

# APIDAE

	Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800-1600 III = 1600-2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism Floral preferences Number of annual generations
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## Gen. *Habropoda* Smith, 1854

1	<b><i>Habropoda ezonata</i></b> Smith, 1854 <i>Sp. italicico-sud balcanica</i> Italy, Si References: CK03, CK06, CK12	Not assessed	Not assessed	1	—	
2	<b><i>Habropoda tarsata</i></b> (Spinola, 1838) <i>Sp. caucasico-europea</i> Pi, Lo, Li, V, VT, Em, To, La, Mo, Cp, Cal, Pu, Si References: C3, 63, 67, 171, 203, 205, 208, 225, 281, 329, 363, 400, 416, 481, 493, CK03, L1	I, II	Low	51	Sacrofano (La), Prima Porta (La), Roma e dintorni (6 loc.) (La), Litorale romano (2 loc.) (La), Albano Laziale (La), Monte Tuscolo (La), Dintorni di Capo Circeo (3 loc.) (La).	Melecta funeraria, ? M. obscura  Polylectic  Univoltine
3	<b><i>Habropoda zonatula</i></b> (Smith, 1854) <i>Sp. caucasico-europea</i> La, Cal, Pu, Si References: 63, 67, 225, 281, 329, 363, C12, C13, CK03	I, II	Low	26	Nepi (La), Prima Porta (La), Campagnano di Roma (La), Ardea and surround. (2 loc) (La), Ariccia (La), Civita (Cal).	Melecta o. obscura, M. funeraria

	Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800-1600 III = 1600-2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism Floral preferences Number of annual generations
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## Gen. *Anthophora* Latreille, 1803

### Subgen. *Anthophora* Latreille, 1803

1	<p><b>Anthophora canescens</b> Brullé 1832  <b>Sp. ovest-mediterranea</b>  (syn of <i>A. subterranea</i> Germar, 1826, nomen dubium)  Pi, Li, Em, Ma, La, Pu, Si, Sa  References: 7, 63, 67, 84, 86, 171, 203, 204, 212, 220, 333, 363, 416, 485, 537, C8, C12, CK03</p>	I, II	Low	21	Roma (La), Acilia (La).	
2	<p><b>Anthophora crinipes</b> Smith, 1854  <b>Sp. sud-europeo-anatolica</b>  (synonymous with <i>A. salviae</i> (Panzer 1804) nomen dubium)  = contradiction in Kuhlmann, 2015 (CK03)  Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Mo, Cp, Bas, Cal, Si, Sa  References: 7, 63, 67, 68, 171, 180, 193, 203, 208, 212, 239, 289, 333, 363, 384, 386, 400, 416, 434, 438, 442, C12, CK03, S61, L1, S75b</p>	I, II, III	Slightest	90	Angrogna (Pi), Monte Cimino (La), Montefiascone (La), Percile (2 loc.) Licenza (La), Prima Porta (La), Roma (4 loc.) (La), Colli Albani (2 loc.) (La), Palestrina (La), Napoli and surround. (Cp), Positano (Cp), Palermo (2 loc.) (Si).	<p>Melecta a. albifrons,  M. a. nigra</p> <p>Polyleptic</p> <p>Univoltine/  bivoltine in  South Europe</p>
3	<p><b>Anthophora fulvitaris</b> Brullé, 1832  <b>Sp. palearctica</b>  Si  References: 485, CK03, CK12</p>	Not assessed	High last record 1860	1	—	<p>Melecta a. albifrons,  M. a. nigra,  M. a. albovaria,  Coelioxys rufescens</p> <p>Polyleptic</p> <p>Univoltine</p>
4	<p><b>Anthophora plumipes</b> (Pallas, 1772)  <b>Sp. olartica</b>  Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Si, Sa  References: 7, 46, 52, 54, 63, 67, 94, 97, 180, 189, 193, 200, 203, 204, 212, 213, 227, 239, 285, 286, 289, 293, 333, 363, 384, 386, 400, 416, 434, 438, 452, 485, 488, 547, C12, C13, CK03, S42, S53, S61, L1, S75b</p>	I, II	Slightest	161	Novara(Pi), Sulbiate Inferiore (Lo), Morico (Ma), Perugia and surround. (4 loc.) (Um), Monte Cimino (La), Orvinio (La), Tarano (La), Santa Maria di Galeria (La), Monti Lucretili (4 loc.) (La), Palestrina (La), Gerano (La), Roma (9 loc.) (La), Litorale romano (2 loc.) (La), Colli Albani (4 loc.) (La), Torre Paola (La), Soccavo (Cp), Positano (Cp), Palermo (Si),	<p>Melecta a. albifrons,  M. a. nigra,  M. duodecimmacul.</p> <p>Polyleptic</p> <p>Univoltine</p>
	<p><b>Anthophora plumipes plumipes</b> (Pallas, 1772)  <b>Ssp. europea</b>  Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Sa  References: 54, 67, 180, 189, 200, 203, 204, 213, 227, 239, 286, 289, 293, 363, 384, 400, 416, 434, 438, 452, 547</p>	I, II			Novara(Pi), Sulbiate Inferiore (Lo), Morico (Ma), Perugia and surround. (4 loc.) (Um), Monte Cimino (La), Orvinio (La), Tarano (La), Santa Maria di Galeria (La), Monti Lucretili (4 loc.) (La), Palestrina (La), Gerano (La), Roma (9 loc.) (La), Litorale romano (2 loc.) (La), Colli Albani (4 loc.) (La), Torre Paola (La), Soccavo (Cp), Positano (Cp).	
	<p><b>Anthophora plumipes squalens</b> Dours, 1869  <b>Ssp. centro-sud-europeo-maghrebina</b>  Si  References: 54, 193, 212, 285, 333, 363, 384, 400, 416, 485, 488</p>	I, II			Palermo (Si),	<p>Melecta a. nigra,  M. duodecimmacul.</p>
5	<p><b>Anthophora senescens</b> Lepeletier, 1841</p>	I, I	Low	11	Roma (La).	

	<b>Sp. centro-asiatico-europeo-est-mediterranea</b> Lo, Em, To, La, Si References: 31, 105, 293, 333, 634, C8, CK03					
<b>Subgen. Caranthophora Brooks, 1988</b>						
6	<b>Anthophora dufourii</b> Lepeletier, 1841 <b>Sp. sud-europeo-anatolico-est-mediterranea</b> Si References: 171, CK03	Not assessed	High last record 1860	1	—	Oligoleptic Univoltine
7	<b>Anthophora pubescens</b> (Fabricius, 1781) <b>Sp. europea</b> Ao, Pi, Lo, V, VT, Em, To, Ma, Um, La References: 31, 46, 54, 67, 68, 153, 171, 205, 206, 293, 363, 386, 400, 416, CK03. CK09, S75b	I, II	Low	30	Angrogna (Pi), Monte Tezio (Um), Perugia (Um).	Coelioxys rufescens, ? Thyreus ramosus, T. orbatus Polyleptic Univoltine
<b>Subgen. Clisodon Patton, 1879</b>						
8	<b>Anthophora furcata</b> (Panzer, 1798) <b>Sp. olartica</b> Ao, Pi, Lo, V, VT, Em, To, Ma, La, Abr, Bas, Si References: 63, 67, 68, 109, 206, 212, 239, 247, 363, 400, 457, 485, C12, CK03, S90, L1	I, II, III	Low	24	Valtournenche (Ao), Angrogna (2 loc.) (Pi), Luserna San Giovanni (Pi), Villar Pellice (Pi), Ariccia (La), Pescara (Abr).	Coelioxys rufescens, C. quadridentata, C. inermis, C. alata Broadly oligoleptic Univoltine
	<b>Anthophora furcata furcata</b> (Panzer, 1798) <b>Ssp. europea</b> Ao, Pi, V, VT, Em, To, Ma, La, Abr, Bas, Si	I, II, III			Valtournenche (Ao), Angrogna (2 loc.) (Pi), Luserna San Giovanni (Pi), Villar Pellice (Pi), Ariccia (La), Pescara (Abr).	
<b>Subgen. Dasytegilla Brooks, 1988</b>						
9	<b>Anthophora quadrimaculata</b> (Panzer, 1798) <b>Sp. asiatico-europea</b> Ao, Pi, Lo, VT, Em, Si References: 31, 47, 69, 171, 217, 239, CK03, S53, S75b	I, II, III, IV	Low	13	Prali (Pi), Angrogna (Pi), Villanova-Pra (Pi), Villar Pellice (Pi).	? Coelioxys rufescens, Thyreus orbatus, T. scutellaris Polyleptic Univoltine
<b>Subgen. Heliophila Klug, 1807</b>						
10	<b>Anthophora bimaculata</b> (Panzer, 1798) <b>Sp. europeo-anatolico-maghrebina</b> Pi, Li, Lo, V, VT, Em, To, Um, La, Abr, Cp, Cal, Pu, Si References: 46, 67, 68, 171, 186, 193, 203, 204, 205, 208, 213, 225, 239, 333, 363, 400, C12, CK03, S5, S68, S75b	I, II, III	Low	38	Luserna San Giovanni (2 loc.) (Pi), Angrogna (Pi), Pratica di Mare (La), P. N. del Vesuvio (Cp).	Ammobates punctatus Polyleptic Univoltine
11	<b>Anthophora fulvodimidiata</b> Dours, 1869	I	Moderate	2	—	

	<b>Sp. sud-ovest-europea</b> Em, Si References: 208, 638, CK03					
<b>Subgen. "incertae sedis"</b>						
12	<b>Anthophora laevigata</b> Spinola, 1808 <b>Sp. italica</b> Li (uncertain presence in Italy) References: 492, CK03	I	High last record 1800	1	—	
13	<b>Anthophora unicolorata</b> Sichel, 1860 uncertain: not recognized by Brooks, 1988: type missing ? <b>Sp. Sicula?</b> Si (endemic of Sicily?) References: 171, CK03, CK12	Not assessed	High last record 1860	1	—	
<b>Subgen. Lophanthophora Brooks, 1988</b>						
14	<b>Anthophora affinis</b> Brullé, 1832 (syn. with <i>A. biciliata</i> Lepeletier, 1841, <i>A. liturata</i> Lepeletier, 1841, <i>A. asiatica</i> Morawitz, 1880, in Kuhlmann, 2015) <b>Sp. centro-asiatico-sud-europeo-anatolica</b> Um, La, Si References: C9, 333, CK03 (absent in Italy), CK06, S66	Not assessed	Low	4	M. Tezio (Um), Nazzano (La), Ariccia (La), Ardea (La).	<b>Melecta a. nigra,</b> <b>M. funeraria</b>
15	<b>Anthophora agama</b> Radoszkowski, 1869 (syn. with <i>A. kessleri</i> Fedtschenko, 1875, <i>A. caucasica</i> Rad. 1874, in Kuhlmann, 2015) <b>Sp. centro-asiatico-europea</b> La, Si References: 67, 91, 171, 193, 212, 333, CK03, S66	I, II	Moderate	11	Montefiascone (La), Albano Laziale (La).	
16	<b>Anthophora caucasica</b> Radoszkowski, 1874 (uncertain validity) (Brooks 1988 considers caucasica syn. of biciliata Lep.!!!) <b>Sp. sud-europeo-est-mediterraneo-caucasica</b> Si References: 171, 193, 333, S66	I	Moderate	4	—	
17	<b>Anthophora dispar</b> Lepeletier, 1841 <b>Sp. sud-ovest-europeo-nord-africana</b> Lo, Li, V, Em, To, Ma, Um, La, Abr, Mo, Cp, Cal, Bas, Si, Sa References: 7, 63, 67, 203, 206, 208, 285, 293, 333, 363, 384, 416, 485, C12, C13, CK03, S66, L1	I, II	Low	62	Prima Porta (La), Maccarese (La), Monte Mario (2 loc.) (La), Roma (3 loc.)(La), Ostia Antica (La), Lago di Albano (La), Torre Paola (La), Positano (Cp), Isola di Alicudi (Si).	
18	<b>Anthophora mucida</b> Gribodo, 1873 (ITIS: valid name is biciliata Lep 184 ! !) <b>Sp. centro-sud-europeo-anatolico-nord-africana</b> Ao, Pi, Lo, Vt, Em, Ma, La, Mo, Cp, Cal, Pu, Si References: C9, C12, 63, 67, 94, 171, 203, ? 239, 363, 386, 400, 416, CK06, S66, L1, S75b	I, II	Low	44	Percile (La), Roma (La), Ariccia (La), Ostia Antica (La).	<b>Melecta funeraria</b>
19	<b>Anthophora robusta</b> (Klug, 1845) <b>Sp. turanico-europea</b>	I	Moderate	1	—	<b>Melecta grandis</b>

	La References: 67, CK03, S66					
	<i>Anthophora robusta robusta</i> (Klug, 1845) <i>Ssp. europeo-anatolica</i> La	I			—	
<b>Subgen. Melea Sandhouse, 1943</b>						
20	<i>Anthophora plagiata</i> (Illiger, 1806) <i>Sp. asiatico-europea</i> Ao, Pi, V, VT, La, Si References: 67, 68, 109, 171, 206, 212, 333, CK03, S61, CK09	I, II, III	Low	19	Villanova-Pra (Pi), Prali (3 loc.) (Pi).	Thyreus orbatus, Melecta a. nigra, M. luctuosa, Coelioxys quadridentata, C. rufescens  Polylectic  Univoltine
	<i>Anthophora plagiata fulvocinerea</i> Dours, 1869 <i>Ssp. europeo-anatolica</i> Pi References: 69	II			Villanova-Pra (Pi), Prali (2 loc.) (Pi).	
	<i>Anthophora plagiata plagiata</i> (Illiger, 1806) <i>Ssp. europeo-anatolica</i> Pi References: 68	II			Villanova-Pra (Pi), Prali (3 loc.) (Pi).	Coelioxys rufescens, C. quadridentata, Melecta a. albifrons, M. luctuosa, Thyreus orbatus
<b>Subgen. Paramegilla Friese, 1897</b>						
21	<i>Anthophora balneorum</i> Lepeletier, 1841 <i>Sp. sud-ovest-mediterranea</i> Ao, Pi, VT, Ma, Si, Sa References: 54, 68, 171, 239, 333, 400, 457, CK03, S53, S61, S75b	I, II, III	Low	23	Ghigo (Pi).	Polylectic
	<i>Anthophora balneorum obesa</i> Giraud, 1863 <i>Ssp. sud-ovest-europea</i> Pi, VT, Ma, Si References: 54, 68, 171, 239, 333, 400, 457, S61	I, II			Ghigo (Pi).	
22	<i>Anthophora femorata</i> (Olivier, 1789) <i>Sp. sud-ovest-europea</i> V, To References: 109, 171, 636, CK03, CK12	I	High last record 1900	3	—	
23	<i>Anthophora ferruginea</i> Lepeletier, 1841 <i>Sp. sud-ovest-mediterranea</i> Si References: 15, 105, CK03, CK12	I	High last record 1890	2	—	
24	<i>Anthophora fulvipes</i> Eversmann, 1846 <i>Sp. asiatico-europea</i>	Not assessed	Not assessed	1	—	

	Italy References: 397, CK03					
25	<b>Anthophora larvata</b> Giraud, 1863 <b>Sp. sud-ovest-europeo-anatolica</b> Pi, Si References: 171, 195, CK03, S91 (sub <i>croceipes</i> Mor.), CK12	I	High last record 1890	4	---	
26	<b>Anthophora nigrovittata</b> Dours, 1869 [change of rank of <i>A. balneorum nigrovittata</i> ] <b>Sp. sardo-corsa</b> Sa, Corsica (F) References: 7, 210, 211, CK03, CK12	I	Moderate	3	---	
27	<b>Anthophora podagra</b> Lepeletier, 1841 <b>Sp. centro-asiatico-sudeuropeo-anatolico-maghebina</b> La, Si References: 54, 67, 171, C8, CK03	I	Moderate	5	---	
28	<b>Anthophora quadricolor</b> (Erichson, 1840) <b>Sp. sud-ovest-europea</b> La, Bas, Pu, Si References: 105, 171, 193, 333, 363, 400, CK03, L1	I, II	Low	11	Campagnano di Roma (La).	
<b>Subgen. Petalosternon Brooks, 1988</b>						
29	<b>Anthophora calcarata</b> Lepeletier, 1841 <b>Sp. sud-ovest-europeo-ovest-mediterranea</b> Li, Si References: 54, 105, CK03, CK12	Not assessed	High last record 1890	2	---	
30	<b>Anthophora crassipes</b> Lepeletier, 1841 <b>Sp. europea-medioorientale</b> Ao, Pi, VT, La, Si References: 67, 69, 171, 285, 297, 333, 363, 370, CK03, S53, S75g	I, II, III	Low	20	Luserna San Giovanni (Pi), Angrogna (Pi), Bossolasco (Pi), Roma (La).	Polylectic Univoltine
<b>Subgen. Pyganthophora Brooks, 1988</b>						
31	<b>Anthophora aestivalis</b> (Panzer, 1801) <b>Sp. europeo-anatolico-caucasica</b> Ao, Pi, Li, Lo, V, VT, Em, To, Ma, Um, La, Abr, Mo, Cp, Cal, Si References: L3, 63, 67, 109a, 180, 203, 208, 212, 225, 239, 386, 400, 416, 457, C12, C13, CK03 (absent in Italy), S53, L1, S75b	I, II, III	Slightest	66	Monti Sibillini (Ma), Monte Subasio (Um), Monte Tezio (Um), Valtopina (Um), Orvinio (La), Val di Varri (La), Percile (La), Prima Porta (La), Roma (2 loc.) (La), Ariccia (2 loc.) (La), Albano Laziale (La), Monte Tuscolo (La) Cocullo (Abr), Ovindoli (Abr).	Melecta luctuosa, ? <i>M. a. albovaria</i>  Polylectic Univoltine
32	<b>Anthophora albosignata</b> (Friese, 1886) <b>Sp. sud-europeo-nord-africana</b> Si References: 171, 333, 481, CK03	I, II	Moderate	3	---	
33	<b>Anthophora atroalba</b> Lepeletier, 1841 <b>Sp. indiano-mediterraneo-macaronesica</b> Em, To, La, Mo, Si	I, II	Low	41	Prima Porta (La), Roma (La), Albano Laziale (La), Ariccia (2 loc.) (La), Palermo (Si).	

	References: 54, 63, 105, 208, 333, 416, CK03					
34	<b>Anthophora belieri</b> Dours, 1869 <b>Sp. sicula</b> Si (endemic of Sicily - see table endemic sp./subsp.) References: 110, 171, CK03	Not assessed	High last record 1890	2	—	
35	<b>Anthophora leucophaea</b> Pérez, 1879 <b>Sp. ovest-mediterraneo-macaronesica</b> Si References: 105, CK03 (uncertain taxonomy)	Not assessed	High last record 1890	1	—	
36	<b>Anthophora orientalis</b> (Morawitz, 1878) <b>Sp. centro-asiatico-europea</b> Si References: 171, CK03	Not assessed	Not assessed	1	—	
37	<b>Anthophora pruinosa</b> Smith, 1854 <b>Sp. sicula</b> Si; (endemic of Sicily and Malta (M). See table endemic sp/ssp) References: 216, 333, 384, 488, CK03, CK12	I	Low	16	Isola Mozia (Marsala) (Si).	
38	<b>Anthophora retusa</b> (Linnaeus, 1758) <b>Sp. asiatico-europea</b> Pi, Li, Lo, V, VT, Em, To, Ma, La, Abr, Mo, Cp, Bas, Pu, Si, Sa References: 7, 46, 54, 63, 67, 69, 105, 171, 189, 191, 203, 333, 339, 363, 400, 416, 457, 507, 634, C12, CK03, S69, L1	I, II	Slightest	76	Monte Cimino (La), Tolfa (La), Maccarese (La), Prima Porta (La), Pratica di Mare (La), Castel Fusano (La), Ostia Antica (La), Castel Porziano (La), Acilia (La), Ardea (La), Roma (La), Monte Mario (La), Ariccia (3 loc.) (La), Albano Laziale (La), Monte Tuscolo (La), P.N.Circeo (La), Val Fondillo (Abr).	Melecta luctuosa, Epeolus variegatus  Polylectic  Univoltine
39	<b>Anthophora rogenhoferi</b> Morawwitz, 1872) <b>Sp. turanico-est-mediterraneo-anatolica</b> Si References: 171, CK03 (uncertain taxonomy)	Not assessed	High last record 1860	1	—	
40	<b>Anthophora romandii</b> Lepeletier, 1841 (nec Dours, 1869) <b>Sp. ovest- e est-mediterranea</b> La (confirmation for Italy is appropriate) References: 67, CK03 (absent in Italy)	I	Moderate	2	—	
41	<b>Anthophora sichelii</b> Radoszkowski, 1868 <b>Sp. centro-asiatico-sud-ovest-europea</b> La, Sa References: 7, 171, 363, 639, CK03, CK12	I, II	Low	13	Roma (La).	
42	<b>Anthophora ventrilabris</b> Lepeletier, 1841 <b>Sp.sud-ovest-europeo-maghrebina</b> Ao?, Cp, Si References: 105, 109a, 171, 333, CK03	I, II	Moderate	7	—	

	Taxon Chorotype Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800- 1600 III = 1600- 2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism  Floral preferences  Number of annual generations
<b>Gen. Amegilla Friese, 1897</b>						
<b>Subgen. Amegilla Friese, 1897</b>						
1	<b>Amegilla garrula</b> (Rossi, 1790) <b>Sp. turanico-sud-europea</b> Pi, Li, Lo, V, VT, FVG, Em, To, La, Abr, Cp, Si, Sa References: 7, 56, 63, 67, 68, 171, 180, 205, 206, 213, 333, 363, 370, 400, 416, 450, 485, C12, CK03, S4, L1	I, II	Low	51	Angrogna (2 loc.) (Pi), Villar Pellice (Pi), Luserna San Giovanni (Pi), Sauze d'Oulx (Pi), Santa Severa (La), Roma (La), Albano Laziale (La), Monte Circeo La). Camarina (Si).	Thyreus truncatus  Polylectic  Univoltine
2	<b>Amegilla ochroleuca</b> (Pérez, 1879) <b>Sp. sud- e est-europeo-anatolico-maghrebina</b> Pi, V, Em, To, Abr, Pu, Sa References: 192, 203, 212, 363, 370, CK03	I	Moderate	8	—	
3	<b>Amegilla quadrifasciata</b> (de Villers, 1789) <b>Sp. paleartico-afrotropicale</b> Li, Lo, V, VT, Em, To, Um, La, Abr, Cp, Bas, Cal, Pu, Si, Sa References: 7, 15, 54, 63, 67, 100, 103, 180, 183, 189, 193, 203, 204, 205, 206, 212, 225, 228, 239, 286, 293, 333, 363, 365, 400, 416, 485, 635, C12, C13, CK03, S69, L1	I, II	Slightest	107	Monte Tezio (Um), Montefiascone (La), Percile (La), Monte Mario (La), Roma (3 loc.) (La), Albano Laziale (La), Ariccia (La), Sabaudia (La), Camarina (Si), San Leone (Si), Isola di Favignana (Si), Isola di San Pietro (2 loc.) (Si), Isola Montorio (Si), Isola di Caprera (2 loc.) (Si), Isola dell'Asinara (Si).	Thyreus histrionicus  Polylectic  Univoltine
	<b>Amegilla quadrifasciata quadrifasciata</b> (de Villers, 1789) <b>Ssp. europea</b> Li, Lo, V, VT, Em, To, Um, La, Abr, Cp, Bas, Cal, Pu, Si, Sa	I, II			Monte Tezio (Um), Montefiascone (La), Percile (La), Monte Mario (La), Roma (3 loc.) (La), Albano Laziale (La), Ariccia (La), Sabaudia (La), Camarina (Si), San Leone (Si), Isola di Favignana (Si), Isola di San Pietro (2 loc.) (Si), Isola Montorio (Si), Isola di Caprera (2 loc.) (Si), Isola dell'Asinara (Si).	
<b>Subgen. Micramegilla Brooks, 1988</b>						
4	<b>Amegilla fasciata</b> (Fabricius, 1775) <b>Sp. sud-ovest-europea</b> V References: 109, CK03, CK12	Not assessed	High last record: 1865	1	—	
5	<b>Amegilla velocissima</b> (Fedtschenko, 1875) <b>Sp. centro-asiatico-europea</b> Si	I	Moderate	1	—	



