

Table 1. S. Mean values and mean comparison of the variables studied in greenhouse without water stress.

Strain	Genotype	SDW	RDW	NN	NDW	MNDW
SLL2	PHA-0155	25.4	0.98	17.8	9.5	0.534
	PHA-0432	10.2	0.56	34.3	21.4	0.624
	PHA-0471	8.5	0.62	23.8	24.0	1.011
	PHA-0483	18.1	0.59	63.0	14.2	0.225
	PHA-0683	17.5	0.98	42.3	21.0	0.496
	PMB-0220	3.1	0.30	2.5	1.0	0.384
	PMB-0222	11.4	0.43	5.8	4.8	0.842
	PMB-0244	14.1	0.66	21.3	9.3	0.437
	PMB-0285	14.8	2.07	97.8	64.5	0.660
	PMB-0286	6.9	0.75	22.0	3.9	0.179
	<i>Mean</i>	13.0	0.79	33.0	17.4	0.539
CIAT899	PHA-0155	15.2	0.92	13.0	1.57	0.121
	PHA-0432	8.7	1.11	37.8	6.85	0.181
	PHA-0471	9.9	0.94	56.0	16.4	0.293
	PHA-0483	17.2	0.47	37.3	8.1	0.219
	PHA-0683	14.0	0.88	64.8	124.0	1.914
	PMB-0220	8.2	0.70	12.3	2.3	0.186
	PMB-0222	17.6	0.56	21.3	8.9	0.419
	PMB-0244	6.9	0.29	9.8	2.5	0.255
	PMB-0285	13.6	1.06	69.0	23.4	0.339
	PMB-0286	13.6	2.09	132.0	77.8	0.589
	<i>Mean</i>	12.5	0.90	45.3	27.2	0.452
CFN42	PHA-0155	17.3	0.68	21.8	13.0	0.596
	PHA-0432	6.4	0.48	7.3	0.9	0.127
	PHA-0471	8.0	0.60	34.8	11.7	0.336
	PHA-0483	21.3	0.58	49.8	13.1	0.263
	PHA-0683	9.7	0.73	25.3	6.3	0.248
	PMB-0220	8.3	0.83	30.8	10.3	0.333
	PMB-0222	16.0	1.26	409.3	154.7	0.378
	PMB-0244	8.4	0.38	7.0	3.2	0.457
	PMB-0285	19.4	2.25	369.8	124.3	0.336
	PMB-0286	9.3	1.07	173.3	97.5	0.563
	<i>Mean</i>	12.4	0.89	112.9	43.5	0.364
EXIC	PHA-0155	20.8	0.88	25.0	18.3	0.733
	PHA-0432	8.5	0.50	19.3	1.9	0.101
	PHA-0471	9.0	0.48	28.5	6.8	0.237
	PHA-0483	20.2	0.79	109.5	29.6	0.270
	PHA-0683	14.3	0.90	47.5	10.7	0.226
	PMB-0220	11.7	1.03	27.3	17.1	0.626
	PMB-0222	14.9	0.54	5.0	2.7	0.530
	PMB-0244	9.1	0.36	15.8	7.6	0.483
	PMB-0285	10.4	1.26	67.3	41.7	0.621
	PMB-0286	12.0	4.24	206.5	204.0	0.987
	<i>Mean</i>	13.1	1.10	55.2	34.0	0.481
EXIB	PHA-0155	18.5	0.58	12.3	2.8	0.229
	PHA-0432	5.1	0.40	1.0	0.0	0.010

	PHA-0471	3.6	0.30	17.5	15.1	0.865
	PHA-0483	12.8	0.37	3.8	0.5	0.136
	PHA-0683	8.8	0.59	25.0	14.9	0.597
	PMB-0220	7.3	0.79	4.8	4.1	0.861
	PMB-0222	27.0	0.82	38.5	40.8	1.059
	PMB-0244	13.3	0.86	234.9	64.0	0.273
	PMB-0285	13.6	2.29	1097.8	937.8	0.854
	PMB-0286	10.6	1.10	38.5	15.0	0.389
	<i>Mean</i>	<i>12.1</i>	<i>0.81</i>	<i>147.4</i>	<i>110.5</i>	<i>0.527</i>
EG	PHA-0155	12.1	0.50	1.0	0.0	0.010
	PHA-0432	9.3	0.71	27.8	4.1	0.148
	PHA-0471	4.2	0.26	12.0	5.0	0.419
	PHA-0483	13.6	0.64	37.5	6.0	0.160
	PHA-0683	9.7	0.64	33.3	10.0	0.300
	PMB-0220	5.4	0.69	7.0	0.0	0.000
	PMB-0222	15.2	0.55	6.0	2.4	0.402
	PMB-0244	12.8	0.50	9.5	6.5	0.681
	PMB-0285	12.9	2.16	260.0	132.6	0.510
	PMB-0286	17.1	2.60	373.8	213.9	0.572
	<i>Mean</i>	<i>11.2</i>	<i>0.92</i>	<i>79.8</i>	<i>38.0</i>	<i>0.320</i>
EF	PHA-0155	13.9	0.54	26.3	14.6	0.555
	PHA-0432	6.0	0.44	15.3	1.2	0.076
	PHA-0471	9.5	1.54	52.5	10.0	0.191
	PHA-0483	14.1	0.71	79.8	61.8	0.774
	PHA-0683	10.5	0.66	32.3	12.6	0.390
	PMB-0220	6.9	0.52	13.8	7.7	0.560
	PMB-0222	14.1	0.47	12.8	35.3	2.769
	PMB-0244	9.0	0.41	25.3	13.1	0.520
	PMB-0285	11.0	2.06	289.0	326.1	1.128
	PMB-0286	8.8	0.99	27.3	4.5	0.164
	<i>Mean</i>	<i>10.4</i>	<i>0.83</i>	<i>57.1</i>	<i>48.7</i>	<i>0.713</i>
EPOB	PHA-0155	17.8	0.66	11.0	4.5	0.413
	PHA-0432	10.7	0.55	26.5	5.3	0.198
	PHA-0471	8.5	1.24	86.0	46.2	0.538
	PHA-0483	9.8	0.30	7.25	0.5	0.069
	PHA-0683	10.2	0.53	23.5	7.7	0.328
	PMB-0220	8.7	1.65	27.3	29.3	1.076
	PMB-0222	28.2	1.83	77.5	301.8	3.895
	PMB-0244	9.2	0.50	16.3	4.5	0.276
	PMB-0285	14.1	2.07	97.3	53.6	0.551
	PMB-0286	12.8	1.79	67.8	41.4	0.611
	<i>Mean</i>	<i>12.9</i>	<i>1.11</i>	<i>44.0</i>	<i>49.5</i>	<i>0.796</i>
APAFI	PHA-0155	20.0	0.68	19.8	10.0	0.507
	PHA-0432	9.9	0.55	29.3	4.84	0.165
	PHA-0471	13.3	1.41	64.5	24.4	0.378
	PHA-0483	19.0	0.60	35.3	24.0	0.681
	PHA-0683	14.0	0.71	48.3	49.0	1.016
	PMB-0220	8.6	0.64	2.5	0.6	0.236
	PMB-0222	21.9	0.87	37.0	21.2	0.572
	PMB-0244	10.4	0.43	17.5	3.8	0.217
	PMB-0285	14.3	2.11	48.3	92.2	1.911

