

**Table S1.** List of primers used for qPCR analysis. *VvMSA* = Maturation, Stress, ABA; *VvHT1* = Hexose Transporter 1; *VvHT5* = Hexose Transporter 5; *VvRS* = Raffinose Synthase.

Gene target		Primer sequence (5'-3')	Accession
<i>VvHT5</i> <sup>[7]</sup>	F	CTTTCCATGCTTTGCCATTT	Vitvi05g00468
	R	ACCAATGCTTCTTCCACACC	
<i>VvHT1</i> <sup>[35]</sup>	F	TCAACGATGGTTCTTACAGC	Vitvi10g00358
	R	AACCGATAGTATTGTATTCTG	
<i>VvINV</i> <sup>[42]</sup>	F	GCAGCAGAAATGGGGTTGAA	Vitvi04g00094
	R	AGGTATCGGTTTCAGGCACA	
<i>VvMSA</i> <sup>[43]</sup>	F	GCATGTGTGCTTGTGTGTAA	Vitvi18g02973
	R	TCACAAGGACACACAGAGAGA	
<i>VvRS</i>	F	CTCTCCCGGGGAAATCTGTT	Vitvi14g01717
	R	GATCTTGGTTTCTCGGCTGC	

**Table S2.** Results of statistical analysis performed separately for each sugar.

	Glucose	Fructose	Sucrose	Raffinose
Oct 22nd	<i>c</i>	<i>d</i>	<i>b</i>	<i>bcd</i>
Nov 11th	<i>c</i>	<i>cd</i>	<i>b</i>	<i>ab</i>
Nov 25th	<i>c</i>	<i>d</i>	<i>b</i>	<i>bcd</i>
Dec 15th	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>
Dec 29th	<i>ab</i>	<i>ab</i>	<i>ab</i>	<i>abc</i>
Jan 9th	<i>bc</i>	<i>abc</i>	<i>b</i>	<i>d</i>
Jan 23rd	<i>c</i>	<i>bcd</i>	<i>b</i>	<i>d</i>
Feb 11th	<i>bc</i>	<i>bc</i>	<i>ab</i>	<i>bcd</i>
Feb 25th	<i>c</i>	<i>bcd</i>	<i>b</i>	<i>cd</i>
Mar 10th	<i>c</i>	<i>bcd</i>	<i>ab</i>	<i>cd</i>