	References: 193, CK03					
<b>Subgen. Zebramegilla Brooks, 1988</b>						
6	<b>Amegilla albigena</b> (Lepeletier, 1841) <b>Sp. palearctica</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Cal, Pu, Si, Sa References: 15, 46, 52, 54, 63, 67, 68, 94, 100, 103, 105, 171, 189, 193, 203, 204, 206, 208, 213, 225, 289, 293, 333, 363, 365, 370, 400, 416, 434, 442, 446, C12, C13, CK03, S4, L1, S75b	I, II	Slightest	95	Angrogna (2 loc.) (Pi), Luserna San Giovanni Pi), Montefiascone (La), Roma (4 loc.) (La), Albano Laziale (2 loc.) (La), Ariccia (2 loc.) (La), San Leone (Si), Camarina (Si).	Thyreus ramosus, ? T. histrionicus  Polylectic  Univoltine
7	<b>Amegilla magnilabris</b> (Morawitz, 1875) Not conspecific with <i>A. savignyi</i> (Lepeletier 1841) <b>Sp. turanico-europeo-mediterranea</b> Pi, Lo, Li, V, To, La, Mo, Si, Sa References: 7, 67, 91, 189, 206, 416, C12, CK03, L1	I	Low	12	Garlenda (Li), Percile (La), Roma (La).	? Thyreus affinis
8	<b>Amegilla salviae</b> (Morawitz, 1876) nec Panzer 1805 <b>Sp. palearctica</b> Pi, Em, La, Si References: 67, 282, CK03	I	Moderate	4	—	Thyreus affinis
9	<b>Amegilla savignyi</b> (Lepeletier, 1841) Not conspecific with <i>A. magnilabris</i> (Mor. 1875) <b>Sp. centro-asiatico-sud-europeo-mediterranea</b> Pi, V, To, La, Cp, Cal, Pu, Si, Sa References: 333, 363, 370, 400, CK03 (absent in Italy), S4	I, II	Low	31	Val di Varri (La), Ariccia (La), Monte Mario (La), Pachino (Si).	
10	<b>Amegilla talaris</b> (Pérez, 1879) (most likely syn. of <i>albigena</i> !) <b>Sp. sardo-maghebina</b> Sa References: 7	Not assessed	High last record: 1930	1	—	

	Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800- 1600 III = 1600- 2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism (hosts)  Floral preferences  Number of annual generations
<b>Gen. Melecta Latreille, 1802</b>						
<b>Subgen. Eupavlovskia Popov, 1955</b>						
1	<b>Melecta funeraria</b> (Smith, 1854) <b>Sp. caucasico-anatolico-sud-europea</b> La, Cal, Si References: 283, 284, 329, CK03	I, II	Low	9	—	Habropoda zonatula, H. tarsata, Anthophora biciliata, A. mucida
2	<b>Melecta obscura</b> (Friese, 1855) <b>Sp. turanico-sud-europeo-anatolica</b> Li, Em, To, La, Abr, Cp, Cal, Pu, Si References: 169, 205, 208, 220, 283, 284, 329, 363, CK03, S27	I, II	Low	34	Prima Porta (La), Monte Mario (2 loc.) (La), Roma (2 loc.) (La); Albano Laziale (La), Sabaudia (La).	H. zonatula, ? H. tarsata
	<b>Melecta obscura obscura</b> (Friese, 1855) <b>Ssp. appenninico-dinarica</b> Li, Em, To, La, Abr, Cp, Cal, Pu, Si References: 169, 205, 208, 220, 283, 284, 329, 363	I, II			Prima Porta (La), Monte Mario (2 loc.) (La), Roma (2 loc.) (La); Albano Laziale (La), Sabaudia (La).	Habropoda zonatula
	<b>Melecta obscura simulatrix</b> Lieftinck, 1969 <b>Sp. turanico-sud-europea</b> Si References: 283	Not assessed			—	Habropoda tarsata  Univoltine
<b>Subgen. Melecta Latreille, 1802</b>						
3	<b>Melecta aegyptiaca</b> Radoszkowski, 1876 <b>Sp. europeo-mediterraneo-macaronesica</b> La, Mo, Si References: 285, 329, 416, CK03	I	Low	5	Torre Cervara (La).	
4	<b>Melecta albifrons</b> (Foerster, 1771) <b>Sp. europeo-anatolico-caucasica</b> Pi, Li, Lo, V, VT, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si, Sa References: 7, 46, 54, 73, 98, 104, 158, 169, 180, 183, 189, 202, 204, 227, 285, 286, 289, 293, 329, 363, 384, 400, 416, 492, 537, 551, CK03, S4, S61	I, II, III	Slightest	122	Pieve Torina (Ma), Monte Tezio (Um), Prima Porta (La), Monte Mario (2 loc.) (La), Roma (2 loc.) (La), Acilia (La), Albano Laziale (La), Palestrina (La), Castelvecchio (Abr).	Anthophora plumipes, A. p. squalens, A. fulvitaris, A. biciliata, A. plagiata  Flora: varied  Univoltine

	<i>Melecta albifrons albifrons</i> (Foerster, 1771) Ssp. centro-sud-europea V, La, Cp, Cal References: 189, 204, 227, 363	I, II			—	Anthophora plumipes, A. plagiata, A. fulvitaris
	<i>Melecta albifrons albovaria</i> Erichson, 1840 Ssp. centro-sud-europeo-anatolico-caucasica Pi, VT, To, Ma References: 169, 289, 363, 537	I			—	
	<i>Melecta albifrons nigra</i> Spinola, 1806 ? Ssp. centro-sud-europea-anatolico-caucasica Pi, Li, Lo, V, VT, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si, Sa References: 7, 46, 54, 98, 104, 158, 169, 180, 183, 202, 204, 285, 286, 289, 293, 329, 363, 384, 400, 416, 492, 551	I, II, III			<i>Pieve Torina (Ma), Monte Tezio (Um), Prima Porta (La), Monte Mario (2 loc.) (La), Roma (2 loc.) (La), Acilia (La), Albano Laziale (La), Palestrina (La), Castelvecchio (Abr).</i>	Anthophora plumipes, A. p. squalens, A. fulvitaris, A. biciliata, A. plagiata
5	<i>Melecta duodecimmaculata</i> (Rossi, 1790) Sp. centro-asiatico-europeo-maghrebino-medio-orientale To, Ma, La, Cal, Pu, Si References: 15, 98, 285, 329, 363, 400, 450, 485, 537, CK03	I	Low	15	—	Anthophora plumipes
	<i>Melecta duodecimmaculata duodecimmaculata</i> (Rossi, 1790) Ssp. centroasiatico-sud-europeo-caucasico-maghrebina To, Ma, La, Cal, Pu, Si	I			—	
6	<i>Melecta festiva</i> Lieftinck, 1980 Sp. sud-europeo-est-mediterraneo-anatolica Pi, VT References: 285, CK03, CK12	I	High last record: 1886	2	—	
7	<i>Melecta grandis</i> Lepeletier, 1841 nec Pérez, 1883 Sp. sud-ovest-europeo-nord-africano-anatolica Em, Si References: 285, 634, CK03	Not assessed	Moderate	2	—	Anthophora robusta, A. hispanica (absent in Italy)
8	<i>Melecta italica</i> Radoszkowski, 1876 Sp. sud-europeo-maghrebino-est-mediterranea Li, Lo, V, Em, To, La, Mo, Cp, Bas, Cal, Pu, Si, Sa References: 285, 329, 363, 400, 416, 551, C13, CK03, S4	I, II	Low	62	Santa Maria di Galeria (La), Roma (La), Albano Laziale (La), Ariccia (La).	
9	<i>Melecta leucorhyncha</i> Gribodo, 1893 Sp. turanico-europeo-mediterraneo-anatolica Li, Em, To, Ma, La, Abr, Mo, Cp, Cal, Pu, Si, Sa References: 73, 285, 329, 416, CK03	I, II	Low	50	—	
	<i>Melecta leucorhyncha taormina</i> Strand, 1919 Ssp. tirrenico-italica Li, Em, To, Ma, La, Abr, Mo, Cp, Cal, Pu, Si, Sa References: 73, 285, 329, 416	I, II			—	

10	<b>Melecta luctuosa</b> (Scopoli, 1770) <b>Sp. asiatico-europeo-anatolico-macaronesica</b> Ao, Pi, Li, V, VT, FVG, Em, To, Ma, Um, La, Abr, Bas, Cal, Si, Sa References: 31, 46, 190, 202, 203, 206, 208, 220, 225, 285, 289, 329, 363, 400, 416, 639, CK03. CK09, S75b	I, II, III	Slightest	53	Monte Cimino (La), Monte Mario (La), Roma (La), Isola Mozia (Si).	Anthophora retusa, aestivalis, plagiata, crinipes  Flora: varied  Univoltine
11	<b>Melecta ruthenica</b> Radoszkowski, 1893 change of rank of M. luctuosa ruthenica (ssp of M. luctuosa Scopoli 1770 according with Lieftinck 1980) <b>? Sp. europeo-anatolica</b> V, Em, To, Si References: 169, 192, 203	I	Moderate	4	—	

Taxon	Altitude (Italy)	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism (hosts)
Distribution	I = 0-800				Floral preferences
Distribution of the records in Italian regions	II = 800-1600				Number of annual generations
References	III = 1600-2100				
	IV = > 2100				

### Gen. **Thyreus** Panzer, 1806

1	<b>Thyreus affinis</b> (Morawitz, 1873) <b>Sp. palearctica</b> Pi, Em, La, Pu, Si, Sa References: 63, 169, 203, 282, 329, 363, 486, CK03	I, II	Low	18	Val di Varri (La), Ariccia (La).	Amegilla salviae, ? A. magnilabris
2	<b>Thyreus hirtus</b> (Beaumont, 1939) <b>Sp. palearctica</b> Pu, ? Si References: 282, 363, CK03	I	Not assessed	2	—	
3	<b>Thyreus histrionicus</b> (Illiger, 1806) <b>Sp. palearctico-arabico</b> Pi, Li, Lo, V, VT, FVG, Em, To, La, Cp, Cal, Si, Sa References: 7, 46, 67, 68, 73, 103, 105, 169, 183, 192, 203, 208, 212, 225, 276, 282, 293, 329, 363, 365, 400, C12, CK03	I, II	Low	61	Luserna San Giovanni (Pi), Villar Pellice (Pi), Ortovero (Li), Monte Mario (La), Roma (La), Sabaudia (La), Mezzomonte (La), Isola Caprera (Sa), Isola Asinara (Sa).	Amegilla quadrifasciata, A. albigena  Flora: limited  Univoltine
4	<b>Thyreus orbatus</b> (Lepelletier, 1841) <b>Sp. europeo-mediterraneo-anatolica</b> Ao, Pi, VT, Em, Cp	I, II, III	Not assessed	14	—	Anthophora quadrimaculata, A. pubescens,

	References: 212, 282, 363, CK03. CK09, S75b					? <i>A. plagiata</i> , <i>A. borealis</i> Mor. 1864 (absent in Italy)  Flora: ?limited  Univoltine
5	<b>Thyreus picaron</b> Liefstinck, 1968 <b>Sp. centro-asiatico-europea</b> Em References: 282, CK03	I	Moderate	1	—	
6	<b>Thyreus plumatus</b> Meyer, 1921 uncertain: type missing; presence in Italy to be confirmed <b>Sp. italica ?</b> Italy References: 282	Not assessed	Not assessed	1	—	
7	<b>Thyreus ramosus</b> (Lepeletier, 1841) <b>Sp. paleartico-macaronesica</b> Ao, Pi, Li, Lo, V, VT, Em, To, Um, La, Abr, Cp, Cal, Pu, Si, Sa References: 7, 15, 46, 67, 100, 103, 105, 169, 189, 193, 203, 205, 206, 225, 228, 276, 282, 286, 305, 329, 363, 365, 400, 416, C12, CK03, S4, S69, L1	I, II	Slightest	66	Garlenda (Li), Roma (La), Frascati (La).	<i>Amegilla albigena</i> , <i>A. pubescens</i>
8	<b>Thyreus scutellaris</b> (Fabricius, 1781) <b>Sp. asiatico-lusitanico-balcan.-est-mediterr.-macaronesica</b> Li, V, VT, FVG, To, Si, Sa References: 169, 187, 204, 208, 639, CK03	I	Moderate	9	—	<i>Anthophora quadrimaculata</i>
9	<b>Thyreus tricuspis</b> (Pérez, 1883) (uncertain presence in Italy, disappeared finding) <b>Sp. italico-nord-africana</b> Si References: 105, CK03	Not assessed	High last record: 1890	1	—	
10	<b>Thyreus truncatus</b> (Pérez, 1884) <b>Sp. turanico-europeo-ovest-mediterranea</b> Li, Pu, Si References: 22, 169, 214, 282, CK03	I	Moderate	6	—	<i>Amegilla garrula</i>

	Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800-1600 III = 1600-2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism Floral preferences Number of annual generations
<b>Gen. Cubitalia Friese, 1911</b>						
<b>Subgen. Pseudeucera Tkalcu, 1978</b>						
1	<b>Cubitalia parvicornis</b> Mocsáry, 1878 <b>Sp. centro-est-europeo e est-mediterraneo-anatolica</b> Em, La References: 203, C2, CK03 (absent in Italy)	I	Moderate	2	Pratica di Mare (La) (already Comba collection).	

	Taxon Chorotype Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800-1600 III = 1600-2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism Floral preferences Number of annual generations
<b>Gen. Tarsalia Morawitz, 1895</b>						
1	<b>Tarsalia ancyloformis</b> Popov, 1935 <b>Sp. centro-asiatico-sud-europeo-anatolica</b> Sa References: 586, CK03, CK12	I	Not assessed	1	—	
	<b>Tarsalia ancyloformis mediterranea</b> Pittioni, 1950 Ssp. sud-europeo-anatolica Sa References: 586	I			—	

	Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800- 1600 III = 1600- 2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism  Floral preferences  Number of annual generations
<b>Gen. Eucera Scopoli, 1770</b>						
<b>Subgen. Eucera Scopoli, 1770</b>						
1	<b>Eucera chrysopyga</b> Pérez, 1879 (= <i>Eucera pollinosa</i> homonym Smith, 1854) <b>Sp. europeo-anatolico-caucasica</b> Lo, Li, VT, Em, To, La, Sa References: 203, 239, 289, 400, C8, CK03, L1	I	Low	9	Monte Mario (La).	Polylectic  Univoltine
2	<b>Eucera dalmatica</b> Lepeletier, 1841 <b>Sp. europeo-est-mediterraneo-maghrebina</b> La, Bas, Si, Sa References: 67, 193, 204, 206, 363, 400, 485, C8, C13, CK03, S2	I	Low	25	Via Claudia Braccianese (La), Roma (La), Ardea (La), Albano Laziale (La), Ariccia (La).	
(3)	<b>Eucera graeca</b> Radoszkowski, 1876 nomen dubium; see below proxima = <i>E. proxima</i> auct. nec Morawitz 1875, = <i>E. proxima</i> Morawitz 1875	I	Low	13	Prima Porta (La), Roma (La), Ardea (La).	
4	<b>Eucera hispaliensis</b> Pérez, 1902 <b>Sp. ovest-mediterranea</b> La References: 63, CK03 (absent in Italy)	I	Moderate	1	Prima Porta (La).	
	<b>Eucera hispaliensis hispaliensis</b> Pérez, 1902 <b>Ssp. sud-europea</b> La	I			Prima Porta (La).	
5	<b>Eucera interrupta</b> Baer, 1850 <b>Sp. palearctica</b> Ao, Pi, Lo, Li, VT, FVG, Em, To, Um, La, Mo, Cal, Si References: 47, 63, 170, 180, 203, 204, 205, 208, 218, 239, 289, 363, 370, 386, 416, CK03, S53, S76, L1, S75b	I, II	Low	32	Campagnano di Roma (La), Monte Mario (La), Roma (2 loc.) (La), Ardea (La), Albano Laziale (La), Ariccia (2 loc.) (La), Palestrina (La), Torre Paola (La).	? <i>Nomada nobilis</i> , <i>sexfasciata</i>  Oligoleptic  Univoltine
6	<b>Eucera longicornis</b> (Linnaeus, 1758) <b>Sp. asiatico-europea</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Cp, Cal, Si, Sa References: 7, 46, 54, 63, 67, 73, 170, 180, 183, 193, 203,	I, II, III	Slightest	63	Orvinio (La), Nazzano (La), Monte Mario (La), Ariccia (La), P.N. del Circeo (La), Positano (Cp).	? <i>Nomada</i> <i>sexfasciata</i>  Oligoleptic

	218, 225, 247, 272, 279, 286, 293, 300, 363, 386, 400, 416, 452, 457, 547, 634, 639, CK03, S53, S69, S76. CK09, L1, S75b					Univoltine
7	<b><i>Eucera nigrescens</i></b> Pérez, 1879 <b><i>Sp. europeo-anatolica</i></b> Ao, Pi, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si, Sa References: 7, 63, 67, 158, 203, 204, 206, 208, 216, 225, 239, 272, 300, 363, 386, 400, 416, 532, C13, CK03, S53, L1, S75b	I, II	Slightest	137	Isola del Giglio (To), Cast. d. Pescaia (To), Morico (Ma), Astorara (Ma), Perugia and surround. (7 loc.) (Um), Monte Cimino (La), Orvinio (2 loc.) (La), Tolfa (La), Rome and surr. (13 loc.) (La), Litorale romano (4 loc.) (La), Colli Albani (6 loc.) (La), Monte Tuscolo (La), Grottaferrata (La), Tivoli (La), Anticoli Corrado (La), Subiaco (La), M.ti Lucretili (5 loc.) (La), Palestrina (La), P.N. del Circeo (2 loc.) (La), Gioia Vecchio (Abr), Forca di Valle (Abr), Monte Nuovo (Cp), Positano (Cp), Punta Ceraso (Sa), Isola Alicudi (Si), Isola di Vulcano (Si).	Nomada sexfasciata  Oligoleptic  Univoltine
	<b><i>Eucera nigrescens continentis</i></b> Tkalcu, 1984 <b><i>Ssp. centro-sud-europea</i></b> Pi, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu References: 63, 67, 158, 203, 204, 208, 225, 239, 272, 300, 363, 386, 400, 416, C13	I, II			Isola del Giglio (To), Cast. d. Pescaia (To), Morico (Ma), Astorara (Ma), Perugia and surround. (7 loc.) (Um), Monte Cimino (La), Orvinio (2 loc.) (La), Tolfa (La), Rome and surr. (13 loc.) (La), Litorale romano (4 loc.) (La), Colli Albani (6 loc.) (La), Monte Tuscolo (La), Grottaferrata (La), Tivoli (La), Anticoli Corrado (La), Subiaco (La), M.ti Lucretili (5 loc.) (La), Palestrina (La), P.N. del Circeo (2 loc.) (La), Gioia Vecchio (Abr), Forca di Valle (Abr), Monte Nuovo (Cp), Positano (Cp)	Nomada sexfasciata
	<b><i>Eucera nigrescens nigrescens</i></b> Pérez, 1879 <b><i>Ssp. ovest-europea</i></b> Si, Sa References: 206, 216, 363, 400, 416, 532	I			Punta Ceraso (Sa), Isola Alicudi (Si), Isola di Vulcano (Si).	
8	<b><i>Eucera nigrilabris</i></b> Lepeletier, 1841 <b><i>Sp. mediterraneo-anatolica</i></b> Southern Italy; Si, Sa References: 273, 384, 416, CK03, S16	I	Low	10	—	
	<b><i>Eucera nigrilabris nigrilabris</i></b> Lepeletier, 1841 <b><i>Ssp. mediterraneo-anatolica</i></b> Southern Italy; Si, Sa	I			—	
9	<b><i>Eucera numida</i></b> Lepeletier, 1841 <b><i>Sp. sud-europeo-mediterranea</i></b> Li, Em, To, Um, La, Abr, Mo, Cp, Si, Sa References: 7, 63, 67, 206, 208, 363, 400, 416, 528, 639, CK03, S16	I	Low	31	Monti dellaTolfa (La), Maccarese (La), Acilia (La), Roma (La), Pescara (Abr).	
	<b><i>Eucera numida clarior</i></b> Tkalcu, 1977 <b><i>Ssp. sud-ovest-europea</i></b>	I			Monti dellaTolfa (La), Maccarese (La), Acilia (La), Roma (La), Pescara (Abr).	



	Li, Em, To, Um, La, Abr, Mo, Cp References: 63, 208, 363, 400, 416, 528					
	<i>Eucera numida numida</i> Lepeletier, 1841 <b>Ssp. sud-ovest-europeo-maghrebina</b> Si, Sa References: 7, 67, 206, 416, 528, 639	I			—	
10	<b>Eucera proxima</b> Morawitz, 1875 = <i>Eucera graeca</i> Radoszkowski, 1876 ?, = <i>Eucera nitidiventris</i> Mocsáry, 1879 ? <b>Sp. caucasico-europea</b> Lo, V, Em, La, Mo, Bas, Pu, Si References: 63, 170, 189, 193, 208, 272, 363, 416, 487, 634, CK03 (absent in Italy), S61	I	Low	14	Monte Mario (La).  SUB EUCERA GRAECA: Prima Porta (La), Roma (La), Ardea (La).	
<b>Subgen. Heteucera Tkalcu, 1978</b>						
11	<b>Eucera albofasciata</b> Friese 1895 <b>Sp. europeo-mediterraneo-anatolico-caucasica</b> Syn of <i>Eucera nigrita</i> Friese, 1895 Si References: 170, CK03, CK12	Not assessed	High last record: 1860	1	—	
12	<b>Eucera algira</b> Brullé, 1840 nec Lepeletier, 1841 <b>Sp. mediterraneo-arabico-medio-orientale-macaronesica</b> Cal, Pu, Si, Sa References: 7, 170, 363, 400, CK03, L1	I	Low	8	Ragalna (Si), Oasi Simeto (Si), Lampedusa (Si).	
13	<b>Eucera bidentata</b> Pérez, 1887 <b>Sp. est-mediterraneo-anatolica</b> Pu (presence in Italy to be confirmed) References: 208, CK03 (absent in Italy)	I	Moderate	1	—	
14	<b>Eucera caspica</b> Morawitz, 1873 [ <i>Pareucera</i> Tkalcu 1978] <b>Sp. centro-asiatico-europeo-anatolica</b> Pi, Lo, V, Em, To, Ma, La, Cp, Cal, Si References: 63, 170, 193, 203, 204, 205, 208, 363, 386, 400, 634, C8, CK03, L1	I	Low	26	Orvinio (La), Percile (La), Licenza (La), Tivoli (La), Ariccia (La), Ostia Antica (La), Sabaudia (La), Positano (Cp).	Nomada sexfasciata  Oligoleptic  Univoltine
	<i>Eucera caspica albopunctata</i> Dours, 1873 <b>Ssp. italico-balkanica</b> Pi, V, Em, To, Ma, La, Cp, Si References: 63, 170, 193, 203, 204, 205, 208, 363, 386, 400, 634, C8	I			Orvinio (La), Percile (La), Licenza (La), Tivoli (La), Ariccia (La), Ostia Antica (La), Sabaudia (La), Positano (Cp).	
15	<b>Eucera cineraria</b> Eversmann, 1852 [ <i>Pileteucera</i> Sitdik. & Pes. 1988] <b>Sp. turanico-europeo-est-mediterranea</b> Ao, Pi, Lo, V, VT, Em, To, La, Cp, Cal References: 67, 203, 204, 218, 239, 286, 363, 400, 416, 508, C13, CK03, S1 (sub cinerea Lep.), S69, S90a (sub cinerea Lep.) . CK09, L1, S75b	I	Low	29	Monte Mario (La), Roma (La), Ariccia (La).	Oligoleptic  Univoltine

16	<b>Eucera clypeata</b> Erichson, 1835 [Stilbeucera Tkalcu 1978] <b>Sp. palearctica</b> Pi, Lo, V, Em, RSM, To, Um, La, Mo, Cp Bas, Pu, Si, Sa References: 63, 67, 68, 170, 180, 189, 203, 208, 272, 297, 338, 363, 400, 416, 448, 503, 508, 634, CK03, S76, L1	I, II	Low	60	Angrogna (Pi), Pisa (To), Monte Tezio (Um), Prima Porta (La), Monte Mario (La), Torre Cervara (La), Roma (3 loc.) (La), Albano Laziale (La).	Polylectic  Univoltine
17	<b>Eucera curvitaris</b> Mocsáry 1879 <b>Sp. est-europeo-anatolico-est-mediterranea</b> Ao References: S75b	Not assessed	Not assessed	1	-----	
18	<b>Eucera digitata</b> Friese, 1896 [Atopeucera Tkalcu 1984] (doubtful species due to very confused nomenclature) <b>Sp. est-mediterraneo-anatolica</b> Si References: 170, 363, CK03 (absent in Italy)	I	High last record: 1890	2	---	
19	<b>Eucera elongatula</b> Vachal, 1907 <b>Sp. ovest-europeo-maghreina</b> Si (presence in Italy to be confirmed) References: S2, CK03 (absent in Italy),	Not assessed	Not assessed	1	---	
20	<b>Eucera fufurea</b> Vachal 1907 <b>Sp. sud-europeo-anatolico-est-mediterranea</b> Italy (presence in Italy to be confirmed) References: 271, CK03	Not assessed	Not assessed	1	---	
21	<b>Eucera hispana</b> Lepeletier, 1841 <b>Sp. turanico-sud-europeo-maghrebina</b> Pi, La, Pu, Si References: 193, 272, 297, 363, C8, CK03 (absent in Italy)	I	Low	9	Maccarese (La), Torre Paola (La), Torre di Lama (Arpinova) (Pu).	Nomada pectoralis
22	<b>Eucera notata</b> Lepeletier, 1841 <b>Sp. ovest-mediterranea</b> Ma, Si References: 220, 369, 386, 416, CK03 (absent in Italy)	I, II	Low	5	---	
23	<b>Eucera obsoleta</b> Pérez 1911 <b>Sp. sud-est-europeo-anatolico-est-mediterranea</b> Italy References: 271, CK03	Not assessed	Not assessed	1	---	
24	<b>Eucera oraniensis</b> Lepeletier, 1841 <b>Sp. sud-ovest-europeo-nord-africana</b> To, La, Abr, Cp, Cal, Pu, Si, Sa References: 7, 63, 67, 173, 193, 204, 208, 228, 294, 363, 400, 416, C13, CK03, S16	I, II	Low	45	Tolfa (La), Monte Mario (La), Roma (La), Pratica di Mare (La), Ardea (La), Acilia (La), Albano Laziale (La), Mezzomonte (La), Isola Mozia (Si), Monte Pellegrino, Valdesi (Si).	
25	<b>Eucera pannonica</b> Mocsáry, 1878 <b>Sp. europeo-anatolico-caucasica</b> (syn of E- hispana Lepeletier, 1841 ?) Italy	Not assessed	Not assessed	1	---	

