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AM Phenotypic data of final grain weight (GW), grain growth rate, duration of grain filling, maximum water content, grain desiccation rate, moisture concentration at physiological maturity (PM), thermal time (TT) to anthesis, plant height, panicle length and grain number per plant for each genotype studied during 2008 and 2009 growing seasons.

Year	Genotype	Final GW (mg grain^{-1})	Grain growth rate (mg ^{o}Cd^{-1} 10^{-2})	Duration of grain filling (^{o}Cd)	Maximum water content (mg grain^{-1})	Grain desiccation rate (g kg^{-1} ^{o}Cd^{-1} 10^{-9})	Moisture concentration at PM (g kg^{-1})	TT to anthesis (^{o}Cd)	Plant height (cm)	Panicle length (cm)	Grain number plant^{-1}	Yield plant^{-1} (g)
2008	PL63	16.1	4.96	454	11.3	4.8	376	1009	153	41	734	20.0
	PL62	17.0	5.91	413	10.5	6.1	353	974	170	45	1267	22.8
	PL34	19.5	5.54	435	14.9	5.2	350	1000	96	22	1716	36.3
	PL42	22.5	3.58	679	13.3	4.3	295	1029	105	26[B]	2652[B]	57.0
	PL41	22.6	3.29	720	13.8	3.0	300	1064	103	22	1870	38.0
	PL31	22.7	4.43	574	15.3	3.8	386	924	96	27	1481	26.2
	PL40	23.2	3.93	654	16.5	3.1	335	1045	91	23	2343	44.5
	PL46	23.4	5.81	500	17.3	5.0	311	912	138	26	1722	37.3
	PL53	23.9	4.42	608	13.5	4.9	300	1022	161	19	1848	46.8
	PL67	24.3	4.87	579	14.0	5.5	246	974	105	28	-	-
	PL33	24.8	3.34	781	14.6	3.3	262	1000	100	22	1916	39.3
	PL9	25.1	4.94	565	15.0	4.0	297	984	75	26	1172	26.3
	PL44	25.5	6.35	504	14.4	4.1	315	871	100	-[C]	-	24.0
	PL54	25.6	4.18	686	13.6	4.1	271	1058	171	19	1530	37.2
	PL51	26.2	8.21	440	17.6	6.5	357	858	137	28	940	20.8
	PL36	26.2	6.52	526	15.7	5.7	308	855	108	25	1268	29.2
	PL67is	26.3	5.49	561	14.9	5.6	276	871	133	22	-	-
	PL35	26.3	5.03	672	16.7	5.5	240	1142	255	-	-	-
	PL65	26.4	6.71	518	17.0	5.2	295	961	123	23	807	19.4
	PL2	26.5	5.21	591	20.8	3.6	356	1038	244	22	862[B]	-
	PL27	26.5	5.00	605	15.6	3.6	235	919	90	28	1789	40.5
	PL56	26.5	4.37	654	14.4	3.6	321	1032	128	30	1284	31.8
	PL39	27.2	3.63	788	15.1	3.9	324	863	100	31	2143	49.8
	PL12	27.6	3.97	695	20.9	3.2	309	951	89	28	2074	52.3
	PL24	27.7	6.02	569	15.6	5.0	313	848	65	24	543	13.3
	PL55	27.7	5.87	575	17.9	3.5	315	1000	130	26	1216	35.0
	PL26	27.8	4.31	725	15.1	3.9	300	977	73	28	730	31.0
	PL28	27.8	6.42	519	16.4	5.6	341	879	118	26	1092	28.7
	PL18	28.4	5.57	598	16.1	4.0	285	974	115	24	1241	32.3
	PL22	28.5	6.73	516	21.2	4.2	349	904	95	21	167	5.5
	PL13	28.5	6.41	564	17.5	4.5	335	848	82	18	484	13.5
	PL64	28.7	5.35	617	17.0	4.2	303	974	115	24	1877	42.8
	PL21	28.7	3.27	853	17.2	4.2	309	984	103	26	1121	29.3
	PL47	28.8	5.20	641	19.3	3.2	285	969	105	27	958	25.3
	PL23	29.5	5.52	640	16.4	3.8	280	1000	117	29	1201	30.3

