Supplementary S2. Summary statistics and fruit-type contrasts for parasitism, additional mortality (ΔAM), and the composite metric parasitism + AM across host densities and parasitoid release densities. Values are model-based predicted percentages (± SE). Odds ratios (OR), *z*-statistics, and *p*-values correspond to peach–orange contrasts within each host density × parasitoid release density combination. For parasitism + AM, contrast statistics are reported as approximate because this metric is a composite index derived from separately modeled components and was not treated as a direct response variable in the GLMM framework.

Fruit type	Host density (hosts/cage)	Parasitoid release density (per cage)	Parasitism (%)	Parasitism SE (%)	DeltaAM (%)	DeltaAM SE (%)	Parasitism + AM (%)	Parasitism + AM SE (%)	Parasitism OR (peach/orange)	Parasitism z	Parasitism p-value	Parasitism+AM OR (peach/orange) (approx)	Parasitism+AM z (approx)	Parasitism+AM p-value (approx)
orange	200	20	12.200	0.820	0.460	1.430	12.660	1.650	1.630	1.31	2.596	0.009	2.463	5.249	<0.001
orange	200	40	12.810	0.840	2.610	1.460	15.410	1.680	1.780	1.783	5.836	<0.001	2.698	6.563	<0.001
orange	200	80	19.430	1.030	3.510	1.470	22.940	1.890	1.260	1.283	2.743	0.006	1.989	5.401	<0.001
orange	200	160	24.740	1.150	7.060	1.500	31.800	1.900	1.550	1.551	5.157	<0.001	2.261	6.986	<0.001
orange	300	20	20.450	0.920	3.840	1.260	24.290	1.560	1.050	1.054	0.664	0.507	1.693	4.342	<0.001
orange	300	40	26.530	1.040	2.570	1.240	29.100	1.620	0.925	-1.03	0.303	1.359	2.948	0.003	
orange	300	80	28.720	1.080	3.130	1.250	31.860	1.650	1.151	1.902	0.057	1.861	6.138	<0.001	
orange	300	160	29.330	1.090	9.540	1.300	38.870	1.700	1.443	5.016	<0.001	2.291	8.178	<0.001	
orange	400	20	15.600	0.730	4.480	1.160	20.080	1.370	1.218	2.578	0.010	1.566	4.129	<0.001	
orange	400	40	17.210	0.770	5.800	1.170	23.010	1.400	1.798	8.037	<0.001	2.326	8.418	<0.001	
orange	400	80	22.990	0.900	3.040	1.150	26.030	1.490	1.503	5.825	<0.001	2.441	9.122	<0.001	
orange	400	160	26.430	0.960	6.400	1.170	32.840	1.510	1.956	9.859	<0.001	3.389	12.487	<0.001	
peach	200	20	15.400	0.920	10.960	1.360	26.300	1.640	1.31	2.596	0.009	2.463	5.249	<0.001	
peach	200	40	20.750	1.070	12.200	1.380	32.950	1.740	1.783	5.836	<0.001	2.698	6.563	<0.001	
peach	200	80	23.640	1.130	13.550	1.390	37.190	1.790	1.283	2.743	0.006	1.989	5.401	<0.001	
peach	200	160	33.770	1.300	17.550	1.430	51.320	1.930	1.551	5.157	<0.001	2.261	6.986	<0.001	
peach	300	20	21.320	0.940	12.640	1.200	33.960	1.530	1.054	0.664	0.507	1.693	4.342	<0.001	
peach	300	40	25.030	1.020	10.770	1.190	35.800	1.560	0.925	-1.03	0.303	1.359	2.948	0.003	
peach	300	80	31.690	1.120	14.840	1.220	46.530	1.660	1.151	1.902	0.057	1.861	6.138	<0.001	
peach	300	160	37.460	1.190	21.840	1.260	59.300	1.740	1.443	5.016	<0.001	2.291	8.178	<0.001	
peach	400	20	18.380	0.800	9.860	1.110	28.240	1.370	1.218	2.578	0.010	1.566	4.129	<0.001	
peach	400	40	27.200	0.970	13.810	1.140	41.020	1.550	1.798	8.037	<0.001	2.326	8.418	<0.001	
peach	400	80	30.980	1.030	15.230	1.150	46.210	1.540	1.503	5.825	<0.001	2.441	9.122	<0.001	
peach	400	160	41.270	1.130	21.090	1.170	62.360	1.630	1.956	9.859	<0.001	3.389	12.487	<0.001	