	References: CK03					
26	<b>Eucera seminuda</b> Brullé, 1832 [Atopeucera Tkalcu 1984] <b>Sp. centro-sud-europeo-anatolico-caucasico-maghrebina</b> Em, To, Ma, Um, Mo, Si References: 170, 193, 206, 386, 416, CK03 (absent in Italy)	I, II	Low	15	—	Ammobates muticus
27	<b>Eucera sogdiana</b> Morawitz, 1875 <b>Sp. centro-asiatico-anatolico-est-mediterranea</b> Si References: 193, CK03 (absent in Italy)	I	Moderate	1	—	
28	<b>Eucera taurica</b> Morawitz, 1871 <b>Sp. sud-europeo-anatolico-est-mediterranea</b> Cal, Pu, Si References: 400, CK03	I	Moderate	3	—	Polyleptic
29	<b>Eucera vulpes</b> Brullé, 1832 [Rhyteucera Sitdik. & Pes. 1988] (syn.: E. parvula Friese, 1895) <b>Sp. sud-europeo-anatolico-est-mediterranea</b> La, Cp, Si References: 54, 204, 216, 363, 400, C13, CK03 (absent in Italy)	I, II	Low	26	Val di Varri (La), Nazzano (La), Prima Porta (La), Monte Mario (2 loc.) (La), Roma (4 loc.) (La), Castel Porziano (La), Ardea (La), Albano Laziale (2 loc.) (La), Ariccia (2 loc.) (La), Torre Paola (La).	
<b>Subgen Pteneucera Tkalcu, 1984</b>						
30	<b>Eucera eucnemidea</b> Dours, 1873 <b>Sp. sud-ovest-europeo-maghrebina</b> FVG, Em, To, Um, La, Mo, Cp, Bas, Cal, Si, Sa References: 56, 63, 67, 100, 170, 205, 206, 208, 216, 272, 363, 400, 416, 447, 503, 639, C13, CK03, S42	I, II	Low	61	Val di Varri (La), Maccarese (La), Prima Porta (La), Monte Mario (La), Roma (2 loc.) (La), Acilia (La), Ardea (La), Albano Laziale (2 loc.) (La), Cesarò (Si).	
31	<b>Eucera nigrifacies</b> Lepeletier, 1841 <b>Sp. turanico-sud-europeo-anatolico-mediterranea</b> Pi, Lo, Em, To, La, Cp, Bas, Pu, Si, Sa References: 7, 63, 67, 170, 203, 208, 289, 363, 400, 416, 485, 508, 634, C13, CK03, L1	I, II	Low	37	Prima Porta (La), Monte Mario (La), Anticoli Corrado (La), Gallicano (La).	Ammobates muticus ?Polyleptic Univoltine
	<b>Eucera nigrifacies nigrifacies</b> Lepeletier, 1841 <b>Ssp. sud-ovest-europeo-mediterranea</b> Pi, Em, To, La, Cp, Bas, Pu, Si, Sa	I, II			Prima Porta (La), Monte Mario (La), Anticoli Corrado (La), Gallicano (La).	
32	<b>Eucera pseudeucnemidea</b> Risch, 1997 <b>Sp. turanico-sud-est-europeo-anatolico-est-mediterranea</b> Pu, Si References: 447, CK03	I	Not assessed	2	—	
<b>Subgen. Synhalonia Patton, 1879</b>						
33	<b>Eucera alternans</b> (Brullé, 1832)	I, II	Low	18	Monte Subasio (Um), Capodacqua	

	Syn of <i>Macrocera ruficollis</i> Brullé, 1832 <b>Lo, V, VT, Um, La, Si</b> References: 54, 63, 67, 170, 205, 363, C8, CK03 (absent in Italy), S61				(Um), Via Claudia Braccianese (La), Monte Mario (La), Torre Cervara (La).	
34	<b>Eucera berlandi</b> Dusmet, 1926 = <i>E. rufa</i> Lep.1841 (partim); ? = <i>T. ruficollis</i> auct. nec Br.1832; = <i>E. grandis</i> (Fonsc. 1846) partim (dubious by nomenclature) <b>Sp. turanico-europea</b> <b>Pi, Lo, V, Em, La, Cp, Bas, Cal, Pu, Si</b> References: 63, 206, 272, 400, CK03 (sub rufa, absent in Italy), L1 (sub rufa)	I	Low	13	Cantalupo (La), Prima Porta (La), Monte Mario (La), Capannelle (La).	
35	<b>Eucera commixta</b> Dalla Torre & Friese, 1895 <b>Sp. centro-sud-europeo-maghrebina</b> <b>La</b> (presence in Italy to be confirmed) References: 204, CK03 (absent in Italy)	I	High last record: 1930	1	—	
36	<b>Eucera hungarica</b> (Friese, 1895) <b>Sp. caucasico-europeo-anatolico-est-mediterranea</b> <b>VT, Em, Ma</b> References: 170, 386, 416, CK03	I	Low	4	—	
37	<b>Eucera mediterranea</b> (Friese, 1895) <b>Sp. sud-europeo-mediterranea ?</b> <b>Si</b> References: 170, CK03 (absent in Italy)	Not assessed	High last record: 1880	2	—	
38	<b>Eucera tricincta</b> (Erichson, 1835) <b>Sp. centro-asiatico-europeo-maghrebina</b> <b>FVG, La</b> References: 67, 170, 208, 363, C8, CK03	I	Moderate	5	—	
<b>Subgenus incertum</b>						
39	<b>Eucera brevicornis</b> Fabricius, 1789 (very doubtful species) <b>Sp. italica</b> <b>Italy</b> References: 170	Not assessed	High last record: 1789	1	—	
40	<b>Eucera deceptrix</b> Smith, 1879 (very doubtful species) <b>Sp. italica</b> <b>Italy</b> References: 170	Not assessed	High last record: 1879	1	—	

	Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800-1600 III = 1600-2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism Floral preferences Number of annual generations
<b>Gen. Tetralonia Spinola, 1838</b>						
<b>Subgen. Tetralonia Spinola, 1838</b>						
1	<b>Tetralonia malvae</b> (Rossi, 1790) (= <i>Eucera macroglossa</i> Illiger, 1806) <b>Sp. centro-asiatico-europea</b> Pi, Lo, V, VT, FVG, Em, To, Um, La, Mo, Cp, Si References: 5, 46, 66, 67, 170, 180, 187, 189, 203, 204, 206, 208, 215, 239, 363, 400, 416, 450, 634, CK03, S44, L1	I	Low	33	Monte Mario (La), Ariccia (2 loc.) (La), Torre Paola (La).	Triepeolus tristis  Oligoleptic  Univoltine
2	<b>Tetralonia vicina</b> Morawitz, 1876 (very uncertain taxonomy) <b>Sp. estpaleartica ?</b> Italian mainland ? References: CK05	Not assessed	Not assessed	?	—	

	Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800-1600 III = 1600-2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism Floral preferences Number of annual generations
<b>Gen. Tetraloniella Ashmead, 1899</b>						
<b>Subgen. Tetraloniella Ashmead, 1899</b>						
1	<b>Tetraloniella alticincta</b> (Lepeletier, 1841) <b>Sp. europeo-anatolico-maghrebina</b> Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Si References: 239, 274, 329, 335, 363, 416, 507, CK03, S90a, L1	I, II	Low	18	Monte Mario (La).	Oligoleptic  Univoltine
	<b>Tetraloniella alticincta alticincta</b> (Lepeletier, 1841) <b>Ssp. europeo-anatolico-maghrebina</b> Pi, Li, VT, FVG, Em, To, Ma, Um, La.	I, II			Monte Mario (La).	

	References: 239, 274, 329, 363, 416, 507					
	<i>Tetraloniella alticincta bindai</i> Nobile, 1993 <b>Ssp. sicula</b> Si (endemic of Sicily; see table endemic species/subspecies) References: 329, 335	I, II			—	
2	<i>Tetraloniella dentata</i> (Klug, 1835) <b>Ssp. centro-asiatico-europeo-anatolico-maghebina</b> Ao, Pi, V, VT, FVG, Em, La, Cp, Cal, Si, Sa References: 7, 170, 190, 193, 203, 204, 214, 235, 239, 363, 400, C8, CK03, S4, S24, S53, S75b	I, II, III	Low	33	Torre Paola (La), Isola di Vulcano (Si).	Triepeolus tristis, Ammobates vincetus  Oligoleptic  Univoltine
	<i>Tetraloniella dentata dentata</i> (Klug, 1835) <b>Ssp. europeo-maghebina</b> V, FVG, La References: 363	I			Torre Paola (La).	
	<i>Tetraloniella dentata fusciscopa</i> Hedicke, 1933 <b>Ssp. sud-europea</b> VT, La References: 204, 235	I			—	
	<i>Tetraloniella dentata fulviscopa</i> Hedicke, 1933 <b>Ssp. sud-europeo-caucasica</b> Si References: 235	Not assessed			—	
	<i>Tetraloniella dentata amseli</i> Alfken, 1938 <b>Ssp. sardo-corsa</b> Sa (endemic of Sardinia; see table endemic species/subspecies) References: 7	I			—	
3	<i>Tetraloniella fulvescens</i> Giraud, 1863 (Syn of <i>T. acutangula</i> Morawitz, 1878) <b>Sp. palearctica</b> Pi, Lo, FVG, Em, La, Pu, Si References: 170, 208, 363, 457, 530, CK03, L1	I, II	Low	12	Monte Mario (La).	Oligoleptic  Univoltine
	<i>Tetraloniella fulvescens</i> Giraud, 1863 <b>Ssp. europea</b> Pi, La, Si References: 170, 530	I, II			Monte Mario (La).	
	<i>Tetraloniella fulvescens dufouri</i> (Pérez, 1879) <b>Ssp. palearctica ?</b> FVG, Em, Pu References: 170, 208, 363	I			—	
4	<i>Tetraloniella graja</i> (Eversmann, 1852) <b>Sp. palearctica</b> Pi, VT, Em, La, Pu, Si, Sa References: 67, 170, 203, 206, 214, 239, 363, C8, CK03 (absent in Italy)	I, II	Moderate	12	Val di Varri (La),	Ammobates vincetus

5	<b>Tetraloniella grohmanni</b> Spinola, 1838 "uncertain", ? = <i>T. ruficornis</i> (F.), ? = <i>T. alticincta</i> (Lep. 1841) <b>Sp. sud-ovest-europea</b> To, Si References: 170, 208	I	Moderate	2	—	
6	<b>Tetraloniella hyblaea</b> Nobile, 1993 <b>Sp. sicula</b> Si (endemic of Sicily; see table endemic sp/ssp) References: 334	I	Moderate	1	—	
7	<b>Tetraloniella inulae</b> (Tkalců, 1979) <b>Sp. centro-sud-europeo-anatolica</b> Lo, FVG References: 530, CK03, L1	Not assessed	Not assessed	2	—	<b>Ammobates vinctus</b>  <b>Oligoleptic</b>  <b>Univoltine</b>
8	<b>Tetraloniella julliani</b> (Pérez, 1879) <b>Sp. turanico-europea</b> Em, Cal, Si References: 100, 105, 400, 416, CK03	I	Low	5	—	
9	<b>Tetraloniella nana</b> Morawitz, 1873 <b>Sp. sud-europeo-anatolica</b> Lo, V, FVG, Em, La References: 208, 363, C8, CK03, S90a, L1	I	Moderate	8	—	<b>Coelioxys polycentris</b> , <b>Triepeolus tristis</b>  <b>Oligoleptic</b>  <b>Univoltine</b>
10	<b>Tetraloniella pollinosa</b> (Lepelletier, 1841) nec Morawitz, 1875, nec Smith, 1854. <b>Sp. sud-europeo-anatolico-caucasico-est-mediterranea</b> Italy; VT References: 170, 239, 400, CK03	I, II, III	Moderate	4	—	
11	<b>Tetraloniella salicariae</b> (Lepelletier, 1841) <b>Sp. europeo-anatolica</b> Pi, Li, Lo, V, VT, FVG, Em, To, La, Mo, Cal References: 67, 68, 170, 189, 206, 363, 400, 416, 634, C12, CK03, S17, S76, L1	I	Low	25	Angrogna (3 loc.).	<b>Epeolus tristis</b>  <b>Oligoleptic</b>  <b>Univoltine</b>
12	<b>Tetraloniella scabiosae</b> Mocsáry, 1879 <b>Sp. sud-est-europeo-anatolica</b> Pi, Lo, La References: 363, CK03	I	Not assessed	3	—	

	Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800- 1600 III = 1600- 2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism  Floral preferences  Number of annual generations
<b>Gen. Xylocopa Latreille, 1802</b>						Xylocopa does not appear to host cleptoparasitic bees
<b>Subgen. Copoxyla Maa, 1954</b>						
1	<b>Xylocopa iris</b> (Christ, 1791) <b>Sp. centro-asiatico-europeo-mediterranea</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si, Sa References: 7, 20, 47, 63, 67, 174, 197, 200, 202, 203, 208, 211, 213, 214, 216, 279, 293, 367, 384, 386, 410, 416, 503, 513, 544, 547, 553, 555, 556, 560, 563, 564, C1, CK03, S23, S16a, S78, S81, L1, S75b	I, II	Slightest	200	Capodacqua (Um), Montefiascone (La), Orvinio (La), Percile (La), Campagnano di Roma (La), Prima Porta (La), Monte Mario (La), Roma (5 loc.) (La), Ostia Antica (La), Ardea (La), Albano Laziale (La), Ariccia (3 loc.) (La).	Polylectic  Univoltine
	<b>Xylocopa iris var. atra</b> Vicidomini, 2001 <b>Var. italica</b> To References: S78	I			—	
	<b>Xylocopa iris iris</b> (Christ, 1791) <b>Ssp. turanico-europeo-mediterranea</b> Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si, Sa References: 7, 20, 47, 63, 202, 211, 213, 214, 216, C1	I, II			Capodacqua (Um), Montefiascone (La), Orvinio (La), Percile (La), Campagnano di Roma (La), Prima Porta (La), Monte Mario (La), Roma (5 loc.) (La), Ostia Antica (La), Ardea (La), Albano Laziale (La), Ariccia (3 loc.) (La).	
<b>Subgen. Xylocopa Latreille, 1802</b>						
2	<b>Xylocopa valga</b> Gerstaecker, 1872 <b>Sp. palearctica</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si References: 20, 31, 46, 63, 67, 68, 100, 174, 180, 193, 214, 363, 367, 386, 410, 416, 489, 509, 513, 544, 547, 549, 551, 554, 555, 556, 564, 567, C1, CK03, S4, S10, S53, S81. CK09, S75b	I, II, III	Slightest	265	Villar Pellice (2 loc.) (Pi), Angrogna (2 loc.) (Pi), Perugia (2 loc.) (Um), Villa di Orazio (La), Roma (La), Albano Laziale (La), Ariccia (2 loc.) (La), Frascati (La), SS.Marsicana km 25 (Abr), Pescasseroli (Abr), Fisciano (Cp), Palermo (Si).	Polylectic
3	<b>Xylocopa violacea</b> (Linnaeus, 1758) <b>Sp. palearctica</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si, Sa References: 7, 8, 20, 46, 50, 56, 63, 66, 67, 68, 73, 76, 94, 158, 174, 183, 189, 193, 200, 202, 205, 206, 213, 214, 225,	I, II, III, IV	Slightest	865	Valli Angrogna e Pellice (3 loc.) (Pi), Perugia and surround. (10 loc.) (Um), Monte Tezio (Um), Lazio Nord (3 loc.) (La), Lago di Vico (La), M. Lucretili (2 loc.) (La), Rome and surround. (9 loc.) (La), Colli Albani and surround. (9 loc.)	Polylectic  Univoltine/bivoltine



227, 266, 279, 286, 287, 289, 293, 294, 300, 322, 363, 365, 367, 369, 384, 386, 410, 414, 416, 431, 432, 434, 438, 457, 489, 513, 544, 545, 546, 547, 549, 550, 551, 554, 555, 556, 564, 567, 634, 635, 639, C1, C13, CK03, S4, S10, S38, S42, S61, S69, S79, S80, S81, S90a. CK09, L1			(La), Circeo and surround. (2 loc.) (La), Ninfa (La), Marsicana km 25 (Abr), Ovindoli (Abr), Astroni (Cp), Fisciano (Cp), Muravera (Sa), Palermo (Si), Stromboli (Si).
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Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800-1600 III = 1600-2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism Floral preferences Number of annual generations
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### Gen. *Ceratina* Latreille, 1802

Ceratina does not appear to host cleptoparasitic bees

#### Subgen. *Ceratina* Latreille, 1802

1	<b><i>Ceratina cucurbitina</i></b> (Rossi, 1792) <b><i>Sp. turanico-europeo-anatolico-maghrebina</i></b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si, Sa References: 7, 20, 46, 63, 66, 67, 68, 73, 74, 93, 94, 174, 180, 183, 184, 193, 200, 202, 203, 204, 205, 206, 208, 209, 218, 225, 227, 228, 274, 287, 289, 293, 300, 363, 386, 410, 416, 450, 457, 508, 551, 639, C13, CK03, S4, S38, S42, S53, S16a, S61, S69, S76, S90a. CK09, L1, S75b	I, II	Slightest	230	Valli del Pellice, Angrogna e Germanasca (6 loc.) (Pi), Firenze (2 loc.) (To), Capodaqua (Um), Rome and surround. (7 loc.) (La), Litorale romano (2 loc.) (La), Medio Lazio (5 loc.) (La), Colli Albani and surround. (9 loc.) (La), Lazio Nord (5 loc.) (La), Circeo (2 loc.) (La), Dint. di Napoli (2 loc.) (Cp), Fisciano (Cp), Caprera (Sa), Isola di Vulcano (Si).	Stelis ornata (?) (! Friese 1895:43)  Polylectic  Univoltine
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#### Subgen. *Dalyatina* Terzo, 2007

2	<b><i>Ceratina parvula</i></b> Smith, 1854 <b><i>Sp. turanico-mediterraneo-macaronesica</i></b> To, La, Mo, Si, Sa References: 7, 63, 293, 363, CK03, S16a	I	Moderate	6	Prima Porta (La).	
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#### Subgen. *Euceratina* Hir., Moure, Daly, 1971

3	<b><i>Ceratina acuta</i></b> (Friese, 1896) <b><i>Sp. turanico-est-europeo-anatolica</i></b> Ao, To, La References: 63, 204, C8, CK03 (absent in Italy), S75b	I	Moderate	9	Prima Porta (La), Roma (La), Albano Laziale (2 loc.) (La), Ariccia (La).	
4	<b><i>Ceratina callosa</i></b> (Fabricius, 1794) <b><i>Sp. sud-europeo-maghrebina</i></b> Pi, Lo, VT, FVG, Em, To, La, Cp, Cal, Pu, Si, Sa References: 7, 63, 67, 68, 154, 174, 193, 196, 200, 202, 203, 205, 206, 208, 214, 225, 227, 228, 274, 363, 410, 596,	I, II	Low	50	Angrogna (Pi), Val di Varri (La), Prima Porta (La), Monte Mario (La), Roma (2 loc.) (La).	Polylectic  Univoltine

	634, CK03, S16a, S69, S76					
5	<b>Ceratina chalcites</b> Latreille, 1809 <b>Sp. turanico-sud-europeo-anatolico-est-mediterranea</b> Pi, Lo, Li, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Cal, Pu, Si References: 20, 63, 67, 156, 174, 203, 204, 208, 209, 210, 213, 363, 370, 386, 410, 416, 457, 508, C12, C13, CK03, S23, S69, L1	I, II	Slightest	55	Percile (La), Prima Porta (La), Monte Mario (2 loc.) (La), Roma (3 loc.) (La), Albano Laziale (La), Ariccia (La), Tivoli (La), Capo Circeo (La).	Polyleptic  Univoltine
	<b>Ceratina chalcites assoroensis</b> Terzo et al., <b>Ssp. italico-balcanica</b> La	I			Roma (La), Monte Mario (La), Tivoli (La), Ariccia (La).	
	<b>Ceratina chalcites chalcites</b> Latreille, 1809 <b>Ssp. turanico-sud-europea</b> La References: 67	I			Percile (La), Prima Porta (La), Monte Mario (La), Roma (2 loc.) (La), Albano Laziale (La), Ariccia (La), Capo Circeo (La).	
6	<b>Ceratina chalybea</b> Chevrier, 1872 <b>Sp. turanico-europeo-maghrebina</b> Ao, Pi, Li, Lo, V, VT, FVG, Em,, To, Ma, Um, La, Mo, Cp, Bas, Si, Sa References: 20, 93, 239, 386, 363, 410, 416, 510, CK03, S53, S16a, S76, L1, S75b	I, II	Low	35	Monte Subasio (Um), Percile (La), Nazzano (La), Ariccia (La).	Polyleptic  Univoltine
7	<b>Ceratina cyanea</b> (Kirby, 1802) <b>Sp. turanico-europeo-anatolico-maghrebina</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Um, La, Abr, Mo, Cp, Cal, Pu, Si, Sa References: 7, 20, 46, 63, 67, 68, 74, 180, 189, 193, 202, 203, 204, 205, 206, 239, 274, 286, 289, 363, 370, 384, 410, 416, 457, 551, 634, 639, CK03, S4, S53, S16a, S69, S76, S90a. CK09, L1, S75b	I, II, III	Slightest	138	Valli del Pellice e Angrogna (4 loc.) (Pi), Borgomale (Pi), Pignone (Li), Donoratico (To), Val di Varri (La), Monte Cimino (La), Percile (La), Rome and surround. (4 loc.) (La), Colli Albani (6 loc.) (La), Frascati (La), Circeo and surround. (3 loc.) (La), San Leone (Si), Isola di Vulcano (Si).	Polyleptic  Univoltine
8	<b>Ceratina dallatorreana</b> Friese, 1896 <b>Sp. centro-asiatico-sud-europeo-anatolico-maghrebina</b> Pi, Lo, FVG, To, La, Cp, Cal, Si, Sa References: 7, 63, 114, 147, 174, 293, 294, 363, 410, 416, 508, CK03, S16a, L1	I	Low	27	Monte Cimino (La), Maccarese (La), Acilia (La), Ariccia (La).	
9	<b>Ceratina dentiventris</b> Gerstaecker, 1869 <b>Sp. caucasico-sud-europeo-anatolico-maghrebina</b> Ao, Pi, Lo, V, VT, Em, To, Um, La, Cp, Bas, Cal, Pu, Si, Sa References: 7, 63, 68, 114, 174, 184, 205, 206, 208, 214, 363, 410, 416, 457, 634, 639, CK03, S4, S16a, S69. CK09	I, II	Low	42	Luserna San Giovanni (Pi), Angrogna (Pi), Montefiascone (La), Prima Porta (La), Monte Mario (La), Roma (2 loc.) (La), Ostia Antica (La), Albano Laziale-Ariccia (3 loc.) (La).	
10	<b>Ceratina gravidula</b> Gerstaecker, 1869 <b>Sp. asiatico-europeo-anatolico-maghrebina</b> Lo, VT, To, Um, La, Pu, Si References: 63, 174, 184, 416, , 511, C13, CK03, S69, L1	I, II	Low	19	Prima Porta (La), Roma (La), Albano Laziale (La).	
11	<b>Ceratina loewi</b> Gerstaecker, 1869 <b>Sp. sud-est-europeo-anatolico-est-mediterranea</b> Em, To, La (presence in Italy to be confirmed)	I	Moderate	6	—	

	References: 634, C8, CK03 (absent in Italy), S16a					
12	<b>Ceratina mocsaryi</b> Friese, 1896 <b>Sp. caucasico-ovest-europeo-maghrebina</b> Alps; Ma References: 386, 509, CK03	I	Moderate	2	—	
13	<b>Ceratina nigroaenea</b> Gerstaecker, 1869 <b>Sp. asiatico-caucasico-est-europeo-est-mediterranea</b> Pi, VT References: 68, 174, CK03 (absent in Italy)	I	Moderate	3	Luserna San Giovanni (Pi).	
14	<b>Ceratina nigrolabiata</b> Friese, 1896 <b>Sp. turanico-europeo-anatolica</b> Ao, Pi, Em, To, La, Sa References: 63, 68, 214, 508, 510, 634, C8, CK03. CK09	I	Low	12	Luserna San Giovanni (Pi), Angrogna (Pi), Prima Porta (La), Roma (La), Frascati (La), Albano Laziale (La).	
15	<b>Ceratina saundersi</b> Daly, 1983 <b>Sp. sud-ovest-europeo-maghrebina</b> To, La, Si, Sa References: 363, 365, 512, CK03, S16a, S76	I	Low	8	—	
<b>Subgen. Neoceratina Perkins, 1912</b>						
16	<b>Ceratina schwarzi</b> Kokourek, 1998 <b>Sp. turanico-sud-est-europeo-anatolico-est-mediterranea</b> Pu References: 510, CK03	I	Moderate	1	—	
<b>Subgen. Pithitis (Klug, 1807)</b>						
17	<b>Ceratina tarsata</b> Morawitz 1872 <b>Sp. italico-nord-africano-arabico-etiopica</b> Si (presence in Italy to be confirmed) References: 174, CK03	Not assessed	Not assessed	1	—	

	Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800- 1600 III = 1600- 2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism (hosts) Floral preferences Number of annual generations
<b>Gen. <i>Nomada</i> Scopoli, 1770</b>						
1	<b><i>Nomada agrestis</i></b> Fabricius, 1787 <b><i>Sp. mediterranea</i></b> Si References: 104, 228, 332, CK03	I	Moderate	3	—	<i>A. thoracica</i> , <i>A. nigrilabris</i> Lep. (absent in Italy)
2	<b><i>Nomada alboguttata</i></b> Herrich-Schäffer, 1839 <b><i>Sp. asiatico-europea</i></b> Pi, V, VT, FVG, Em References: 239, 363, 370, CK03, S68	I	Low	6	—	<i>Andrena barbilabris</i> , <i>A. argentata</i> , <i>A. ventralis</i>  Flora: limited  Partly bivoltine
	<b><i>Nomada alboguttata alboguttata</i></b> Herrich-Schäffer, 1839 <b><i>Ssp. asiatico-europea</i></b> Pi, V, VT, FVG, Em	I			—	<i>Andrena barbilabris</i> , <i>A. argentata</i>
3	<b><i>Nomada alpigena</i></b> Schwarz, Gusenl. & Mazzucco 1999 <b><i>Sp. nord-italico-ovest-balcanica</i></b> VT References: 143, CK03, CK12	Not assessed	Not assessed	1	—	
4	<b><i>Nomada argentata</i></b> Herrich-Schaeffer, 1839 <b><i>Sp. caucasico-europea</i></b> Ao, Pi, VT, To, La, Si References: 54, 68, 239, 338, 363, CK03, CK12. CK09	I, II, III	Low	7	Angrogna (Pi).	<i>Andrena marginata</i>  Preferences: limited  Univoltine
5	<b><i>Nomada armata</i></b> Herrich-Schäffer, 1839 <b><i>Sp. caucasico-europea</i></b> Pi, Lo, VT, Em, Um, La, Pu, Si References: 46, 67, 177, 204, 208, 239, 363, 386, 407, 457, 465, 634, CK03, S69, S84, CK12	I, II	Low	17	Prima Porta (La).	<i>Andrena hattorfiana</i>  Flora: limited  Univoltine
6	<b><i>Nomada atroscutellaris</i></b> Strand, 1921 <b><i>Sp. europea</i></b> Pi, VT, Em, La, Si References: 206, 239, 363, CK03, S50	I	Moderate	6	—	<i>Andrena viridescens</i>  Flora: limited

						Univoltine
7	<b>Nomada baccata</b> Smith, 1844 <b>Sp. caucasico-europea</b> Em (presence in Italy to be confirmed) References: 203, CK03		High last record: 1930	2	—	Andrena argentata
	<i>Nomada baccata baccata</i> Smith, 1844 <b>Ssp. europea</b> Em	I			—	
8	<b>Nomada baldiniana</b> Benzi, 1892 <b>Sp. appenninica</b> Em (see table endemic sp/ssp) (presence in Italy to be confirmed) References: 1, 29, CK03	I	High last record: 1890	2	—	
9	<b>Nomada basalis</b> Herrich-Schäffer, 1839 <b>Sp. palearctica</b> Li, V, VT, Em, La, Mo, Cal, Si References: 54, 67, 104, 189, 205, 208, 239, 332, 363, 407, 416, 474, 634, CK03	I	Low	16	Lido di Venezia (V), Albano Laziale (La), Bosco della Ficuzza (Si).	Andrena truncatilabris
10	<b>Nomada beaumonti</b> Schwarz, 1967 <b>Sp. ovest-mediterranea</b> Li, Em, Si References: 332, 468, CK03	I, II, III	Moderate	4	—	
11	<b>Nomada bifasciata</b> Olivier, 1811 <b>Sp. sud-ovest-europeo-anatol.-maghrebino-macaronesica</b> Pi, La, Bas, Si References: 363, CK03, S50, S72 (= N. pusilla Pér. 1884, = N. lepeletieri Pér. 1841)	I	Moderate	4	Ponte Galeria (La).	Andrena gravida Flora: limited Univoltine
	<i>Nomada bifasciata lepeletieri</i> Pérez, 1884 <b>Ssp. sud ovest-europeo-maghrebina</b> Pi, La, Bas References: 363	I			Ponte Galeria (La).	Andrena gravida
12	<b>Nomada bispinosa</b> Mocsáry, 1883 <b>Sp. europea</b> Pi, Em, To, La, Cp, Si References: 208, 363, 407, 508, CK03, S50	I	Low	7	—	Andrena hypopolia, Lasioglossum sp. Flora: limited ?Univoltine
13	<b>Nomada blepharipes</b> Schmiedeknecht, 1882 <b>Sp. turanico-sud-europea</b> Italy; La References: 467, CK03	I	Moderate	2	Monte Mario (La).	Andrena hypopolia
14	<b>Nomada bluethgeni</b> Stoeckert, 1943 <b>Sp. centro-sud-europea</b> Pi, To, La, Mo, Cp References: 363, 370, 407, 465, CK03, S76		Low	6	San Benedetto Belbo (Pi).	Lasioglossum marginellum, ? L. puncticolle Bivoltine

15	<b>Nomada braunsiana</b> Schmiedeknecht, 1882 <i>Sp. europea</i> Pi, V, Um, Abr References: 203, 363, 386, CK03, CK12	I, II, III	Low	4	—	<b>Andrena curvungula, A. pandellei</b>  Flora: limited  Univoltine
	<b>Nomada braunsiana braunsiana</b> Schmiedeknecht, 1882 <i>Ssp. europea</i> Pi, V, Um, Abr	I, II, III			—	
16	<b>Nomada calimorpha</b> Schmiedeknecht, 1882 <i>Sp. centro-sud-europeo-anatolica</i> La References: S50	I	Critic	1	—	
17	<b>Nomada carnifex</b> Mocsáry, 1883 <i>Sp. ovest-mediterranea</i> Pi, Em, To, Ma, Bas, Si References: 332, 363, 416, 465, 471, CK03	I	Low	14	—	
18	<b>Nomada castellana</b> Dusmet, 1913 <i>Sp. turanico-europea</i> Ao, Pi, VT, FVG, Em, To, Si References: 204, 206, 239, 363, 416, CK03, S24. CK09	I, II	Low	10	—	? <b>Andrena semilaevis, ? A. anthrisci</b>  Flora: limited  Univoltine
(19)	<b>Nomada chrysopyga</b> Morawitz, 1872 revalidated species (not synonymous/ssp with <i>N. mauritanica</i> ) ( <i>Ssp</i> of <i>N. mauritanica</i> in Schwarz e Gusenleiter (ref. 482) (The correct name of <i>N. chrysopyga</i> is <b><i>N. mauritanica chrysopyga</i></b> ) <i>Sp. centro-sud--europeo-mediterranea</i> Lo, La, Cal, Si References: 204, 363, 407, 458, 465, S11	I, II	Low	9	Ariccia (La).	<b>Andrena rutila, ? A. carbonaria</b>
	<b>Nomada chrysopyga chrysopyga</b> Morawitz, 1872 <i>Ssp. centro-sud--europeo-mediterranea</i> Lo, La, Cal, Si	I, II			Ariccia (La).	
20	<b>Nomada concolor</b> Schmiedeknecht, 1882 <i>Sp. sud-ovest-europea</i> Pi, Em, La, Abr, Cal, Si References: 104, 363, 416, 465, CK03	I, II	Low	7	Tor Cervara (La).	
21	<b>Nomada confinis</b> Schmiedeknecht, 1882 <i>Sp. nord- e est-mediterraneo-anatolica</i> Italy, FVG References: 467, CK03, L5	Not assessed	Not assessed	1	—	Univoltine
22	<b>Nomada conjungens</b> Herrich-Schäffer, 1839 <i>Sp. centro-asiatico-europea</i>	I	Moderate	6	—	<b>Andrena proxima</b>

	Pi, VT, Em, To References: 205, 239, 363, CK03, S76					Flora: limited  Univoltine
23	<b>Nomada connectens</b> Pérez, 1884 Sp. sud-europeo-est-mediterranea Pi, Si References: 92, 332, 363, CK03	I	Low	4	—	
24	<b>Nomada corcyraea</b> Schmiedeknecht, 1882 Sp. sud-europea Lo, Em, La, Sa References: 1, 180, 203, 204, CK03, S50	I	Moderate	9	—	
25	<b>Nomada cruenta</b> Schmiedeknecht, 1882 Sp. sud-europeo-anatolica Si References: 1, 104, 332, CK03	I	Low	5	—	Andrena scita
	<b>Nomada cruenta cruenta</b> Schmiedeknecht, 1882 Ssp. sud-est-europea Si	I			—	
26	<b>Nomada dira</b> Schmiedeknecht, 1882 Sp. ovest-mediterranea La, Abr, Si References: 208, 332, 363, 465, CK03	I	Low	7	Monte Mario (La), Tor Cervara (La).	
27	<b>Nomada discrepans</b> Schmiedeknecht, 1882 Sp. sud-europeo-est-mediterr.-maghrebino-macaronesica Lo, Em, Um, La, Si References: 67, 208, 363, 416, 465, CK03, L1	I	Low	11	Monte Mario (La), Albano Laziale (La).	
28	<b>Nomada distinguenda</b> Morawitz, 1874 (= N. rugithorax Perez, 1902) Sp. turanico-europeo-anatolica Pi, Li, Lo, VT, Em, To, Ma, La, Abr, Cp, Si, Sa References: 7, 67, 100, 104, 203, 204, 205, 206, 208, 239, 332, 355, 363, 407, 416, 465, 508, 634, CK03, S69	I, II	Low	30	Garlenda (Li), Prima Porta (La), Roma (La).	Andrena minutula, A. bisulcata, A. tenuis Mor. (absent in Italy), A. bicarinata, Las. nitidiusculum, L. villosulum, L. parvulum, Panurgus spp.  Flora: limited  Bivoltine
29	<b>Nomada duplex</b> Smith, 1854 Sp. sud-ovest-europea La, Sa, Si References: 479, CK03, S50, CK12	Not assessed	Critic	7	—	
30	<b>Nomada emarginata</b> Morawitz, 1878 Sp. asiatico-europeo-anatolica Pi, Lo, FVG, La, Si	I, II	Low	5	—	Andrena denticulata, Melitta haemorrhoidalis

	References: 332, 363, CK03, S50					Flora : limited Univoltine
31	<b>Nomada eos</b> Schmiedeknecht, 1882 <b>Sp. italico-balcanico-anatolica</b> Italy References: CK03	Not assessed	Not assessed			
32	<b>Nomada errans</b> Lepeletier, 1841 <b>Sp. sibirico-europea</b> VT References: 239: CK03	I	Moderate	1	—	<b>Andrena nitidiuscula</b> , forse <b>A. pallitarsis</b>  Flora : limited Univoltine
33	<b>Nomada erythrocephala</b> Morawitz, 1870 <b>Sp. europea</b> La, Si (presence in Italy to be confirmed) References: 206, CK03, S50	I	High	2	—	
34	<b>Nomada fabriciana</b> (Linnaeus, 1767) <b>Sp. caucasico-europea</b> Pi, V, VT, FVG, Em, Ma, Si References: 46, 104, 178, 203, 206, 208, 239, 332, 363, 407, 457, 634, CK03, S68, S85	I, II, III	Low	19	Alagna Valsesia (Pi).	<b>Hal. rubicundus</b> , <b>Andrena fulvago</b> , <b>A. bicolor</b> , <b>A. fulvata</b> , <b>A. chrysoceles</b> , <b>A. nigroaenea</b> , <b>A. angustior</b> , <b>A. humilis</b> , <b>Panurgus banksianus</b>  Flora : limited Bivoltine
35	<b>Nomada facilis</b> Schwarz, 1967 <b>Sp. caucasico-europea</b> Ao, Pi, VT, Em, Um, Abr, Si References: 239, 363, 416, CK03, S50. CK09	I, II	Low	11	Assergi (Abr.).	<b>Andrena humilis</b>  Univoltine
36	<b>Nomada fallax</b> Pérez, 1913 <b>Sp. ovest-mediterranea</b> Si References: 1, CK03	Not assessed	Not assessed	1	—	
37	<b>Nomada femoralis</b> Morawitz, 1869 <b>Sp. ovest-palearctica</b> Ao, Pi, Li, VT, Em, La, Abr, Cp, Bas, Cal, Pu, Si, Sa References: 7, 46, 67, 104, 193, 204, 206, 225, 239, 332, 363, 384, 407, 416, 465, 634, 639, CK03. CK09	I, II, III	Low	41	Monte Mario (La), Roma (La), Albano Laziale (La), Bosco della Fcuzza (Si), Porto Rotondo (Sa), Monte Limbara (Sa).	<b>Andrena humilis</b> , <b>A. fulvago</b>  Flora : limited Univoltine
38	<b>Nomada fenestrata</b> Lepelletier, 1841	I	Moderate	3	—	



	<b>Sp. mediterraneo-sud-ovest-asiatica</b> La, Pu, Si References: S50					
39	<b>Nomada ferghanica</b> Morawitz, 1875 <b>Sp. sud-est-europeo-anatolico-est-mediterranea</b> La, Cal References: 363, CK03	I	Not assessed	2	—	
40	<b>Nomada ferruginata</b> (Linnaeus, 1767) <b>Sp. caucasico-europea</b> Lo, V, Em, To, La, Cal, Si References: 54, 67, 100, 180, 189, 193, 204, 225, 289, 332, 363: CK03, S68, S69	I, II, III	Low	16	Roma (La).	<b>Andrena humilis</b> , <b>A. apicata</b> , <b>A. labialis</b> , <b>A. praecox</b> , <b>A. fulvago</b> , <b>A. polita</b>  Flora : limited  Univoltine
41	<b>Nomada flava</b> Panzer, 1798 <b>Sp. caucasico-europea</b> Ao, Pi, VT, Em, To, Um, La, ? Si (Sicily: uncertain specimen) References: 180, 289, 363, 386, CK03	I, II, III, IV	Low	9	Siffian (VT), San Benedetto Belbo (Pi).	<b>Andr. nigroaenea</b> , <b>A. nitida</b> , <b>A. carantonica</b> , <b>A. helvola</b> , <b>A. synadelpha</b> (absent in Italy), <b>A. lapponica</b> , <b>A. fucata</b> , <b>A. varians</b>  Flora : limited  Univoltine
42	<b>Nomada flavoguttata</b> (Kirby, 1802) <b>Sp. asiatico-europea</b> Pi, Li, Lo, VT, FVG, Em, Um, La, Abr, Mo, Bas, Si References: 54, 67, 104, 144, 180, 204, 206, 224, 332, 363, 407, 416, 465, 634, CK03, S69	I, II, III	Low	28	San Benedetto Belbo (Pi), Monte Mario (La), Roma (La), ? Monticchio (Bas).	<b>Andrena falsifica</b> , <b>A. minutuloides</b> , <b>A. subopaca</b> , <b>A. nana</b> , <b>A. minutula</b> , <b>A. saundersella</b> , ? <b>A. combinata</b>  Flora: limited  Partly bivoltine
	<b>Nomada flavoguttata flavoguttata</b> (Kirby, 1802) <b>Ssp. europeo-anatolico-est-mediterranea</b> Pi, Li, Lo, VT, FVG, Em, Um, La, Abr, Mo, Bas, Si	I, II, III			<b>San Benedetto Belbo (Pi), Monte Mario (La), Roma (La), ? Monticchio (Bas).</b>	
43	<b>Nomada flavopicta</b> (Kirby, 1802) <b>Sp. centro-asiatico-europea</b> Ao, Pi, Lo, V, VT, FVG, Em, La, Abr References: 46, 67, 68, 190, 203, 205, 206, 208, 235, 363, 407, 634, CK03, S27. CK09, S75b	I, II	Low	30	Cioccaro (Penango) (Pi), Bossolasco (Pi), Val di Varri (La).	<b>Melitta leporina</b> , <b>M. haemorrhoidalis</b> , <b>M. tricineta</b> , <b>M. nigiricans</b> , <b>Andrena argentata</b> , ? <b>A. nigriceps</b>  Flora : limited

						Univoltine
	<i>Nomada flavopicta flavopicta</i> (Kirby, 1802) <i>Ssp. europea</i> Pi, Lo, V, VT, FVG, Em, La, Abr	I, II			<i>Cioccaro (Penango) (Pi), Bossolasco (Pi), Val di Varri (La).</i>	
44	<i>Nomada fraudassicola</i> Pittioni, 1950 (doubtful species) <i>Sp. italica</i> Em (endemic of Northern Italy? See table endemic sp/ssp) References: 208	I	Moderate	1	—	
45	<i>Nomada fucata</i> Panzer, 1798 <i>Sp. palearctica</i> Pi, Li, Lo, V, VT, Em, To, Ma, Um, La, Abr, Cp, Bas, Cal, Pu, Si, Sa References: 7, 67, 68, 104, 180, 189, 203, 204, 206, 208, 239, 289, 363, 407, 416, 458, 465, 634, CK03, S68	I, II, III	Slightest	33	Angrogna (2 loc.) (Pi), San Benedetto Belbo (Pi), Garlenda (Li), Prima Porta (La), Monte Mario (La), Tor Cervara (La), Pignola (Bas).	<i>Andrena flavipes, A. gravida, A. vaga (sub ovina Kl.), A. fulva, Halictus rubicundus, Las. leucozonium</i>  Flora : limited  Bivoltine
	<i>Nomada fucata fucata</i> Panzer, 1798 <i>Ssp. palearctica</i> Pi, Li, Lo, V, VT, Em, To, Ma, Um, La, Abr, Cp, Bas, Cal, Pu, Si, Sa References: 7	I, II, III			Angrogna (2 loc.), (Pi), San Benedetto Belbo (Pi), Garlenda (Li), Prima Porta (La), Monte Mario (La), Tor Cervara (La), Pignola (Bas).	
46	<i>Nomada fulvicornis</i> Fabricius, 1793 <i>Sp. palearctica</i> Ao, Pi, Li, Lo, V, VT, Em, To, Um, La, Cp, Cal, Si, Sa References: 7, 50, 54, 67, 91, 104, 189, 206, 239, 289, 293, 332, 363, 365, 407, 416, 465, 470, CK03, S68, S75b	I, II, III	Low	41	Colle delle Finestre (Pi), Monte Mario (La), Ariccia (La).	<i>Andrena cineraria danuvia, A. carbonaria, A. bimaculata, A. curvungula, A. thoracica, A. labialis, A. tibialis, A. nigroaenea, A. nitida, A. ocreata, A. agillissima</i>  Flora : limited  Bivoltine
	<i>Nomada fulvicornis fulvicornis</i> Fabricius, 1793 <i>Ssp. asiatico-europea</i> Pi, Li, Lo, V, VT, Em, To, Um, La, Cp, Cal, Si, Sa	I, II, III			Colle delle Finestre (Pi), Monte Mario (La), Ariccia (La).	
47	<i>Nomada furva</i> Panzer, 1798 <i>Sp. palearctica</i> Pi, V, VT, Em, To, Abr, Si References: 190, 193, 208, 239, 289, 332, 363, 485, 508, CK03	I	Low	13	—	<i>Lasiogl. morio, L. leucopus, L. villosulum, L. nitidiusculum, L. parvulum,</i>

						<p>L. politum, L. punctatissimum; Andrena minutula, A. nana, Colletes fodiens, C. daviesanus</p> <p>Flora : limited</p> <p>Bivoltine</p>
	<p><i>Nomada furva furva</i> Panzer, 1798 <b>Ssp. europeo-anatolica</b> Pi, V, VT, Em, To, Abr, Si References: 190, 193, 208, 239, 289, 332, 363, 485</p>	I			—	
	<p><i>Nomada furva nigricans</i> Pérez, 1882 <b>Ssp. sud-ovest-europeo-maghrebina</b> V References: 190</p>	I			—	Lasioglossum punctatissimum
48	<p><i>Nomada furvoides</i> Stöckhert, 1944 <b>Sp. sud-europea</b> Pi, Em, Si References: 363, 634, CK03, S50</p>	I	Not assessed	4	—	Lasioglossum semilucens, ? L. politum
49	<p><i>Nomada fuscicornis</i> Nylander, 1848 <b>Sp. caucasico-europea</b> Pi, Lo, VT, Em, To, La, Cal, Si References: 67, 68, 104, 180, 205, 225, 293, 363, CK03, S69, S76</p>	I, II	Low	11	Angrogna (2 loc.) (Pi), Roma (La).	Panurgus calcaratus  Flora : limited  Univoltine
50	<p><i>Nomada glabella</i> Thomson, 1870 (CK03, CK06 = syn of <i>N. panzeri</i> Lep., 1841) <b>Sp. palearctica ?</b> Ao References: CK09</p>	I	Not assessed	1	—	
51	<p><i>Nomada glaucopis</i> Pérez, 1890 (= <i>N. pusilla</i> Lepeletier 1841) <b>Sp. centro-asiatico-europeo-anatolico-maghrebina</b> Li, Si, Sa References: 363, 407, CK03, S72 (valid name is <i>N. pusilla</i> Lep. 1841, nec Rossi 1792, = <i>N. ferroviaria</i> Dusmet 1913)</p>	I	Low	3	Ortovero (Li).	
52	<p><i>Nomada goodeniana</i> (Kirby, 1802) <b>Sp. asiatico-europea</b> Pi, Lo, V, VT, Em, Abr, Bas, Cal References: 46, 208, 239, 363, 465, CK03, S68, S69</p>	I, II, III	Low	9	Sibari (Cal).	Andrena cineraria e c. danuvia, A. nigroaenea, A. nitida, A. nycthemera, A. thoracica, A. tibialis, A. carantonica

						Flora : limited Univoltine/ sometimes bivoltine
53	<b>Nomada gransassoi</b> Schwarz, 1986 <b>Sp. elvetico-italica</b> Abr References: 477, CK03, S11	III	Moderate	1	—	
54	<b>Nomada gribodoi</b> Schmiedeknecht, 1882 <b>Sp. iberico-italico-anatolica</b> Italy, Central Italy References: 91, CK03, CK12, L5	Not assessed	High last record: 1882	1	—	
55	<b>Nomada guttulata</b> Schenck, 1859 <b>Sp. asiatico-europea</b> Ao, Pi, FVG, La, Si References: 67, 202, 332, 363, 407, 457, CK03. CK09	I, II, III	Low	9	Sacrofano (La).	<b>Andrena labiata,</b> <b>? A. potentillae,</b> <b>A. florivaga,</b> <b>A. marginata</b>  Flora : limited  Univoltine
56	<b>Nomada hungarica</b> Dalla Torre & Friese, 1894 Syn of <i>Nomada lagrecai</i> Nobile, 1990 <b>Sp. centro-sud-europea</b> Pi, Si References: 332, 363, CK03	I	Moderate	2	—	
57	<b>Nomada illustris</b> Schmiedeknecht, 1882 <b>Sp. sud-ovest-europea</b> Italy, Li, To, Pu References: 1, 363, CK03, L5	I	Moderate	2	—	
58	<b>Nomada imperialis</b> Schmiedeknecht, 1882 <b>Sp. italico-sud-balcanico-est-mediterranea</b> Italy References: 109a, CK03	Not assessed	Not assessed	1	—	
59	<b>Nomada incisa</b> Schmiedeknecht, 1882 <b>Sp. italico-ovest-balcanica</b> FVG, To-La, Si References: 91, CK03, S50, CK12, L5	Not assessed	High	2	—	? <i>Eucera</i> sp.  Univoltine
60	<b>Nomada insignipes</b> Schmiedeknecht, 1882 <b>Sp. sud- e ovest-europeo-anatolico-est-mediterranea</b> Si References: 92, 363, 473, CK03, CK12	I	High last record: 1890	3	—	
	<b>Nomada insignipes insignipes</b> Schmiedeknecht, 1882 <b>Ssp. sud-ovest-europea</b> Si	I			—	

