Table 1 Suppl. False discovery rate-corrected P values for cDNAs encoding sucrose synthase, invertase, and sucrose transporters in abscission zones of cassava analyzed by microarray. FDR-corrected P values $< 1\mathrm{e}^{-6}$ are shown as 0.

	Genes	T2/T1	T3/T1	T4/T1	T5/T1	T6/T1
Sucrose synthase	*MeSus1*	0.173194046	0.01039	0.00045	0	0.00017
	MeSus2	0.237301383	0.00156	0	0	0.0000
	MeSus3	0.447379948	0.57021	0.02653	7.9E-05	0.00941
	MeSus4	0.06918985	0.16873	0.19433	0.00117	0.02712
	MeSus5	0.115244314	0.21957	0.21839	0.0021	0.05159
	MeSus6	0.493764815	0.38949	0.04105	0.00036	0.00131
	MeSus7	0.685237467	0.028531792	0	0	0
Sucrose transporters	*MeSut1*	0.251826355	1.3483	0.62665	0.9637	0.0873
	MeSut2	0.34377938	1.7362	0.65567	0.9951	0.0829
	MeSut3	0.190681371	2.0535	0.61326	0.9394	0.0409
	MeSut4	0.251826355	1.5625	0.11828	0.6124	0.53049
	MeSut5	0.155714553	0.7752	0.09275	0.7522	0.00152
	MeSut6	0.635322483	0.9878	0.60359	0.9511	0.13595
	MeSut7	0.500307809	0.9011	0.58223	0.953	0.04333
	MeSut8	0.121076342	1.728	0.62665	0.9528	0.3607
	MeSut9	0.007376184	1.8179	0.57021	1.1233	0.4887
Invertase	*MeInv1*	0	0	0	0	0
	MeInv2	0.685237467	0.2314	0.03192	8.5E-06	0.01537
	MeInv3	0.6852374667	0.50721	0.38338	0.00403	0.4166
	MeInv4	0	0	0	0	0
	MeInv5	0.359315223	0.30653	0.0341	0.00026	0.00826
	MeInv6	0.563532946	0.65567	0.59399	0.00507	0.4887
	MeInv7	0.311202776	0.6947	0.13758	0.0002	0.00597
	MeInv8	0.264831417	0.00617	0	0	0

Table 2 Suppl. Primers used for real time-qPCR analysis.

Genes	ID	Primers	Sequences
Sus1	cassava4.1_001840m	forward	GGATTTATGAAAGGTACACATGGA
		reverse	GAAAGCTCAAGTTATTCGTTACAG
Sus2	cassava4.1_002238m	forward	TTGTGCAGCCTGCCTTTTATGAAG
		reverse	GAGTCATTGTAGCTCAATGTTGGTC
Inv1	cassava4.1_002913m	forward	CCTTCTGTGGCAGTTCACGTTGGC
		reverse	TAGTCAGTAGATAGTTCAGGCAGCA
Inv3	cassava4.1_003155m	forward	TTGGCAGCTGACAGTTGCGTGCATA
		reverse	AATAGCTCTGGCAGCAATTTCAGGT
Sut5	cassava4.1_006194m	forward	GTGATTCCACAGGTGATTGTGTCAC
		reverse	TATCTTGTTGGTGAGGAAGCAGTCT

Table 3 Suppl. Correlation analyses between sucrose-related gene expressions and sucrose content in cassava abscission zones measured in well-watered plants (T1) and water stress at different time points (T2 - T6).

