

**Table S4.** Numbers of individuals and mean male flower index survey scores used to calculate male flower quantity Clonal values for each clone.

Table S4. Numbers of individuals and mean male flower index survey scores used to calculate male flower quality Clonal values for each clone.																						
Generation	Clone	Year	2008		2009		2010		2011		2012		2013		Total			Score	Published Score	modified	Statistics	Clonal value
			N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N					
G1	P3122_sag1	-																2			Z-score	-0.70
G1	P3123_sag2	-																3			Z-score	0.02
G1	P3124_sag3	-																1			Z-score	-1.42
G1	P3126_fuj1	-																4			Z-score	0.74
G1	P3127_fuj2	-																4			Z-score	0.74
G1	P3129_fuj5	-																3			Z-score	0.02
G1	P3130_fuj6	-																3			Z-score	0.02
G1	P3132_fuj8	-																3			Z-score	0.02
G1	P3133_fuj9	-																5			Z-score	1.46
G1	P3134_fuj10	-																2			Z-score	-0.70
G1	P3135_fuj11	-																3			Z-score	0.02
G1	P3136_fuj12	-																3			Z-score	0.02
G1	P3138_fuj14	-																1			Z-score	-1.42
G1	P3139_fuj15	-																1			Z-score	-1.42
G1	P3140_fuj16	-																2			Z-score	-0.70
G1	P3141_fuj17	-																4			Z-score	0.74
G1	P3143_fuj19	-																3			Z-score	0.02
G1	P3144_fuj20	-																2			Z-score	-0.70
G1	P3145_fuj21	-																3			Z-score	0.02
G1	P3146_fuj22	-																1			Z-score	-1.42
G1	P3147_fuj24	-																4			Z-score	0.74
G1	P3148_fuj25	-																3	5→3		Z-score	0.02
G1	P3149_fuj26	-																3			Z-score	0.02
G1	P3150_fuj27	-																3			Z-score	0.02
G1	P3151_fuj28	-																3			Z-score	0.02
G1	P3152_fuj29	-																3			Z-score	0.02
G1	P3153_ima1	-																3			Z-score	0.02
G1	P3154_ima2	-																3			Z-score	0.02
G1	P3155_kan1	-																4			Z-score	0.74
G1	P3156_kan2	-																3			Z-score	0.02
G1	P3157_kan3	-																5			Z-score	1.46
G1	P3158_kan4	-																2			Z-score	-0.70
G1	P3162_kar1	-																3			Z-score	0.02
G1	P3163_kar2	-																1			Z-score	-1.42
G1	P3164_kar3	-																2			Z-score	-0.70
G1	P3165_kar4	-																4			Z-score	0.74
G1	P3166_kar5	-																1			Z-score	-1.42
G1	P3167_kar6	-																1			Z-score	-1.42
G1	P3168_kar7	-																2			Z-score	-0.70
G1	P3169_kar8	-																1			Z-score	-1.42
G1	P3170_kar10	-																1			Z-score	-1.42
G1	P3171_kar11	-																4			Z-score	0.74
G1	P3172_kis1	-																1			Z-score	-1.42