	PMB-0286	13.2	1.29	89.3	33.9	0.380
	<i>Mean</i>	14.5	0.93	39.2	26.4	0.606
LTMF	PHA-0155	28.2	1.09	19.0	14.7	0.772
	PHA-0432	8.6	0.63	20.6	13.7	0.668
	PHA-0471	12.0	1.85	524.5	177.4	0.338
	PHA-0483	9.5	0.26	5.5	1.4	0.256
	PHA-0683	14.3	0.69	7.8	3.7	0.474
	PMB-0220	8.3	0.54	4.3	1.0	0.228
	PMB-0222	20.0	0.57	7.3	0.6	0.079
	PMB-0244	7.0	0.31	10.3	3.1	0.300
	PMB-0285	11.0	1.26	23.3	34.0	1.462
	PMB-0286	11.7	1.53	269.5	127.0	0.471
	<i>Mean</i>	13.0	0.87	89.2	37.7	0.505
	<i>LSD genotype</i>	4.1	0.43	133.8	63.7	

Table 2. S. Mean values and mean comparison of the variables studied in greenhouse under water stress.

Strain	Genotype	SDW	RDW	NN	NDW	MNDW
SLL2	PHA-0155	20.0	0.80	52.3	29.0	0.554
	PHA-0432	3.2	0.36	16.5	4.9	0.296
	PHA-0471	6.3	0.71	53.5	11.5	0.215
	PHA-0483	5.4	0.62	33.3	64.0	1.924
	PHA-0683	4.4	0.46	47.5	18.4	0.387
	PMB-0220	5.4	0.62	32.8	30.1	0.920
	PMB-0222	5.9	0.62	37.0	33.9	0.915
	PMB-0244	4.7	0.56	32.3	11.0	0.341
	PMB-0285	3.8	0.78	65.3	54.6	0.836
	PMB-0286	4.1	0.46	23.8	8.4	0.355
	<i>Mean</i>	6.3	0.60	39.4	26.6	0.674
CIAT899	PHA-0155	10.7	0.70	18.5	8.4	0.452
	PHA-0432	7.5	0.44	40.3	23.9	0.595
	PHA-0471	12.5	0.81	31.5	4.8	0.152
	PHA-0483	14.5	0.78	14.8	106.9	7.248
	PHA-0683	13.1	1.21	32.0	33.3	1.041
	PMB-0220	20.9	0.78	6.8	4.2	0.615
	PMB-0222	10.5	0.89	50.8	118.6	2.338
	PMB-0244	9.9	0.56	5.0	2.0	0.406
	PMB-0285	11.2	0.71	3.5	0.9	0.254
	PMB-0286	10.2	0.69	15.3	6.0	0.393
	<i>Mean</i>	12.1	0.76	21.8	30.9	1.349
CFN42	PHA-0155	7.1	0.77	11.3	8.3	0.739
	PHA-0432	6.8	0.68	1.0	0.0	0.010
	PHA-0471	11.6	0.82	30.3	12.4	0.409
	PHA-0483	7.8	0.89	19.5	4.9	0.251
	PHA-0683	4.8	0.88	50.3	56.0	1.115
	PMB-0220	6.8	0.68	8.5	7.0	0.827
	PMB-0222	8.8	0.66	27.5	18.5	0.671
	PMB-0244	5.8	0.55	10.8	0.0	0.000
	PMB-0285	7.8	0.37	43.0	115.9	2.695
	PMB-0286	6.8	0.66	70.0	103.0	1.472
	<i>Mean</i>	7.4	0.69	27.7	32.6	0.819

