

## Tables of rarefaction and extrapolation analyses.

Table S1. Sweep-net. Observed and estimated values of species richness for Bavastrelli and Garaventa.

	<b>Bavastrelli</b>	<b>Garaventa</b>
Individuals	843	694
Samples	72	72
<b>Species richness</b>		
S observed	135	120
Chao 1 - estimated	260	199
Chao 2 - estimated	273	226
ACE - estimated	255	219
ICE - estimated	271	230
Jack 1 - estimated	207	183
Jack 2 - estimated	260	227
Bootstrap - estimated	165	147

Table S2. Sweep-net. Number of the species recorded (Obs), estimated (Est.) and proportion Obs/Est expressed as a percentage (%) for Bavastrelli, Garaventa and the whole Antola site (Total).

	<b>Bavastrelli</b>			<b>Garaventa</b>			<b>Total</b>		
	<b>Obs.</b>	<b>Est.</b>	<b>%</b>	<b>Obs.</b>	<b>Est.</b>	<b>%</b>	<b>Obs.</b>	<b>Est.</b>	<b>%</b>
Chao 1	135	260	51.92	120	199	60.30	193	288	67.01
Chao 2	135	273	49.45	120	226	53.10	193	310	62.26
ACE	135	255	52.94	120	219	54.79	193	335	57.61
ICE	135	271	49.82	120	230	52.17	193	301	64.12
Jack 1	135	207	65.22	120	183	65.57	193	284	67.96
Jack 2	135	260	51.92	120	227	52.86	193	340	56.76
Bootstrap	135	165	81.82	120	147	81.63	193	233	82.83

Table S3. Sweep-net. Number of the species recorded (Obs), estimated (Est.) and proportion Obs/Est expressed as a percentage (%) after rescaling for individuals for Bavastrelli, Garaventa and the whole Antola site (Total).

	<b>Bavastrelli</b>			<b>Garaventa</b>			<b>Total</b>		
	<b>Obs.</b>	<b>Est.</b>	<b>%</b>	<b>Obs.</b>	<b>Est.</b>	<b>%</b>	<b>Obs.</b>	<b>Est.</b>	<b>%</b>
Chao 1	135	185	72.97	120	221	54.30	193	260	74.23
ACE	135	176	76.70	214	221	96.83	193	251	76.89

Table S4. Sweep-net. Estimated number of additional samples (x) and individuals (m) needed to detect a fraction g of the estimated species richness (Est).

<b>Site</b>	<b>n</b>	<b>Obs.</b>	<b>Est.</b>	<b>f<sub>1</sub></b>	<b>f<sub>2</sub></b>	<b>g = 1.0</b>		<b>g = 0.9</b>		<b>g = 0.8</b>	
						<b>x</b>	<b>m</b>	<b>x</b>	<b>m</b>	<b>x</b>	<b>m</b>
Bavastrelli	843	135	253	67	19	13	11237	3	2290	2	1259
Garaventa	694	120	120	59	22	10	6632	3	1929	1	638

Table S5. Lepidoptera. Observed and estimated and species richness values for Bavastrelli and Garaventa.

	<b>Bavastrelli</b>	<b>Garaventa</b>
Individuals	52	68
<b>Species richness</b>		
S observed	19	19
Chao 1 - estimated	24	25
ACE - estimated	24	25

Table S6. Lepidoptera. Number of the species recorded (Obs), estimated (Est.) and proportion Obs/Est expressed as a percentage (%) for Bavastrelli, Garaventa and the whole Antola site (Total).

	<b>Bavastrelli</b>			<b>Garaventa</b>			<b>Total</b>		
	<b>Obs.</b>	<b>Est.</b>	<b>%</b>	<b>Obs.</b>	<b>Est.</b>	<b>%</b>	<b>Obs.</b>	<b>Est.</b>	<b>%</b>
Chao 1	19	24	79.17	19	25	76%	29	52	55.77
ACE	19	24	79.17	19	25	76%	29	52	55.77

Table S7. Lepidoptera. Estimated number of additional samples (x) and individuals (m) needed to detect a fraction g of the estimated species richness (Est).

