	185.3	128.3	107	-
110	9799	VERDON	France	Middle	469.5	124.7	160.6	166.7	118	-
111	9801	LN 83-2356	USA	Late	334.7	151.0	184.3	230.0	121	-
112	9805	LUTEO	Poland	Early	-	107.3	185.3	163.3	100	-
113	9807	GIRIN 20	China	Late	359.0	134.7	189.2	313.3	118	-
114	9808	SUI NUN 4	China	Middle	280.4	123.3	176.7	228.3	114	-
115	9809	no name	China	Middle	131.7	124.0	161.1	128.3	114	-
116	9811	JIU NONG 3 HAO	China	Middle	228.5	128.3	168.6	150.0	122	-
117	9812	JIU NONG 4 HAO	China	Late	216.9	142.0	171.8	207.5	121	-
118	9814	JIU NONG 6 HAO	China	Middle	127.3	123.3	150.0	172.5	121	-
119	9815	CHANDOR	France	Middle	395.6	122.7	194.9	238.3	104	-
120	9822	VILIYA	Belarus	Early	227.9	99.3	159.0	171.7	99	-
121	9826	UBORT	Belarus	Early	181.0	100.3	128.2	203.3	98	-
122	9827	STVIGA	Belarus	Early	220.4	100.0	131.2	178.3	98	-
123	9828	GORYN	Belarus	Early	217.2	100.3	133.7	168.3	98	-
124	9829	KOMAROVSKAYA 1	Belarus	Early	58.9	96.7	194.1	73.3	92	-
125	9830	DG 1	Belarus	Early	79.8	97.0	206.0	83.3	89	-
126	9831	DG 2	Belarus	Early	83.8	97.0	205.1	81.7	89	-
127	9832	DG 4	Belarus	Early	79.2	97.0	203.3	76.7	89	-
128	9833	DG 5	Belarus	Early	43.2	109.7	148.4	123.3	99	-
129	9837	SITO	Germany	Early	309.4	100.3	173.3	100.0	94	-

130	9844	KIEVSKAYA 451	Ukraine	Early	94.3	98.0	150.1	86.0	107	-
131	9848	ARMAVIRSKAYA 13	Russia	Late	220.7	131.0	192.3	123.3	116	-
132	9849	ARMAVIRSKAYA 15	Russia	Late	381.9	137.3	220.3	221.7	115	-
133	9850	ZEIKA	Russia	Early	151.1	99.7	175.9	130.0	109	-
134	9852	NOM.730	Ukraine	Early	161.8	102.7	160.8	92.5	105	-
135	9895	DIAMOND	Romania	Middle	355.0	113.0	161.3	233.3	101	-
136	9896	HYK GE 122	North Korea	Middle	252.9	111.0	174.5	143.3	115	-
137	9897	HYK HA 51	North Korea	Early	195.5	108.3	165.0	155.0	105	-
138	9898	SYULKEBARAT	North Korea	Middle	236.4	113.0	137.3	218.3	105	-
139	9899	BREKHAK	North Korea	Middle	261.0	111.7	129.1	200.0	112	-
140	9900	ZOCHERHEVCHEN	North Korea	Middle	277.2	115.7	182.6	205.0	118	-
141	9901	HOAN 1	North Korea	Middle	181.8	111.3	166.8	235.0	118	-
142	9902	MAKSMIS	China	Middle	338.1	115.3	154.9	226.7	110	-
143	9903	HAMBUK 1	North Korea	Late	197.8	138.7	189.5	211.7	117	-
144	9904	FRIMFUKAI	China	Early	266.5	106.0	147.0	163.3	101	-
145	9909	ZA HVA 4	North Korea	Middle	246.2	129.0	190.5	131.7	118	-
146	9917	MAPLE DONOVAN	Canada	Middle	252.6	117.1	158.4	156.7	117	-
147	9919	MAPLE GLEN	Canada	Middle	200.8	112.5	183.0	190.0	103	-
148	9920	NUNGAMDEGYMHVAN	North Korea	Middle	216.8	115.0	208.5	109.2	122	-