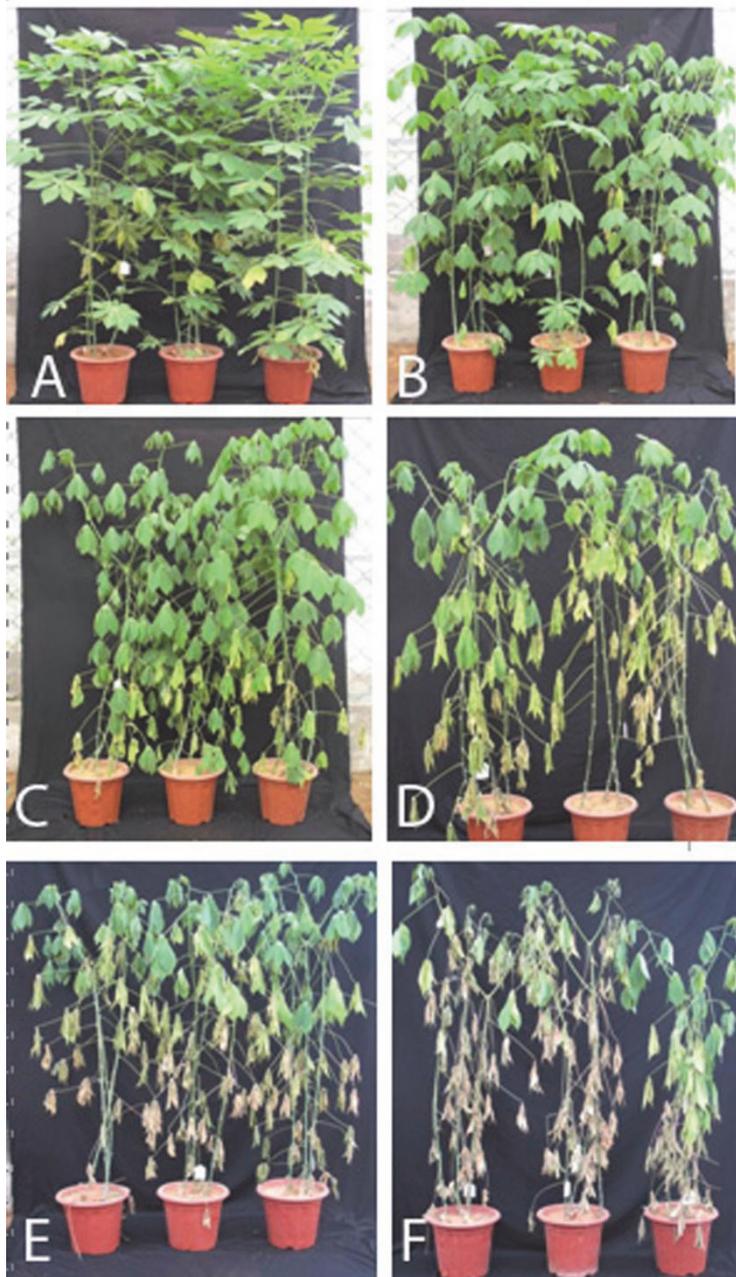| Sucrose-related genes							Sucrose content						R^2
Names	T1	T2	T3	T4	T5	T6	T1	T2	T3	T4	T5	T6	
SUS1	1	1.8464	2.6302	3.4786	4.5976	4.5772	0	-0.57	-0.25	-0.44	-1.38	-1.65	-0.8709
SUS2	1	1.7128	2.8591	3.8391	4.6061	4.8409	1	0.6736	0.8409	0.7371	0.3842	0.3186	-0.8289
SUS3	1	1.3053	1.1587	1.6658	1.6085	1.772							-0.8161
SUS4	1	0.6098	0.7482	0.8089	0.7886	0.7138							0.4300
SUS5	1	0.6075	0.7614	0.8091	0.8235	0.7005							0.4091
SUS6	1	0.8305	0.7962	0.6257	0.6016	0.4151							0.8754
SUS7	1	1.0202	2.2622	3.6363	3.9246	4.703							-0.7985
SUT1	1	1.3483	0.9637	0.8926	1.1569	1.2765							-0.5994
SUT2	1	1.7362	0.9951	0.9515	1.1663	1.3923							-0.3855
SUT3	1	2.0535	0.9394	1.3943	1.0522	1.5547							-0.2287
SUT4	1	1.5625	0.6124	0.6351	0.6654	1.0028							0.0175
SUT5	1	0.7752	0.7522	0.7485	0.5847	0.6476							0.8362
SUT6	1	0.9878	0.9511	0.89	0.7659	0.827							0.8593
SUT7	1	0.9011	0.953	0.8882	0.7533	0.8088							0.9283
SUT8	1	1.728	0.9528	1.0571	0.9203	0.854							0.2739
SUT9	1	1.8179	1.1233	1.1907	1.1011	1.0452							0.1197
INV1	1	2.2235	1.7327	2.4104	1.8047	3.6385							-0.7375
INV2	1	0.8467	0.7862	0.7983	0.8944	0.8744							0.1461
INV3	1	1.6101	1.7656	2.1737	2.3664	2.6833							-0.8942
INV4	1	0.9347	0.9929	0.9885	0.9827	1.0635							-0.3674
INV5	1	0.662	0.8329	1.0693	0.7477	1.0141							0.1601
INV8	1	0.6675	1.0573	1.0401	0.5893	0.8389							0.6672
INV9	1	0.8586	0.9148	0.984	1.0824	0.9316							-0.1772
INV10	1	0.7156	0.8401	0.8829	0.9517	0.8545							0.1576
INV11	1	1.0847	1.3344	1.2834	1.489	1.4469							-0.7867

Fig. 1 Suppl. Leaf shapes observed in six time-points under water-deficit stress. *A* - T1 time-point - well watered. *B* to *F* - water stress at different time-points: T2 (*B*), T3 (*C*), T4 (*D*), T5 (*E*), and T6 (*F*).