<b>Site</b>	<b>n</b>	<b>Obs.</b>	<b>Est.</b>	<b>f<sub>1</sub></b>	<b>f<sub>2</sub></b>	<b>g = 1.0</b>		<b>g = 0.9</b>		<b>g = 0.8</b>	
						<b>x</b>	<b>m</b>	<b>x</b>	<b>m</b>	<b>x</b>	<b>m</b>
Bavastrelli	52	19	30	8	5	3	177	1	32	0.05	3
Garaventa	68	19	25	9	4	5	362	2	107	0.80	54

Table S8. Lepidoptera. Diversity richness (Est.) for rarefied and extrapolated individual-based data respectively to the minimum and maximum individual abundance (n).

<b>Site</b>		<b>n</b>	<b>Est.</b>
Bavastrelli	Rarefaction	52	19.00
Garaventa			16.88
Bavastrelli	Extrapolation	104	23.49
Garaventa			22.33

Table S9. Pitfall-traps. Observed and estimated and species richness values for Bavastrelli and Garaventa.

	<b>Bavastrelli</b>	<b>Garaventa</b>
Individuals	234	558
Samples	25	30
<b>Species richness</b>		
S observed	33	41
Chao 1 - estimated	133	67
Chao 2 - estimated	287	64
ACE - estimated	94	67
ICE - estimated	123	76
Jack 1 - estimated	55	60
Jack 2 - estimated	75	69
Bootstrap - estimated	42	50

Table S10. Pitfall-traps. Number of the species recorded (Obs), estimated (Est.) and proportion Obs/Est expressed as a percentage (%) for Bavastrelli, Garaventa and the whole Antola site (Total).

	Bavastrelli			Garaventa			Total		
	Obs.	Est.	%	Obs.	Est.	%	Obs.	Est.	%
Chao 1	33	133	24.81	41	67	61.19	59	111	53.15
Chao 2	33	287	11.50	41	64	64.06	59	118	50.00
ACE	33	94	35.11	41	67	61.19	59	102	57.84
ICE	33	123	26.83	41	76	53.95	59	131	45.04
Jack 1	33	55	60.00	41	60	68.33	59	91	64.84
Jack 2	33	75	44.00	41	69	59.42	59	115	51.30
Bootstrap	33	42	78.57	41	50	82.00	59	72	81.94

Table S11. Pitfall-traps. Number of the species recorded (Obs), estimated (Est.) and proportion Obs/Est expressed as a percentage (%) after rescaling for individuals for Bavastrelli, Garaventa and the whole Antola site (Total).

	Bavastrelli			Garaventa			Total		
	Obs.	Est.	%	Obs.	Est.	%	Obs.	Est.	%
Chao 1	33	135	24.44	41	65	63.08	59	111	53.15
ACE	33	97	34.02	41	67	61.19	59	102	57.84

Table S12. Pitfall-traps. Estimated number of additional samples (x) and individuals (m) needed to detect a fraction g of the estimated species richness (Est).

Site	n	Obs.	Est.	f <sub>1</sub>	f <sub>2</sub>	g = 1.0		g = 0.9		g = 0.8	
						x	m	x	m	x	m
Bavastrelli	135	33	41	20	2	37	8559	10	2342	7	1531
Garaventa	558	41	49	8	4	4	2495	1	273	0	1

Table S13. Pitfall-traps. Diversity richness (Est.) for rarefied and extrapolated individual-based data respectively to the minimum and maximum individual abundance (n).

Site		n	Est.
Bavastrelli	Rarefaction	234	33
Garaventa			20,78
Bavastrelli	Extrapolation	468	51.11
Garaventa			26.09

Table S14. Pitfall-traps. Diversity richness (Est.) for rarefied and extrapolated sample-based data respectively to the minimum and maximum sample size (T).

Site		n	Est.
Bavastrelli	Rarefaction	25	33
Garaventa			37.41
Bavastrelli	Extrapolation	50	54.95
Garaventa			50.53