EXIC	PHA-0155	3.3	0.35	11.3	2.9	0.258
	PHA-0432	4.1	0.40	0.5	0.0	0.000
	PHA-0471	5.0	0.42	37.8	6.2	0.165
	PHA-0483	4.1	0.71	19.0	92.4	4.863
	PHA-0683	5.8	0.49	33.5	6.3	0.187
	PMB-0220	6.6	1.20	44.8	165.6	3.701
	PMB-0222	4.2	0.22	11.0	6.6	0.602
	PMB-0244	7.5	0.45	19.0	3.4	0.178
	PMB-0285	6.2	0.56	27.5	3.2	0.115
	PMB-0286	6.8	0.48	33.0	71.9	2.178
	<i>Mean</i>	5.4	0.53	23.7	35.9	1.225
EXIB	PHA-0155	15.8	0.51	20.5	5.2	0.253
	PHA-0432	9.1	0.37	25.5	38.8	1.520
	PHA-0471	10.9	0.43	45.0	40.9	0.908
	PHA-0483	8.5	0.33	9.5	0.0	0.000
	PHA-0683	7.2	0.41	41.0	118.0	2.878
	PMB-0220	12.3	0.47	19.5	5.1	0.259
	PMB-0222	10.2	0.52	23.3	36.5	1.568
	PMB-0244	10.4	0.50	25.5	4.2	0.165
	PMB-0285	10.8	0.45	21.5	10.1	0.471
	PMB-0286	10.8	0.44	18.3	5.2	0.283
	<i>Mean</i>	10.6	0.44	25.0	26.4	0.831
EG	PHA-0155	10.0	0.70	31.8	77.7	2.446
	PHA-0432	8.1	0.57	24.5	11.3	0.462
	PHA-0471	7.0	0.62	37.3	12.4	0.333
	PHA-0483	8.1	0.57	45.5	60.3	1.325
	PHA-0683	13.0	1.04	80.0	428.0	5.350
	PMB-0220	12.6	0.58	17.3	9.0	0.524
	PMB-0222	11.6	0.67	36.8	35.7	0.971
	PMB-0244	8.6	0.71	26.8	37.3	1.393
	PMB-0285	6.8	0.63	31.8	92.3	2.906
	PMB-0286	12.8	0.95	40.3	41.4	1.029
	<i>Mean</i>	9.9	0.70	37.2	80.8	1.674
EF	PHA-0155	6.0	0.40	12.5	9.5	0.758
	PHA-0432	8.7	0.50	13.3	5.2	0.394
	PHA-0471	7.3	0.71	35.5	39.4	1.111
	PHA-0483	5.7	0.89	10.3	36.5	3.565
	PHA-0683	12.0	0.72	26.0	19.6	0.753
	PMB-0220	5.9	0.68	14.3	28.5	2.003
	PMB-0222	6.7	1.02	17.0	48.3	2.844
	PMB-0244	4.5	0.29	6.0	4.6	0.767
	PMB-0285	7.1	0.59	36.3	176.5	4.870
	PMB-0286	7.4	0.74	17.8	125.0	7.041
	<i>Mean</i>	7.1	0.65	18.9	49.3	2.410
EPOB	PHA-0155	8.0	0.56	69.0	67.7	0.981
	PHA-0432	9.3	0.47	48.3	278.2	5.767
	PHA-0471	10.7	0.77	84.3	146.2	1.735
	PHA-0483	7.7	0.26	24.5	5.5	0.226
	PHA-0683	10.4	1.02	53.5	327.6	6.123
	PMB-0220	7.3	0.39	27.8	6.5	0.236
	PMB-0222	11.1	1.01	13.5	16.5	1.221

APAFI	PMB-0244	9.2	0.43	52.5	78.8	1.502
	PMB-0285	11.5	0.91	28.5	96.2	3.374
	PMB-0286	7.7	0.51	18.0	46.4	2.577
	Mean	9.3	0.63	42.0	107.0	2.374
	PHA-0155	13.2	0.52	21.5	29.7	1.380
	PHA-0432	11.2	0.48	12.3	4.3	0.354
	PHA-0471	20.0	0.66	36.8	32.4	0.881
	PHA-0483	10.1	0.44	13.8	5.1	0.369
	PHA-0683	9.7	0.30	21.8	20.7	0.950
	PMB-0220	9.4	0.40	11.8	20.4	1.734
LTMF	PMB-0222	7.1	0.25	5.8	2.2	0.390
	PMB-0244	8.7	0.38	7.8	2.5	0.326
	PMB-0285	12.0	0.45	5.3	2.8	0.530
	PMB-0286	8.9	0.40	5.8	5.2	0.896
	Mean	11.0	0.43	14.2	12.5	0.781
	PHA-0155	3.5	0.39	28.0	8.3	0.296
	PHA-0432	7.5	0.78	17.5	0.0	0.000
	PHA-0471	4.4	0.98	83.3	42.7	0.513
	PHA-0483	4.8	0.64	37.8	37.7	0.999
	PHA-0683	3.8	0.59	50.5	216.2	4.282
LTMF	PMB-0220	3.5	0.55	65.3	21.4	0.327
	PMB-0222	4.9	0.48	39.0	17.4	0.445
	PMB-0244	11.4	1.24	49.5	68.6	1.387
	PMB-0285	4.5	0.53	47.0	13.0	0.277
	PMB-0286	4.8	0.84	82.0	58.2	0.709
	Mean	5.3	0.70	50.0	48.4	0.924
	LSD genotype	2.7	0.11	11.9	60.4	

Table 3. S. Mean values and mean comparison of the variables studied in field without water stress.

Strain	Genotype	SDW	NN	NDW	MNDW	100SW	SDM	PNSDW	NSDW	PNSDW	NSDW
SLI2	PHA-0155	50.0	19.0	8.6	0.453	42.6	31.6	2.29	1.14	3.67	1.15
	PHA-0432	22.8	7.3	4.2	0.569	35.1	12.4	2.88	0.66	3.45	0.43
	PHA-0471	46.9	36.8	15.4	0.419	16.4	42.8	3.05	1.42	3.96	1.67
	PHA-0483	35.4	9.0	9.5	1.053	21.7	33.2	3.26	1.13	3.35	1.12
	PHA-0683	48.2	6.7	6.2	0.934	35.6	47.3	2.75	1.35	3.57	1.69
	PMB-0220	49.1	30.7	17.9	0.584	43.9	59.5	2.98	1.47	3.68	2.20
	PMB-0222	39.3	8.7	9.0	1.038	44.4	32.4	2.84	1.11	3.89	1.22
	PMB-0244	29.3	4.2	6.3	1.516	40.5	23.6	2.75	0.81	4.12	1.00
	PMB-0285	59.7	10.8	9.6	0.886	12.0	35.7	3.27	1.90	3.98	1.42
	PMB-0286	49.0	54.2	30.7	0.566	16.1	48.7	3.08	1.51	3.59	1.75
CIAT899	Mean	43.0	18.7	11.7	0.802	30.8	36.7	2.92	1.25	3.73	1.37
	PHA-0155	45.3	107.0	43.4	0.406	49.6	58.0	2.61	1.18	3.68	2.06
	PHA-0432	17.4	12.5	12.1	0.970	41.9	24.7	3.60	0.62	3.97	0.99
	PHA-0471	48.5	29.2	26.7	0.916	22.6	96.3	3.35	1.63	3.96	3.83
	PHA-0483	14.7	7.5	8.3	1.100	13.5	33.5	3.90	0.58	3.81	1.26
	PHA-0683	25.2	26.0	18.4	0.708	48.0	58.2	3.93	1.00	3.41	1.97
	PMB-0220	21.0	50.8	24.6	0.484	25.8	34.0	3.19	0.65	3.84	1.31
	PMB-0222	43.9	14.2	14.9	1.050	32.4	38.2	3.35	1.48	3.81	1.47
	PMB-0244	15.7	37.7	4.6	0.121	64.9	31.2	3.09	0.48	3.81	1.19
	PMB-0285	39.1	47.5	24.5	0.515	16.2	34.6	3.25	1.26	3.99	1.37
CFN42	PMB-0286	32.3	45.8	14.8	0.324	18.5	64.0	3.55	1.14	3.66	2.33
	Mean	30.3	37.8	19.2	0.659	33.3	47.3	3.38	1.00	3.79	1.78
	PHA-0155	36.3	73.5	25.6	0.348	57.8	45.9	2.56	0.94	3.47	1.54
	PHA-0432	19.5	34.3	15.8	0.461	31.8	19.2	3.78	0.74	4.18	0.79

