

Supplementary Table S1. Average of spikelet fertility for 98 rice accessions affected by high temperatures at heading stage.

Accession No.	Origin z)	Subgroup	Name	Average of treated temperature (°C)	Average of SFHT (%) y)
RWG-001	KOR	<i>Temperate japonica</i>	Namseon 52	31.76	42.93
RWG-002	KOR	<i>Temperate japonica</i>	Suweon 159	33.62	1.3
RWG-003	KOR	<i>Indica</i>	Suweon 255	28.41	0.26
RWG-004	KOR	<i>Temperate japonica</i>	Suweon 301	30.66	52.54
RWG-005	KOR	<i>Indica</i>	Suweon 347	30.26	16.62
RWG-006	COL	<i>Indica</i>	CT9993-5-10-1-M	29.16	28.56
RWG-007	LKA	<i>admixture</i>	RATHAL	27.42	0
RWG-008	IRN	<i>Aus</i>	TCHAMPA	31.49	79.31
RWG-009	KOR	<i>Temperate japonica</i>	Jejubukjeju-2002-99	32.13	39.63
RWG-010	KOR	<i>Indica</i>	Jejubukjeju-2002-171	31.44	0
RWG-012	KOR	<i>Temperate japonica</i>	Jejubukjeju-2002-420	31.74	71.08
RWG-014	KOR	<i>Temperate japonica</i>	Incheonkanghwasujip-16	31.83	0.53
RWG-016	KOR	<i>Temperate japonica</i>	Dadajo	31.9	11.53
RWG-018	KOR	<i>Tropical japonica</i>	Sando	30.92	37.43
RWG-019	KOR	<i>Tropical japonica</i>	Batnarak	30.46	26.4
RWG-020	KOR	<i>Temperate japonica</i>	Orido	32.51	16.07
RWG-022	KOR	<i>Indica</i>	SEON	32.28	0
RWG-023	KOR	<i>Aus</i>	Hanyangjo	33.29	8.73
RWG-024	KOR	<i>Temperate japonica</i>	Inbujido	31.85	69.36
RWG-025	KOR	<i>Temperate japonica</i>	Beobpanhwa	34.03	40.16
RWG-028	KOR	<i>Temperate japonica</i>	YULJOJO	34.03	2.13
RWG-029	KOR	<i>Temperate japonica</i>	Samgyeongjo	30.46	0
RWG-031	KOR	<i>admixture</i>	MONDONCHALBYEO	28.28	0
RWG-034	IND	<i>Indica</i>	BALA	31.73	0.82
RWG-036	VNM	<i>Indica</i>	CHIEM CHANK	29.32	0
RWG-039	PHL	<i>Indica</i>	IR38	28.51	0
RWG-040	USA	<i>Tropical japonica</i>	MAGNOLIA	28.35	0.61
RWG-041	BGD	<i>Indica</i>	MALA	27.53	0.35
RWG-044	IRN	<i>Indica</i>	Red Rice	27.65	0
RWG-045	VNM	<i>Tropical japonica</i>	TUN SART	33.43	0
RWG-047	TWN	<i>Indica</i>	Bai Cyue Hwa Lue	33.44	4.03
RWG-048	TWN	<i>Indica</i>	Yangmyeon	31.86	27.11
RWG-049	USA	<i>Indica</i>	BELLE PATNA	32.89	9.46
RWG-051	LBR	<i>Tropical japonica</i>	YUPUL	30.97	55.17
RWG-054	LKA	<i>Indica</i>	HATADANI	33.76	0
RWG-056	TWN	<i>Indica</i>	WAIKYAKUSHI	31.28	1.97
RWG-057	NGR	<i>Tropical japonica</i>	UPLAND	28.23	53.42
RWG-058	USA	<i>Tropical japonica</i>	NEWREX	29.02	0.35
RWG-059	TWN	<i>Temperate japonica</i>	Doan Guang Hwa Lue	29.4	76.6
RWG-061	PHL	<i>Indica</i>	BINATO	29.34	0
RWG-064	THA	<i>Indica</i>	HAWM SUPAN	27.72	0
RWG-067	CHN	<i>Indica</i>	XI GUA BAI	29.01	16.08
RWG-069	CHN	<i>Temperate japonica</i>	KENG CHI JU	31.56	30.43
RWG-070	CHN	<i>Indica</i>	QUA 77 WUAN-DAU	31.22	20.93
RWG-072	CHN	<i>Indica</i>	HSIANG-HA-TSAN	33.06	4.21
RWG-073	KOR	<i>Indica</i>	Cheongdo-donggok-4	31.86	68.38
RWG-075	KOR	<i>Temperate japonica</i>	Golyeong-6	29.63	0
RWG-076	KOR	<i>Temperate japonica</i>	Danyang-7	33.19	1.12