149	9921	MESTNAYA 2	China	Late	401.8	148.4	172.4	197.5	-	-
150	9922	MAJOR	France	Early	145.0	98.3	150.8	120.0	107	-
151	9924	NS-L 16	Yugoslavia	Middle	221.0	117.0	111.2	215.0	121	-
152	9925	NS-L 60	Yugoslavia	Middle	185.9	116.3	140.7	197.5	121	-
153	9926	NS-L 86	Yugoslavia	Middle	240.4	115.7	145.7	272.5	121	-
154	9927	NS-L 1009	Yugoslavia	Middle	255.2	117.3	144.3	212.5	121	-
155	9928	NS-L 1021	Yugoslavia	Middle	271.2	115.7	129.8	197.5	121	-
156	9929	NS-L 2017	Yugoslavia	Middle	251.1	118.3	134.7	242.5	121	-
157	9930	NS-L 2021	Yugoslavia	Middle	312.9	123.7	146.9	210.0	123	-
158	9931	NS-L 2022	Yugoslavia	Middle	348.0	115.3	130.4	280.0	123	-
159	9932	NS-L 2023	Yugoslavia	Middle	298.7	112.0	134.4	227.5	121	-
160	9936	NS-16	Yugoslavia	Middle	192.3	117.0	130.7	180.0	121	-
161	9937	HARPER 87	USA	Late	273.9	135.4	169.3	155.0	111	-
162	9938	NEWTON	USA	Late	238.9	134.1	150.8	232.5	123	-
163	9939	KENWOOD	USA	Late	308.7	134.9	136.8	155.0	123	-

164	9940	JACK	USA	Late	255.5	139.7	143.0	155.0	122	-
165	9941	A 20	USA	Late	306.7	134.1	159.8	200.0	122	-
166	9943	STURDY	USA	Late	269.4	134.3	174.0	232.5	122	-
167	9944	MINNATTO	USA	Middle	161.8	118.7	96.3	82.5	116	-
168	9947	KATO	USA	Middle	224.8	129.3	187.2	175.0	116	-
169	9950	ZAKAT	Russia	Middle	58.0	112.0	157.3	88.3	99	-
170	9974	CM-048	Hungary	Middle	210.5	116.0	133.4	152.5	115	-
171	9975	S-1550	USA	Middle	187.6	123.3	133.3	175.0	117	-
172	9976	S-2312	Hungary	Late	270.4	135.6	198.4	202.0	118	-
173	9977	S-2710	Hungary	Late	275.5	133.3	140.5	250.0	122	-
174	9978	BS-31	Hungary	Middle	167.9	120.0	182.4	92.5	115	-
175	9979	B-070	Hungary	Middle	-	111.3	137.1	118.3	112	142
176	9981	YASEL'DA	Belarus	Early	145.9	99.7	158.0	127.5	102	-
177	9982	RESTA	Belarus	Early	141.4	106.0	178.1	141.7	112	-
178	9983	SHCHARA	Belarus	Early	132.5	105.3	174.5	100.0	102	-
179	9984	OL'SA	Belarus	Early	188.5	99.0	181.0	85.0	102	-
180	9985	AL'BUT	Belarus	Early	183.0	105.3	189.2	142.5	102	-
181	9986	STVIGA 1	Belarus	Early	153.4	103.7	192.5	132.5	102	-
182	9987	ISKRA X NORMAN	Belarus	Early	223.6	108.3	168.8	105.5	102	-
183	9988	491 X NORMAN	Belarus	Early	271.4	104.7	163.6	97.5	103	-
184	10006	NS-20	Hungary	Early	211.1	104.0	134.3	70.0	106	143
185	10007	NS-9	Hungary	Middle	198.1	120.0	144.6	128.3	115	178
186	10008	NS-10	Hungary	Middle	231.1	118.0	157.3	230.0	116	-
187	10009	STAROBEL'CHANKA	Ukraine	Early	163.0	105.3	138.0	147.5	116	-
188	10013	GIESSENER 456/67	Poland	Early	167.3	104.3	167.9	81.0	95	-