	PHA-0471	30.6	40.5	28.2	0.695	19.7	73.1	3.46	1.06	4.07	2.95
	PHA-0483	18.1	14.5	14.0	0.963	28.4	40.2	3.62	0.66	3.56	1.44
	PHA-0683	21.2	76.0	27.9	0.368	29.2	47.8	3.74	0.96	3.48	1.67
	PMB-0220	29.6	19.2	30.3	1.582	29.1	36.5	3.34	0.97	4.16	1.58
	PMB-0222	35.4	31.7	33.8	1.068	26.9	46.0	3.20	1.11	3.70	1.70
	PMB-0244	14.0	45.3	4.6	0.101	37.3	19.8	3.13	0.44	3.70	0.73
	PMB-0285	37.4	90.8	60.2	0.663	10.9	31.5	3.38	1.27	4.04	1.27
	PMB-0286	30.2	88.3	63.6	0.720	17.4	53.4	3.35	1.01	3.72	1.98
	Mean	27.2	51.4	30.4	0.697	28.8	41.3	3.36	0.91	3.81	1.56
EXIC	PHA-0155	40.9	40.2	11.3	0.281	37.2	47.2	2.51	1.03	3.68	1.74
	PHA-0432	23.0	23.3	4.6	0.198	54.7	35.0	3.32	0.75	3.83	1.38
	PHA-0471	50.1	8.7	5.4	0.625	16.0	36.0	2.86	1.45	4.28	1.55
	PHA-0483	14.0	46.7	9.0	0.192	34.6	43.0	3.51	0.49	3.65	1.60
	PHA-0683	25.1	26.5	13.4	0.505	26.6	46.7	3.47	0.87	3.62	1.69
	PMB-0220	27.6	12.8	11.8	0.917	25.3	46.2	3.28	0.91	3.88	1.77
	PMB-0222	30.8	47.0	17.3	0.367	38.6	46.8	3.07	0.95	3.93	1.84
	PMB-0244	18.3	19.2	2.9	0.151	38.0	21.3	3.05	0.56	4.23	0.90
	PMB-0285	38.4	53.1	22.9	0.430	17.3	44.6	3.22	1.24	3.88	1.71
	PMB-0286	40.4	49.3	14.8	0.300	23.1	74.2	3.18	1.29	3.89	2.88
	Mean	30.9	32.7	11.3	0.397	31.1	44.1	3.15	0.95	3.89	1.71
	PHA-0155	31.4	58.7	16.6	0.282	47.5	33.4	2.61	0.82	3.59	1.20
	PHA-0432	20.5	31.5	19.4	0.614	52.3	17.7	3.66	0.75	3.83	0.68
	PHA-0471	42.6	12.8	9.1	0.708	15.0	52.3	3.55	1.51	4.05	2.11
	PHA-0483	17.6	23.2	16.9	0.728	25.7	42.1	3.07	0.55	3.69	1.55
	PHA-0683	36.8	21.5	18.3	0.851	50.2	27.2	3.17	1.16	3.24	0.88
	PMB-0220	33.8	18.2	21.2	1.168	30.5	50.3	3.32	1.13	3.92	1.97
	PMB-0222	41.7	24.5	17.4	0.709	38.4	49.5	3.01	1.25	3.48	1.71
	PMB-0244	16.1	13.7	4.5	0.327	41.1	15.3	3.14	0.50	4.14	0.63
	PMB-0285	51.3	21.8	15.5	0.709	16.5	54.4	3.27	1.68	3.93	2.15
	PMB-0286	37.5	64.7	26.6	0.412	15.0	52.3	3.21	1.20	3.80	1.98
	Mean	32.9	29.1	16.5	0.651	33.2	39.4	3.20	1.06	3.77	1.49
	PHA-0155	32.9	24.7	17.8	0.722	46.2	35.6	2.83	0.93	3.33	1.18
	PHA-0432	12.6	12.5	5.2	0.416	29.1	11.2	3.20	0.39	3.72	0.42
	PHA-0471	69.0	7.5	9.8	1.311	19.5	39.6	3.13	2.21	4.07	1.61
	PHA-0483	9.7	28.3	12.4	0.439	37.3	54.1	3.42	0.33	3.56	1.89
	PHA-0683	43.2	13.3	6.3	0.471	41.0	48.3	3.71	1.59	3.54	1.71
	PMB-0220	39.9	29.2	14.0	0.478	35.7	43.7	3.02	1.24	3.74	1.64
	PMB-0222	40.6	35.5	18.2	0.514	34.9	62.4	3.16	1.28	3.69	2.31
	PMB-0244	29.7	12.0	8.4	0.696	35.3	21.4	2.94	0.87	3.90	0.87
	PMB-0285	43.2	80.7	63.1	0.782	14.5	23.8	3.06	1.31	4.01	0.96
	PMB-0286	49.2	11.8	9.4	0.795	24.5	69.2	3.29	1.62	3.88	2.68
	Mean	37.0	25.6	16.5	0.662	31.8	40.9	3.18	1.18	3.74	1.53
	PHA-0155	47.5	8.7	6.8	0.779	47.3	41.5	2.71	1.31	3.33	1.38
	PHA-0432	15.7	7.3	5.2	0.714	35.6	11.7	3.16	0.48	3.48	0.43
	PHA-0471	56.7	6.3	8.1	1.280	15.2	62.1	3.28	1.85	4.14	2.59
	PHA-0483	16.6	6.3	5.5	0.874	24.5	18.7	3.44	0.56	3.84	0.71
	PHA-0683	35.8	20.7	15.1	0.731	41.8	47.3	3.19	1.12	3.33	1.61
	PMB-0220	39.7	6.7	11.4	1.705	35.0	39.1	2.95	1.18	3.53	1.37
	PMB-0222	38.8	119.8	49.0	0.408	48.4	76.1	2.97	1.15	3.41	2.60
	PMB-0244	17.9	18.8	5.4	0.285	33.0	17.0	2.95	0.53	3.89	0.66
	PMB-0285	23.3	57.7	76.2	1.321	22.2	55.9	3.19	0.74	4.13	2.27
	PMB-0286	34.8	36.7	12.4	0.338	13.6	30.5	3.04	1.06	3.93	1.23
	Mean	32.7	28.9	19.0	0.843	31.7	40.0	3.09	1.00	3.70	1.48
	PHA-0155	35.4	13.8	5.9	0.423	67.4	50.2	2.44	0.86	3.40	1.73
	PHA-0432	18.9	6.8	4.0	0.581	43.6	20.8	3.37	0.63	3.85	0.80
	PHA-0471	45.9	11.2	5.1	0.457	21.1	61.8	3.15	1.44	4.15	2.57
	PHA-0483	13.7	6.5	9.2	1.411	44.4	27.7	3.07	0.42	3.18	0.90
	PHA-0683	28.7	12.5	10.4	0.830	41.3	46.5	3.47	1.00	3.70	1.72
	PMB-0220	41.4	10.0	9.8	0.982	37.1	43.2	3.09	1.28	3.95	1.71
	PMB-0222	55.5	23.7	22.9	0.966	40.1	20.0	3.09	1.71	3.59	2.86
	PMB-0244	28.6	3.2	3.0	0.953	33.3	20.9	3.16	0.90	3.61	0.76
	PMB-0285	55.5	9.8	10.4	1.055	16.7	57.2	2.90	1.60	4.01	2.28
	PMB-0286	40.3	70.2	39.6	0.565	35.6	64.9	2.98	1.20	3.83	2.49

