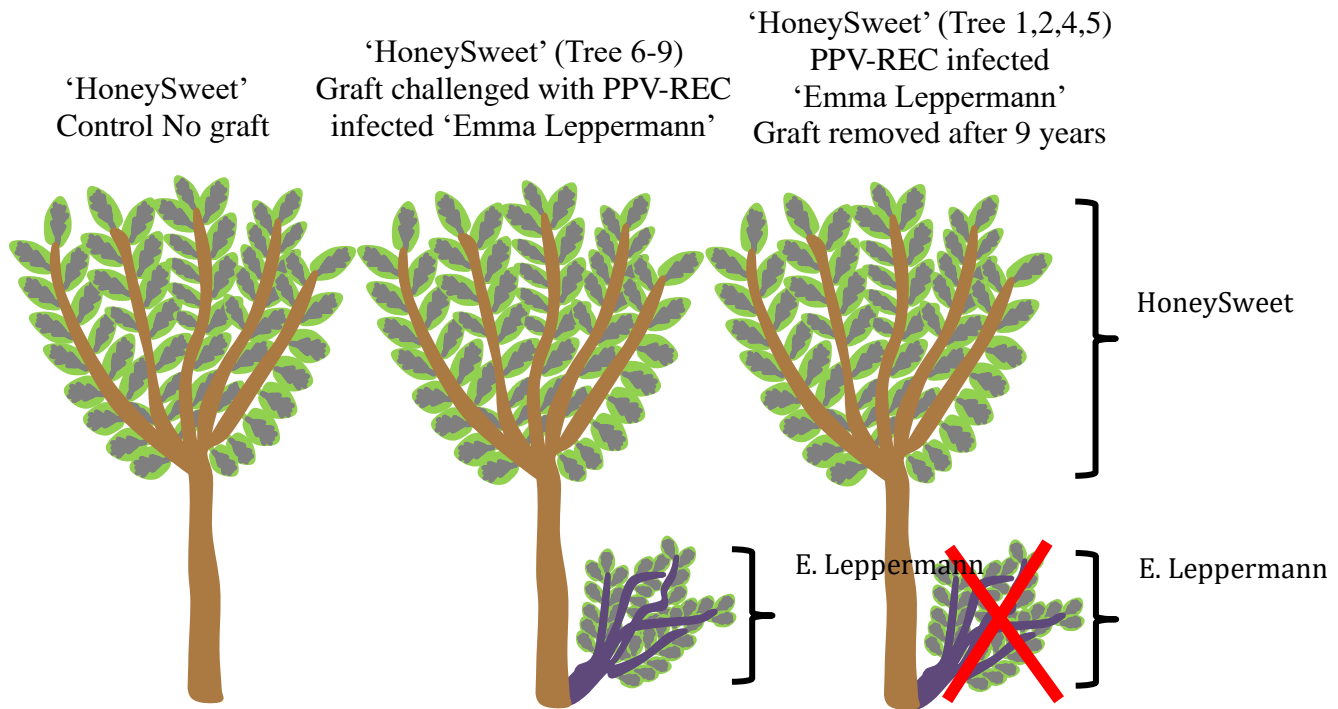


Supplementary Figure 1. 'Honeysweet' fruit



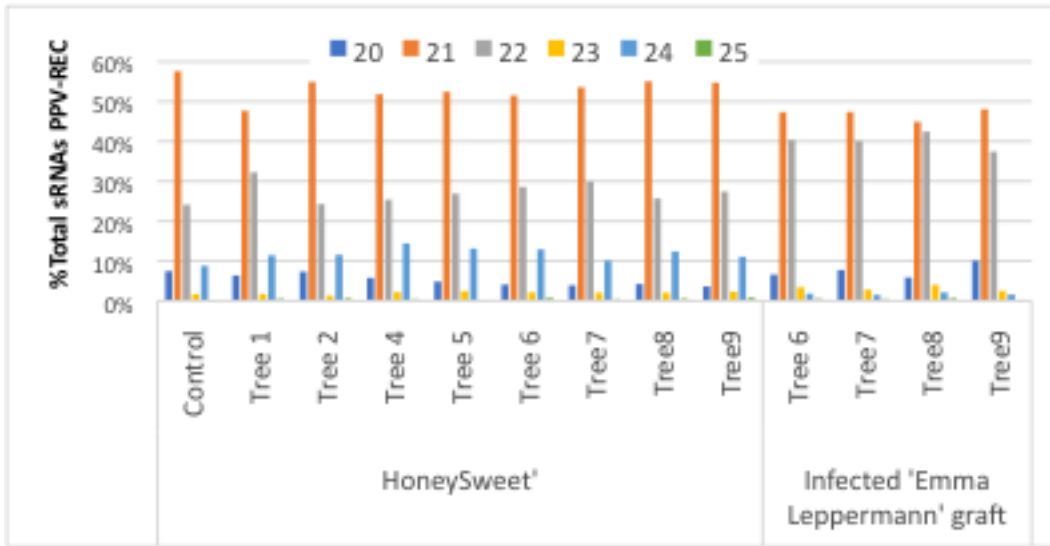
Supplementary Figure 2. PPV-REC graft inoculated ‘HoneySweet’ tree experiment. ‘HoneySweet’ trees were inoculated with a graft bud of ‘Emma Leppermann’ infected with PPV strain REC. The graft was removed from half of the trees 9 years later. Visual symptoms of PPV infection on ‘Emma Leppermann’ are not easily detected, yet PCR tests were positive in the first year on while the ‘HoneySweet’ scion were always negative.



