

Table S1. Experimental materials (130 genotypes) with estimated parameters

Genotypes	Abbreviate form	DFF	FD	FL	FW	NDVI	PH	SLA	SPAD	TF	YPP
AC-285	G1	109.07	61.34	6.13	9.93	0.51	108.82	132.4	46.75	15.21	7.83
BARI-1	G2	99.32	40.97	4.1	8.3	0.48	89.82	121.08	45.59	21.96	11.13
BARI-10	G3	95.32	38.47	3.85	9.5	0.6	103.82	119.16	62.32	14.96	5.72
BARI-4	G4	98.32	44.96	4.5	8	0.58	93.82	159.86	63.09	29.96	14.54
BARI-5	G5	93.82	57.79	5.78	8.2	0.56	94.07	111.21	39.09	13.71	7.67
BARI-5.1	G6	97.32	42.07	4.21	7.82	0.5	97.82	90.05	52.51	16.96	7.66
BARI-6	G7	99.32	69.99	7	10.58	0.55	90.82	103.26	53.2	13.96	7.1
BARI-8	G8	99.32	50.29	5.03	8.5	0.47	97.82	161.28	47.14	15.96	7.53
BARI-8.1	G9	98.07	26.15	2.62	3.77	0.68	92.32	113.09	57.4	12.96	4.06
BD-2646	G10	98.07	40.18	4.02	7.1	0.46	98.32	169.52	43.63	13.96	7.56
BD-2649	G11	104.07	82.16	8.22	12.35	0.47	96.82	221.29	39.97	15.21	9.03
BD-2682	G12	109.07	42.33	4.23	6.55	0.43	96.82	180.74	43.5	19.21	8.18
BD-2724	G13	98.07	43.38	4.34	6.37	0.41	103.32	107.99	55.03	13.96	7.71
BD-2749	G14	111.07	34.25	3.42	4.65	0.63	90.82	118.2	55.29	17.21	7.9
BARI-Bt brinjal-1	G15	96.14	32.72	3.27	4.86	0.55	97.71	98.39	58.84	18.14	7.99
BARI-Bt brinjal-2	G16	95.43	36.6	3.66	6.62	0.49	99.71	100.26	55.67	22.43	7.6
BARI-Bt brinjal-3	G17	105.71	43.68	4.37	8.11	0.5	100.14	96.57	45.75	14.57	7.24
BARI-Bt brinjal-4	G18	97	53.56	5.36	11.11	0.48	96.71	104.05	50.19	12.71	7.24
Har-1	G19	98.07	31.75	3.18	3.96	0.62	114.32	143.29	42.59	12.96	5.88
Hathazari-1	G20	116.07	32.26	3.23	4.61	0.53	109.32	162.78	49.21	13.96	6.58
Hathazari-2	G21	116.07	31.18	3.12	4.87	0.44	105.32	125.17	52.37	12.96	6.76
K-12	G22	112.07	76.35	7.63	11.56	0.41	113.82	144.01	49.89	14.21	8.29
K-18	G23	113.07	52.15	5.21	9.9	0.54	105.82	156.14	44.17	13.21	5.75
K-20	G24	108.07	46.22	4.62	6.51	0.53	119.82	129.93	35.33	14.21	6.76
K-28	G25	97.07	44.21	4.42	8.6	0.42	116.82	151.13	47.91	16.21	8.19
K-30	G26	96.07	29.94	2.99	3.89	0.5	133.82	192.09	38.37	13.21	3.98
K-47	G27	97.07	51.18	5.12	8.96	0.53	126.82	157.13	43.93	13.21	6.3
MRI-100	G28	109.57	70.05	7	8.89	0.49	104.82	99.38	53.63	20.71	1.66
MRI-101	G29	98.57	67.35	6.73	8.3	0.49	110.82	191.45	37.13	19.71	13.23
MRI-102	G30	98.57	46.15	4.61	8.3	0.53	110.82	112.75	43.41	18.71	7.58
MRI-103	G31	96.57	50.07	5.01	8.01	0.55	115.82	179.06	48.99	16.71	8.94