	Mean	36.4	16.8	12.0	0.822	37.1	47.3	3.07	1.10	3.73	1.78
APAFI	PHA-0155	48.5	27.0	17.2	0.638	42.6	55.3	2.24	1.09	3.46	1.92
	PHA-0432	34.2	21.0	2.5	0.118	25.1	19.4	3.47	1.20	3.90	0.76
	PHA-0471	57.3	5.0	5.6	1.112	14.9	49.5	3.28	1.88	4.28	2.10
	PHA-0483	11.5	11.8	6.1	0.518	16.8	17.1	3.42	0.39	3.41	0.59
	PHA-0683	32.8	38.7	6.0	0.155	31.3	37.2	3.35	1.08	3.43	1.31
	PMB-0220	48.7	16.3	7.1	0.432	37.7	44.1	2.91	1.41	3.81	1.67
	PMB-0222	39.2	15.5	16.0	1.030	28.5	46.4	3.15	1.24	3.65	1.70
	PMB-0244	13.7	3.2	3.7	1.177	52.5	22.7	2.80	0.38	3.44	0.78
	PMB-0285	49.7	61.7	41.5	0.673	19.6	51.1	2.82	1.40	4.04	2.06
	PMB-0286	43.8	51.5	33.0	0.640	20.4	42.6	2.99	1.32	3.76	1.60
	Mean	37.9	25.2	13.9	0.649	28.9	38.6	3.04	1.14	3.72	1.45
LTMF	PHA-0155	49.2	39.7	18.2	0.458	38.7	40.5	2.30	1.14	3.66	1.45
	PHA-0432	17.7	24.0	13.0	0.541	35.9	18.2	3.07	0.54	3.78	0.69
	PHA-0471	73.9	10.0	11.0	1.095	16.3	56.4	3.03	2.26	4.02	2.27
	PHA-0483	35.9	29.0	15.5	0.535	23.1	20.8	3.18	1.11	3.49	0.74
	PHA-0683	41.9	10.7	6.7	0.631	33.3	46.5	2.90	1.22	3.57	1.67
	PMB-0220	61.7	31.5	20.8	0.661	34.3	49.6	2.72	1.67	3.69	1.83
	PMB-0222	51.1	80.3	75.0	0.933	40.7	11.7	2.77	1.41	3.72	0.44
	PMB-0244	40.4	4.0	1.4	0.345	15.5	8.70	2.81	1.14	3.69	0.33
	PMB-0285	70.9	18.8	20.1	1.069	14.9	50.1	2.96	2.11	3.84	1.92
	PMB-0286	24.4	122.7	94.1	0.767	18.9	19.3	2.77	0.67	3.70	0.72
	Mean	46.7	37.1	27.6	0.703	27.1	32.2	2.85	1.33	3.72	1.20
CC	PHA-0155	52.4	20.3	19.3	0.950	24.0	32.9	2.41	1.25	3.68	1.21
	PHA-0432	23.0	18.5	7.7	0.417	19.6	9.75	3.10	0.72	3.41	0.34
	PHA-0471	22.1	14.8	9.6	0.646	8.32	21.0	2.99	0.68	4.03	0.85
	PHA-0483	13.2	17.2	18.3	1.063	15.9	22.2	3.47	0.46	3.03	0.67
	PHA-0683	19.4	19.2	13.2	0.688	22.9	30.1	3.62	0.69	3.52	1.07
	PMB-0220	20.7	34.5	25.1	0.727	21.2	26.3	3.09	0.65	3.85	1.02
	PMB-0222	21.3	45.2	29.4	0.650	26.3	37.5	3.13	0.66	3.76	1.41
	PMB-0244	18.0	5.3	4.4	0.831	20.3	10.1	3.31	0.59	3.76	0.37
	PMB-0285	32.4	15.5	14.2	0.916	9.60	27.5	3.34	1.07	3.95	1.09
	PMB-0286	21.3	27.0	29.9	1.106	13.7	27.9	3.35	0.71	3.55	1.01
	Mean	24.4	21.8	17.1	0.799	18.2	24.5	3.18	0.75	3.65	0.90
CN	PHA-0155	32.1	16.5	4.6	0.276	55.0	42.3	2.81	0.91	3.50	1.48
	PHA-0432	14.1	14.5	8.3	0.569	53.9	30.7	3.79	0.54	3.90	1.20
	PHA-0471	45.0	18.8	4.4	0.231	22.3	62.5	3.19	1.44	4.01	2.50
	PHA-0483	17.2	16.8	17.7	1.050	47.0	58.7	3.96	0.68	3.84	2.31
	PHA-0683	28.5	22.3	7.2	0.322	49.0	74.7	3.16	0.90	3.44	2.57
	PMB-0220	18.8	12.7	11.0	0.870	50.6	77.6	3.75	0.71	4.03	3.11
	PMB-0222	25.0	14.3	6.2	0.429	69.0	55.2	3.24	0.81	3.66	2.02
	PMB-0244	18.9	42.7	63.0	1.476	67.6	46.7	3.03	0.59	3.56	1.66
	PMB-0285	69.1	24.0	8.9	0.369	24.4	24.6	3.28	2.25	3.98	0.98
	PMB-0286	41.7	60.7	37.5	0.618	35.4	75.5	3.36	1.39	3.85	2.89
	Mean	31.0	24.3	16.4	0.621	47.4	54.9	3.36	1.02	3.77	2.07
LSD geno- type		4.2	20.4	11.8		5.03	9.15	0.14	0.14	0.15	0.34
LSD strain		4.6				5.51	10.0	0.16	0.15	0.16	0.38