RWG-077	KOR	<i>Temperate japonica</i>	Danyang-38	29.56	0
RWG-078	KOR	<i>Temperate japonica</i>	Hwaseong-5	31.13	25.03
RWG-079	JPN	<i>Temperate japonica</i>	Gou 405	34.28	3.47
RWG-080	CHN	<i>Temperate japonica</i>	Baeksami	30.66	15.36
RWG-081	JPN	<i>Tropical japonica</i>	AKAINE	31.49	33.14
RWG-082	KOR	<i>Temperate japonica</i>	Syarebyeo-61-1-B	33.75	5.39
RWG-083	KOR	<i>Temperate japonica</i>	Syalebyeo-94-1-B	34.22	2.41
RWG-085	KOR	<i>Indica</i>	Milyang 50	33.21	2.31
RWG-086	KOR	<i>Indica</i>	Yeongpung Byeo	28.38	0
RWG-087	KOR	<i>Temperate japonica</i>	Iri 336	31.98	55.2
RWG-088	KOR	<i>Temperate japonica</i>	Mihyang Byeo	27.8	2.93
RWG-089	NPL	<i>Tropical japonica</i>	MOROBREKAN	28.04	35.48
RWG-090	KOR	<i>Tropical japonica</i>	Jejubukjeju-2002-115	31.05	22.87
RWG-091	KOR	<i>Temperate japonica</i>	Jejubukjeju-2002-550	32.7	36.19
RWG-092	KOR	<i>Temperate japonica</i>	Jejubukjeju-2002-561	34.16	0.7
RWG-093	KOR	<i>Temperate japonica</i>	Huindadak	32.26	52.29
RWG-095	KOR	<i>Temperate japonica</i>	Pocheon Jangmang Mebyeo	32.49	1.41
RWG-097	KOR	<i>Temperate japonica</i>	Seorianjeunbaengi	31.22	56.46
RWG-098	KOR	<i>Tropical japonica</i>	Neul Byeo	28.51	9.02
RWG-099	KOR	<i>Temperate japonica</i>	Jwiippari Byeo	30.88	32.06
RWG-100	KOR	<i>Temperate japonica</i>	Jeongjonghwa	33.56	0
RWG-101	KOR	<i>Tropical japonica</i>	Soduju	28.38	0
RWG-103	KOR	<i>Temperate japonica</i>	Bori Byeo	31.48	83.97
RWG-105	NGR	<i>admixture</i>	BIKOM	34.16	0
RWG-106	HND	<i>Tropical japonica</i>	British Honduras Creole	32.1	5.64
RWG-109	TWN	<i>Indica</i>	TAICHUNG-WOO-TSAN	34.06	0.17
RWG-111	TWN	<i>Temperate japonica</i>	Xao Bai Mang Sue Dao	30.64	27.31
RWG-112	TWN	<i>Indica</i>	Di jiao wu jian	32.13	32.11
RWG-113	AFG	<i>Aus</i>	SPIN MERE	31.3	0
RWG-114	JPN	<i>Temperate japonica</i>	Norin 22	32.49	0
RWG-116	CHN	<i>Indica</i>	NIAN CHI SHI	27.8	0
RWG-117	CHN	<i>Temperate japonica</i>	SUNG PAN TAO	33.06	0
RWG-118	CHN	<i>Indica</i>	TSONG-GAN-SHUN	29.52	68.36
RWG-119	CHN	<i>Indica</i>	SAN-LI-SHUN	31.73	0
RWG-120	CHN	<i>Indica</i>	YANG-SHA-TSAN	32.13	52.48
RWG-121	KOR	<i>Indica</i>	Chungdo 23	32.75	4.99
RWG-122	KOR	<i>Indica</i>	Chungdo Hwayang 12	33.09	0
RWG-123	KOR	<i>Indica</i>	Chungdo Hwayang 14	34.16	67.57
RWG-124	KOR	<i>Indica</i>	Sungju 3	31.07	22.22
RWG-125	KOR	<i>Indica</i>	Jangsung 1	31.13	0
RWG-126	KOR	<i>Indica</i>	Soonchun 5	34.53	14.1
RWG-127	KOR	<i>Temperate japonica</i>	Daegu Damti 6-2	34.16	0.95
RWG-128	KOR	<i>Temperate japonica</i>	Gucchang 15	33.34	0.68
RWG-129	KOR	<i>Temperate japonica</i>	Danyang 9	32.33	78.1
RWG-130	KOR	<i>Temperate japonica</i>	Danyang 9	32.04	67.73
RWG-131	CHN	<i>Indica</i>	Suhyeonghando	31.3	0
RWG-132	CHN	<i>Tropical japonica</i>	Xiao zao huang	30.32	0.54
RWG-133	KOR	<i>Temperate japonica</i>	Namseon 34	34	0.96
RWG-135	KOR	<i>Temperate japonica</i>	Milyang 88	34.17	0
RWG-136	KOR	<i>Temperate japonica</i>	Dudo	32.41	8.1

z) Origin of each rice accessions. KOR: Korea; COL: Colombia; LKA: Sri Lanka; IRN: Iran; IND: India; VNM: Vietnam; LBR: Liberia; NGR: Nigeria; CHN: China; JPN: Japan; NPL: Nepal; HND: Honduras; AFG: Afghanistan PHL: Philippine; USA: United States of America; BGD: Bangladesh; TWN: Taiwan;

y) SFHT : Spikelet fertility under high temperature