	References: 363					
	<i>Nomada insignipes leucosticta</i> Pérez, 1884 Ssp. sud-europeo-nord-balcanica Si References: 92, 473	Not assessed			—	
61	<i>Nomada integra</i> Brullé 1832 nec Schwarz 1967 Sp. turanico-europeo-maghrebina Ao, Pi, Li, V, VT, Em, To, La, Mo, Si References: 1, 100, 105, 206, 239, 332, 363, 468, CK03, S75b	I, II, III	Low	25	Valtournenche (Ao), Vasia (Li), Albano Laziale (La).	<i>Andrena humilis</i> Flora : limited Univoltine
	<i>Nomada integra integra</i> Brullé, 1832 Ssp. turanico-europeo-maghrebina Pi, Li, V, VT, Em, To, La, Mo, Si References: 100, 206, 239, 363, 468	I			—	
	<i>Nomada integra nigra</i> Schwarz, 1967 Ssp. sud-est-europea Li, VT, Em References: 1, 468	Not assessed			—	
62	<i>Nomada italica</i> Dalla Torre & Friese, 1894 Sp. turanico-centro- e sud-europea Pi, V, Em References: 205, 206, 458, CK03, CK12	I	Critic	3	—	<i>Andrena assimilis gallica</i> Flora: limited Bivoltine
63	<i>Nomada jacobaeae</i> Panzer, 1799 Sp. italica Lo, V, Sa (see table endemic species/subspecies) References: 31, 189, 203, 639, CK03	I	Moderate	5	—	<i>Andrena denticulata</i> , <i>A. flavipes</i>
64	<i>Nomada julliani</i> Schmiedeknecht, 1882 (syn of <i>N. panurgina</i> Mor.1869 in ref 1) Sp. ovest-mediterranea Si References: 1, 332	II	Moderate	1	—	? <i>Panurgus</i> sp.
65	<i>Nomada kohli</i> Schmiedeknecht, 1882 Sp. centro- e sud-europeo-maghrebina VT, Em, Bas, Si, Sa References: 100, 104, 203, 205, 239, 363, 416, 465, CK03	I	Low	12	—	<i>Lasioglossum puncticolle</i> , <i>L. villosulum</i> Flora : limited Partly bivoltine
66	<i>Nomada lathburiana</i> (Kirby, 1802) Sp. turanico-europea Pi, Lo, V, VT	I	Low	8	—	<i>Andrena cineraria</i> , <i>A. vaga</i> , <i>A. labialis</i> , <i>A. haemorrhhoa</i> Flora: limited

	References: 203, 239, 363, 407, CK03, S5, S68, S69, S75b					Univoltine/ sometimes bivoltine
67	<b>Nomada leucophthalma</b> (Kirby, 1802) <b>Sp. asiatico-europea</b> Pi, VT References: 239, 363, CK03, S68	III	Moderate	2	—	<b>Andrena apicata,</b> <b>A. nycthemera,</b> <b>A. clarkella</b>  Flora: limited  Univoltine
68	<b>Nomada linsenmaieri</b> Schwarz, 1974 <b>Sp. sud-ovest-europea</b> Pi, Si References: 332, 363, 370, CK03	I	Low	3	—	
69	<b>Nomada litigiosa</b> Gribodo, 1893 <b>Sp. centro-sud-europeo-?est-mediterranea</b> Si References: 220, 396, CK03	I	Moderate	2	—	
70	<b>Nomada maculicornis</b> Pérez, 1884 <b>Sp. sud-ovest-europeo-maghrebina</b> Pi, Li, To, Um-La, Abr, Cp, Bas, Pu, Si References: 363, CK03, L5	I	Not assessed	3	—	
71	<b>Nomada marshamella</b> (Kirby, 1802) <b>Sp. turanico-europea</b> Ao, Pi, V, VT, Em, To, Si, Sa References: 68, 208, 239, 363, 370, 457, 465, CK03, S68	I, II, III	Low	12	San Benedetto Belbo (Pi), Cuorgnè, Roncasso (Pi).	<b>Andrena</b> <b>carantonica,</b> <b>A. nigroaenea,</b> <b>A. nitida, A. rosae,</b> <b>A. trimmerana,</b> <b>A. assimilis gallica,</b> <b>A. spinigera</b>  Flora: limited  Univoltine/ ?bivoltine
72	<b>Nomada mauritanica</b> Lepeletier, 1841 (Present with the subspecies chrysopyga according to Schwarz and Gusenleiter (ref. 482) !!!) <b>Sp. centro-sud-europeo-nord-ovest-africano-medorientale</b> See also N. chrysopyga Morawitz, 1872) Cal, Si, Sa References: 7, 104, 315, 332, 363, 465, 639, CK03	I	Low	9	—	? <b>Andrena morio</b>  ?Univoltine
	<b>Nomada mauritanica mauritanica</b> Lepeletier, 1841 <b>Ssp. europeo-nord-ovest-africana</b> Si, Sa References: 104, 363, 465	I			—	
	<b>Nomada mauritanica manni</b> Morawitz, 1872 (the correct name is N. numida manni) <b>Sp. centro-sud-europeo-nord-ovest-africana</b>	I			—	<b>Andrena morio</b>

	Cal, Si, Sa References: 7, 104, 315, 332, 363, 639, S11					
73	<b>Nomada melathoracica</b> Imhoff, 1834 <b>Sp. centro-ovest-europea</b> Pi, Um References: 363, 416, CK03	I	Low	2	—	<b>Andrena agilissima</b>  Flora: limited  Univoltine
74	<b>Nomada mocsaryi</b> Schmiedeknecht, 1882 <b>Sp. centro-sud-europeo-anatolica</b> Pi, Ma, Um-Ma-Abr-La References: 363, 407, CK03, L5	I, II	Moderate	5	—	
75	<b>Nomada mutabilis</b> Morawitz, 1870 <b>Sp. palearctica</b> VT, Em, La References: 208, 239, CK03	I	Moderate	3	Monte Mario (La).	<b>Andrena polita</b> , <b>A. labialis</b> , <b>A. chrysopyga</b> , <b>A. labiata</b> , ? <b>Sphecodes ephippius</b>  Flora: limited  Univoltine
76	<b>Nomada mutica</b> Morawitz, 1872 <b>Sp. europea</b> Pi, VT, Em, To, Um, La References: 67, 204, 239, 289, 363, 416, 465, CK03, CK12	I	Low	8	Sacrofano (La).	<b>Andrena spinigera</b> , <b>A. ferox</b>  Flora: limited  Univoltine
77	<b>Nomada nausicaa</b> Schmiedeknecht, 1882 <b>Sp. sud-europeo-anatolico-est-mediterranea</b> Li, Pu, Si References: 1, 466, 482, CK03	I	Low	4	—	
78	<b>Nomada nigroflavida</b> Gribodo 1894 (elevation, not shared, to species of <i>Nomada fucata nigroflavida</i> Gribodo, 1894 syn. of <i>Nomada duplex</i> ) <b>Sp. sicula</b> Si (endemic of Sicily ? See table endemic sp/ssp) References: 378, CK03 (sub duplex)	Not assessed	High last record: 1895	1	—	
79	<b>Nomada nigrovaria</b> Pérez, 1895 <b>Sp. sud-ovest-europeo-nord-ovest-africana</b> Pi, Li, Lo, To References: 363, 370, 407, CK03	I	Low	5	Ortovero (Li).	
80	<b>Nomada nobilis</b> Herrich-Schaeffer, 1839 <b>Sp. europeo-maghrebina</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, La, Abr, Bas, Cal, Si References: 54, 68, 104, 193, 202, 203, 208, 315, 332, 363, 407, 458, CK03, S69, S75b	I	Low	26	Bossolasco (Pi), Ariccia (La).	<b>Andrena nasuta</b> , ? <b>Eucera interrupta</b>  Univoltine
81	<b>Nomada noskiewiczzi</b> Schwarz, 1966	I	Critic	1		

	Sp. centro-sud-europea La References: S50				—	
82	Nomada numida Lepeletier, 1841 Present with the ssp N. numida manni, which is not ssp of N. mauritanica (ref. 482). Sp. lusitanico-sardo-centro-europeo-sud-balcanica ? Sa References: 208, CK03, S11 (syn)	I	Moderate	1	—	
83	Nomada obtusifrons Nylander, 1848 Sp. asiatico-europea VT References: 239, CK03	I, II, III	Moderate	3	—	Andrena tarsata, A. coitana  Flora: limited  Univoltine
84	Nomada opaca Alfken, 1933 Sp. euro-asiatica (escl. Iberia) Abr References: S50	III	Critic	1	—	
85	Nomada pallispinosa Schwarz, 1967 Sp. italico-ovest-balcanico-anatolico-est-mediterranea FVG References: 1, 468, CK03	Not assessed	Not assessed	2	—	Univoltine
86	Nomada panurgina Morawitz, 1869 Sp. sud-ovest-europea Pi-Li, Si References: 104, CK03, CK12, L5	Not assessed	High	2	—	Panurgus dentipes
87	Nomada panzeri Lepeletier, 1841 Sp. asiatico-europea Ao, Pi, Lo, VT, FVG, Em, To, Abr, Si References: 68, 103, 186, 239, 332, 363, 407, CK03, S68, S69. CK09	I, II	Low	14	Pietraporzio (Pi).	A. nigroaenea, A. labiata, A. fulva, A. helvola, A. fucata, A. rogenhoferi, A. varians, A. ventralis, A. lapponica, A. synadelpha (absent in Italy)  Flora: ? limited  Univoltine
	Nomada panzeri panzeri Lepeletier, 1841 Ssp. europea Pi, VT, FVG, Em, To, Abr, Si	I, II			Pietraporzio (Pi).	
88	Nomada pectoralis Morawitz, 1877 Sp. sud-ovest-europeo-nord-balcanico-maghrebina La, Pu, Si References: 407, CK03, S50, CK12	I	Critic	3	—	Eucera hispana
89	Nomada piccioliana Magretti, 1883	I, II, III	Low	5	Monte Soratte (La).	Andrena combinata



	<b>Sp. caucasico-europea</b> Pi, VT, Em, To, Ma, La, Si References: 289, 363, 499, CK03, S50					Flora: limited Univoltine
90	<b>Nomada pleurosticta</b> Herrich-Schaeffer, 1839 <b>Sp. centro-sud-europeo-anatolico-maghrebina</b> La, Si References: 332, CK03 (absent in Italy), S50	II	Moderate	2	—	Andrena polita Flora: limited Univoltine
91	<b>Nomada posthuma</b> Blüthgen, 1949 <b>Sp. centro-sud europea</b> To, La, Si References: S50	I	Moderate	5	—	
92	<b>Nomada propinqua</b> Schmiedeknecht, 1882 <b>Sp. italico-ovest-balcanico-anatolico-est-mediterranea</b> Italy; La References: 1, CK03	I	Moderate	2	Tor Cervara (La).	
93	<b>Nomada rhenana</b> Morawitz, 1872 <b>Sp. europeo-maghrebina</b> Pi, V, Em, To, Ma, Um, Cal, Si References: 68, 189, 205, 206, 208, 225, 332, 363, 407, 465, 499, 634, CK03, CK12	I, II	Low	17	Cioccaro (Pi).	Andrena ovatula, A. lagopus, A. lathyri Flora: ?limited Bivoltine
94	<b>Nomada roberjeotiana</b> Panzer, 1799 <b>Sp. asiatico-europea</b> Pi, Lo References: 363, CK03, CK12, L5	II	Moderate	2	—	Andrena tarsata, A. coitana, Dufourea paradoxa Flora: ?limited Univoltine
	<b>Nomada roberjeotiana roberjeotiana</b> Panzer, 1799 <b>Ssp. europea</b> Pi	II			—	
95	<b>Nomada rubiginosa</b> Pérez, 1884 <b>Sp. sud-ovest-europeo-maghrebina</b> La, Si References: 104, CK03, S50	Not assessed	Critic	3	—	
96	<b>Nomada ruficornis</b> (Linnaeus, 1758) (= bifida Thomson, 1872) <b>Sp. asiatico-europea</b> Pi, Lo, V, VT, Em, To, Cp, Cal, Si References: 73, 104, 109, 239, 289, 363, 407, 634, CK03, S68, S69	I	Low	15	—	Andrena fucata, A. haemorrhhoa, A. helvola, A. lapponica, A. varians, A. ventralis A. barbilabris Flora: limited

						Univoltine
	<i>Nomada ruficornis ruficornis</i> (Linnaeus, 1758) Ssp. europea Pi, Lo, V, VT, Em, To, Cp, Cal, Si	I			—	Andrena ventralis
97	<i>Nomada rufipes</i> Fabricius, 1793 Sp. palearctica Pi, Li, Lo, V, VT, Em, La, Abr References: 46, 68, 203, 286, 363, 465, CK03, S50	I, II, III	Low	15	Villar Pellice (Pi), Angrogna (2 loc.) (Pi).	Andrena denticulata, A fuscipes  Flora: ?limited  Univoltine
98	<i>Nomada rufoabdominalis</i> Schwarz, 1963 Sp. italica Pi, Em, To, Abr, Cal (see table endemic species/subspecies) References: 363, 370, 465, 469, CK03, CK12	I, II	Low	6	—	
99	<i>Nomada sanguinea</i> Smith, 1854 Sp. ovest-mediterranea Li, La References: 465, CK03	I	Not assessed	1	—	
100	<i>Nomada sexfasciata</i> Panzer, 1799 Sp. asiatico-europea Ao, Pi, Lo, V, VT, Em, To, Um, La, Cp, Bas, Pu, Si, Sa References: 7, 46, 67, 104, 144, 203, 208, 247, 289, 332, 363, 407, 416, 457, 465, 634, 639, CK03. CK09	I, II	Slightest	45	San Benedetto Belbo (Pi), Tor Cervara (La), Roma (2 loc.) (La), Albano Laziale (2 loc.) (La), Ariccia (2 loc.) (La), Positano (Cp).	Eucera nigrescens, E. caspica, E. longicornis, E. interrupta  Flora: limited  Univoltine
101	<i>Nomada sheppardana</i> (Kirby, 1802) Sp. palearctica Pi, Li, V, Em, To, Um, La, Si References: 67, 206, 363, 416, 501, 508, CK03, S76 (sub N. minuscula Noskiewicz, 1930)	I	Slightest	13	Narzole (Pi), Monte Mario (La), Albano Laziale (La), Torre Paola (La).	Lasioglossum nitidiusculum, L. sexstrigatum, L. morio, ? Colletes spp.  Flora: limited  Bivoltine
	<i>Nomada sheppardana sheppardana</i> (Kirby, 1802) Ssp. europeo-maghrebina V, Em, La References: 206, 363	I			Albano Laziale (La).	
	<i>Nomada sheppardana minuscula</i> Noskiewicz, 1930 Ssp. europeo-maghrebina Pi, Li, To, La, Si References: 67, 363, 501	I			Narzole (Pi), Monte Mario (La), Torre Paola (La).	Lasioglossum glabriusculum, ? L. lucidulum, ? L. politum, ? L. griseolum
102	<i>Nomada siciliensis</i> Dalla Torre & Friese, 1894 (systematic of the species is very uncertain)	I	Critic	2	—	

	<b>Sp. sicula</b> Si (endemic of Sicily) References: 92, 99, CK12					
103	<b>Nomada sicula</b> Schwarz, 1974 <b>Sp. sicula</b> Si (endemic of Sicily; see table endemic species/subspecies) References: 332, 469, CK03, CK12	I	Low	10	Taormina (Si).	
104	<b>Nomada signata</b> Jurine, 1807 <b>Sp. europea</b> Em, Um, Bas, Si References: 104, 363, 386, 465, CK03, S68	I, II	Moderate	4	—	<b>Andrena fulva</b> , <b>A. haemorrhua</b>  <b>Flora: ?limited</b>  <b>Univoltine</b>
105	<b>Nomada similis</b> Morawitz, 1872 <b>Sp. europea</b> Ao, Pi, VT, Abr, Si References: 193, 239, 363, CK03, CK09	I, II	Low	6	Pragelato (Pi).	<b>Panurgus calcaratus</b> , <b>P. banksianus</b> , <b>Halictoides spp</b>  <b>Flora: limited</b>  <b>Univoltine</b>
106	<b>Nomada stigma</b> Fabricius, 1804 <b>Sp. ovest-paleartica</b> Pi, V, VT, Em, To, La, Abr, Si References: 46, 104, 208, 363, 370, 465, CK03, S39	I, II	Low	11	—	<b>Andrena schencki</b> , <b>A. labialis</b> , <b>A. humilis</b> , <b>A. taraxaci</b> , <b>A. decipiens</b> , <b>? A. flavilabris</b> , <b>A. labiata</b>  <b>Flora: ?limited</b>  <b>Partly bivoltine</b>
	<b>Nomada stigma stigma</b> Fabricius, 1804 <b>Ssp. europea ?</b> Pi, V, VT, Em, To, La, Abr, Si	I, II			—	
107	<b>Nomada stoeckherti</b> Pittioni, 1951 <b>Sp. centro-est-europeo-anatolica</b> Abr, Si References: C9, CK03, S50	II, III	Moderate	2	Rocca di Mezzo (Abr).	
108	<b>Nomada striata</b> Fabricius, 1793 <b>Sp. asiatico-europea</b> Ao, Pi, Li, Lo, VT, Em, To, La, Cal, Si, Sa References: 68, 208, 225, 239, 332, 363, 407, 457, 465, CK03, S69, CK09	I, II, III	Slightest	24	Colle delle Finestre (Pi), Pragelato (Pi), Monte Musinè (Pi), Tor Cervara (La).	<b>A. labialis</b> , <b>A. wilkella</b> , <b>A. fucata</b> , <b>A. lathyri</b> , <b>A. aberrans</b> , <b>A. intermedia</b> , <b>A. ocreata</b> , <b>A. gelriae</b> , <b>Halictus scabiosae</b>  <b>Flora: ?limited</b>

						Univoltine
109	<p><b>Nomada succincta</b> Panzer, 1798  <b>Sp. asiatico-europea</b>  Ao, Pi, Li, VT, Em, To, La, Abr, Cp, Si, Sa  References: 54, 74, 203, 239, 289, 332, 363, 485, 508, 639, CK03, S61. CK09</p>	I, II, III	Slightest	23	Monte Musinè (Pi), Vasia (Li), Monte Mario (La), Ariccia (La).	<p>Andrena sp, A. cineraria, A. nigroaenea, A. nitida, A. trimmerana, A. curvungula, Osmia spp.</p> <p>Flora: ? limited</p> <p>Univoltine</p>
110	<p><b>Nomada symphyti</b> Stöckert, 1930  <b>Sp. europea</b>  Ao, Pi, VT, V, FVG, Abr  References: 363, 370, CK03, S11, S50, CK12, L5</p>	I, III	Low	7	—	<p>Andrena symphyti</p> <p>Flora: limited</p> <p>Univoltine</p>
111	<p><b>Nomada thersites</b> Schmiedeknecht, 1882  <b>Sp. centro-asiatico-centro-sud-europea</b>  Si  References: 363, CK03,L5</p>	I	Moderate	2	—	
112	<p><b>Nomada tridentirostris</b> Dours, 1873  <b>Sp. centro-sud-europeo-maghrebina</b>  Lo, Em, To, La, Abr, Si, Sa  References: 289, 363, 376, 465, CK03, L1</p>	I, II	Low	9	Percile (La).	<p>Andrena ventricosa</p> <p>Bivoltine</p>
113	<p><b>Nomada trispinosa</b> Schmiedeknecht, 1882  <b>Sp. sud-est-europeo-sud-asiatica</b>  La, Si  References: S50</p>	I	Moderate	3	—	
114	<p><b>Nomada unispinosa</b> Schwarz, 1981  <b>Sp. italico-sud-balcanico-anatolica</b>  FVG  References: 1, 476, CK03, CK12, L5</p>	Not assessed	High last record: 1896 ?	2	—	
115	<p><b>Nomada verna</b> Schmiedeknecht, 1882  <b>Sp. centro-sud-est-europea</b>  V, Em, To, Si  References: 203, 332, 363, 416, 465, CK03</p>	I	Low	6	—	<p>Andrena tscheki</p> <p>Univoltine</p>
116	<p><b>Nomada villosa</b> Thomson, 1870  <b>Sp. caucasico-europea</b>  Ao, Pi, VT  References: 239, 363, CK03, CK12. CK09</p>	I, II, III	Moderate	3	Colle delle Finestre (Pi).	<p>Andrena lathyri, A. wilkella</p> <p>Flora: ?limited</p> <p>Univoltine</p>
117	<p><b>Nomada zonata</b> Panzer, 1798  <b>Sp. paleartica</b>  Lo, V, VT, Em, Um, Si</p>	I	Low	9	—	<p>Andrena ovatula, A. dorsata, A. propinqua,</p>

	References: 180, 190, 239, 338, 416, 465, CK03, S68, S69					A. congruens, A. ventralis, A. sericata, ? A. symphyti, ? A. lagopus, ? A. morio, Halictus maculatus  Flora: ? limited  Bivoltine
	<i>Nomada zonata zonata</i> Panzer, 1798 Ssp. centro-europea V References: 190, 499	Not assessed			—	
	<i>Nomada zonata pulcherrima</i> Stöckert, 1941 Ssp. centro-sud-europea ? V, VT, Em References: 239, 465, 499	I			—	
	Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800-1600 III = 1600-2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism (hosts)  Floral preferences  Number of annual generations
<b>Gen. Pasites Jurine, 1807</b>						
1	<i>Pasites maculatus</i> Jurine, 1807 <i>Sp. palearctica</i> Pi, Li, Lo, V, VT, FVG, Em, To, Um, La, Si References: 67, 169, 178, 189, 214, 363, 365, 407, 416, 592, 634, CK03, S76, L1	I	Slightest	21	Garlenda (Li), Maccarese (La), Monte Mario (La), Isola Vulcano (Si).	Pseudapis diversipes, P. bispinosa, Melitturga clavicornis  Univoltine

	Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800- 1600 III = 1600- 2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism (hosts)  Floral preferences  Number of annual generations
<b>Gen. Ammobates Latreille, 1809</b>						
<b>Subgen. Ammobates Latreille, 1809</b>						
1	<b>Ammobates punctatus</b> (Fabricius, 1804) Sp. centro-sud-europeo-maghrebina Pi, Li, Lo, VT, FVG, Em, To, La, Cp, Cal, Si References: 63, 68, 169, 193, 202, 203, 205, 214, 225, 363, 407, 592, CK03, S4, S5, S68, S76	I, II	Low	18	Luserna San Giovanni (Pi), Val di Varri (La).	Anthophora bimaculata  Flora: ?limited  Univoltine
2	<b>Ammobates rufiventris</b> Latreille, 1809 Sp. ovest-mediterranea Si References: 592, CK03	I	Not assessed	1	---	
3	<b>Ammobates similis</b> Mocsáry, 1894 Sp. sud-est-europeo-anatolica Em, To References: 206, 592, CK03	I	Moderate	2	---	
4	<b>Ammobates vinctus</b> Gerstaecker, 1869 Sp. caucasico-europeo-ovest-mediterraneo-anatolica Pi, VT References: 169, 363, CK03	I	Moderate	2	---	Tetraloniella graja, T. dentata, T. inulae  Univoltine
<b>Subgen. Euphileremus Popov, 1951</b>						
5	<b>Ammobates muticus</b> Spinola, 1843 Sp. sud-europeo-nord-africana Em, Cal, Si References: 104, 169, 203, 214, CK03	I	Moderate	7	---	Eucera nigrifacies, E. seminuda
6	<b>Ammobates oraniensis</b> (Lepelletier, 1841) Sp. turanico-europeo-mediterraneo-macaronesica Cal ?, Si References: 169, 193, 384, 592, CK03	I	Low	4	---	
	<b>Ammobates oraniensis oraniensis</b> (Lepelletier, 1841) Ssp. turanico-europeo-mediterraneo-macaronesica Cal ?, Si	I			---	

	Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800- 1600 III = 1600- 2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism (hosts)  Floral preferences  Number of annual generations
<b>Gen. Ammobatoides Radoszkowski, 1868</b>						
1	<b>Ammobatoides abdominalis</b> (Eversmann, 1852) <b>Sp. centro-asiatico-sud- e est-europea</b> Ao, Pi, Lo, V, VT, Em, La, Abr References: 67, 180, 189, 203, 363, C12, CK03, CK12, L1, S75b	I	Low	8	—	Melitturga clavicornis, M. praestans (absent in Italy), M. pictipes (absent in Italy)
2	<b>Ammobatoides luctuosus</b> (Friese, 1911) <b>Present in Italy, Lithuania, Moldova, Bulgaria, Turkey</b> Italy (absent in Italy ?) References: 271, CK03	Not assessed	Not assessed	1	—	

	Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800- 1600 III = 1600- 2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism (hosts)  Floral preferences  Number of annual generations
<b>Gen. Biastes Panzer, 1806</b>						
1	<b>Biastes brevicornis</b> (Panzer, 1798) <b>Sp. caucasico-europeo-anatolica</b> Ao, Pi, Lo, V, VT, Em, La, Si References: 169, 189, 206, 208, 363, 370, 492, CK03, S69, L1, S75b	I	Low	13	Monte Mario (La).	Systropha curvicornis, S. planidens Gir.1861 (absent in Italy)  Visits the host's flora  Univoltine
2	<b>Biastes emarginatus</b> (Schenck, 1853)	I	Moderate	2	—	Rophites

	<b>Sp. caucasico-europea</b> Italy; Pi References: 205, 363, CK03, S5					quinquespinosus, R. algerus, R. a. Trispinosus, Systropha curvicornis, S. planidens  Flora: limited  Univoltine
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Taxon	Distribution	Distribution of the records in Italian regions	References	Altitude (Italy) I = 0-800 II = 800-1600 III = 1600-2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism (hosts)	Floral preferences	Number of annual generations
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**Gen. Epeolus Latreille, 1802**

1	<b>Epeolus alpinus</b> Friese, 1893 <b>Sp. nord-centro-sud-europea</b> Pi, VT References: 239, 363, CK03, L1	III	Low	4	—	Colletes impunctatus, C. floralis  Flora: varied  Univoltine
2	<b>Epeolus compar</b> Alfken, 1937 <b>Sp. sardo-corsa</b> Sa (endemic of Sardinia; see table endemic species/subspecies) References: 7, CK03, CK12	I	Critic last record: 1930	1	—	
3	<b>Epeolus cruciger</b> (Panzer, 1799) <b>Sp. asiatico-europea</b> Ao, Pi, Lo, Li, VT, Em, To, La, Pu References: 46, 68, 203, 204, 205, 239, 363, CK03, CK12, L1, S75b	I	Low	13	Villar Pellice (Pi), Monte Mario (La), Anticoli Corrado (La).	Colletes fodiens, C. succinctus, C. hederæ, C. marginatus  Flora: limited  Univoltine
4	<b>Epeolus fallax</b> Morawitz, 1872 <b>Sp. ovest-mediterranea</b> Italy; La References: 169, CK03	I	Moderate	2	Monte Mario (La).	Colletes succinctus