Table 4. S. Mean values and mean comparison of the variables studied in field under water stress.

Strain	Genotype	SDW	NN	NDW	MNDW	100SW	SDM	PNSDW	NSDW	PNSDW	NSDW
SLL2	PHA-0155	28.5	19.8	8.4	0.421	45.1	21.3	2.07	0.59	3.00	0.64
	PHA-0432	15.9	80.5	24.2	0.301	46.8	13.5	2.65	0.44	3.67	0.50
	PHA-0471	35.9	18.8	10.1	0.535	17.6	31.7	2.75	0.99	3.44	1.10
	PHA-0483	13.0	25.0	7.9	0.315	18.6	18.4	2.26	0.29	3.02	0.52
	PHA-0683	18.8	55.0	15.5	0.282	36.7	14.5	2.27	0.43	3.22	0.48
	PMB-0220	10.8	31.3	15.2	0.485	20.2	13.8	3.23	0.30	4.48	0.57
	PMB-0222	13.7	69.8	30.3	0.434	50.4	31.6	2.94	0.23	3.50	1.11
	PMB-0244	19.6	35.8	4.6	0.128	38.3	10.2	2.49	0.49	3.65	0.37
	PMB-0285	27.7	77.3	23.1	0.299	17.1	21.7	2.65	0.73	3.84	0.82
	PMB-0286	32.2	60.3	43.7	0.725	18.1	20.6	2.59	0.83	3.64	0.75