G1	P3173_kis2	-																3			Z-score	0.02
G1	P3086_yam1	-																3			Z-score	0.02
G1	P3091_yam9	-																3			Z-score	0.02
G1	P3107_kas1	-																4			Z-score	0.74
G2	F1103_A-3	6	6	1.17	5	1.00	23	1.74	14	1.00	14	1.00	7	1.29	69	1.20	41.9	2			BLUP	-0.54
G2	F1107_A-7	5	7	1.71	8	1.25	8	2.75	8	1.75	8	1.50			39	1.79	49.2	3			BLUP	0.08
G2	F1111_A-11	6	8	1.13	9	1.67	26	1.54	17	1.18	17	1.12	9	1.44	86	1.34	43.7	2			BLUP	-0.47
G2	F1112_A-12	6	9	1.00	8	1.00	24	1.92	16	1.13	16	2.00	8	2.50	81	1.59	46.7	3			BLUP	-0.17
G2	F1120_A-20	6	10	1.10	9	1.00	25	1.16	16	1.00	16	1.25	7	1.29	83	1.13	41.1	2			BLUP	-0.66
G2	F1121_A-21	6	6	1.83	6	1.33	24	1.96	15	1.60	15	2.80	9	1.67	75	1.87	50.1	3			BLUP	0.11
G2	F1122_A-22	6	10	1.40	9	1.11	27	1.33	18	1.33	18	2.11	8	2.88	90	1.69	48.0	3			BLUP	-0.20
G2	F1128_A-28	6	9	1.22	9	1.56	20	2.30	15	1.00	15	2.40	6	1.67	74	1.69	47.9	3			BLUP	-0.01
G2	F1130_A-30	6	12	1.67	12	1.25	27	1.89	18	1.06	15	1.60	9	1.56	93	1.50	45.6	3			BLUP	-0.25
G2	F1131_A-31	5	10	1.00	10	1.00	9	4.44	8	1.00	8	3.38			45	2.16	53.7	3			BLUP	0.41
G2	F1136_A-36	5	8	1.88	8	1.13	7	1.29	7	1.00	7	2.57			37	1.57	46.5	3			BLUP	-0.12
G2	F1137_A-37	6	13	2.31	12	1.75	21	3.10	17	3.29	17	2.88	8	2.38	88	2.62	59.2	4			BLUP	0.92
G2	F1140_A-40	5	9	1.00	9	1.56	8	1.13	8	1.00	8	1.00			42	1.14	41.2	2			BLUP	-0.53
G2	F1141_A-41	6	9	2.22	11	1.55	23	1.96	16	2.56	16	2.69	7	2.00	82	2.16	53.7	3			BLUP	0.39
G2	F1148_A-48	6	7	2.29	7	1.00	23	1.87	15	1.27	15	1.67	7	1.71	74	1.63	47.2	3			BLUP	-0.17
G2	F1149_A-49	5	10	1.00	11	1.00	9	1.22	9	1.00	9	1.00			48	1.04	40.1	2			BLUP	-0.63
G2	F1163_A-63	6	8	1.13	7	1.00	24	1.04	16	1.13	16	1.13	7	1.71	78	1.19	41.8	2			BLUP	-0.67
G2	F1166_A-66	6	8	2.13	7	1.29	24	2.75	14	1.21	14	2.14	5	2.00	72	1.92	50.7	3			BLUP	0.25
G2	F1171_A-71	6	12	1.92	10	1.00	27	1.26	18	1.11	18	1.61	9	1.67	94	1.43	44.7	2			BLUP	-0.41
G2	F1172_A-72	5			7	1.00	7	1.00	7	1.00	7	1.00	7	1.29	35	1.06	40.2	2			BLUP	-0.73
G2	F1176_A-76	5			9	1.22	9	3.11	9	2.78	9	2.33	9	3.67	45	2.62	59.3	4			BLUP	0.78
G2	F1210_B-10	6	11	1.09	12	1.25	20	1.10	16	1.19	16	1.00	7	1.14	82	1.13	41.1	2			BLUP	-0.65
G2	F1214_B-14	5			9	1.00	9	1.00	9	1.00	9	1.00	9	1.11	45	1.02	39.8	2			BLUP	-0.76
G2	F1216_B-16	5			5	1.00	5	1.00	5	1.00	5	1.00	5	1.80	25	1.16	41.5	2			BLUP	-0.61
G2	F1218_B-18	5			9	1.11	9	2.33	9	2.44	9	2.33	9	3.56	45	2.36	56.0	4			BLUP	0.52
G2	F1220_B-20	6	15	3.20	16	1.88	28	4.46	19	4.11	19	4.42	9	4.33	106	3.73	72.8	5			BLUP	2.00
G2	F1221_B-21	5			9	1.00	9	1.00	9	1.00	9	1.00	9	1.33	45	1.07	40.3	2			BLUP	-0.72
G2	F1222_B-22	5			9	1.00	9	1.00	9	1.00	9	1.11	9	1.44	45	1.11	40.9	2			BLUP	-0.68