‘HoneySweet’ exhibiting the ‘Emma Leppermann’ graft in the lower part of the

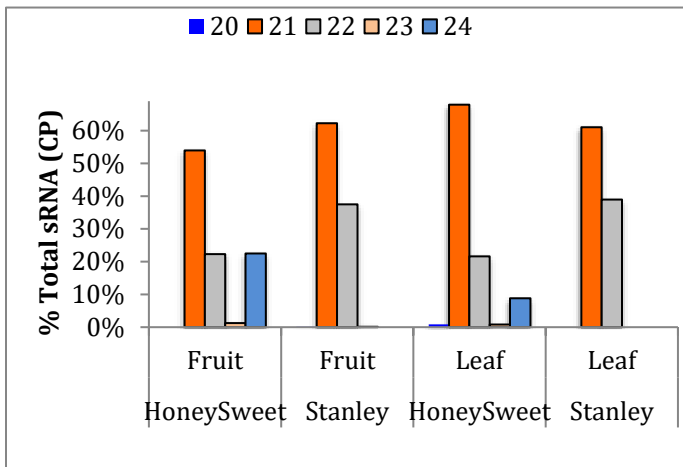
‘HoneySweet’ tree where the graft has been removed

Supplementary Figure 3. Distribution of sRNA sizes in multi-location trees and graft infected trees.

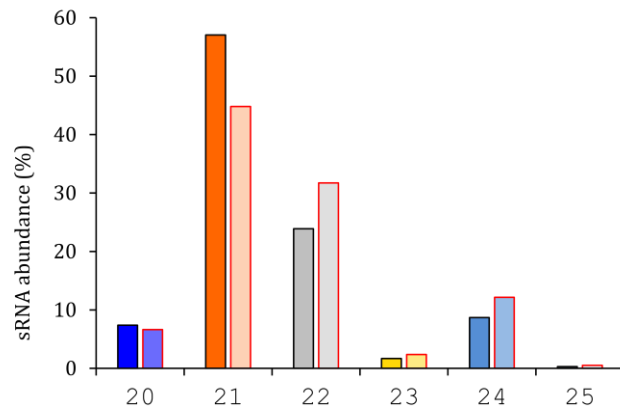


A. Size distribution in 7 individual 'HoneySweet' trees exposed to PPV-REC and control as well as 4 PPV-REC infected 'Emma Leppermann' grafts.