	Mean	21.6	47.4	18.3	0.392	30.9	19.7	2.59	0.53	3.55	0.69
CIAT899	PHA-0155	19.1	9.67	10.8	1.112	33.9	18.8	2.09	0.38	3.14	0.60
	PHA-0432	10.3	27.0	2.7	0.100	24.5	9.18	2.72	0.28	3.48	0.31
	PHA-0471	28.7	22.0	7.3	0.330	12.3	18.3	2.77	0.79	3.85	0.71
	PHA-0483	8.0	14.3	1.4	0.098	17.4	9.75	2.62	0.21	3.09	0.30
	PHA-0683	13.5	42.0	4.1	0.097	23.4	12.1	2.74	0.37	3.49	0.42
	PMB-0220	12.2	25.5	10.5	0.412	19.7	15.3	2.41	0.29	3.87	0.59
	PMB-0222	14.9	112.8	79.6	0.705	35.0	28.6	2.37	0.35	3.55	1.02
	PMB-0244	7.4	18.0	15.0	0.833	24.0	3.05	2.09	0.15	3.77	0.12
	PMB-0285	20.8	156.2	94.6	0.606	12.3	24.8	2.76	0.57	3.89	0.87
	PMB-0286	13.7	37.2	10.4	0.280	12.3	23.1	2.90	0.40	3.66	0.87
	Mean	14.8	46.5	23.6	0.457	21.5	16.3	2.55	0.38	3.58	0.58
CFN42	PHA-0155	20.7	101.8	114.4	1.123	29.3	13.2	2.40	0.49	3.32	0.44
	PHA-0432	12.8	22.5	5.2	0.232	24.5	9.05	2.64	0.34	3.75	0.35
	PHA-0471	24.0	33.3	11.7	0.350	9.61	46.3	2.91	0.70	3.89	1.80
	PHA-0483	8.5	30.3	2.7	0.087	23.1	17.6	2.63	0.23	3.09	0.54
	PHA-0683	15.0	63.0	18.4	0.292	28.0	25.7	2.74	0.41	3.30	0.85
	PMB-0220	14.8	99.0	130.6	1.319	17.9	22.2	2.77	0.41	3.82	0.84
	PMB-0222	15.8	82.0	15.1	0.184	59.9	30.9	2.23	0.35	3.47	1.08
	PMB-0244	9.8	13.3	12.4	0.926	31.3	6.41	2.52	0.25	4.02	0.26
	PMB-0285	34.3	30.0	10.3	0.344	17.1	20.8	2.77	0.96	3.70	0.76
	PMB-0286	19.6	82.7	47.8	0.579	12.0	16.5	2.86	0.57	3.66	0.61
	Mean	17.6	55.8	36.9	0.544	25.3	20.9	2.65	0.47	3.60	0.75
EXIC	PHA-0155	23.7	13.5	15.0	1.109	32.9	15.5	1.99	0.46	3.05	0.47
	PHA-0432	12.6	65.7	24.6	0.375	28.5	11.4	2.67	0.33	4.04	0.47
	PHA-0471	24.2	78.5	71.9	0.915	11.6	25.7	2.74	0.65	3.74	0.96
	PHA-0483	9.3	11.0	6.3	0.570	18.4	10.9	2.64	0.24	3.29	0.35
	PHA-0683	15.6	159.7	30.1	0.188	30.6	27.7	2.69	0.41	3.43	0.94
	PMB-0220	17.3	55.3	33.2	0.599	21.4	20.0	2.73	0.47	3.75	0.72
	PMB-0222	23.9	45.8	16.1	0.352	49.7	42.3	2.89	0.69	3.37	1.44
	PMB-0244	14.7	26.8	5.7	0.211	30.2	10.5	2.42	0.36	3.54	0.37
	PMB-0285	16.9	93.3	72.8	0.780	9.03	16.9	2.69	0.48	3.42	0.59
	PMB-0286	30.6	107.2	50.3	0.470	9.43	20.0	2.88	0.88	3.58	0.71
	Mean	18.9	65.7	32.6	0.557	24.2	20.1	2.63	0.50	3.52	0.70
EXIB	PHA-0155	28.0	45.3	31.5	0.696	33.1	15.7	2.49	0.70	3.18	0.50
	PHA-0432	12.1	41.7	3.28	0.079	30.3	10.1	2.70	0.33	3.89	0.39
	PHA-0471	25.3	35.8	9.3	0.260	12.8	19.1	2.66	0.67	3.71	0.71
	PHA-0483	12.7	21.3	4.5	0.212	25.8	13.7	2.44	0.31	3.06	0.42
	PHA-0683	11.5	243.0	161.1	0.663	28.8	21.0	2.48	0.29	3.33	0.73
	PMB-0220	20.3	48.8	19.0	0.388	25.8	10.9	2.82	0.57	3.75	0.41
	PMB-0222	22.3	82.0	36.7	0.447	38.0	22.7	2.90	0.65	3.62	0.82
	PMB-0244	12.4	11.0	3.6	0.325	26.8	8.95	2.43	0.30	3.75	0.34
	PMB-0285	32.9	92.7	27.8	0.300	11.1	19.0	2.76	0.91	3.71	0.70
	PMB-0286	24.6	76.3	18.5	0.242	16.1	23.5	2.52	0.63	3.57	0.84
	Mean	20.2	69.8	31.5	0.361	24.9	16.5	2.62	0.53	3.56	0.59
EG	PHA-0155	21.5	22.8	9.8	0.431	40.1	17.7	2.44	0.53	3.00	0.54
	PHA-0432	8.7	89.7	24.9	0.278	24.5	13.8	2.88	0.25	4.05	0.55
	PHA-0471	22.5	41.0	21.9	0.534	13.2	30.7	2.73	0.61	3.65	1.12
	PHA-0483	5.6	16.8	5.5	0.329	17.8	15.7	2.61	0.14	3.21	0.51
	PHA-0683	13.9	65.7	6.6	0.100	41.1	20.6	2.71	0.38	3.20	0.65
	PMB-0220	19.3	32.8	8.7	0.265	22.8	23.3	2.98	0.60	3.70	0.86
	PMB-0222	24.9	16.5	4.1	0.250	28.4	21.1	2.71	0.66	3.50	0.74
	PMB-0244	13.6	48.8	4.8	0.098	12.7	3.97	2.66	0.36	3.41	0.13
	PMB-0285	31.6	71.2	25.3	0.355	14.4	16.2	2.87	0.91	3.59	0.58
	PMB-0286	35.7	68.2	26.2	0.384	13.7	28.2	3.01	1.07	3.52	0.99
	Mean	19.7	47.4	13.8	0.302	22.9	19.1	2.76	0.55	3.48	0.67
EF	PHA-0155	22.5	37.7	29.4	0.781	41.9	15.9	2.39	0.54	3.15	0.51
	PHA-0432	7.5	66.0	20.5	0.310	47.4	24.5	2.78	0.20	3.77	0.69
	PHA-0471	30.7	51.2	22.2	0.434	14.6	29.1	2.82	0.86	3.70	1.07
	PHA-0483	7.4	20.8	3.3	0.159	15.1	7.66	2.80	0.21	3.37	0.26
	PHA-0683	17.7	117.0	54.9	0.469	32.5	17.0	2.61	0.43	3.38	0.59
	PMB-0220	29.0	71.0	101.5	1.429	38.0	41.9	2.57	0.75	3.86	1.62
	PMB-0222	32.2	26.2	35.9	1.371	47.7	37.4	3.06	0.98	3.64	1.38