G2	F1226_B-26	5			9	1.11	9	2.67	9													

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Generation	Clone	Year	2008		2009		2010		2011		2012		2013		Total			Score	Published Score	modified	Statistics	Clonal value
			N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	z-score					
G2	F1238_B-38	6	10	1.00	9	1.11	21	1.43	14	1.00	15	1.00	6	1.17	75	1.12	40.9	2			BLUP	-0.64
G2	F1240_B-40	5			7	1.00	7	1.14	8	1.00	8	1.00	8	1.13	38	1.05	40.2	2			BLUP	-0.74
G2	F1250_B-50	5			9	1.56	9	3.00	9	3.78	9	4.33	9	4.67	45	3.47	69.6	5			BLUP	1.59
G2	F1254_B-54	6	13	1.00	12	1.33	25	1.24	16	1.13	17	1.24	8	1.88	91	1.30	43.2	2			BLUP	-0.53
G2	F1255_B-55	5			8	1.00	9	1.00	9	1.11	9	1.00	9	1.22	44	1.07	40.3	2			BLUP	-0.73
G2	F1256_B-56	5			9	1.00	9	1.00	9	1.00	9	1.00	9	1.22	45	1.04	40.1	2			BLUP	-0.74
G2	F1259_B-59	6	12	1.58	12	1.00	27	2.41	18	1.67	18	1.94	9	2.67	96	1.88	50.2	3			BLUP	0.12
G2	F1261_B-61	5			9	1.00	9	1.00	9	1.33	9	1.22	9	1.44	45	1.20	42.0	2			BLUP	-0.59
G2	F1265_B-65	6	11	1.18	10	1.00	25	1.08	16	1.56	16	1.63	7	2.14	85	1.43	44.8	2			BLUP	-0.43
G2	F1274_B-74	6	12	1.83	20	1.15	36	1.83	27	1.33	27	1.48	18	2.11	140	1.62	47.1	3			BLUP	-0.20
G2	F1275_B-75	5			9	1.00	9	1.00	9	1.22	9	1.00	9	1.00	45	1.04	40.1	2			BLUP	-0.75
G2	F1282_B-82	6	9	1.11	8	1.25	21	1.10	14	1.00	14	1.00	7	1.29	73	1.12	41.0	2			BLUP	-0.70
G2	F1293_B-93	6	10	1.20	9	1.00	26	1.04	17	1.00	17	1.00	9	1.00	88	1.04	40.0	2			BLUP	-0.77
G2	F1294_B-94	6	9	1.00	9	1.00	25	1.08	16	1.00	16	1.00	9	1.11	84	1.03	39.9	2			BLUP	-0.77
G2	F1303_ima_33-11	5			9	1.00	9	1.00	9	1.00	9	2.00	9	3.00	45	1.60	46.8	3			BLUP	-0.21
G2	F1304_ima_24-5	5			9	1.00	9	1.00	9	1.00	9	1.56	9	1.67	45	1.24	42.5	2			BLUP	-0.55
G2	F1306_oom_05-06	5			6	1.00	6	2.67	9	2.22	9	2.78	9	2.89	39	2.31	55.5	3			BLUP	0.51
G2	F1307_oom_07-07	5			6	1.33	6	1.00	9	1.78	9	1.78	9	1.67	39	1.51	45.7	3			BLUP	-0.28
G2	F1308_oom_31-03	5			6	1.00	6	2.00	8	1.00	9	1.89	9	1.67	38	1.51	45.7	3			BLUP	-0.32
G2	F1309_oom_24-12	5			5	1.00	5	1.00	8	1.00	8	1.00	8	1.38	34	1.08	40.4	2			BLUP	-0.74
G2	F1310_oom_20-04	5			6	1.00	6	1.00	9	1.00	9	1.22	9	1.11	39	1.07	40.3	2			BLUP	-0.75
G2	F1312_oom_05-08	5			6	1.00	6	1.00	9	1.67	9	1.78	9	1.44	39	1.38	44.1	2			BLUP	-0.40
G2	F1313_oom_05-03	5			6	1.00	6	1.50	9	1.22	9	1.11	9	1.00	39	1.17	41.5	2			BLUP	-0.67
G2	F1314_oom_08-04	5			6	1.00	6	1.00	9	1.00	9	1.00	9	1.00	39	1.00	39.5	2			BLUP	-0.82
G2	F1315_tar_11-01	5			3	1.00	4	1.00	4	1.00	4	1.00	5	1.00	20	1.00	39.5	2			BLUP	-0.80
G2	F1316_tar_11-03	5			6	1.00	6	1.33	9	2.22	9	1.56	9	2.00	39	1.62	47.1	3			BLUP	-0.16
G2	F1317_tar_08-12	5			6	1.00	6	1.67	8	4.25	9	3.33	9	3.00	38	2.65	59.6	4			BLUP	0.91