189	10016	POLAN	Poland	Early	140.9	96.3	180.6	55.0	93	-
190	10019	BS-56	Hungary	Middle	202.4	120.3	151.5	175.0	118	-
191	10020	CM-137	Hungary	Middle	221.0	124.3	137.9	125.0	117	157
192	10021	ISZ-16	Hungary	Early	205.0	100.3	132.7	67.5	102	-
193	10022	NS-6	Hungary	Middle	209.4	116.7	147.6	200.0	113	-
194	10031	HEY-NUN	China	Middle	173.7	126.7	166.3	157.5	120	-
195	10033	ALPES 2	Mexico	Late	299.9	149.7	168.1	102.5	-	-
196	10034	no name	Vietnam	Middle	157.5	127.7	169.2	142.5	113	-
197	10035	no name	Vietnam	Middle	249.4	125.3	147.9	152.5	119	-

198	10037	BURLISON	USA	Late	205.1	148.1	157.7	45.0	-	-
199	10040	TCERERA	Ukraine	Middle	264.5	119.3	161.2	157.5	115	-
200	10041	CHARYVNYTCYA STEPUP	Ukraine	Middle	261.9	117.0	174.2	245.0	112	-
201	10042	CHERNOBURAYA	Ukraine	Early	163.3	107.0	144.1	87.5	107	-
202	10067	PHENNAM SKOROSPELIY	North Korea	Late	124.4	159.5	213.5	107.5	-	-
203	10084	KATAI 3127	Italy	Late	326.0	156.7	159.7	265.0	124	-
204	10085	SAKAI	Italy	Middle	274.9	125.3	166.3	216.7	112	-
205	10086	CONTON	Italy	Middle	328.9	128.0	170.2	248.3	114	-
206	10087	CONTONDER	Italy	Late	337.9	142.7	191.3	265.0	119	-
207	10088	CRUSADER	Italy	Middle	434.7	126.3	173.1	250.0	112	-
208	10091	ROMEA	Italy	Late	386.9	136.3	188.0	256.7	115	-
209	10104	HAROSON	Canada	Middle	267.8	125.3	170.1	230.0	111	-
210	10106	MESTNYI	China	Early	130.2	109.3	158.9	127.5	110	-
211	10107	OAC MUSCA	Canada	Middle	223.0	120.5	160.1	187.5	115	-
212	10109	OAC DORADO	Canada	Middle	212.4	124.5	159.9	150.0	122	-
213	10111	CZECHNICKA PASTEWNA	Poland	Middle	243.3	115.0	193.5	153.3	101	-
214	10113	MIKAVASIMA	Japan	Middle	172.7	129.6	-	140.0	118	-
215	10114	no name	Singapore	Late	250.9	132.3	143.8	191.7	119	156
216	10115	CX 298	USA	Late	266.8	149.0	161.5	187.0	125	164
217	10116	CX 345	USA	Late	286.4	149.8	139.5	178.0	126	159
218	10117	CX 366	USA	Late	261.4	152.1	156.9	186.0	125	153
219	10118	S 36-36	USA	Late	260.1	154.0	171.2	167.0	127	153
220	10119	CHI SHA	China	Middle	158.3	121.3	135.8	53.3	118	125
221	10120	HO 76-6045	China	Middle	190.8	120.0	215.3	126.7	122	235
222	10121	FU PE TOU	China	Late	211.0	154.7	120.7	75.0	-	123
223	10124	SAEYUP N 1	South Korea	Late	160.7	149.0	185.0	160.0	126	220
224	10125	SEUHAE N 20	South Korea	Late	130.8	135.7	124.5	186.7	126	156
225	10126	VARSOVIE	Poland	Early	134.3	100.0	196.4	141.7	107	-
226	10127	CZARNA SWHN	Poland	Late	223.9	143.7	193.7	190.0	115	-
227	10128	F 40 R/W	France	Early	182.4	99.3	187.2	100.0	109	132
228	10129	F 35 R/KW	France	Early	140.7	100.7	195.7	41.7	101	149