MRI-104	G32	97.57	45.94	4.59	6.22	0.59	103.82	185.49	48.55	15.71	6.28
MRI-105	G33	85.57	54.13	5.41	7.99	0.66	94.82	121.4	50.65	21.71	10.16

Genotypes	Abbreviate form	DFF	FD	FL	FW	NDVI	PH	SLA	SPAD	TF	YPP
MRI-106	G34	94.57	35.94	3.59	5.6	0.56	87.82	139.06	66.97	17.71	7.79
MRI-107	G35	93.57	47.52	4.75	8	0.61	100.82	107.42	38.95	14.71	8.35
MRI-108	G36	89.57	49.12	4.91	8.66	0.59	114.82	99.54	48.03	18.71	9.11
MRI-109	G37	97.57	70.18	7.02	10.3	0.66	130.82	100.36	32.47	25.71	12.46
MRI-110	G38	95.57	62.96	6.3	11.63	0.64	102.82	181.38	41.32	27.71	13.16
MRI-111	G39	86.57	84.88	8.49	9.32	0.58	98.82	129.56	37.9	20.71	9.62
MRI-112	G40	86.57	56.09	5.61	9.02	0.54	110.82	191.25	44.99	18.71	9.06
MRI-113	G41	87.32	32.01	3.2	6.35	0.62	131.57	143.46	44.06	24.21	17.07
MRI-114	G42	87.32	36.26	3.63	6.91	0.58	110.57	128.32	50.9	17.21	11.46
MRI-115	G43	104.32	33.06	3.31	6.11	0.73	130.57	193.62	37.28	28.21	20.57
MRI-116	G44	86.32	29.38	2.94	4.29	0.62	128.57	151.5	56.07	30.21	9.75
MRI-118	G45	83.32	22.22	2.22	4.53	0.57	110.57	97.82	43.65	26.21	10.94
MRI-119	G46	85.32	22.99	2.3	3.47	0.42	122.57	120.04	49.17	16.21	5.71
MRI-120	G47	87.32	34.04	3.4	4.37	0.74	120.57	136.91	39.16	18.21	6.51
MRI-121	G48	87.32	29.79	2.98	5.11	0.75	126.57	103.52	47.04	17.21	6.79
MRI-122	G49	85.32	32	3.2	5.45	0.72	132.57	178.32	53.56	23.21	11.1
MRI-123	G50	83.32	29.11	2.91	3.95	0.61	112.57	136.82	48.47	21.21	9.99
MRI-124	G51	87.32	22.97	2.3	3.41	0.65	124.57	118.05	49.9	18.21	6.87
MRI-22	G52	105.57	56.23	5.62	7.4	0.6	99.82	101.84	61.14	13.71	5.87
N-144	G53	104.82	62.56	6.26	12.38	0.62	106.57	144.98	48.05	49.21	0.34
N-215	G54	87.32	46	4.6	8.83	0.62	115.57	127.86	45.66	14.21	13.35
N-216	G55	106.32	35.99	3.6	8.26	0.33	121.57	186.5	52.06	15.21	9.75
N-217	G56	104.82	68.52	6.85	8.04	0.5	115.57	132.43	30.04	14.21	6.97
N-218	G57	105.82	52.56	5.26	6.41	0.57	115.57	163.15	44.08	12.21	4.05
N-234	G58	111.82	25.99	2.6	5.43	0.65	110.57	109.3	48.41	13.21	4.84
N-235	G59	117.07	24.22	2.42	4.07	0.49	129.32	118.51	51.8	33.96	11.03
N-235.1	G60	110.82	11.39	1.14	3.76	0.55	120.57	128.67	54.55	31.21	1.32
N-236	G61	91.82	42.6	4.26	7.96	0.62	139.57	99.24	42.49	15.21	8.97
N-236.1	G62	121.07	33.28	3.33	6.18	0.7	107.32	112.66	48.55	12.96	6.76
N-237	G63	122.07	30.07	3.01	3.97	0.53	115.32	202.84	46.45	21.96	6.6
NRI-130	G64	102.32	55.19	5.52	9.11	0.48	120.57	162.58	51.57	11.21	10.65