B. Size distribution in 'HoneySweet' and naturally infected 'Stanley' fruit and leaf from multi-locations



C. Size distribution in 'HoneySweet' leaf from control (full color) and graft challenged (lighter).



Supplementary Figure 4. PPV-CP comparison between PPV-D (D00298) and PPV-REC (JQ794501).

D00298	1		GUCCAGACGUUGUUGUGG	18
JQ794501	8701	GAUAUCUUGAAGCAUUUUACAUGAUUAUGAUGAUAGCCUUGACUCCAACAUGUUUAUA-		8759
			* * * * *	
D00298	19	CACCAAGCUGACGAAAGAGAGGACGAGGAGGAAGUUGAUGCAGGCAAGCCGAUUGUAGUU		78
JQ794501	8760	CACCAGGCUGAUGAAAAGGAGGACGAUGAAGAAGUCGAUGCAGGAAAACCCACUGUAGUA		8819

D00298	79	ACUGCACCGGCAGCAACUAGCCCAAUACUUAACCACCUCAGUCAUACAGCCUGCACCC		138
JQ794501	8820	ACUGCACCGGCAGCAACUGUGGCAACAACUCAACCAGCUCAGUGAUACAACCUGCAAUU		8879

D00298	139	CGGACUACGGCGCCAAUGCUCACCCCAUUUUCACGCCAGCAACAACUCAACCAGCAACA		198
JQ794501	8880	CAAACCACAACACCAAUGUUAACCCCAUUUUCACUCCAGCAACAACUCAGCCUGCGAUA		8939
		* * * * *		
D00298	199	AAACCAGUUUCACAGGUGCCAGGACCUCAACUGCAAACUUUUGGAACAUAUGGUAUUGAG		258
JQ794501	8940	AGACCAGUUUCUCCAUUUUCAGGGGCCACACCCGCAGUCUUUUGGAGUUUAUGGAAAUGAG		8999
		* * * * *		
D00298	259	GAUGCAUCACCUAGCAACUCAAACGCGCUAGUCAACACAAACAGAGACAGGGACGUCGAU		318
JQ794501	9000	GAUGCAUCACCUAGCACCUCAAACACUUUGGUGAACACAGGAAGGGAUAGGGACGUCGAU		9059

D00298	319	GCAGGAUCAAUUGGAACUUUACAGUGCCACGUUUGAAGGCAAUGACUUCGAAACUAUCU		378
JQ794501	9060	GCAGGAUCGAUUGGAACUUUCGAGUGCCACGCUUAAAAACAUGACAUCGAAGUUAUCU		9119

D00298	379	CUGCCAAAGGUGAAGGGAAAGGCUAUAUAUGAACUUGAACCAUUUGGCACAUUAUGUCCU		438
JQ794501	9120	CUACCGAAGGUGAAAGGAAAAGCAAUAUAUGAACUUAUAUCAUUUGGCACAGUACAGUCCU		9179
		* * * * *		
D00298	439	GCACAGGUUGACUUGUCAAAACACGAGAGCUCGCGAGUCUUGUUCCAAACUUGGUAUGAA		498
JQ794501	9180	GCACAAGUUGAUUUUAUCAAAACACGAGCUCACAAUCCUGUUUCCAGACUUGGUAUGAA		9239

D00298	499	GGAGUUUAGCGAGAUUAUGAUGUCACGGACGAUGAAAUGAGCAUCAUUUUAAAUGGUCUU		558
JQ794501	9240	GGAGUUUAGCGUGAUUACGAUGUCACAGAUGAGGAAAUGAGCAUCAUUUUUGAAUGCCUG		9299