229	10130	F 40 R/KW	France	Early	124.1	99.7	189.7	60.0	101	81
230	10131	F 50 R/KW	France	Early	121.2	99.7	178.9	75.0	110	168
231	10132	RONA	France	Early	245.1	107.0	193.2	138.3	102	-

232	10133	CING 6268	France	Middle	109.0	117.7	183.8	171.7	102	-
233	10134	STEWART 2302	USA	Middle	204.5	112.0	183.7	198.3	107	-
234	10135	STEWART 741	USA	Middle	265.9	114.7	170.0	151.7	109	-
235	10136	F 70565	France	Middle	254.0	116.7	141.7	168.3	112	-
236	10137	I 1	France	Middle	228.5	113.0	166.5	161.7	112	-
237	10138	I 5	France	Early	147.3	103.3	186.6	131.7	104	-
238	10139	CAROLA	France	Early	269.7	105.0	167.2	161.7	104	-
239	10140	NANKING	France	Early	156.9	107.0	191.1	130.0	102	-
240	10141	SUBOTICA	Serbia	Middle	206.8	120.3	183.9	185.0	108	-
241	10142	PERAGIS STAMM 11	Germany	Early	123.3	99.0	185.1	101.7	97	-
242	10143	PICKETT	USA	Early	140.7	104.7	159.8	136.7	99	-
243	10144	DAKOTA	France	Middle	158.6	112.3	171.5	181.7	101	-
244	10146	PETIT JANNE DE HONGRIE	France	Middle	176.3	112.3	139.1	113.3	105	-
245	10147	ONZE NOVEMBRE	France	Middle	158.3	111.7	191.0	160.0	105	-
246	10148	I 3	France	Middle	196.3	115.3	157.5	190.0	107	-
247	10149	76260	France	Middle	191.7	120.7	184.0	208.3	108	-
248	10150	76268	France	Middle	178.6	120.7	185.2	180.0	109	-
249	10151	76292	France	Late	232.0	130.7	142.5	185.0	111	-
250	10152	HY-21	France	Middle	186.2	117.3	166.4	123.3	110	-
251	10154	OX 305	France	Late	211.7	137.3	119.1	208.3	114	-
252	10155	HW 741	France	Late	272.6	145.7	193.7	220.0	121	-
253	10156	02611	France	Middle	239.0	129.3	201.3	270.0	110	-
254	10157	NS KASNA	France	Late	239.3	142.7	158.7	218.3	114	-
255	10158	ODS 33	France	Middle	319.9	129.7	228.4	248.3	106	-
256	10159	SPLENDOR	France	Late	397.3	141.7	194.7	266.7	119	-
257	10160	MPG 1652	France	Late	267.1	141.7	199.6	183.3	119	-
258	10161	I HIGO-WASE	Japan	Middle	174.0	122.4	122.3	108.3	105	-
259	10162	GOYOU KURAKAKE	Japan	Late	254.1	149.5	212.7	188.3	124	-
260	10164	B-236	USA	Late	317.6	145.3	202.8	263.3	120	-
261	10166	PI 452432	China	Middle	198.1	115.3	209.7	190.0	108	-
262	10171	PI 458123 A	South Korea	Late	232.0	161.3	206.6	223.3	-	-
263	10174	577-9	South Korea	Late	204.9	156.1	198.7	161.7	-	-
264	10178	KAI YU N 3	China	Late	303.3	156.7	215.3	205.0	120	-
265	10179	Qi Huang 10	China	Late	244.2	159.3	171.6	173.3	-	-



266	10180	PI 458519 A	China	Late	214.6	158.3	120.5	96.7	122	-
267	10181	PI 458519 B	China	Late	293.8	157.0	134.4	148.3	122	-