NRI-221	G65	87.32	42.02	4.2	6.83	0.64	120.57	108.44	39.07	18.21	7.05
NRI-231	G66	86.32	52.2	5.22	7.78	0.6	121.57	97.04	47.66	19.21	8.35
NRI-232	G67	87.32	45.3	4.53	6.18	0.54	118.57	141.48	42.5	20.21	6.75
NRI-291	G68	105.32	62.99	6.3	8.52	0.7	109.57	178.02	51.32	15.21	9.9

Genotypes	Abbreviate form	DFF	FD	FL	FW	NDVI	PH	SLA	SPAD	TF	YPP
NSR-11	G69	92.82	39.99	4	9.61	0.47	117.07	139.01	25.37	15.71	11.14
NSR-117	G70	105.82	71.23	7.12	9.39	0.63	110.57	129.4	50.02	13.21	8.59
NSR-13	G71	92.82	66.13	6.61	12.6	0.66	105.07	125.84	42.3	16.71	12.85
NSR-17	G72	102.07	46.33	4.63	8.51	0.62	97.82	113.3	53.69	13.21	5.23
NSR-26	G73	98.07	32.33	3.23	5.31	0.52	125.82	193.64	49.26	14.21	4.65
NSR-27	G74	103.07	51.44	5.14	7.33	0.54	106.82	176.19	40.19	14.21	6.97
NSR-28	G75	104.07	55.16	5.52	8.75	0.63	110.82	107.69	51.27	15.21	7.61
NSR-53	G76	109.07	50.27	5.03	13.18	0.51	118.82	132.25	43.79	14.21	8.12
NTR-23	G77	103.82	31.36	3.14	6.87	0.78	121.57	168.62	61.54	16.21	9.71
NTR-7	G78	101.82	48.97	4.9	7.61	0.53	118.57	99.18	39.91	10.21	3.64
Potia-1	G79	97.07	23.09	2.31	4.07	0.65	131.32	133.74	49.89	12.96	5.89
Potia-2	G80	97.07	23.37	2.34	3.37	0.54	126.32	146.7	50.66	13.96	5.88
SU-1	G81	109.07	68.3	6.83	11.35	0.43	128.82	91.57	27.21	14.21	6.72
SU-169	G82	97.82	81.44	8.14	13.82	0.65	100.57	186.23	48.45	49.21	0.24
SU-184	G83	99.82	89.67	8.97	13.38	0.64	103.57	204.28	44.07	49.21	0.24
SU-185	G84	97.82	89.38	8.94	12.61	0.64	121.57	98.2	51.45	15.21	7.61
SU-193	G85	109.07	45.23	4.52	8.76	0.56	103.82	127.19	40.63	12.21	6.1
SU-194	G86	96.82	52.47	5.25	8.9	0.65	100.57	165.81	45.68	12.21	4.99
SU-195	G87	95.82	45.37	4.54	5.55	0.72	110.57	138.26	61.61	10.21	2.87
SU-196	G88	99.82	78.77	7.88	9.66	0.59	126.57	111.3	37.79	12.21	8.61
SU-197	G89	96.82	65.92	6.59	10.87	0.65	138.07	201.46	47.47	13.71	7.67
SU-198	G90	98.82	82.94	8.29	4.29	0.59	109.07	221.66	44.73	48.71	4.87
SU-199	G91	97.82	57.25	5.72	8.98	0.47	119.07	99.28	48.71	13.71	7.07
SU-200	G92	95.82	29.93	2.99	5.72	0.59	115.07	163.93	40.53	11.71	6.71
SU-201	G93	92.82	85.72	8.57	11.79	0.51	99.07	168.3	47.73	11.71	6.37
SU-202	G94	96.82	44.34	4.43	9.72	0.42	132.07	113.91	34.89	13.71	6.26
SU-203	G95	95.82	37.76	3.78	6.41	0.45	119.07	182.4	54.97	48.71	0.87
SU-204	G96	97.82	74.91	7.49	12.69	0.52	93.07	121.69	39.04	48.71	0.87
SU-205	G97	99.82	62.13	6.21	9.71	0.44	122.07	99.3	49.19	10.71	5.92