G2	F1318_tar_10-01	5			6	1.00	6	3.00	9	1.67	9	2.78	8	3.00	38	2.29	55.2	4			BLUP	0.45
G2	F1319_tar_08-06	5			6	1.00	6	1.00	9	1.44	9	1.22	9	2.44	39	1.42	44.7	2			BLUP	-0.35
G2	F1320_tar_08-02	5			6	1.00	6	1.17	8	1.75	9	1.22	9	2.00	38	1.43	44.7	2			BLUP	-0.37
G2	F1321_tar_13-10	5			5	1.00	5	1.00	8	1.00	8	1.25	8	1.25	34	1.10	40.7	2			BLUP	-0.71
G2	F1322_tar_10-07	5			6	1.00	6	2.83	9	2.22	9	2.11	9	2.11	39	2.06	52.4	3			BLUP	0.21
G2	F1323_tar_08-09	5			6	1.00	6	1.00	6	1.33	6	2.17	6	2.17	30	1.53	46.0	3			BLUP	-0.27
G2	F1324_tar_08-11	5			6	1.33	6	1.50	9	2.67	9	2.22	9	2.89	39	2.12	53.2	3			BLUP	0.37
G2	F1325_tar_10-06	5			6	1.00	6	2.67	9	1.67	9	1.44	9	2.33	39	1.82	49.5	3			BLUP	-0.03
G2	F1326_ima-1	4					6	1.00	9	1.00	9	2.22	9	2.78	33	1.75	48.7	3			BLUP	-0.13
G2	F1327_ima-2	4					3	1.00	9	1.00	9	1.67	9	2.22	30	1.47	45.3	3			BLUP	-0.38
G2	F1328_ima-3	4					1	1.00	3	1.00	3	3.67	3	3.67	10	2.33	55.8	4			BLUP	0.54
G2	F1329_ima-4	4					4	3.25	4	3.25	5	4.00	4	4.00	17	3.63	71.5	5			BLUP	1.53
G2	F1330_ima-5	4					6	1.33	7	1.00	7	2.57	7	1.86	27	1.69	47.9	3			BLUP	-0.24
G2	F1331_ima-6	4					6	3.50	9	3.11	9	3.56	9	2.67	33	3.21	66.4	5			BLUP	1.16
G2	F1332_ima-7	4					3	3.00	9	1.00	9	1.22	9	1.78	30	1.75	48.7	3			BLUP	-0.44
G2	F1333_ima-8	4					3	1.00	9	1.00	9	1.00	9	1.33	30	1.08	40.5	2			BLUP	-0.82
G2	F1334_ima-9	4					6	1.00	7	1.00	7	1.57	7	2.29	27	1.46	45.2	3			BLUP	-0.44
G2	F1335_ima-10	4					3	1.00	8	1.00	8	1.00	8	1.00	27	1.00	39.5	2			BLUP	-0.92
G2	F1336_ima-11	4					6	2.33	9	3.11	9	4.33	9	3.78	33	3.39	68.6	5			BLUP	1.45
G2	F1337_ima-12	4					3	2.67	9	1.00	9	2.11	9	2.22	30	2.00	51.7	3			BLUP	-0.10
G2	F1338_ima-13	3							2	1.00	2	1.00	2	1.50	6	1.17	41.5	2			BLUP	-0.63
G2	F1339_ima-14	4					4	1.75	2	1.00	2	4.50	2	3.00	10	2.56	58.6	4			BLUP	0.40
G2	F1340_sef-1	4					6	3.50	9	3.67	9	4.33	9	3.44	33	3.74	72.9	5			BLUP	1.71
G2	F1341_sef-2	4					6	1.67	9	1.33	9	3.00	9	3.22	33	2.31	55.4	4			BLUP	0.39
G2	F1342_sef-3	4					6	4.17	7	3.86	7	4.00	7	3.57	27	3.90	74.9	5			BLUP	1.82
G2	F1343_sef-4	4					6	2.00	9	1.67	9	3.00	9	3.11	33	2.44	57.1	4			BLUP	0.50
G2	F1344_sef-5	4					3	1.00	9	1.22	9	3.11	9	3.33	30	2.17	53.7	3			BLUP	0.42
G2	F1345_sef-6	4					5	1.40	4	1.75	4	3.50	4	2.00	17	2.16	53.7	3			BLUP	0.16
G2	F1346_sef-7	4					3	2.00	5	1.80	5	3.20	5	3.60	18	2.65	59.6	4			BLUP	0.69
G2	F1347_sef-8	4					3	4.67	3	5.00	3	5.00	3	5.00	12	4.92	87.3	5			BLUP	2.60
G2	F1348_sef-9	4					6	3.50	9	3.11	9	3.56	9	2.67	33	3.21	66.4	5			BLUP	1.16
G2	F1349_sef-10	4					6	1.00	9	1.00	9	1.67	9	2.00	33	1.42	44.6	2			BLUP	-0.48
G2	F1350_sef-11	4					3	2.67	9	1.44	9	3.11	9									