268	10182	PI 458520	China	Late	172.8	159.3	204.4	80.0	122	-
269	10183	PI 458521	China	Late	237.2	161.0	120.0	110.0	-	-
270	10184	PI 458522	China	Late	200.4	161.0	125.9	153.3	121	-
271	10185	BUMPER HARVEST N 2	China	Late	249.7	133.3	227.3	205.0	117	-
272	10187	NUEN FENG N 7	China	Middle	200.4	123.3	183.2	148.3	115	-
273	10189	GONGJIAO 7128-1	China	Middle	198.4	124.0	178.7	178.3	115	-
274	10191	JILING N 14	China	Late	230.8	138.7	206.7	160.0	114	-
275	10193	TIE LING BAIMEI	China	Late	238.7	147.3	210.4	190.0	120	-
276	10195	BAI MOSHI DOU	China	Late	186.3	146.1	112.4	123.3	121	-
277	10197	DAHUANG DOU	China	Late	367.1	148.3	213.3	173.3	120	-
278	10198	DALIHEI	China	Late	202.4	163.3	232.5	135.0	-	-
279	10199	JIM NONG N 9	China	Late	-	154.7	202.2	200.0	121	-
280	10201	ZI HUA (GONG DI N 1)	China	Late	276.5	155.7	189.7	211.7	121	-
281	10205	JOU NONG N 9	China	Late	247.4	154.0	211.2	178.3	121	-
282	10206	TIE FENG 3	China	Late	281.9	153.0	166.7	195.0	119	-
283	10207	TIE FENG 17	China	Late	339.3	153.3	200.9	183.3	122	-
284	10208	TIE FENG 18	China	Late	354.7	159.0	206.9	201.7	127	-
285	10209	BAI HO SHI DOU (GONG 1)	China	Late	147.0	163.7	113.4	121.7	-	-
286	10210	BEIJING HEI DOU	China	Late	189.1	152.7	103.7	136.7	112	-
287	10211	DAN DOU 3	China	Late	462.0	165.8	212.4	260.0	127	-
288	10212	HEI MOSHI DOU (GONG 2)	China	Late	256.4	158.7	121.3	86.7	116	-
289	10213	JITI 2	China	Late	401.7	148.0	183.5	201.7	-	-
290	10214	KAI YUAN BAI MEI	China	Late	333.5	156.0	211.8	213.3	-	-
291	10215	TIE FEN 9	China	Late	307.1	147.3	182.8	168.3	-	-
292	10216	TIE FEN 16	China	Late	303.9	147.0	215.5	228.3	120	-
293	10217	WEN FENG N 1538	China	Late	319.0	163.3	197.6	183.3	-	-
294	10218	WEN FENG N 1893	China	Late	292.9	164.0	208.5	171.7	-	-
295	10219	WU JUI HUO	China	Late	155.0	157.8	169.8	125.0	124	-
296	10220	BAI-HUA-KUAN	China	Late	210.5	134.2	179.1	195.0	116	-
297	10221	BAI-NONG N 1	China	Middle	245.4	126.1	200.2	165.0	117	-
298	10222	BAI-NONG N 1	China	Middle	287.4	127.3	205.0	186.7	117	-
299	10223	DA-HEI-GI	China	Middle	157.8	125.7	189.5	158.3	109	-

300	10224	DA-HUANG-GI	China	Late	257.8	141.0	196.9	191.7	115	-
301	10225	DA-JIN-HUONG	China	Late	298.7	149.7	205.1	185.0	124	-
302	10226	DE-DOU N 1	China	Late	200.4	143.3	210.7	168.3	119	-
303	10227	JILIN N 17	China	Late	251.4	135.3	173.1	180.0	115	-
304	10228	JILIN N 19	China	Late	348.0	142.0	190.4	176.7	115	-
305	10229	JIU-NONG N 13	China	Middle	314.9	120.3	175.4	135.0	112	-
306	10230	JIU-NONG N 13	China	Late	379.9	142.7	186.0	168.3	118	-