D00298	559	AUGGUUUGGUGCAUAGAGAAUGGAACAUCGCCGAAUAUCAUUGGAAUGUGGGUGAUGAUG		618
JQ794501	9300	AUGGUUUGGUGCAUUGAAAACGGAACGUCUCCUAACAUCAACGGAUUGUGGGUGAUGAUG		9359

D00298	619	GAUGGGGAAACACAAGUGGAGCAUCCAAUAAAAGCCAUUGUUGGAUCAUGCGAAACCCACU		678
JQ794501	9360	GAUGGGGAAACACAAGUGGAGUAUCCAAUAAAAGCCAUUGUUGGAUCACGCGAAACCCACU		9419

D00298	679	UUUAGACGAAUUGUGGCACGUUUCAGCGACGUGGCCGAAGCGUGUGGAAAAACGAAAU		738
JQ794501	9420	UUUAGACAAAUAUGGCACAUUUCAGUAACGUGGCUGAAGCGUAUAUUGAAAAACGAAU		9479

D00298	739	UACGAAAAAGCAUACAUGCCAAGGUAUGGAAUUCAGCGCAACCUGACAGACUACAGCCUC		798
JQ794501	9480	UACGAGAAAGCAUACAUGCCAAGGUAUGGAAUUCAGCGCAACCUGACAGAUUACAGCCUC		9539

D00298	799	GCCAGAUUAGCCUUUGAUUUUUACGAAAUGACUUAACGACACCCGUACGGGCACGUGAA		858
JQ794501	9540	GCCAGAUUAGCCUUUGAUUUUUACGAAAUGACUUAACAACGCCUGUGCGUGCACGUGAA		9599

D00298	859	GCUCAUAUCCAGAUGAAGGCAGCAGCAUUGAGAAAUGUUCAAAAUCGUUUUAUUUGGCUUG		918
JQ794501	9600	GCUCAUAUACAGAUGAAGGCAGCAGCAUUGAGAAAUGUUCAGAAUCGUUUUAUUUGGCUUG		9659

D00298 919 GAUGGAAACGUCGGAACACAGAAGCAGGACACAGAGAGACACACGGAUGGUGAUGUAAU 978
JQ794501 9660 GAUGGAAACGUCGGAACACAAGAAGAGGACACAGAGAGACACACCGCUGGUGACGUGAAU 9719
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D00298 979 CGCAACAUGCACACCUUCCUCGGUGUGAGGGGAGUGUAGUGGUCUCGGUAUCUAUCAUAA 1038
JQ794501 9720 CGCAACAUGCACAACCUCCUCGGUGUGAGGGGAGUGUAGUGGUCUCGGUAUCUAUCAUAA 9779
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D00298 1039 ACUCUACCGUG-UGAGAGUCUAAUCAUCCAGUUG-UUUUAGAUUCCUGUUAGCAUCCUUU 1096
JQ794501 9780 ACUCUACUUGGGUGAGAGUCUAGUCACCCAAUUGGUUUUAGAUUCCUGUUAGCAUCCUUU 9839
***** ** ***** ** ** ** *****

D00298 1097 UCUCCGCUUUAAUAGCAGUACAUCAGUGAGGUUUUACCUCCAUAUGUUCUAGUCUGUUA 1156
JQ794501 9840 UCUCCGCUUUAAUUGCGGCACAUCAGUGAGGUUGUACCUCCACAUGUGUUAGUCUUUUA 9899
***** ** * ***** ***** ** ***** **

D00298 1157 UUGUCGAACACAGGCCCUUGUAUCUGAUGUAGCGAGUGCUCCACUUCUUCGGGUUAUAG 1216
JQ794501 9900 UUGUCGAACACAGGCCCUUGUAUCUGAUGUAGCGAGUGUUUCACUCCAUCUUCGGGUUAUAG 9959
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D00298 1217 UUCUUGUGCAAGAGAC 1232
JQ794501 9960 UUCUUGUGCAAGAGAC 9975