5	<b>Epeolus fasciatus</b> Friese, 1895 <b>Sp. centro-est-europea</b> VT (presence in Italy to be confirmed) References: 169, CK03 (absent in Italy), CK12	I	High last record: 1890	1	—	<b>Colletes punctatus</b> <b>Mocs.</b> (absent in Italy)
6	<b>Epeolus intermedius</b> Pérez, 1884 (The taxonomic status is not clear) <b>Sp. nordmediterranea</b> Italian mainland, Sa References: CK1, CK6	Not assessed	Not assessed	2	—	
7	<b>Epeolus julliani</b> Pérez, 1884 <b>Sp. sud-europeo-anatolica</b> Li, V, Em, To, Cal, Pu, Sa References: 7, 190, 203, 204, 208, 363, CK03	I	Low	9	Ortovero (Li).	
8	<b>Epeolus productulus</b> Bischoff, 1930 <b>Sp. helvetico-austriaca</b> Italy References: CK01	Not assessed	Not assessed	1	—	
9	<b>Epeolus schummeli</b> Schilling, 1849 <b>Sp. centro-est-europeo-anatolica</b> Pi References: 68, CK03 (absent in Italy), S5	I	Moderate	1	Angrogna (Pi).	? <b>Colletes graeffei</b> , <b>C. nasutus</b> (absent in Italy)
10	<b>Epeolus siculus</b> Giordani Soika, 1944 <b>Sp. sicula</b> Si (endemic of Sicily; see table endemic species/subspecies) References: 193, CK03, CK12	I	Moderate	1	—	
11	<b>Epeolus tarsalis</b> Morawitz, 1873 <b>Sp. asiatico-centro-europea</b> VT (presence in Italy to be confirmed) References: 391, CK03 (absent in Italy), CK12	I	High last record: 1900	1	—	<b>Colletes succinctus</b> , ? <b>C. collaris</b>
	<b>Epeolus tarsalis praeustus</b> Pérez, 1884 <b>Ssp. centro-europea</b> VT References: 391	I			—	? <b>Colletes collaris</b> , <b>C. succinctus</b>
12	<b>Epeolus transitorius</b> Eversmann, 1852 <b>Sp. mediterraneo-anatolico-caucasico-maghrebina</b> Italy, Sa References: CK01, CK05, CK06	Not assessed	Not assessed	1	—	
13	<b>Epeolus variegatus</b> (Linnaeus, 1758) <b>Sp. caucasico-europeo-anatolico-nord-ovest-africana</b> Pi, Li, Lo, V, VT, Em, To, La, Mo, Cal, Pu, Si, Sa References: 68, 104, 109, 169, 363, 370, 400, 634, CK03, S5, S69, L1	I, II	Slightest	17	Luserna San Giovanni (Pi), Monte Mario (La).	<b>Colletes</b> <b>daviesanus</b> , <b>C. fodiens</b> , <b>C. similis</b> , <b>C. halophilus</b> (absent in Italy) <b>Anthophora retusa</b>

						Flora: varied Univoltine
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Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800-1600 III = 1600-2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism (hosts) Floral preferences Number of annual generations
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**Gen. Triepeolus Robertson, 1901**

1	<b>Triepeolus tristis</b> (Smith, 1854) <b>Sp. asiatico-europeo-anatolica</b> Pi, Lo, V, VT, FVG, Mo References: 169, 189, 363, 400, 416, CK03, CK12, L1	I	Low	7	—	Colletes succinctus; ? C. hylaeiformis, Tetralonia malvae, Tetraloniella dentata, T. nana  Univoltine
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Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800-1600 III = 1600-2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Cleptoparasitism (hosts) Floral preferences Number of annual generations
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**Gen. Epeoloides Giraud, 1863**

1	<b>Epeoloides coecutiens</b> (Fabricius, 1775) <b>Sp. caucasico-europea</b> Pi, Em References: 363, 634, CK03, S5	I	Not assessed	2	—	Macropis fulvipes, M. europea, M. labiata, ? M. frivaldskyi  Flora: varied  Univoltine
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	Taxon Distribution Distribution of the records in Italian regions References	Altitude (Italy) I = 0-800 II = 800-1600 III = 1600-2100 IV = > 2100	Risk of extinction	No. of sites	Comba Collection (place, region)	Social parasitism Floral preferences Number of annual generations
<b>Gen. <i>Bombus</i> Latreille, 1802</b>						
<b>Subgen. <i>Alpigenobombus</i> Skorikov, 1914</b>						
1	<b><i>Bombus wurflenii</i></b> Radoszkowski, 1859 <b>Sp. asiatico-europea</b> Ao, Pi, Lo, V, VT, FVG, Em, To, Cal References: 20, 44, 58, 59, 60, 62, 64, 116, 210, 217, 223, 224, 225, 227, 237, 242, 363, 385, 389, 390, 427, 430, 514, 608, C4, CK03, S40, S53, L1	I, II, III, IV	Slightest	171	Plan Pincieux (Ao), Valli del Pellice, Angrogna e Germanasca (26 loc.) (Pi), Monte Mottarone (Pi), Alpe il Prato (Pi), Lago della Vecchia (Pi), Valgrande (V), Passo Tre Croci (V), Passo Cimebanche (V), Avelengo (VT), Zwölferkotel (V), Dobbiaco (VT).	Polyleptic  Univoltine
	<b><i>Bombus wurflenii mastrucatus</i></b> Gerstaecker, 1869 Mountain areas: Alps, Apennines, Tatra, Carpathians, Balkans Ao, Pi, Lo, V, VT, FVG, Em, To, Cal References: 20, 44, 58, 59, 60, 62, 64, 116, 210, 217, 223, 224, 225, 227, 237, 242, 363, 385, 389, 390, 427, 430, 514, 608, C4, S40	I, II, III, IV			See <i>B. wurflenii</i>	
<b>Subgen. <i>Alpinobombus</i> Skorikov, 1914</b>						
2	<b><i>Bombus alpinus</i></b> (Linnaeus, 1758) <b>Sp. europea</b> Ao, Pi, Lo, V, VT References: 46, 58, 64, 109, 390, CK03, S40, CK12, CK09, L1, L3	II, III, IV	High	21	Conca del Lago Lauson (Pi).	? According to some AA is a social parasites  Flora: varied  Univoltine
	<b><i>Bombus alpinus helleri</i></b> Dalla Torre, 1882 Alps, Balkans, Carpathians Pi, V, VT References: 46, 58, 64, 109, 390, S40	II, III, IV			See <i>B. alpinus</i>	
3	<b><i>Bombus confusus</i></b> Schenck, 1859 [ <i>Confusibombus</i> Ball, 1914] <b>Sp. asiatico-europea</b> Pi, VT, FVG, Em References: 11, 31, 48, 58, 200, 202, 237, 390, 456, CK03, CK12	I, II, III	Critic	14	—	Polyleptic  Univoltine

	<i>Bombus confusus confusus</i> Schenck, 1859 Europe Pi, VT, FVG, Em	I, II, III			—	
<b>Subgen. <i>Bombus</i> Latreille, 1802</b>						
4	<i>Bombus cryptarum</i> Fabricius, 1775 <b>Sp. olartica</b> Ao, Pi, Lo, V, VT, To References: 11, 242, 422, CK03, S3, S7, S40, S16a, S76, L1	I, II, III, IV	Moderate	22	—	Polylectic
	<i>Bombus cryptarum cryptarum</i> Fabricius, 1775 Central and Northern Europe Pi	I, II, III			—	
	<i>Bombus cryptarum reinigianus</i> Rasmont, 1984 Northern Italy, Balkans, West Anatolia Ao, Pi, Lo, V, VT References: 242, 422, S40	I, II, III			—	
5	<i>Bombus lucorum</i> (Linnaeus, 1761) <b>Sp. olartica</b> Ao, Pi, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si, Sa References: 7, 11, 20, 44, 46, 47, 50, 58, 60, 62, 63, 64, 67, 71, 77, 81, 87, 109, 115, 160, 179, 181, 204, 205, 208, 210, 242, 243, 295, 297, 299, 301, 363, 386, 390, 398, 411, 421, 439, 440, 445, 514, 632, 634, C4, C5, CK03, S7, S9, S18, S40, S43, S53, S16a, S68, L1	I, II, III, IV	Slightest	395	Valli del Pellice, Angrogna e Germanasca (33 loc.) (Pi), Territorio Agordino (9 loc.) (V), Villabassa (VT), Dobbiaco (2 loc.) (VT), Passo di Campolongo (VT), Perugia (Um), Monte Tezio (4 loc.) (Um), Monte Subasio (4 loc.) (Um), Col Fiorito (Um), Percile (La), ? Torre Paola (La), Marsia (Abr), P. N. Abruzzo (8 loc.) (Abr), Ovindoli (Abr), Bosco della Peligna (Abr).	<i>Bombus bohemicus</i> , ? <i>B. vestalis</i>  Polylectic  Univoltine
	<i>Bombus lucorum arizoensis</i> Krueger, 1951 <b>Ssp. sardo-corsa</b> Sa; Cp? (endemic of Sardinia; see table endemic specie/subspecies) References: 7, 81, 411	I			—	
	<i>Bombus lucorum lucorum</i> (Linnaeus, 1761) Europe, Anatolia Ao, Pi, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si, Sa References: 67, 160, 179, 181, 204, 205, 208, 210, 242, 243, 297, 299, 301, 363, 386, 390, 398, 411, 421, 439, 440, 445, 514, 632, 634, S40, S43	I, II, III, IV			Valli del Pellice, Angrogna e Germanasca (33 loc.) (Pi), Territorio Agordino (9 loc.) (V), Villabassa (VT), Dobbiaco (2 loc.) (VT), Passo di Campolongo (VT), Perugia (Um), Monte Tezio (4 loc.) (Um), Monte Subasio (4 loc.) (Um), Col Fiorito (Um), Percile (La), ? Torre Paola (La), Marsia (Abr), P. N. Abruzzo (8 loc.) (Abr), Ovindoli (Abr), Bosco della Peligna (Abr).	
6	<i>Bombus magnus</i> Vogt, 1911 presence in Italy to be confirmed <b>Sp. Europea</b> ? Pi, ?VT, ?FVG	III	Not assessed	3	—	Polylectic

	References: 15, 109a, CK03 (absent in Italy), S3, S7					
7	<p><b>Bombus terrestris</b> (Linnaeus, 1758)  <b>Sp. cosmopolita</b>  Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si, Sa  References: 7, 11, 14, 30, 33, 43, 44, 46, 56, 58, 59, 60, 61, 62, 63, 64, 66, 67, 87, 89, 94, 106, 109, 116, 158, 159, 162, 180, 181, 200, 202, 204, 206, 208, 209, 210, 218, 223, 224, 225, 227, 237, 242, 243, 260, 266, 278, 286, 290, 293, 294, 295, 298, 299, 300, 303, 327, 363, 365, 366, 386, 387, 388, 390, 411, 412, 415, 416, 420, 424, 432, 434, 438, 439, 440, 445, 449, 507, 514, 539, 540, 547, 565, 632, 634, 638, 639, 640, C3, C5, C10, C13, CK03, S4, S7, SO, S16, S18, S28, S38, S40, S42, S43, S53, S16a, S61, S68, S69, S76, S90a, S91, L1</p>	I, II, III, IV	Slightest	684	<p>Entrèves (Ao), Casale Monferrato (Pi), Valli del Pellice, Angrogna e Germanasca (28 loc.) (Pi), Sulbiate (Lo), Bussolengo (V), Valgrande (V), Territorio Agordino (6 loc.) (V - VT), Colle Romito (To), Fiume Segontino (Ma), Montegallo (Ma), Castelvechio (Ma), Pieve Torina (Ma), Monte Prata (Ma), Monte Rotondo (2 loc.) (Ma), Perugia and surround. (7 loc.) (Um), Monte Subasio (4 loc.) (Um), Monte Tezio (6 loc.) (Um), Alto Lazio (3 loc.) (La), Monti Lucretili (3 loc.) (La), Monti della Tolfa (La), Rome and surround. (16 loc.) (La), Ardea (La), Subiaco (La), Palestrina (La), Saracinesco (La), Monte Tuscolo (La), Ariccia-Albano Laziale (10 loc.) (La), Velletri (La), Litorale Lazio sud (5 loc.) (La), P. N. Abruzzo e dint. (6 loc.) (Abr), Ovindoli (Abr), Marsia (Abr), Sorrento (Cp), Fisciano (Cp), Ficuzza (Si), San Leone (Si), Pantelleria (Si). Sardegna da Nord a Sud (6 loc.) (Sa).</p>	<p><b>Bombus vestalis</b>,  ? <b>B. bohemicus</b></p> <p>Polylectic</p> <p>Univoltine/  Bivoltine only in  the Mediterranean  scrub</p>
	<p><b>Bombus terrestris calabricus</b> Krueger, 1958  <b>Southern Italy, Sicily</b>  La, Abr, Mo, Bas, Cal, Pu, Si (see table endemic species/subspecies)  References: 14, 44, 210, 218, 225, 227, 363, 366, 416, 514, 539, 540, S43</p>	I, II, III			<i>Bosco della Ficuzza (Si).</i>	
	<p><b>Bombus terrestris dalmatinus</b> Dalla Torre, 1882  Balkan Peninsula, Southeastern France, Northern and Central Italy  Lo, V, To, Ma, Cp, Bas, Cal, Pu, Si  References: 94, 411, 420</p>	I, II			—	
	<p><b>Bombus terrestris ferrugineus</b> Schmiedeknecht, 1878  Southern France, Italy, Iberian Peninsula, Balearic Islands  Ao, VT, To, Ma, La, Abr  References: 44, 243, 386, 390, 424</p>	I, II			—	
	<p><b>Bombus terrestris sassaricus</b> Tournier, 1890  <b>Ssp. sardo-corsa</b>  Sa (endemic of Sardinia; see table endemic species/subspecies)  References: 7, 44, 206, 260, 266, 294, 295, 327, 363, 411, 416, 640, C5, C10, S67</p>	I, II			<i>Sardegna da Nord a Sud (6 loc.) (Sa).</i>	
	<p><b>Bombus terrestris terrestris</b> (Linnaeus, 1758)  Central and Western Europe, Northern Italy. Introduced</p>	I, II, III, IV			See <i>B. terrestris</i> sp.	<b>Bombus vestalis</b>

	<p>in Spain. Ao, Pi, Li, Lo, V, VT, Em, To, Ma, Um, La, Abr, Cp, Bas, Cal, Si References: 67, 106, 158, 159, 204, 206, 210, 218, 223, 224, 237, 278, 286, 290, 293, 298, 299, 303, 363, 365, 390, 411, 415, 416, 424, 432, 434, 438, 439, 440, 445, 507, 514, 638, C3, C5, S40, S43</p>					
	<p><i>Bombus terrestris xanthopus</i> Kriechbaumer, 1870 <i>Ssp. sardo-corsa</i> To, Corsica (F); introduced in Spain (see table endemic species/subspecies) References: 300, 363, 424, 507, S64, CK12 (as species)</p>	I, II			—	
<b>Subgen. Kallobombus Dalla Torre, 1880</b>						
8	<p><b>Bombus soroensis</b> (Fabricius, 1776) <i>Sp. asiatico-europea</i> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal References: 11, 20, 44, 46, 50, 58, 59, 60, 61, 62, 63, 64, 67, 87, 115, 160, 181, 201, 202, 210, 223, 224, 227, 237, 242, 290, 363, 386, 390, 398, 411, 428, 439, 440, 456, 514, 638, C4, C6, CK03, S9, S18, S40, S53, S61, L1</p>	I, II, III, IV	Slightest	301	<p>Entrèves (Ao), Plan Pincieux (Ao), Colle delle Finestre (Pi), Sauze d' Oulx (Pi), Valli del Pellice, Angrogna e Germanasca (43 loc.) (Pi), Val Cervo (Pi), Comelico Superiore (V), Passo Cimebianche (V), Camporotondo (Abr), Val Fondillo (Abr), Madonna di Tronchillo (Abr).</p>	<p><i>Bombus quadricolor globosus</i> (absent in Italy), <i>B. campestris</i>, <i>B. meridionalis</i>, <i>B. sylvestris</i>, ? <i>B. bohemicus</i></p> <p>Polyleptic</p> <p>Univoltine</p>
	<p><i>Bombus soroensis lectitatus</i> Kruseman, 1958 Cantabrians, Pyrenees, Central Apennines Ma, Um, Abr References: 386, 411, 439, 440, C6</p>	II, III			Camporotondo (Abr).	<i>Bombus quadricolor</i>
	<p><i>Bombus soroensis proteus</i> Gerstaecker, 1869 Central and Southern Europe, Iran, Asia Minor Ao, Pi, Li, Lo, V, VT, FVG, To, Bas, Cal References: 11, 20, 44, 46, 58, 59, 60, 61, 62, 64, 160, 202, 210, 223, 224, 227, 237, 242, 363, 390, 411, 428, 456, 514, C4, S40</p>	I, II, III, IV			<p>Entrèves (Ao), Plan Pincieux (Ao), Colle delle Finestre (Pi), Sauze d' Oulx (Pi), Valli del Pellice, Angrogna e Germanasca (40 loc.) (Pi), Val Cervo (Pi), Comelico Superiore (V), Passo Cimebianche (V).</p>	<i>Bombus quadricolor meridionalis</i> , ? <i>B. campestris</i>
	<p><i>Bombus soroensis soroensis</i> (Fabricius, 1776) <i>Northern Europe, Italy, Carpathians, Anatolia, North Iran</i> Pi, Lo, Em, Ma, Um, La, Abr, Cp, Bas, Cal References: 50, 67, 242, 411, 440, 514, 638</p>	I, II, III, IV			<p>Massello (Pi), Alpe Lauson (Pi), Conca Cialancia (Pi), Val Fondillo (Abr), Madonna di Tronchillo (Abr).</p>	
<b>Subgen. Megabombus Dalla Torre, 1880</b>						
9	<p><b>Bombus argillaceus</b> (Scopoli, 1763) <i>Sp. olartica</i> Ao, Pi, Li, Lo, V, VT, FVG, Em, (?La, ?Sa: specimens uncertain) References: 11, 20, 33, 43, 44, 54, 58, 60, 64, 71, 87, 89,</p>	I, II	Slightest	108	Angrogna (2 loc.) (Pi).	<p><i>Bombus maxillosus</i>, <i>B. barbutellus</i></p> <p>Polyleptic</p>

	109, 179, 180, 189, 200, 202, 204, 210, 217, 247, 278, 286, 287, 301, 303, 306, 363, 374, 390, 411, 416, 449, 484, 492, 522, C8, CK03, S40, S53, S61. CK09, L1					
10	<b>Bombus gerstaeckeri</b> Morawitz, 1882 <i>Sp. centro-europea</i> Ao, Pi, Lo, V, VT, FVG, Abr References: 20, 62, 210, 237, 390, 398, CK03, S58, CK12, L1	II, III, IV	Low	16	Perrero (Pi), Chiesa Val Malenco (Lo), Canale d'Agordo (V), Val Sissanis (FVG), Stretta di Fleona (FVG).	Oligoleptic  Univoltine
11	<b>Bombus hortorum</b> (Linnaeus, 1761) <i>Sp. asiatico-europea</i> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si, Sa References: 11, 20, 44, 50, 58, 59, 60, 62, 63, 64, 67, 71, 77, 87, 89, 100, 106, 108, 109, 162, 180, 181, 189, 206, 208, 210, 216, 218, 225, 237, 242, 243, 266, 278, 286, 299, 301, 303, 322, 363, 382, 386, 387, 389, 390, 411, 415, 416, 439, 440, 441, 449, 450, 451, 457, 485, 508, 514, 539, 540, 565, 634, 638, 640, C4, CK03, S9, S18, S28, S40, S43, S53, S61, S67 (absent in Sardinia !), S68, S69, S77, S91. CK09, L1	I, II, III, IV	Slightest	386	Valli del Pellice, Angrogna e Germanasca (24 loc.) (Pi), Monte San Vicino (Ma), Monte Prata (Ma), Monte Subasio (3 loc.) (Um), Monte Tezio (Um), Percile (La), Villa d'Orazio (La), Palestrina (La), Prima Porta (La), Ariccia-Albano Laziale (2 loc.), P. N. Abruzzo (4 loc.) (Abr).	<b>Bombus barbutellus</b> , <b>B. campestris</b> , ? <b>B. maxillosus</b>  Polyleptic  Univoltine/ bivoltine in favorable years
	<b>Bombus hortorum hortorum</b> (Linnaeus, 1761) <i>Ssp. europea</i> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si, Sa S40, S43	I, II, III, IV			Valli del Pellice, Angrogna e Germanasca (24 loc.) (Pi), Monte San Vicino (Ma), Monte Prata (Ma), Monte Subasio (3 loc.) (Um), Monte Tezio (Um), Percile (La), Villa d'Orazio (La), Palestrina (La), Prima Porta (La), Ariccia-Albano Laziale (2 loc.), P. N. Abruzzo (4 loc.) (Abr).	
12	<b>Bombus ruderatus</b> (Fabricius, 1775) (= autumnalis Fabricius, 1793) <i>Sp. europeo-maghrebino-macaronesica</i> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si, Sa References: 7, 20, 44, 54, 63, 64, 65, 67, 69, 71, 73, 181, 200, 202, 204, 205, 206, 208, 209, 210, 216, 239, 243, 260, 278, 293, 297, 299, 327, 363, 374, 382, 386, 387, 411, 416, 438, 439, 440, 445, 449, 492, 514, 540, 547, 551, 565, 569, 636, C10, C12, C13, CK03, S4, S9, S18, S28, S40, S43, S65, S67, S90a, L1	I, II, III	Slightest	317	Bussolengo (V), Firenze (To), Pieve Torina (Ma), Montegallo (Ma), Monte Subasio (3 loc.), Monte Tezio (Um), Perugia and surround. (3 loc.) (Um), Alto Lazio (3 loc.) (La), S. Maria di Galeria (La), Vejo (La), Monti Lucretili (4 loc.) (La), Campagnano (La), Subiaco (La), Palestrina (La), Sacrofano (La), Prima Porta (La), Rome and surround. (9 loc.) (La), Albano Laziale-Ariccia (3 loc.) (La), Ardea (La), Ostia Antica (La), Monte Circeo (La). P. N. Abruzzo (2 loc.) (Abr), Bosco della Peligna (Abr), Nuoro (Sa), Ittireddu (Sa).	<b>Bombus maxillosus</b> , <b>B. barbutellus</b>  Polyleptic  Univoltine
	<b>Bombus ruderatus atrocorticulosus</b> Vogt, 1909 <i>Ssp. italica</i> V, Em, To, Ma, Um, La, Abr, Cp, Bas, Cal, Pu, Si (see table endemic species/subspecies) References: 204, 205, 206, 209, 210, 382, 386, 411, 439, 440, S43	I, II, III			—	