307	10231	LIANG-LI-GING	China	Late	246.5	157.7	191.6	150.0	-	-
308	10233	QIN-DOU 84	China	Late	233.7	162.7	229.3	195.0	124	-
309	10234	QING MO SHI DOU	China	Late	261.9	157.0	133.3	118.3	120	-
310	10235	SHUI-LI-HONG	China	Late	250.6	154.3	205.3	208.3	120	-
311	10236	SI-LI-QING	China	Late	259.3	159.0	235.3	155.0	124	-
312	10237	TIE-JIA-DOU	China	Late	238.4	154.2	203.2	231.7	120	-
313	10238	TONG-NONG N 4	China	Late	205.6	146.0	177.8	171.7	118	-
314	10239	TONG-NONG N 5	China	Late	405.4	150.0	187.0	206.7	120	-
315	10240	TONG-NONG N 7	China	Late	268.3	147.3	169.5	201.7	120	-
316	10241	XIAO-BAI-MEI	China	Late	283.9	144.3	165.5	255.0	118	-
317	10242	XIAO-BAI-GI	China	Late	201.3	150.3	174.5	178.3	119	-
318	10243	XIAO-NEI-GI	China	Late	297.0	151.0	148.8	191.7	119	-
319	10244	YAN-NONG N 2	China	Late	280.1	137.7	204.9	211.7	119	-
320	10245	YAN-NONG N 72	China	Late	237.2	133.7	202.6	173.3	115	-
321	10247	ZI-HUA-CUO-ZI	China	Late	365.4	141.3	178.8	163.3	119	-
322	10248	HOUG-KONG 2	China	Early	180.1	107.7	215.4	178.3	107	-
323	10249	HOUG KONG 3	China	Early	140.1	106.0	210.2	171.7	107	-
324	10250	23	China	Middle	191.4	128.3	201.3	191.7	112	-
325	10251	TAKIIS AKITA EARLY	China	Middle	193.4	129.3	233.2	181.7	118	-
326	10252	QI HUANG 1	China	Late	313.8	164.7	153.3	198.3	-	-
327	10253	QI HUANG 1	China	Late	251.7	160.7	206.9	175.0	-	-
328	10254	no name	China	Late	220.1	147.7	109.2	233.3	112	-
329	10256	no name	China	Late	242.7	147.7	112.7	198.3	114	-
330	10257	no name	China	Middle	286.8	121.0	148.6	108.3	107	-
331	10258	no name	China	Middle	262.5	115.0	180.2	65.0	98	-
332	10259	no name	China	Middle	272.3	123.0	116.4	148.3	112	-
333	10260	KEI-YU 8	China	Late	334.4	164.0	221.3	243.3	116	-

334	10261	SHEN NONG 252	China	Late	432.1	161.0	179.4	236.7	-	-
335	10262	SHEN NONG 906	China	Late	415.3	166.0	217.1	230.0	124	-
336	10263	SHEN NONG 7224	China	Late	413.5	160.0	187.2	175.0	127	-
337	10264	SHEN NONG 75-15	China	Late	-	154.0	228.4	185.0	127	-
338	10265	no name	China	Late	238.4	157.2	183.2	200.0	122	-
339	10266	FUNSHU 11	China	Middle	227.9	115.3	218.2	108.3	108	-
340	10267	NE 4	China	Late	295.8	140.3	187.0	181.7	111	-
341	10268	TSING 2	China	Late	310.9	161.7	148.9	123.3	127	-
342	10269	TSING 2	China	Late	265.1	161.3	169.2	175.0	-	-
343	10270	TSING 202	China	Late	221.6	161.3	187.6	175.0	116	-
344	10271	TSING 371	China	Late	250.3	155.0	201.7	155.0	-	-
345	10272	no name	China	Late	221.4	157.0	123.4	103.3	117	-