	PL25	29.4	3.90	796	19.3	4.6	287	924	94	20	1007	25.5
	PL69	29.5	5.77	577	15.7	5.0	282	879	160	26	-	-
	PL8	29.6	7.64	478	19.9	5.4	347	855	98	24	616	16.0
	PL58	29.6	5.65	585	19.9	4.1	295	1032	163	31	2895	78.2
	PL3	29.7	6.89	564	24.4	3.8	359	916	93	24	779	20.8
	PL10	29.9	5.98	569	17.3	4.4	299	1000	99	24	424	20.0
	PL16	30.0	5.12	655	22.7	3.2	350	1000	115	30	2021	48.5
	PL11	30.1	8.16	450	21.3	2.7	363	990	79	25	943	29.0
	PL20	30.2	4.35	680	17.0	3.9	270	961	118	28	1471	33.2
	PL66	30.8	7.18	517	17.8	5.4	283	867	103	23	-	-
	PL17	30.8	5.88	609	22.2	3.4	358	1021	105	26	1308	39.8
	PL60	30.9	4.87	587	18.3	4.3	336	797	100	14	548	15.7
	PL38	31.3	7.59	526	18.9	3.4	292	1016	99	26	1705	45.5
	PL59	31.3	4.46	711	18.0	4.7	233	990	160	21	2114	54.8
	PL14	31.5	5.53	640	18.0	3.5	302	876	100	26	854	25.0
	PL66is	31.6	6.77	536	18.6	4.8	295	914	146	23	-	-
	PL29	31.8	5.75	645	19.9	4.3	286	825	80	27	714	21.3
	PL68	32.1	5.30	722	25.6	3.8	284	924	80	20	-	26.7
	PL45	32.2	9.25	519	19.6	4.3	356	819	88	22[B]	595[B]	19.7
	PL37	32.2	6.11	607	19.0	4.3	283	879	114	29	982	29.5
	PL57	32.5	5.79	593	17.3	5.2	266	1032	177	31[B]	2538[B]	62.7
	PL30	33.2	4.03	830	17.4	3.1	248	1042	100	27	1891	48.7
	PL5	33.7	4.67	774	18.9	3.4	286	1064	105	26	1590	43.8
	PL48	34.1	6.71	604	20.2	3.8	309	974	129	33	1421	37.7
	PL50	35.1	5.65	692	20.7	3.9	229	1006	123	32	810	26.0
	PL52	36.0	7.51	578	21.9	4.6	322	1000	172	27	1030	33.5
	PL7	36.7	5.25	784	19.9	4.2	218	1000	96	21	841	23.0
	PL1	41.2	6.80	649	24.2	3.9	269	784	98	18	432	16.7
	PL4	41.3	6.63	714	27.2	2.7	333	846	93	29	633	25.6
	PL49	44.3	7.74	649	27.4	3.6	308	930	170	18	887	36.2
2009	PL33	20.0	4.78	515	15.1	4.3	230	807	110	24	954	19.8
	PL34	22.5	4.81	549	14.3	5.4	327	720	127	26	1381	29.6
	PL27	23.6	5.21	551	15.7	5.3	350	819	105	28	1146	25.2
	PL64	24.3	5.12	557	15.5	4.9	329	789	123	23	999	23.0
	PL31	24.5	6.15	501	16.5	4.8	320	816	113	27	1046	24.5
	PL65	24.9	5.28	535	17.4	5.2	336	742	130	23	723	17.4
	PL18	25.5	5.64	539	15.5	6.0	317	813	150	25	917	22.6
	PL26	25.6	5.80	536	15.7	5.2	345	862	88	32	407[B]	8.90
	PL21	26.1	4.60	622	15.6	4.7	281	761	115	27	1057	26.2
	PL47	26.2	5.86	550	19.3	4.0	370	770	113	32	504	12.5
	PL9	26.6	6.00	531	18.3	5.0	308	802	92	29	892	21.9
	PL12	26.6	6.73	491	20.0	5.1	361	821	97	28	843	19.0
	PL48	27.1	5.93	540	21.1	4.6	360	789	143	36	337[B]	7.2
	PL50	27.5	5.87	567	18.6	4.1	352	795	127	35	-	-
	PL23	27.6	6.19	581	16.9	4.7	337	736	155	28	559	15.4
	PL46	28.4	7.80	450	17.5	6.1	345	778	155	27	1355	38.3
	PL55	29.3	6.14	564	17.7	5.1	324	789	160	36	822	23.5
	PL3	29.4	6.62	543	26.0	3.7	400	739	108	27	717	19.7
	PL20	29.6	6.68	543	19.3	4.6	342	789	125	29	1093	27.5
	PL22	29.7	6.57	539	19.9	4.9	338	779	120	21	817	21.1
	PL10	29.8	6.10	558	18.7	4.6	324	824	107	30	1200	33.9
	PL11	30.3	7.95	454	21.3	5.1	372	821	98	28	1135	34.2
	H1	30.5	6.08	611	17.4	5.2	260	814	153	-	940	25.7
	PL16	30.7	7.93	510	24.8	4.2	381	726	108	27	608	16.3

PL25	31.4	7.74	511	20.3	5.5	339	720	123	21	658[B]	18.1
H2	31.5	6.80	549	20.4	4.5	334	828	163	-	939	29.9
PL59	32.7	7.15	558	20.7	5.0	307	686	145	21	491[B]	15.8
PL7	33.2	7.02	574	21.1	5.0	332	711	105	23	470	13.8
PL52	33.7	7.38	556	22.0	4.5	328	836	168	29	361[B]	9.50
PL2	34.0	5.49	680	21.9	3.6	297	810	92	22	952	23.7
PL49	40.4	9.78	531	27.1	5.3	317	810	202	18	668	22.0

[A] *, **, *** significant at $P = 0.05$, 0.01 and 0.001, respectively. Values within parenthesis indicate l.s.d. for $p < 0.05$.
[B] Data corresponding to one replicate and excluded from statistical analysis.
[C] No available data.