	<p><i>Bombus ruderatus autumnalis</i> Dalla Torre, 1882  <b>Ssp. europea</b>  Ao, Pi, Li, V, FVG, Em, To, Ma, Um, La, Abr, Mo, Bas, Cal, Si  References: 20, 44, 63, 64, 65, 67, 69, 71, 200, 202, 204, 206, 208, 216, 243, 278, 293, 297, 299, 363, 386, 411, 416, 438, 439, 440, 445, 449, 492, 514, 636, C10, S40, S43</p>	I, II, III		<p>Bussolengo (V), Firenze (To), Pieve Torina (Ma), Montegallo (Ma), Monte Subasio (3 loc.), Monte Tezio (Um), Perugia and surround. (3 loc.) (Um), Alto Lazio (3 loc.) (La), S. Maria di Galeria (La), Vejo (La), Monti Lucretili (4 loc.) (La), Campagnano (La), Subiaco (La), Palestrina (La), Sacrofano (La), Prima Porta (La), Rome and surround. (9 loc.) (La), Albano Laziale-Ariccia (3 loc.) (La), Ardea (La), Ostia Antica (La), P. N. Abruzzo (2 loc.) (Abr), Bosco della Peligna (Abr).</p>	Bombus maxillosus	
	<p><i>Bombus ruderatus ruderatus</i> (Fabricius, 1775)  Iberian Peninsula, Italy, North Africa, Macaronesia  Pi, Bas, Si  References: 363, S43</p>	I		<p>Monte Circeo (La).</p>		
	<p><i>Bombus ruderatus sardiniensis</i> Tournier, 1890  <b>Ssp. sardo-corsa</b>  Sa (see table endemic species/subspecies)  References: 7, 204, 206, 260, 327, 363, 411, 416, 569, C12, S67</p>	I		<p>Nuoro (Sa), Ittireddu (Sa).</p>		
	<p><i>Bombus ruderatus siculus</i> Friese, 1909  <b>Ssp. sicula</b>  Si (endemic of Sicily - see table endemic species/subspecies)  References: 44, 363, S43</p>	I		<p>—</p>		
<b>Subgen. Melanobombus Dalla Torre, 1882</b>						
13	<p><b>Bombus lapidarius</b> (Linnaeus, 1758)  in contact zones, intermediate phenotypes between subspecies have been reported  <b>Sp. palearctica</b>  Ao, Pi, Li, Lo, V, VT FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si  References: 11, 20, 33, 43, 44, 46, 47, 50, 58, 59, 60, 61, 62, 63, 64, 66, 67, 71, 77, 87, 89, 102, 106, 109, 162, 180, 181, 200, 202, 204, 205, 206, 208, 210, 219, 223, 224, 237, 242, 243, 247, 278, 286, 297, 298, 299, 301, 303, 363, 374, 381, 386, 387, 390, 398, 411, 415, 416, 428, 431, 432, 434, 438, 439, 440, 445, 449, 457, 492, 508, 514, 634, 638, 640, C4, C5, C7, C10, CK03, S4, S9, S18, S28, S37, S40, S42, S43, S53, S16a, S61, S69, S90a, S91. CK09</p>	I, II, III, IV	Slightest	722	<p>Valli del Pellice, Angrogna, Germanasca (27 loc.) (Pi), Monte Mottarone (Pi), Bussolengo (V), Passo Tre Croci (V), Croda Alta (VT), Dobbiaco (VT), Villabassa (VT), Monte Prata (Ma), Monte Rotondo (4 loc.) (Ma), Perugia and surround. (4 loc.) (Um), Monte Tezio (9 loc.) (Um), Monte Subasio (6 loc.) (Um), Monte Terminillo (La) Montefiascone (La), Lago di Vico (La), Monti Lucretili (3 loc.) (La), Tolfa (La), Vejo (La), S. Maria di Galeria (La), Campagnano (La), Roma (La), Colli Albani (5 loc.) (La), Colli di Monte Bove (Abr), Marsia (Abr), P. N. Abruzzo (12 loc.) (Abr) Forca di Valle (Abr), Rocca di Mezzo (Abr), Fisciano (Cp), Camigliatello (Cal), Monte Spagnolo (Si), Caserma Maglia (Nebrodi) (Si).</p>	<p>Bombus rupestris,  ? B. campestris,  ? B. vestalis</p> <p>Polylectic</p> <p>Univoltine</p>
	<p><i>Bombus lapidarius decipiens</i> Pérez, 1879</p>	I, II, III			<p>Fisciano (Cp), Camigliatello (Cal),</p>	



	Iberian Peninsula, Southern Italy, Central Apennines Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si References: 44, 77, 102, 206, 210, 363, 386, 411, 416, 428, 514, C5, C10, S42, S43				Monte Spagnolo (Si), Caserma Maglia (Nebrodi) (Si).	
	<i>Bombus lapidarius lapidarius</i> (Linnaeus, 1758) Europe, Central Apennines Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas References: 67, 162, 180, 200, 202, 204, 205, 206, 208, 210, 219, 223, 224, 237, 242, 243, 247, 278, 286, 297, 298, 299, 301, 303, 363, 374, 381, 386, 390, 398, 411, 415, 416, 428, 431, 432, 434, 438, 439, 440, 445, 449, 457, 492, 508, 514, 634, 638, 640, C10, S40	I, II, III			Valli del Pellice, Angrogna, Germanasca (27 loc.) (Pi), Monte Mottarone (Pi), Bussolengo (V), Passo Tre Croci (V), Croda Alta (VT), Dobbiaco (VT), Villabassa (VT), Monte Prata (Ma), Monte Rotondo (4 loc.) (Ma), Perugia and surround. (4 loc.) (Um), Monte Tezio (9 loc.) (Um), Monte Subasio (6 loc.) (Um), Monte Terminillo (La) Montefiascone (La), Lago di Vico (La), Monti Lucretili (3 loc) (La), Tolfa (La), Vejo (La), S. Maria di Galeria (La), Campagnano (La), Roma (La), Colli Albani (5 loc.) (La), Colli di Monte Bove (Abr), Marsia (Abr), P. N. Abruzzo (12 loc.) (Abr) Forca di Valle (Abr), Rocca di Mezzo (Abr).	
14	<b>Bombus sicheli</b> Radoszkowski, 1859 <b>Sp. asiatico-europea</b> Ao, Pi, Lo, V, VT, FVG, Ma, Um, Abr, Cal, Pu, Si References: 20, 47, 58, 59, 60, 62, 64, 102, 209, 210, 223, 224, 225, 242, 363, 390, 398, 439, 440, 540, 608, C4, CK03, S40, S53, L1 (sichelii)	I, II, III, IV	Low	84	Valli del Pellice e Germanasca (18 loc.) (Pi), Val Sesia e Val Cervo (3 loc.) (Pi), Lago del Mucrone (Pi), Valle Varaita (Pi), Chiesa Valmalenco (2 loc) (Lo), Passo Falzarego (V), Passo Cime Bianche (V), Passo Tre Croci (V), Val Pusteria (VT).	Psithyrus rupestris  Polyleptic  Univoltine
	<i>Bombus sicheli alticola</i> Kriechbaumer, 1873 <b>Ssp. alpina</b> Ao, Pi, Lo, V, VT, FVG, Ma, Um, Abr, Cal, Pu, Si References: 20, 47, 58, 59, 60, 62, 64, 102, 209, 210, 223, 224, 225, 242, 363, 390, 398, 439, 440, 540, C4	I, II, III, IV			Valli del Pellice e Germanasca (18 loc.) (Pi), Val Sesia e Val Cervo (3 loc.) (Pi), Lago del Mucrone (Pi), Valle Varaita (Pi), Chiesa Valmalenco (2 loc) (Lo), Passo Falzarego (V), Passo Cime Bianche (V), Passo Tre Croci (V), Val Pusteria (VT).	Bombus rupestris
	<i>Bombus sicheli flavissimus</i> Tkalcu (1974) <b>Pyrenees, Alps</b> VT References: C4, S40	Not assessed			—	
<b>Subgen. Mendacibombus Skorikov, 1914</b>						
15	<b>Bombus mendax</b> Gerstaecker, 1869 <b>Sp. centro-asiatico-centro- e sud-europea</b> Ao, Pi, Lo, V, VT References: 11, 44, 46, 60, 64, 208, 210, 217, 223, 237, 242, 390, 608, C4, CK03, S40, CK12. CK09, L1	I, II, III, IV	Low	52	Fenestrelle (Pi), Colle delle Finestre (Pi), Prali (Pi), Val Sesia (Pi), Valle Varaita (Pi), Colle Valcavera (Pi), Lanzada (Lo).	Polyleptic  Univoltine
	<i>Bombus mendax mendax</i> Gerstaecker, 1869	I, II, III, IV			Fenestrelle (Pi), Colle delle Finestre	

	<b>Ssp. alpino-dinarica</b> Ao, Pi, Lo, V, VT S40				(Pi), Prali (Pi), Val Sesia (Pi), Valle Varaita (Pi), Colle Valcavera (Pi), Lanzada (Lo).	
<b>Subgen. Psithyrus Lepeletier, 1832</b>						
16	<b>Bombus barbutellus</b> (Kirby, 1802) (According Rasmont (Ref.: 16 - Atlas Hymenoptera) Bombus maxillosus is a ssp of B. barbutellus) <b>Sp. asiatico-europea</b> Ao, Pi, Lo, Li, V, VT, FVG, Em, To, Ma, Um, La, Cal, Si, Sa References: 7, 20, 58, 59, 60, 62, 64, 67, 89, 102, 104, 202, 208, 210, 218, 219, 223, 237, 243, 289, 327, 390, 398, 492, 634, CK03, S9, S36, S43, S61 (ssp maxillosus), S68, L1	I, II, III	Low	52	According to Rasmont (Ref.: 16 - Atlas Hymenoptera): Bombus maxillosus is a ssp of B. barbutellus ----- Colle delle Finestre (Pi), Angrogna (Pi), Canale d'Agordo (V), Monte Tezio (Um).	<b>Hosts:</b> Bombus hortorum, B. ruderatus, B. pratorum, B. hypnorum, B. jonellus, B. distinguendus, B. ruderarius, ? B. pascuorum, ? B. humilis  Flora: limited  Univoltine species
17	<b>Bombus bohemicus</b> Seidl, 1837 <b>Sp. olartica</b> Ao, Pi, Lo, V, VT, FVG, Abr, Bas, Cal References: 20, 47, 62, 63, 64, 208, 210, 242, 363, 389, 390, 514, C3, C5, C10, CK03, S40, S68, L1	I, II, III, IV	Low	65	Sopra Plan Pincieux (Ao), Valli del Pellice, Angrogna e Germanasca (13 loc.) (Pi), Bagni di Valgrande (V), Passo Cime Bianche (V), Villabassa (VT), Ovindoli (Abr), Pescasseroli (Abr), Rocca di Mezzo (Abr).	<b>Hosts:</b> Bombus lucorum, ? B. terrestris, B. patagiatus Nyl. (absent in Italy)  Flora: limited  Univoltine
	<b>Bombus bohemicus bohemicus</b> Seidl, 1837 <b>Ssp. caucasico-europeo-anatolica</b> Ao, Pi, Lo, V, VT, FVG, Abr, Bas, Cal S40	I, II, III, IV			Sopra Plan Pincieux (Ao), Valli del Pellice, Angrogna e Germanasca (13 loc.) (Pi), Bagni di Valgrande (V), Passo Cime Bianche (V), Villabassa (VT), Ovindoli (Abr), Pescasseroli (Abr), Rocca di Mezzo (Abr).	
18	<b>Bombus campestris</b> (Panzer, 1801) <b>Sp. asiatico-europea</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Cal, Pu, Si, Sa References: 20, 46, 58, 59, 60, 61, 62, 63, 64, 67, 71, 77, 84, 89, 109, 181, 200, 202, 204, 205, 208, 210, 217, 218, 237, 242, 243, 363, 386, 387, 390, 398, 411, 416, 439, 440, 441, 450, 485, 492, 514, 634, 639, C3, C10, CK03, S9, S18, S28, S68, L1	I, II, III	Slightest	158	Valli del Pellice, Angrogna e Germanasca (11 loc.) (Pi), Monte Mottarone (Pi), Albano Laziale (La), Ariccia (La), Torre Paola (La), Pescasseroli (Abr).	<b>Hosts:</b> Bombus pascuorum, B. muscorum, B. humilis, B. pomorum, B. veteranus, B. hortorum, B. ruderarius, ? B. subterraneus, B. soroensis proteus, B. pratorum

						Flora: limited Univoltine
	<i>Bombus campestris campestris</i> (Panzer, 1801) <b>Ssp. turanico-europeo-anatolica</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Cal, Pu, Si, Sa	I, II, III			<i>Valli del Pellice, Angrogna e Germanasca (11 loc.) (Pi), Monte Mottarone (Pi), Albano Laziale (La), Ariccia (La), Torre Paola (La), Pescasseroli (Abr).</i>	
19	<b>Bombus flavidus</b> Eversmann, 1852 <b>Sp. sibirico-europea</b> Ao, Pi, Lo, VT References: 11, 242, 363, 398, 608, CK03, S40, S54, L1	II, III, IV	Low	10	—	<b>Hosts:</b> Bombus lapponicus F. (absent in Italy), B. monticola, ? B. monticola konradini  Flora: limited ?Univoltine
	<i>Bombus flavidus alpium</i> (Richards, 1928) <b>Ssp. alpino-dinarica</b> Ao, Pi, Lo, VT References: 11, 242, 363, 398, 608, S40	II, III, ? IV			—	<b>Hosts:</b> ? B. monticola
(20)	<b>Bombus maxillosus</b> Klug, 1817 (According Rasmont (Ref.: 16 - Atlas Hymenoptera) Bombus maxillosus is a ssp of B. barbutellus) <b>Sp. turanico-europea-?nord-africana</b> sub maxillosus = Pi, VT, FVG, Em, Ma, Um, La, Abr, Mo, Bas, Cal, Si, Sa References: 20, 31, 58, 60, 63, 67, 89, 181, 202, 208, 210, 227, 268, 363, 386, 411, 439, 440, 441, 514, 634, C4, S9, S18, S36, S40, S43, S61	I, II, III	Slightest	94	According Rasmont (Ref.: 16 - Atlas Hymenoptera) Bombus maxillosus is a ssp of B. barbutellus ----- <i>Monte Subasio (Um), Monte Tezio (Um), Monte Morra (La), Prima Porta (La), Monte Mario (La), Torre Cervara (La), Albano Laziale (La), P. N. Abruzzo (3 loc.) (Abr).</i>	<b>Hosts:</b> Bombus ruderatus, r. autumnalis, argillaceus, subterraneus, ? hortorum, ? distinguendus, ? pascuorum, ? humilis, ? ruderarius, ? pratorum, ? jonellus
	<i>Bombus maxillosus italicus</i> (Grütte, 1940) <b>Ssp. tirrenico-?nord-africana</b> Ma, Um, La, Abr, Bas, Cal, Si, Sa References: 63, 67, 227, 363, 386, 411, 439, 440, 441, 514, C4	I, II, III			<i>Monte Subasio (Um), Monte Tezio (Um), Monte Morra (La), Prima Porta (La), Monte Mario (La), Albano Laziale (La), P. N. Abruzzo (3 loc.) (Abr).</i>	<b>Hosts:</b> Bombus ruderatus
	<i>Bombus maxillosus maxillosus</i> Klug, 1817 <b>Ssp. turanico-europea</b> Pi, VT, FVG, Em, Ma, Um, La, Si References: 202, 268, 363, 386, 439, C4, S40	I, II			<i>Torre Cervara (La).</i>	<b>Hosts:</b> Bombus ruderatus
21	<b>Bombus norvegicus</b> (Sparre-Schneider, 1918) <b>Sp. asiatico-europea</b> Ao, Pi, Lo, VT, Abr References: 210, 242, 398, C10, CK03, S68	II, III	Low	5	<i>Prali (Pi).</i>	<b>Hosts:</b> Bombus hypnorum

						Flora: limited Univoltine
	<i>Bombus norvegicus norvegicus</i> (Sparre-Schneider, 1918) Ssp. europea Ao, Pi, Lo, VT, Abr	II, III			<i>Prali (Pi).</i>	
22	<i>Bombus perezi</i> (Schulthess-Rechberg, 1886) Ssp. sardo-corsa To, Corsica (F) (see table endemic species/subspecies) References: 424, CK03 (absent in Italy), S64, CK12	I, II	Moderate	1	—	Hosts: ? <i>Bombus terrestris</i>
23	<i>Bombus quadricolor</i> (Lepelletier, 1832) Sp. asiatico-europea Ao, Pi, Lo, V, VT, FVG, Em References: 20, 58, 59, 60, 62, 64, 210, 237, 303, 390, 634, CK03, S40, L1	I, II, III	Low	22	Plan Pincieux (Ao), Sauze d'Oulx (Pi), Massello ((Pi), Prali (7 loc.) (Pi).	Hosts: <i>Bombus pratorum</i> , <i>B. jonellus</i> , <i>B. ruderarius</i> , <i>B. s. soroensis</i> , <i>B. s. lectitatus</i>  Univoltine
	<i>Bombus quadricolor meridionalis</i> (Richards, 1928) Ssp. centro-sud-europea Ao, Pi, Lo, V, VT, FVG, Em References: 20, 58, 59, 60, 62, 64, 210, 237, 303, 390, 634, S40	I, II, III			<i>Plan Pincieux (Ao), Sauze d'Oulx (Pi), Massello ((Pi), Prali (7 loc.) (Pi).</i>	Hosts: <i>Bombus soroensis proteus</i>
24	<i>Bombus rupestris</i> Fabricius, 1793 in contact zones, intermediate phenotypes between subspecies have been reported Sp. asiatico-europea Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Si References: 11, 20, 46, 50, 54, 58, 59, 60, 61, 62, 63, 64, 67, 77, 180, 181, 202, 204, 205, 210, 223, 224, 225, 227, 237, 242, 243, 286, 290, 302, 303, 363, 386, 387, 390, 411, 428, 439, 440, 441, 443, 449, 457, 485, 492, 514, 608, 634, 638, C4, C10, CK03, S9, S18, S28, S40, S43, S61, S68. CK09, L1	I, II, III, IV	Slightest	314	Plan Pincieux (Ao), Colle delle Finestre (Pi), Valli del Pellice, Angrogna e Germanasca (15 loc.) (Pi), Monte Baldo (V), Cutigliano (To), S. Maria Maddalena (Ma), Monte Rotondo (3 loc.) (Ma), Monte Subasio (4 loc.) (Um), Monte Tezio (2 loc) (Um), Percile (La), Marsia (Abr), Ovindoli (Abr), P. N. Abruzzo (7 loc.) (Abr), Mareneve (M. Etna) (Si).	Hosts: <i>Bombus lapidarius</i> , <i>B. sicheli alticola</i> , <i>B. pratorum</i> , <i>B. pomorum</i> , <i>B. pascuorum</i> , <i>B. sylvorum</i>  Flora: limited  Univoltine
	<i>Bombus rupestris rupestris</i> Fabricius, 1793 Ssp. europea Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Cp References: 63, 67, 180, 202, 204, 205, 210, 223, 224, 237, 242, 243, 286, 290, 301, 303, 363, 386, 390, 411, 428, 440, 441, 449, 457, 492, 514, 608, 634, 638, S40	I, II, III, IV			<i>Plan Pincieux (Ao), Colle delle Finestre (Pi), Valli del Pellice, Angrogna e Germanasca (15 loc.) (Pi), Monte Baldo (V), Cutigliano (To), S. Maria Maddalena (Ma), Monte Rotondo (3 loc.) (Ma), Monte Subasio (4 loc.) (Um), Monte Tezio (Um), Percile (La), Marsia (Abr), Ovindoli (Abr), P. N. Abruzzo (7 loc.) (Abr).</i>	
	<i>Bombus rupestris siculus</i> (Reinig, 1931) Central and Southern Italy, Sicily Ma Abr, Mo, Cp, Bas, Cal, Si (see table endemic	I, II, III, IV			<i>Mareneve (M. Etna) (Si).</i>	

	species/subspecies) References: 63, 77, 225, 227, 286, 363, 428, 443, 485, S43					
25	<b>Bombus sylvestris</b> Lepelletier, 1832 <b>Sp. asiatico-europea</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Bas, Cal References: 20, 62, 63, 64, 76, 160, 181, 205, 208, 210, 223, 224, 225, 242, 363, 386, 390, 439, 440, 508, 514, 634, C4, C10, CK03, S18, S40, S68, L1	I, II, III, IV	Slightest	82	Colle delle Finestre (Pi), Valli dell' Angrogna e Germanasca (10 loc.) (Pi), Camosciara (Abr), Pescasseroli (Abr).	<b>Hosts:</b> Bombus pratorum, B. jonellus, B. soroeensis, ? B. pascuorum  Flora: limited  Univoltine
26	<b>Bombus vestalis</b> (Fourcroy, 1785) <b>Sp. turanico-europeo-maghrebina</b> Ao, Pi, Li, Lo, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si, Sa References: 7, 20, 58, 59, 60, 63, 64, 66, 67, 77, 102, 104, 181, 200, 202, 210, 223, 224, 227, 303, 327, 363, 386, 387, 390, 398, 411, 416, 439, 440, 441, 514, 540, 634, C10, C12, CK03, S9, S18, S28, S40, S42, S43, S68. CK09, L1	I, II, III, IV	Slightest	135	Sauze d'Oulx (Pi), Rorà (Pi), Angrogna (Pi), Massello (Pi), Monte Tezio (2 loc.) (Um), Albano Laziale (La), Madonna di Tronchillo (Abr), Pescasseroli (Abr), Positano (Cp), Olbia (Sa).	<b>Hosts:</b> Bombus terrestris, ? B. Lucorum, ? B. Lapidarius  Flora: limited  Univoltine
	<b>Bombus vestalis obenbergeri</b> May, 1944 Central and Southern Italy, Maghreb Ma, Um, La, Abr, Cp, Cal References: 63, 66, 386, 411, 514, C10, S40	I, II			Monte Tezio (2 loc.) (Um), Madonna di Tronchillo (Abr), Pescasseroli (Abr), Positano (Cp),	
	<b>Bombus vestalis sorgonis</b> Strand, 1917 <b>Ssp. sardo-corsa</b> Sa (endemic of Sardinia - see table endemic species/subspecies) References: 7, 327, 363, C12	I			Olbia (Sa).	
	<b>Bombus vestalis vestalis</b> (Fourcroy, 1785) <b>Ssp. caucasico-europeo-anatolica</b> Ao, Pi, Li, Lo, VT, FVG, Em, To, Ma, Um, La, Abr, Cal, Pu, Si References: 67, 200, 202, 210, 223, 224, 303, 363, 390, 398, 439, 440, 441, 634, S42	I, II, III			Sauze d'Oulx (Pi), Rorà (Pi), Angrogna (Pi), Massello (Pi), Albano Laziale (La).	
<b>Subgen. Pyrobombus Dalla Torre, 1882</b>						
27	<b>Bombus brodmannicus</b> Vogt, 1909 <b>Sp. caucasico-centro-sud-europeo-anatolica (mountain areas)</b> Pi References: 522, CK03, S63, CK12	III	High	2	—	
	<b>Bombus brodmannicus delmasi</b> Tkalcu, 1973 <b>Ssp. alpina</b> Pi References: 522	III			—	
28	<b>Bombus haematurus</b> Kriechbaumer, 1870 <b>Sp. centro-sud-europeo-anatolico-caucasico-asiatica</b>	Not assessed	Low	1	—	Polylectic

	FVG References: L£					
29	<b>Bombus hypnorum</b> (Linnaeus, 1758) <b>Sp. asiatico-europea</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To References: 11, 20, 44, 64, 71, 109, 115, 237, 242, 301, 374, 390, 398, 416, 450, 457, 492, 638, C4, CK03, S40, S53, S68, S90a, L1	I, II, III, IV	Slightest	44	Ghigo (Pi).	<b>Bombus norvegicus</b> , <b>B. barbutellus</b>  Polylectic  Univoltine
	<b>Bombus hypnorum calidus</b> (Erichson, 1851) <b>Ssp. nord-italico-est-europea</b> VT References: 390	II			---	
	<b>Bombus hypnorum ericetorum</b> (Panzer, 1801) <b>Ssp. centro-ovest-europea</b> Pi, Lo, VT, To References: 242, C4, S40	I, II, III			---	
	<b>Bombus hypnorum hypnorum</b> (Linnaeus, 1758) <b>Ssp. nord-europea-nord-italica</b> Pi, Lo, VT, FVG References: 242, 390, C4, S40	I, II, III			----	
30	<b>Bombus jonellus</b> (Kirby, 1802) <b>Sp. olartica</b> Ao, Pi, Lo, V, VT, FVG, Em References: 20, 44, 64, 87, 217, 237, 242, 290, 390, 398, CK03, L1	I, II, III, IV	Low	27	Villanova (Pi), Prali (2 loc.) (Pi), Dolomiti orientali (VT).	<b>B. sylvestris</b> , <b>B. flavidus</b> , <b>B. barbutellus</b> , <b>B. quadricolor</b>  Polylectic  ?Sometimes bivoltine
	<b>Bombus jonellus jonellus</b> (Kirby, 1802) <b>Ssp. europea</b> Italy: Alps only; VT References: 390	II			---	
	<b>Bombus jonellus martes</b> (Gerstaecker, 1869) <b>Ssp. alpina</b> Pi, Lo, VT, FVG References: 20, 44, 237, 242, 390	I, II			---	
31	<b>Bombus monticola</b> Smith, 1849 <b>Sp. europea (mountain areas)</b> Ao, Pi, Lo, V, VT, FVG, Em References: 20, 44, 54, 58, 60, 62, 64, 87, 200, 237, 242, 363, 389, 390, 456, C4, C9, CK03, S40, S41 (with ssp distribution), S53, CK12, L1	I, II, III, IV	Slightest	103	Valli dell'Angrogna e Germanasca (21 loc.) (Pi), Passo Falzarego (V), Passo Cimabanche (V), Passo Tre Croci (V), Dobbiaco (VT), Selva di Val Gardena (VT).	<b>Bombus flavidus</b>  Polylectic  Univoltine
	<b>Bombus monticola hypsophilus</b> Skorikov, 1912 Massif Central, Alps, Balkans Ao, Pi, Lo, V, VT, FVG	I, II, III, IV			Valli dell'Angrogna e Germanasca (21 loc.) (Pi), Passo Falzarego (V), Passo Cimabanche (V), Passo Tre	