	PMB-0244	9.5	8.5	5.5	0.649	24.5	4.56	2.57	0.24	3.96	0.18
	PMB-0285	13.5	56.2	27.6	0.490	12.8	21.4	2.82	0.37	3.76	0.81
	PMB-0286	22.8	56.5	34.1	0.604	15.2	26.2	3.08	0.69	3.89	0.99
	Mean	19.3	51.1	33.5	0.670	29.0	22.6	2.75	0.53	3.65	0.81
EPOB	PHA-0155	24.6	66.0	58.4	0.885	40.5	22.5	2.47	0.60	3.43	0.77
	PHA-0432	12.9	36.0	9.7	0.269	32.7	8.64	2.72	0.35	3.97	0.34
	PHA-0471	22.9	18.2	12.2	0.673	9.43	19.1	2.80	0.64	3.98	0.75
	PHA-0483	8.5	46.2	27.9	0.604	30.2	15.1	2.60	0.22	3.08	0.46
	PHA-0683	15.5	49.3	5.9	0.119	47.6	21.4	2.44	0.38	3.37	0.71
	PMB-0220	18.5	22.8	8.1	0.355	14.7	10.3	2.88	0.54	4.00	0.41
	PMB-0222	28.1	38.2	4.1	0.106	43.3	23.6	2.77	0.78	3.98	0.92
	PMB-0244	10.1	35.0	3.0	0.0086	41.8	9.57	2.56	0.26	3.78	0.56
	PMB-0285	30.1	119.7	76.8	0.642	18.5	33.2	2.58	0.78	3.82	1.27
	PMB-0286	32.9	72.0	63.6	0.884	17.6	23.7	2.71	0.89	3.73	0.89
	Mean	20.4	50.3	27.0	0.462	29.6	18.7	2.65	0.54	3.71	0.71
APAFI	PHA-0155	36.4	20.7	16.1	0.780	37.0	15.1	2.06	0.75	3.00	0.46
	PHA-0432	15.4	26.5	8.4	0.317	50.0	20.8	2.81	0.43	3.86	0.80
	PHA-0471	36.4	42.2	15.5	0.368	12.7	22.7	2.69	0.98	3.91	0.87
	PHA-0483	10.1	20.3	15.6	0.769	24.3	15.3	2.52	0.26	3.09	0.47
	PHA-0683	14.8	156.7	101.1	0.633	38.5	27.5	2.66	0.39	3.32	0.91
	PMB-0220	22.9	25.8	17.5	0.676	33.9	32.4	3.09	0.72	3.82	1.23
	PMB-0222	17.5	78.7	20.0	0.254	24.8	26.5	2.49	0.43	3.57	0.95
	PMB-0244	12.7	56.8	15.1	0.265	36.0	12.6	2.40	0.30	3.79	0.48
	PMB-0285	36.9	78.2	50.6	0.647	12.3	16.5	2.72	1.00	3.77	0.63
	PMB-0286	31.3	97.7	63.3	0.648	21.1	45.2	2.57	0.80	3.57	1.61
	Mean	23.4	60.7	32.3	0.536	29.1	23.5	2.60	0.61	3.57	0.84
LTMF	PHA-0155	39.0	56.7	30.5	0.539	22.7	15.7	2.19	0.85	3.27	0.51
	PHA-0432	13.2	18.0	2.2	0.124	21.7	12.0	2.77	0.36	3.61	0.43
	PHA-0471	41.5	35.7	18.1	0.506	14.5	31.0	2.57	1.06	3.76	1.17
	PHA-0483	10.4	17.0	13.6	0.801	30.8	25.4	2.46	0.26	2.83	0.72
	PHA-0683	22.9	65.0	15.4	0.236	46.3	20.1	2.41	0.55	3.35	0.68
	PMB-0220	29.7	32.7	15.6	0.478	39.4	52.9	2.93	0.85	3.74	1.97
	PMB-0222	20.4	73.8	46.6	0.631	55.8	30.0	3.09	0.63	3.74	1.11
	PMB-0244	17.1	14.6	1.2	0.084	47.3	9.54	2.49	0.42	3.72	0.36
	PMB-0285	42.7	98.0	38.7	0.395	21.5	34.0	2.74	1.17	3.77	1.29
	PMB-0286	13.2	46.0	31.4	0.682	14.3	23.3	3.38	0.41	4.13	0.99
	Mean	25.0	45.7	21.3	0.448	31.5	25.4	2.70	0.66	3.59	0.92
CC	PHA-0155	21.0	100.0	65.7	0.657	34.8	21.0	2.43	0.52	3.47	0.73
	PHA-0432	5.1	83.2	19.0	0.229	31.0	9.41	2.65	0.14	3.76	0.36
	PHA-0471	10.0	25.0	12.2	0.488	14.5	24.3	3.12	0.32	3.89	0.95
	PHA-0483	5.8	60.7	11.0	0.181	26.8	20.6	2.62	0.15	3.18	0.67
	PHA-0683	6.9	73.3	13.9	0.190	41.4	20.9	2.72	0.19	3.45	0.72
	PMB-0220	17.0	46.8	47.0	1.003	19.4	14.3	2.26	0.38	4.05	0.58
	PMB-0222	11.8	55.8	31.8	0.569	30.3	17.6	2.34	0.27	3.50	0.62
	PMB-0244	6.2	34.5	2.9	0.083	31.4	5.60	2.38	0.15	3.80	0.21
	PMB-0285	15.2	73.2	26.3	0.360	17.7	21.9	2.78	0.43	3.55	0.79
	PMB-0286	11.6	108.7	86.3	0.794	12.5	17.1	2.50	0.29	3.45	0.59
	Mean	11.1	66.1	31.6	0.455	26.0	17.3	2.58	0.28	3.61	0.62
CN	PHA-0155	16.7	9.5	4.1	0.435	28.9	8.42	2.33	0.39	3.12	0.27
	PHA-0432	9.0	22.2	2.4	0.107	22.9	13.3	2.73	0.24	4.40	0.60
	PHA-0471	16.4	23.5	8.5	0.361	14.2	30.9	3.03	0.49	3.77	1.16
	PHA-0483	7.3	6.0	0.6	0.092	24.6	20.4	2.64	0.19	3.47	0.74
	PHA-0683	15.9	91.2	43.7	0.479	24.8	19.9	2.75	0.44	3.73	0.73
	PMB-0220	7.3	32.7	13.0	0.397	25.8	12.4	2.63	0.19	3.90	0.48
	PMB-0222	14.6	78.3	19.8	0.253	23.5	15.7	2.85	0.42	3.98	0.61
	PMB-0244	8.0	15.5	5.0	0.321	19.5	7.96	2.43	0.19	4.05	0.32
	PMB-0285	10.6	101.5	71.7	0.706	12.9	26.2	2.64	0.27	4.20	1.10
	PMB-0286	14.8	89.0	76.6	0.861	14.4	28.4	2.83	0.41	3.78	1.10
	Mean	12.1	46.9	24.5	0.401	21.1	23.4	2.69	0.32	3.84	0.71
LSD geno- type		2.3	29.9	21.4		4.88	5.72	0.15	0.07	0.15	0.22
LSD strain		2.6				5.35	6.27	0.15	0.07	0.16	0.24