346	10273	no name	China	Late	186.3	147.7	105.8	93.3	117	-
347	10274	no name	China	Late	217.8	166.3	132.3	86.7	120	-
348	10276	no name	China	Late	338.0	163.8	162.4	121.7	124	-
349	10277	no name	China	Late	265.1	147.3	109.3	121.7	117	-
350	10278	no name	China	Late	212.9	137.3	121.3	155.0	117	-
351	10279	no name	China	Late	280.1	150.0	112.0	136.7	117	-
352	10280	no name	China	Late	316.4	142.3	108.8	168.3	116	-
353	10281	no name	China	Middle	112.8	124.3	128.4	125.0	104	-
354	10282	no name	China	Late	194.9	138.7	181.4	145.0	118	-
355	10283	no name	China	Late	196.0	158.3	138.5	168.3	124	-
356	10284	no name	China	Late	260.7	145.3	111.7	143.3	119	-
357	10285	no name	China	Late	208.4	145.0	108.2	156.7	119	-
358	10287	no name	China	Late	254.9	147.3	107.5	158.3	117	-
359	10288	JINYAN N 1	China	Late	160.4	130.7	187.3	195.0	112	-
360	10290	ZAO SHUGI HAO N 1	China	Late	198.4	133.3	241.2	243.3	114	-
361	10291	THANG CHAP	China	Late	191.1	144.0	126.5	163.8	118	-
362	10292	FENGSHOU N 1	China	Late	163.0	131.7	227.6	173.3	115	-
363	10293	HEFENG N 4	China	Middle	160.4	130.3	217.6	198.3	114	-
364	10294	ANFUHEIDO	China	Late	268.0	136.7	122.3	231.7	118	-
365	10295	ANTUXIAOHEIDOU	China	Late	370.3	141.3	154.9	246.7	117	-
366	10297	BEILIANG 11	China	Middle	196.3	113.7	212.8	163.3	109	-
367	10300	CAIZHONGPU	China	Late	230.8	150.7	162.1	221.7	120	-

368	10302	DAHUANGDOU	China	Late	304.5	159.7	221.4	218.3	122	-
369	10303	HELONGDADOU	China	Late	327.4	155.3	211.5	190.0	122	-
370	10304	HUAIXUAN	China	Late	224.5	155.7	185.8	191.7	122	-
371	10305	HUINANNIMAOHUANG	China	Late	238.7	144.7	169.9	263.3	122	-
372	10307	HUITIEJIA	China	Late	257.8	143.0	169.4	220.0	116	-
373	10308	HUITIEJIA	China	Late	263.9	140.7	197.3	180.0	114	-
374	10309	TINYAN N 30	China	Late	360.5	151.7	200.4	188.3	116	-
375	10310	LIUHEDAHEIDON	China	Late	195.0	138.3	157.7	240.0	116	-
376	10311	NIUSHIDOU	China	Late	245.1	162.7	190.2	193.3	120	-
377	10312	SILIHUANG	China	Late	176.6	166.0	141.5	228.3	121	-
378	10313	SULANDULUDOU	China	Late	196.0	141.0	197.0	208.3	115	-
379	10314	SUOYILING	China	Late	212.6	143.0	153.6	203.3	120	-
380	10315	WANGGINGINGDON	China	Late	235.2	147.0	-	193.3	120	-
381	10316	XIAOHUANGKE	China	Late	288.8	156.7	199.5	220.0	122	-
382	10317	XIAOYANDOU	China	Late	268.3	159.7	224.5	185.0	120	-
383	10318	ZHONGSHENG N 11	China	Late	343.7	159.7	173.9	198.3	120	-
384	10319	ZHUYANDOU	China	Late	455.6	145.0	217.8	163.3	119	-
385	10320	MAFENG 5	China	Late	225.0	134.3	179.0	166.7	112	-