SU-206	G98	97.82	94.73	9.47	11.89	0.44	109.07	164.18	48.77	10.71	5.73
SU-207	G99	97.82	10.71	1.07	0.87	0.59	99.07	194.92	34.95	48.71	0.87
SU-208	G100	96.82	7.71	0.77	1.07	0.67	98.07	175.52	38.58	48.71	0.87
SU-209	G101	94.82	74.16	7.42	9.8	0.48	97.07	103.27	40.89	48.71	0.87
SU-210	G102	96.82	38.77	3.88	9.6	0.63	95.07	140.42	59.53	12.71	7.04
SU-211	G103	104.82	45.97	4.6	11.89	0.49	97.07	88.26	48.22	11.71	7.77

Genotypes	Abbreviate form	DFF	FD	FL	FW	NDVI	PH	SLA	SPAD	TF	YPP
SU-212	G104	102.07	55.45	5.54	8.04	0.6	119.82	100.45	43.19	13.21	6.88
SU-213	G105	86.57	66.35	6.63	8.9	0.47	109.82	141.39	47.75	13.71	7.46
SU-214	G106	85.57	68.94	6.89	8.3	0.58	116.82	188.58	50.55	13.71	6.13
SU-215	G107	89.57	48.93	4.89	8.28	0.47	114.82	111.34	57.47	13.71	6.56
SU-216	G108	92.57	41.12	4.11	7.7	0.59	135.82	99.28	47.13	15.71	6.86
SU-217	G109	95.07	40.07	4.01	5.87	0.56	105.32	213.07	52.69	11.96	5.46
SU-218	G110	99.32	32.18	3.22	6.26	0.55	110.82	201.1	51.14	12.96	5.32
SU-219	G111	99.32	36.11	3.61	7.32	0.5	99.82	173.87	54.73	13.96	6.25
SU-220	G112	101.32	24.04	2.4	4.6	0.59	115.82	185.8	64.98	12.96	4
SU-221	G113	101.32	31.35	3.13	6.4	0.38	95.82	169.94	39.28	15.96	5.92
SU-222	G114	102.32	24.53	2.45	5.4	0.52	125.82	111.6	43.7	14.96	4.1
SU-223	G115	102.32	32	3.2	6.21	0.44	104.82	170.12	53.17	12.96	5.39
SU-224	G116	99.32	48.13	4.81	7.19	0.57	110.82	105.19	47.69	12.96	6.18
SU-225	G117	99.32	54.05	5.4	9.91	0.48	119.82	132.08	49.91	13.96	7.48
SU-226	G118	98.32	41.21	4.12	8.6	0.47	110.82	117.64	56.38	14.96	7.07
SU-227	G119	92.07	23.95	2.4	4.37	0.5	109.32	220.95	52.7	12.96	6.78
SU-228	G120	96.32	41.96	4.2	6.3	0.59	124.82	93.7	52.24	21.96	8.36
SU-229	G121	91.07	37.34	3.73	4.95	0.68	104.32	139.83	61.57	11.96	5.42
SU-230	G122	97.32	27.07	2.71	5.01	0.47	131.82	242.85	47.74	12.96	3.78
SU-231	G123	95.07	23.14	2.31	4.68	0.52	111.32	121.36	41.85	11.96	5.84
SU-232	G124	99.32	48.65	4.86	8.3	0.5	120.82	134.51	43.16	12.96	5.43
SU-233	G125	95.07	27.2	2.72	5.96	0.52	109.32	133.92	45.23	21.96	11.51
SU-234	G126	97.07	61.56	6.16	5.99	0.53	109.32	178.61	52.17	12.96	6.89
SU-235	G127	97.07	40.5	4.05	4.87	0.58	114.32	132.18	44.45	12.96	7.73
SU-38	G128	109.82	62.47	6.25	8.98	0.57	104.57	107.35	38.55	12.21	7.04
SU-39	G129	91.82	70.5	7.05	7.46	0.58	100.57	86.12	47.21	18.21	9.22
SU-43	G130	89.82	82.55	8.26	9.78	0.71	93.57	97.69	58.46	49.21	0.24