	References: 20, 44, 54, 58, 60, 62, 64, 87, 200, 237, 242, 363, 389, 390, 456, C4, C9, S40, S41				<i>Croci (V), Dobbiaco (VT), Selva di Val Gardena (VT).</i>	
32	<b>Bombus konradini</b> Reinig, 1965 <b>Sp. appenninica</b> Em, To, Ma, Um, La, Abr (endemic of Apennines - see table endemic species/subspecies) References: 67, 386, 411, 427, 439, 440, C9, S41, CK12	I, II, III	High	23	Parma (Ris. Nat. Guadine Pradaccio) (Em).	
33	<b>Bombus pratorum</b> (Linnaeus, 1761) <b>Sp. asiatico-europea</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si References: 11, 20, 43, 44, 46, 48, 58, 60, 61, 62, 63, 64, 66, 67, 74, 77, 87, 89, 102, 109, 180, 181, 200, 202, 204, 205, 208, 210, 218, 223, 224, 225, 237, 241, 242, 243, 247, 289, 303, 363, 386, 387, 389, 390, 411, 416, 435, 439, 441, 449, 485, 514, 539, 640, C4, C5, C10, C13, CK03, S4, S9, S18, S28, S40, S53, S61, S68, L1	I, II, III, IV	Slightest	360	Valli del Pellice, Angrogna e Germanasca (19 loc.) (Pi), Sauze d' Oulx (Pi), Monte Mottarone (Pi), Passo Tre Croci (V), Dobbiaco (VT), Bosco del Teso (To), Monte San Vicino (Ma), Sassotetto (Ma), Pieve Torina (Ma), Montegallo (Ma), Castelvechio (2 loc.) (Ma), Monte Subasio (2 loc.) (Um), Monte Tezio (3 loc.) (Um), Pontevalleceppi (Um), Montefiascone (La), Percile (La), Colli Albani (10 loc.) (La), Marsia (Abr), P. N. Abruzzo (4 loc.) (Abr).	<b>Bombus sylvestris</b> , <b>B. rupestris</b> , <b>B. campestris</b> , <b>B. barbutellus</b> , <b>B. quadricolor</b>  Polylectic  Univoltine
	<i>Bombus pratorum pratorum</i> (Linnaeus, 1761) <b>Ssp. europea</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si References: S40	I, II, III, IV			<i>Valli del Pellice, Angrogna e Germanasca (19 loc.) (Pi), Sauze d' Oulx (Pi), Monte Mottarone (Pi), Passo Tre Croci (V), Dobbiaco (VT), Bosco del Teso (To), Monte San Vicino (Ma), Sassotetto (Ma), Pieve Torina (Ma), Montegallo (Ma), Castelvechio (2 loc.) (Ma), Monte Subasio (2 loc.) (Um), Monte Tezio (3 loc.) (Um), Pontevalleceppi (Um), Montefiascone (La), Percile (La), Colli Albani (10 loc.) (La), Marsia (Abr), P. N. Abruzzo (4 loc.) (Abr).</i>	
34	<b>Bombus pyrenaeus</b> Pérez, 1879 [1880] <b>Sp. centro-europea</b> (mountain areas) Ao, Pi, Lo, V, VT, FVG References: 20, 62, 64, 115, 210, 242, 363, 390, 398, C4, CK03, S40, L1	I, II, III, IV	Slightest	76	Valli del Pellice, Angrogna e Germanasca (19 loc.) (Pi), Val Sorba (Pi), Passo Cimebanche (V).	Polylectic  Univoltine
	<i>Bombus pyrenaeus tenuifasciatus</i> Vogt, 1909 <b>Ssp. alpina</b> Ao, Pi, Lo, V, VT, FVG References: 20, 62, 64, 115, 210, 242, 363, 390, 398, C4, S40	I, II, III, IV			<i>Valli del Pellice, Angrogna e Germanasca (19 loc.) (Pi), Val Sorba (Pi), Passo Cimebanche (V).</i>	
<b>Subgen. Subterraneobombus Vogt, 1911</b>						
35	<b>Bombus distinguendus</b> Morawitz, 1869	I	Low	3	—	<b>Bombus barbutellus</b>

	<b>Sp. olartica</b> Pi, Lo References: 87, 638, CK03 (absent in Italy)					Polylectic Univoltine
36	<b>Bombus subterraneus</b> (Linnaeus, 1758) In contact zones, intermediate phenotypes between subspecies have been reported <b>Sp. asiatico-europea</b> Ao, Pi, Lo, Li, V, VT, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal References: 44, 46, 62, 63, 64, 67, 71, 180, 181, 204, 208, 210, 217, 290, 299, 363, 386, 387, 390, 398, 411, 416, 423, 428, 439, 440, 451, 492, 514, 608, 634, C4, C6, CK03, S4, S18, S28, S40, S53, L1	I, II, III, IV	Slightest	188	Valli del Pellice, Angrogna e Germanasca (7 loc.) (Pi), Val Sesia (Pi), P. N. Abruzzo (3 loc.) (Abr).	<b>Bombus maxillosus</b> , ? <b>B. barbutellus</b> , ? <b>B. campestris</b>  Polylectic Univoltine
	<b>Bombus subterraneus latreillellus</b> (Kirby, 1802) Ssp. europea Pi, VT, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal References: 44, 46, 62, 63, 208, 210, 217, 386, 390, 411, 428, 439, 440, 514, 608, 634, S40	I, II, III			Angrogna (Pi). Pescasseroli (Abr).	
	<b>Bombus subterraneus liguriensis</b> Rasmont, 1988 Northern and Central Italy VT, Li, To, Ma, Um, La (see table endemic species/subspecies) References: 386, 423, C4	II, III			—	
	<b>Bombus subterraneus subterraneus</b> (Linnaeus, 1758) Ssp. asiatico-europea Pi, Li, VT, Em, To, Ma, Um, Abr References: 62, 63, 363, 390, 428, 439, 514	I, II, III			Valli del Pellice, Angrogna e Germanasca (7 loc.) (Pi), Val Sesia (Pi), P. N. Abruzzo (3 loc.) (Abr).	
<b>Subgen. Thoracobombus Dalla Torre, 1880</b>						
37	<b>Bombus humilis</b> Illiger, 1806 in contact zones, intermediate phenotypes between subspecies have been reported <b>Sp. asiatico-europea</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si References: 11, 33, 44, 46, 47, 48, 54, 58, 59, 60, 61, 62, 63, 64, 67, 89, 90, 160, 180, 181, 200, 202, 204, 205, 206, 208, 210, 217, 237, 242, 243, 286, 289, 297, 298, 299, 303, 363, 386, 387, 389, 390, 398, 411, 412, 416, 421, 428, 439, 440, 449, 450, 456, 457, 514, 569, 634, C4, C6, C10, CK03, S4, S9, S18, S28, S40, S53, S61, S69, S90a, L1	I, II, III	Slightest	468	Valli del Pellice, Angrogna e Germanasca (33 loc.) (Pi), Colle delle Finestre (Pi), Val Sesia (Pi), Val Cervo (Pi), Comelico sup. (V), Monte Rotondo (Ma), Colfiorito (Um). Capodacqua (Um), Monte Tezio (Um), Val di Varri (La), Lago di Vico (La), Monti Lucretili (3 loc.) (La), Campagnano di Roma (La), Prima Porta (La), Roma (La), Ariccia (La), Palestrina (La), Ovindoli (Abr), P. N. Abruzzo (6 loc.) (Abr), Monti del Matese (Mo).	<b>Bombus campestris</b> , ? <b>B. barbutellus</b>  Polylectic Univoltine
	<b>Bombus humilis appeninus</b> Vogt, 1909 Italian peninsula Pi, Lo, FVG, Em, To, Ma, Um, La, Abr, Cal (see table endemic species/subspecies) References: 204, 205, 242, 363, 386, 411, 412, 428, 439, 440, 514, C4	I, II, III			Monte Rotondo (Ma), Colfiorito (Um).	
	<b>Bombus humilis aurantiacus</b> (Dalla Torre, 1882)	I, II, III			—	



	Central Italy, Balkans, Western Anatolia Lo, To, Ma, La, Abr, Mo, Bas References: 411, 428					
	<i>Bombus humilis humilis</i> Illiger, 1806 Central Europe, Italy Ao, Pi, V, VT, FVG, Em, To, Ma, La, Abr, Bas, Cal, Si References: 61, 62, 160, 200, 204, 210, 514	I, II, III			Val Cervo (2 loc.) (Pi), Valli del Pellice, Angrogna e Germanasca (5 loc.) (Pi), Colle delle Finestre (Pi).	
	<i>Bombus humilis luteoaurantiacus</i> Reinig, 1970 <b>Ssp. centro-appenninica</b> Abr (see table endemic species/subspecies) References: 421	II			—	
	<i>Bombus humilis propeaurantiacus</i> (Vogt, 1909) <b>Central and Southern Italy</b> Lo, VT, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu (see table endemic species/subspecies) References: 44, 63, 67, 242, 243, 289, 386, 411, 428, 450, 569, 634, C4, C6	I, II, III			Val di Varri (La), Prima Porta (La), Campagnano di Roma (La), Roma (La), Ariccia (La), Palestrina (La), Monti Lucretili (2 loc.) (La), P. N. Abruzzo (5 loc.) (Abr), Matese (Mo).	
	<i>Bombus humilis quasimuscorum</i> Vogt, 1909 <b>Pyrenees, France, Piedmont</b> Pi References: 363, S40	II			—	
	<i>Bombus humilis rufoaurantiacus</i> Reinig, 1970 <b>Central Apennines</b> Central Apennines (see table endemic species/subspecies) References: 363	II			—	
	<i>Bombus humilis tristis</i> Seidl, 1837 Eastern and Central Europe, Italy Pi, Li, V, VT, FVG, Em, La, Abr, Mo References: 59, 60, 62, 89, 90, 200, 206, 208, 217, 237, 298, 363, 390, 428, 456, 514, S40	I, II, III			Valli del Pellice, Angrogna e Germanasca (7 loc.) (Pi).	
38	<i>Bombus inexpectatus</i> Tkalcu, 1963 <b>Sp. sud-ovest-europea (mountain areas)</b> Ao, Pi, Lo, V, VT References: 62, 64, 398, 515, 516, 610, CK03, S46, CK12, L1, L3	II, III, IV	Low	18	Colle delle Finestre (Pi), Val Germanasca (4 loc.) (Pi).	Social parasite  <u>Hosts:</u> Bombus ruderarius, ? B. sylvarum
39	<i>Bombus mesomelas</i> Gerstaecker, 1869 <b>Sp. caucasico-europeo-anatolica (mountain areas)</b> Ao, Pi, Lo, V, VT, FVG, Em, Ma, Um, La, Abr, Mo, Bas, Cal References: 20, 44, 46, 58, 59, 60, 62, 63, 64, 67, 180, 181, 204, 206, 210, 217, 223, 224, 237, 242, 303, 363, 386, 390, 398, 411, 438, 439, 440, 441, 445, 456, 457, 514, 608, 634, 638, C4, CK03, S9, S18, S40, S53, S61, L1	I, II, III, IV	Slightest	249	Plan Pincieux (Ao), Sauze d' Oulx (Pi), Colle delle Finestre (Pi), Valli del Pellice e Germanasca (Pi), Val Sesia (Pi), Passo di Campolongo (V), Monti Sibillini (Ma), Monte Rotondo (3 loc.) (Ma), Monte Prata (Ma), Marsia (Abr), P. N. Abruzzo (6 loc.) (Abr.).	? B. barbutellus  Polylectic  Univoltine

	<p><i>Bombus mesomelas mesomelas</i> Gerstaecker, 1869  <b>Ssp. europeo-anatolica</b>  Ao, Pi, Lo, V, VT, FVG, Em, Ma, Um, La, Abr, Mo, Bas, Cal  S40</p>	I, II, III, IV			<p><i>Plan Pincieux (Ao), Sauze d' Oulx (Pi), Colle delle Finestre (Pi), Valli del Pellice e Germanasca (Pi), Val Sesia (Pi), Passo di Campolongo (V), Monti Sibillini (Ma), Monte Rotondo (3 loc.) (Ma), Monte Prata (Ma), Marsia (Abr), P. N. Abruzzo (6 loc.) (Abr).</i></p>	
40	<p><b>Bombus mucidus</b> Gerstaecker, 1869  <i>Sp. sud-centro-ovest-europea (mountain areas)</i>  Ao, Pi, Lo, VT, FVG, Ma, Um, La, Abr, Mo  References: 20, 62, 64, 67, 181, 206, 223, 237, 363, 386, 390, 514, C4, C6, CK03, S9, S40, CK12, L1</p>	I, II, III, IV	Low	57	<p><i>Plan Pincieux (Ao), Valli del Pellice e Germanasca (16 loc.) (Pi), Monte Rotondo (Ma).</i></p>	<p>Polylectic  Univoltine</p>
	<p><i>Bombus mucidus mollis</i> Pérez, 1879  Pyrenees, Apennines  Ma, Um, La, Abr  References: 206, 386, 514, S40</p>	II, III			<p><i>Monte Rotondo (Ma).</i></p>	
	<p><i>Bombus mucidus mucidus</i> Gerstaecker, 1869  Alps, Apennines, Carpathians  Ao, Pi, VT, FVG, Ma, Um, La, Abr  References: 67, 223, 237, 363, 390</p>	I, II, III			<p><i>Plan Pincieux (Ao), Valli del Pellice e Germanasca (16 loc.) (Pi).</i></p>	
41	<p><b>Bombus muscorum</b> (Fabricius, 1793)  <b>Sp. asiatico-europea</b>  Pi, Li, Lo, V, VT, FVG, Em, To, La, Bas, Cal  References: 11, 20, 43, 46, 54, 58, 60, 67, 71, 87, 106, 108, 109, 179, 200, 202, 204, 210, 227, 237, 278, 286, 302, 303, 306, 363, 374, 381, 389, 390, 411, 449, 450, 492, 508, CK03, S9, S16a, CK12, L1</p>	I, II, III	Moderate	82	—	<p><b>Bombus campestris</b>  Polylectic  Univoltine</p>
	<p><i>Bombus muscorum muscorum</i> (Fabricius, 1793)  <b>Ssp. caucasico-europeo-anatolica</b>  Pi, Li, Lo, V, VT, FVG, Em, To, La, Bas, Cal</p>	I, II, III			—	
42	<p><b>Bombus pascuorum</b> (Scopoli, 1763)  <b>Sp. asiatico-europea</b>  Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Cal, Bas, Pu, Si  References: 11, 15, 20, 33, 43, 44, 46, 47, 50, 54, 58, 59, 60, 61, 62, 63, 64, 66, 67, 69, 71, 77, 87, 89, 102, 105, 109, 154, 158, 160, 162, 179, 180, 181, 186, 189, 200, 202, 204, 205, 206, 208, 210, 218, 224, 225, 227, 237, 241, 242, 243, 247, 278, 286, 289, 290, 297, 299, 302, 303, 363, 384, 386, 387, 390, 398, 411, 415, 416, 424, 428, 438, 439, 440, 445, 449, 451, 456, 457, 485, 492, 508, 514, 539, 540, 547, 565, 634, 636, 637, 638, 640, C3, C4, C10, C13, CK03, S4, S9, S18, S28, S40, S43, S53, S61, S62, S68, S69, S76, S91, CK09, L1</p>	I, II, III	Slightest	773	<p><i>Valli del Pellice, Angrogna e Germanasca (38 loc.) (Pi), Monte Mottarone (Pi), Valgrande (V), Pocol (V), Bussolengo (V), Caorle (V), Villabassa (VT), Val Pusteria (VT), Val Marebbe (VT), Porretta Terme (Em), Bolognola (Ma), Castelplanio (Ma), Urbino (Ma), Montegalio (Ma), Monte Rotondo (Ma), Monte Prata (Ma), Capodacqua (Um), Colfiorito (Um), Monte Subasio (6 loc.) (Um), Monte Tezio (4 loc.) (Um), Perugia and surround. (5 loc.) (Um), Val di Varri (La), Pietrasecca (La), Monti Cimini (2 loc.) (La), Montefiascone (La), Rome and surround. (8 loc.) (La), Campagnano di</i></p>	<p><b>Bombus campestris,</b>  <b>B. rupestris,</b>  <b>B. sylvestris,</b>  ? <b>B. barbutellus</b>  Polylectic  Univoltine</p>

				R. (La), Saracinesco (La), Palestrina (La), Subiaco (La), Monti Lucretili (5 loc.), Colli Albani (5 loc.), Valle del fiume Orfento (Abr), Ovindoli (Abr), Montebove (Abr), Marsia (Abr), P. N. Abruzzo (8 loc.) (Abr), Camaldoli (Cp), Fisciano (Cp), San Leone (Si),	
	<i>Bombus pascuorum floralis</i> (Gmelin, 1790) Ssp. centro-nord-europea V, VT, FVG References: 20, 44, 58, 162, 200, 202, 241, 363, 416, C4	I, II, III		Caorle (V).	
	<i>Bombus pascuorum freygessneri</i> Vogt, 1909 Central France, Central Italy Em References: 204	I, II		—	
	<i>Bombus pascuorum intermedius</i> Vogt, 1909 Alps (France, Switzerland, Italy) V, VT References: 210	I, II, III		—	
	<i>Bombus pascuorum maculatus</i> Vogt, 1909 Northern and western Pyrenees, Southwestern France, Piedmont Pi References: 62	II		Prali (Pi).	
	<i>Bombus pascuorum melleofacies</i> Vogt, 1909 Ssp. italica Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Pu, Si (see table endemic species/subspecies) References: 33, 44, 63, 64, 66, 67, 77, 158, 179, 180, 204, 205, 206, 208, 210, 218, 225, 227, 243, 278, 289, 290, 363, 386, 411, 416, 424, 438, 439, 440, 445, 449, 451, 514, 540, 547, 565, 634, 636, 637, 640, C3, C4, C10, C13, S40	I, II, III		Valli del Pellice, Angrogna e Germanasca (38 loc.) (Pi), Monte Mottarone (Pi), Valgrande (V), Poccol (V), Bussolengo (V), Villabassa (VT), Val Pusteria (VT), Val Marebbe (VT), Porretta Terme (Em), Montegallo (Ma), Monte Rotondo (Ma), Monte Prata (Ma), Bolognola (Ma), Castelplanio (Ma), Urbino (Ma), Capodacqua (Um), Colfiorito (Um), Monte Subasio (6 loc.) (Um), Monte Tezio (4 loc.) (Um), Perugia and surround. (5 loc.) (Um), Val di Varri (La), Pietrasecca (La), Monti Cimini (2 loc.) (La), Montefiascone (La), Rome and surround. (8 loc.) (La), Campagnano di R. (La), Saracinesco (La), Palestrina (La), Subiaco (La), Monti Lucretili (5 loc.), Colli Albani (5 loc.), Valle del fiume Orfento (Abr), Ovindoli (Abr), Montebove (Abr), Marsia (Abr), P. N. Abruzzo (8 loc.) (Abr), Camaldoli (Cp), Fisciano (Cp).	
	<i>Bombus pascuorum pascuorum</i> (Scopoli, 1763) Ssp. nord-italica	I, II, III		Valli del Pellice, Angrogna e Germanasca (35 loc.) (Pi), Valgrande	

	Ao, Pi, Li, Lo, V, FVG (see table endemic species/subspecies) References: 62, 160, 237, 286, 297, 299, 303, 363, 398, 411, 415, 416, 449, 492, 638				(V), Pocol (V), Bussolengo (V), Villabassa (VT), Val Pusteria (VT), Val Marebbe (VT).	
	<i>Bombus pascuorum siciliensis</i> Tkalcu, 1977 <b>Ssp. sicula</b> Si (endemic of Sicily- see table endemic species/subspecies) References: 15, 54, 102, 105, 186, 363, 384, 416, 485, 539, S43	I, II			San Leone (Si).	
43	<b>Bombus pomorum</b> Panzer, 1805 <b>Sp. caucasico-europeo-anatolica</b> Pi, V, VT, ? Em, ? To, ? Abr (records referred to Em, To, Abr: likely = <i>B. lapidarius</i> ) References: 115, 208, 239, 634, 638, 640, CK03	I, II, III	Moderate	12	—	<b>Bombus campestris,</b> <b>B. rupestris</b>  Polylectic  Univoltine
	<i>Bombus pomorum pomorum</i> Panzer, 1805 <b>Ssp. europeo-anatolica</b> Uncertain: Pi, V, VT, Em, To, Abr	I, II, III			—	
44	<b>Bombus ruderarius</b> (Müller, 1776) <b>Sp. sibirico-europeo-maghrebina</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Si References: 20, 44, 46, 54, 58, 60, 62, 63, 64, 67, 87, 181, 201, 206, 208, 210, 217, 223, 224, 225, 237, 240, 242, 290, 363, 386, 387, 389, 390, 398, 411, 428, 439, 440, 449, 485, 514, 539, 565, 608, 634, C4, CK03, S9, S18, S28, S40, S43, S46, S53, S68, L1	I, II, III, IV	Slightest	300	Plan Pincieux (Ao), Colle delle Finestre (Pi), Valli del Pellice Angrogna e Germanasca (30 loc.) (Pi), Val Sesia (Pi), Lago della Vecchia (Pi), Val Cervo (Pi), Colle della Vecchia (Pi) Val d' Oropa (Pi), Passo Tre Croci (V), Passo Cimabanche (V), Monte Prata (Ma), Monte Rotondo (5 loc.) (Ma), Monte Subasio (Um). P.N. Abruzzo (4 loc.) (Abr).	<b>Bombus barbutellus,</b> <b>B. campestris,</b> <b>B. quadricolor,</b> <b>B. inexpectatus</b> <b>? B. rupestris</b>  Polylectic  Univoltine
	<i>Bombus ruderarius montanus</i> Lapeletier, 1836 Cantabrian Mountains, Pyrenees, Alpes (Alpi Cozie), Apennines Pi, Ma, Um, Mo, Bas, Cal, Si References: 54, 225, 386, 428, 485, 514, 539, S43	II, III			—	
	<i>Bombus ruderarius ruderarius</i> (Müller, 1776) <b>Ssp. europea</b> Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr References: 201, 206, 208, 210, 223, 224, 237, 240, 242, 290, 363, 386, 389, 390, 398, 411, 428, 439, 449, 514, 608, 634, S40	I, II, III, IV			Plan Pincieux (Ao), Colle delle Finestre (Pi), Valli del Pellice Angrogna e Germanasca (30 loc.) (Pi), Val Sesia (Pi), Lago della Vecchia (Pi), Val Cervo (Pi), Colle della Vecchia (Pi), Val d' Oropa (Pi), Passo Tre Croci (V), Passo Cimabanche (V), Monte Subasio (Um).	
45	<b>Bombus sylvarum</b> (Linnaeus, 1761) in contact zones, intermediate phenotypes between	I, II, III	Slightest	340	Sáuze d' Oulx (Pi), Usseaux (Pi), Angrogna (Pi), Monte Tezio (2 loc.)	<b>Bombus rupestris,</b> <b>? B. campestris,</b>

	<p>subspecies have been reported</p> <p><b>Sp. asiatico-europea</b></p> <p>Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Si</p> <p>References: 11, 20, 33, 44, 46, 47, 58, 59, 60, 61, 62, 63, 64, 67, 71, 77, 89, 100, 106, 108, 109, 160, 162, 180, 181, 200, 202, 204, 205, 206, 208, 209, 210, 218, 223, 224, 227, 237, 243, 286, 289, 297, 298, 299, 301, 303, 363, 374, 386, 387, 390, 411, 415, 416, 428, 438, 439, 440, 441, 449, 485, 492, 514, 539, 608, 634, 638, C4, C10, C13, CK03, S4, S9, S18, S28, S40, S43, S53, S16a, S69, S76, S90a, S91, L1</p>				(Um), Monte Subasio (2 loc.) (Um), Val di Varri (La), Percile (La), Campagnano di Roma (La), Prima Porta (La), Roma (3 loc.) (La), Ardea (La), Albano Laziale (La), Ariccia (La), Velletri (La), Ovindoli (Abr), Rocca di Mezzo (Abr), Montagna di Godi (Abr), Bosco della Ficuzza (Si).	<p>Polyleptic</p> <p>Univoltine</p>
	<p><i>Bombus sylvarum rogenhofferi</i> Dalla Torre, 1882</p> <p><b>Ssp. Italica (except Sardinia)</b></p> <p>Pi, Em, Ma, Bas, Cal, Si (see table endemic species/subspecies)</p> <p>References: 77, 100, 218, 227, 363, 386, 428, 485, 514, 539, 634, S43</p>	I, II			Bosco della Ficuzza (Si).	
	<p><i>Bombus sylvarum sylvarum</i> (Linnaeus, 1761)</p> <p>= <i>Bombus sylvarum distinctus</i> Vogt 1909</p> <p><b>Ssp. europea</b></p> <p>Ao, Pi, Li, Lo, V, VT, FVG, Em, To, Ma, Um, La, Abr, Mo, Cp, Bas, Cal, Si</p> <p>References: 67, 160, 162, 180, 200, 202, 204, 205, 206, 208, 209, 210, 223, 237, 243, 286, 289, 297, 298, 299, 301, 303, 363, 374, 386, 390, 411, 415, 416, 428, 438, 439, 440, 441, 449, 492, 514, 608, 634, 638, S40, S43</p>	I, II, III			Sáuze d' Oulx (Pi), Usseaux (Pi), Angrogna (Pi), Monte Tezio (2 loc.) (Um), Monte Subasio (2 loc.) (Um), Val di Varri (La), Percile (La), Campagnano di Roma (La), Prima Porta (La), Roma (3 loc.) (La), Ardea (La), Albano Laziale (La), Ariccia (La), Velletri (La), Ovindoli (Abr), Rocca di Mezzo (Abr), Montagna di Godi (Abr).	
46	<p><b>Bombus veteranus</b> (Fabricius, 1793)</p> <p>(Presence in Italy to be confirmed)</p> <p><b>Sp. sibirico-europea</b></p> <p>Pi, V, VT, Em, To</p> <p>References: 47, 71, 109, 290, 634, 638, CK03</p>	I, II	Moderate	9	—	<p><b>Bombus campestris</b></p> <p>Polyleptic</p> <p>Univoltine</p>