

S6 Table. GEBVs of BW parents and their SDLs in the top 10% of the population under irrigated conditions.

BW Parents	SYN Parents	Cross	Ave. Yield GEBVs	% increase/decrease GEBV
3570			1.34	
3570	SYNP14	BC	0.98	-27
CACUKE			0.43	
CACUKE	SYNP5	BC	0.73	72
HS420			0.85	
HS420	SYNP13	BC	0.78	-8
KIRITATI			0.82	
KIRITATI	SYNP5	BC	0.78	-6
MILAN/S87230//BAV92			1.40	
MILAN/S87230//BAV92	SYNP4	BC	0.92	-34
MILAN/S87230//BAV92	SYNP4	BP	0.78	-44
MILAN/S87230//BAV92	SYNP20	BC	0.94	-33
MILAN/S87230//BAV92	SYNP20	BP	0.89	-37
MILAN/S87230//BAV92	SYNP21	BC	0.90	-36
MILAN/S87230//BAV92	SYNP21	BP	0.83	-41
MILAN/S87230//BAV92	SYNP21	BP	0.86	-38
MILAN/S87230//BAV92	SYNP23	BC	1.02	-27
MILAN/S87230//BAV92	SYNP27	BC	1.05	-25
MILAN/S87230//BAV92	SYNP27	BP	0.78	-45
MILAN/S87230//BAV92	SYNP27	BP	0.72	-49
MILAN/S87230//BAV92	SYNP39	BC	0.86	-38
MINO			0.48	
MINO	SYNP36/4/GONDO// SHA5/WEAVER/3/PASTOR	TC	0.84	77
MUU			-0.02	
MUU	SYNP34	BP	0.76	78
PANDORA			0.74	
PANDORA	SYNP3	BC	1.00	35
PANDORA	SYNP11	BC	0.72	-2
PANDORA	SYNP14	BC	0.80	8
PANDORA	SYNP18	BP	0.83	12
PANDORA	SYNP19	BC	0.96	29
PANDORA	SYNP23	BC	0.71	-4
PANDORA	SYNP26	BC	0.82	11
PANDORA	SYNP39	BC	0.69	-7
SUNCO/2*PASTOR			-0.16	
SUNCO/2*PASTOR	SYNP5	BC	0.95	111
SUNCO/2*PASTOR	SYNP5	BP	0.71	87
SUNCO/2*PASTOR	SYNP27	BC	0.80	96
SUNCO/2*PASTOR	SYNP43	BC	0.90	106
SW89.5181/KAUZ			0.91	
SW89.5181/KAUZ	SYNP6	BC	1.09	20
SW89.5181/KAUZ	SYNP35	BC	0.76	-17
TAM200/TUI			0.47	
TAM200/TUI	SYNP2	BC	0.78	67
TAM200/TUI	SYNP3	BC	0.80	71