

SUPPLEMENTARY DATA

Fig. S1. Histogram showing the density in three populations (BP, BH and GB) of *P. virginiana* as trees per m². Shared letters above columns indicate that the averages are not significantly different.

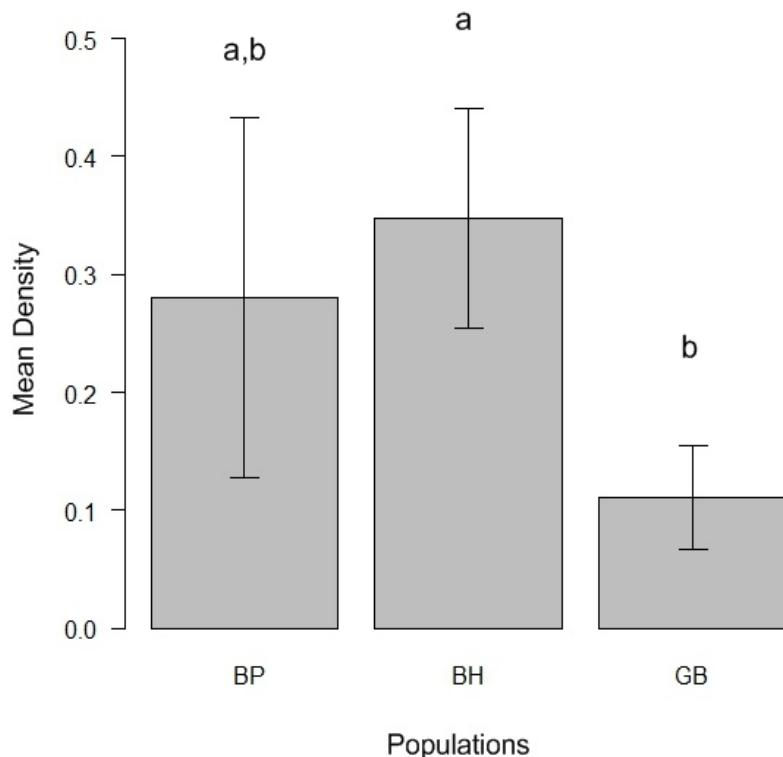


Table S1. AIC values for model comparison.

Response Variable	Fixed Effects	d.f.	AIC	BIC
Open Fruit Set	Population and Year	6	293.58	308.97
	Population	5	275.19	288.01
Pollen Limitation	Population and Year	6	36.583	50.567
	Population	5	34.674	46.327

Table S2. Microsatellite primer names, sequences, repeat motifs, annealing temperatures (T_m °C) and size ranges (base pairs) previously reported and found in two populations of *P. virginiana*.

Table S3. Number and position of conservative and non-conservative amino acid changes in 22 S-alleles found in *Prunus virginiana*, compared to the most similar (lowest E-value) S-RNase sequence reported in other *Prunus* species. The position of the substitution is relative to the five characteristic regions of the S-alleles from Rosaceae. The comparison of protein sequences was performed in BLAST using Blastp (protein–protein BLAST) and non-redundant protein sequences.

Sequence accesion ID	Most similar S- RNase	Protein sequence accesion ID	E-value	Position conservative substitutions								Position non-conservative substitutions								Gaps			
				C2	C2- HV	HV	HV- C3	C3	C3- C4	C4	C4- C5	C5	Total	C2	C2- HV	HV	HV- C3	C3	C3- C4	C4	C4- C5	C5	Total
JQ627789	<i>P. dulcis</i> S10	CAJ77726.1	4.00E-107			1					1	2							2	2	0		
JQ627790	<i>P. speciosa</i> S34	BAF56271.1	1.00E-85		2	2		1		5		10			2	2		5	2	7	18	1(HV) 1 (C4-C5)	
JQ627791	<i>P. spinosa</i> S1	ABV02073.1	6.00E-97									0									0	0	
JQ627792	<i>P. webbii</i> S1	AAZ91359.1	8.00E-103								1	1				1	1		1	1	2	0	
JQ627793	<i>P. speciosa</i> S45- S24	BAF56280.1	4.00E-92	1	1	3	1			4		10			1	4		2	11	1	19	0	
JQ627794	<i>P. mume</i> S11	ABV71999.1	2.00E-100							1	1	2						1	1	1	2	0	
JQ627795	<i>P. dulcis</i> S63	AAT72309.1	1.00E-94							2	1	1	4					1	1	1	3	0	
JQ627796	<i>P. speciosa</i> S20	BAF56259.1	2.00E-101									0					1		1	1	2	0	
JQ627797	<i>P.</i> <i>pseudocerasus</i> S5	ABY82414.1	4.00E-95							1		1									0	0	
JQ627798	<i>P. weebii</i> Se (The sequences for Se is distinct from Sf and not associated with SC)	CAM84227.1	1.00E-94		2	1		1	1	1		6			3	4	1	2		1	11	0	
JQ627799	<i>P. dulcis</i> S16-17 and Sb (S16 diff from Sf before C2 the rest are the same aa)	CAJ77729.1	2.00E-91								1	1						1	5	6	5(C4-C5)		
JQ627800	<i>P. salicina</i> Sk (S3) incompatible (Halasz)	BAC75458.1	1.00E-97									0	1						1	2	0		
JQ627801	<i>P. speciosa</i> S09	BAF56250.1	6.00E-78	2	1		1			3	1	8			5	1	3	4	3	4	20	1 (C4-C5)	
JQ627802	<i>P. dulcis</i> Se (The sequences for Se is distinct from Sf and not associated with SC)	AAZ67031.1	2.00E-91							1	1	1			1	1	1	2	2	4	4	0	
JQ627803	<i>P. simonii</i> S1	ABY78035.1	2.00E-98	1	1	1				2		5			1	1	1	1	9	13	1(C4-C5)		
JQ627804	<i>P. domestica</i> S9	CAN90138.1	6.00E-103									0									0	0	
JQ627805	<i>P. pseudocerasus</i> S14	ADZ76511.1	5.00E-90				1	1				2						1	1	2	0		
JQ627806	<i>P. dulcis</i> S8	AAL35961	5.00E-106							1		1			1	1	1	1	10	2	0		
JQ627807	<i>P. webbii</i> S3	ABY19368.1	1.00E-85		3	3		3	2	1		12			1	2		2	1	10	17	1(HV)2(C4- C5)	
JQ627808	<i>P. speciosa</i> S23	BAF56261.1	7.00E-108									0				1			1	2	0		
JQ627809	<i>P. speciosa</i> S31	BAF56269.1	4.00E-101					1	1		1	3						5	1	6	0		
JQ627810	<i>P. speciosa</i> S06	BAF56247.1	3.00E-104	1	1						1	3			1	1				2	0		