386	10321	MUFU 80-3125	China	Late	248.2	132.7	158.0	183.3	116	-
387	10322	MUFU 81-4420	China	Middle	284.2	124.7	218.0	226.7	116	-
388	10323	HEINONG 4	China	Late	185.9	153.7	226.1	158.3	116	-
389	10324	HWANGKEUNKONG	South Korea	Late	227.7	147.0	186.2	155.0	-	-
390	10357	T 304 H	USA	Late	168.2	134.3	145.0	165.0	111	-
391	10360	T-307	USA	Middle	153.7	121.0	156.3	183.3	106	-
392	10369	T 318	USA	Late	200.1	136.0	153.7	213.3	118	-
393	10403	NATTOSAN	Canada	Early	84.1	100.0	93.0	136.7	103	-
394	10525	APACHE	Slovakia	Middle	125.0	113.0	180.2	183.3	102	-
395	10530	C 7/ 58	Germany	Early	147.9	102.0	177.7	130.0	112	-
396	10532	300-7(88)	Belarus	Early	81.2	102.0	165.0	125.0	111	-
397	10533	331-8(88)	Belarus	Early	107.3	107.3	152.3	161.7	113	-
398	10568	HEINONG 27	China	Early	169.7	107.5	192.5	150.0	112	-
399	10572	ZLOTKA	France	Middle	185.3	119.7	139.3	195.0	108	-
400	10573	C-833	France	Middle	208.8	120.0	151.3	118.3	109	-
401	10575	OX - 619	France	Middle	100.1	112.3	168.6	145.0	106	-

402	10576	574-13	South Korea	Late	192.6	155.0	215.7	148.3	-	-
403	10577	578-4	South Korea	Late	272.3	154.0	225.9	173.3	-	-
404	10579	AIDADOU	China	Middle	195.8	126.3	221.3	193.3	109	-
405	10580	DONG FENG DULUDOU	China	Late	195.8	166.3	213.4	171.7	-	-
406	10581	no name	China	Late	235.5	166.3	164.5	121.7	124	-
407	10583	BODUL'IPKON	North Korea	Late	198.4	149.3	199.6	51.7	-	-
408	10631	EVANS X AMURSKAYA 462	Russia	Early	136.3	100.2	199.3	80.0	100	-
409	10632	P.I.458189 B	South Korea	Late	161.5	150.3	230.8	138.3	-	-
410	10671	KAS 233-5	South Korea	Late	291.5	159.7	196.1	165.0	125	162
411	10673	HEIPIQING YIANG	China	Late	154.0	143.0	162.0	163.3	111	-
412	10675	DOM	France	Middle	241.0	118.3	178.3	171.3	110	163
413	10680	VOSHOD* 1191/79	Russia	Early	123.7	101.0	195.7	122.5	102	-
414	10697	TAKIYA 560	Japan	Late	78.3	161.3	132.7	73.3	130	138
415	10702	OT 91-3	Canada	Middle	148.2	123.0	127.7	164.3	115	146
416	10703	ACHIEVER	Canada	Middle	219.8	122.3	202.3	193.8	107	181
417	10709	Liao Nong N2	China	Late	325.4	157.0	196.7	178.3	123	147
418	10917	233-15	South Korea	Late	151.1	166.3	226.4	82.5	-	-
419	10918	JIAOHETIANEDAN	China	Late	224.8	140.0	-	137.5	122	-
420	10919	T 293	USA	Middle	81.2	111.0	155.7	143.8	101	177
421	10920	T 311	USA	Late	159.5	136.7	124.7	124.2	124	117
422	10921	ICHOU	Japan	Late	89.9	161.3	165.3	55.0	-	131
423	10923	N/M 4888	Poland	Early	134.9	101.3	198.0	114.0	102	203
424	10924	EXTRA EARLY OWSLOW	Australia	Early	107.9	96.0	161.0	136.9	106	144