

Database of life history needs of crop pollinating Diptera ($n = 242$) found in all eight biogeographical regions globally.

Family	Species	Biogeographical region	Life stage	Habitat	Diet	Citations
Anthomyiidae	<i>Adia cinerella</i> Fallén, 1825	Afrotropic Nearctic	larva adult	manure/faeces	manure/faeces pollen and/or nectar	(1) (2, 3)
Anthomyiidae	* <i>Delia antiqua</i> (Meigen, 1826)	Antarctic Indomalaya Nearctic Neotropic Oceania Palearctic	larva adult	soil	predominately vegetables plant roots vegetables semisynthetic animal protein semisynthetic vegetable protein pollen and/or nectar hemipteran honeydew	(4-8) (9) (6, 7, 10, 11) (12) (9, 12-17) (18) (11)
Anthomyiidae	* <i>Delia coarctata</i> (Fallén, 1825)	Nearctic Palearctic	larva adult	host plant soil	cereals (crops) seedlings pollen and/or nectar hemipteran honeydew fungi/yeasts	(19-27) (25, 28, 29) (18) (30) (30)
Anthomyiidae	* <i>Delia platura</i> (Meigen, 1826)	Afrotropic Australasia Indomalaya Nearctic Oceania Palearctic	larva adult	soil	predominately vegetables seedlings vegetables predominately yeast semisynthetic vegetable protein pollen and/or nectar	(31, 32) (8, 33) (7) (8) (7, 17) (2, 34-38)
Anthomyiidae	<i>Pegomya solennis</i> (Meigen, 1826)	Palearctic	larva adult	host plant	plant leaves (including semi-aquatic) pollen and/or nectar	(39) (2)
Anthomyiidae	<i>Pegoplatia aestiva</i> (Meigen, 1826)	Nearctic	larva adult	manure/faeces	manure/faeces pollen and/or nectar	(40) (3)
Bibionidae	<i>Bibio hortulanus</i> (Linnaeus, 1758)	Palearctic	larva adult	host plant	cereals (crops) nectar and/or pollen	(41) (42)
Bibionidae	* <i>Bibio marci</i> Linnaeus, 1758	Palearctic	larva adult	decaying plant material leaf litter	decaying plant material leaf litter nectar and/or pollen	(43) (44-52) (53)
Bibionidae	* <i>Bibio nigrostigma</i> Walker, 1848	Australasia	larva adult		detritus nectar and/or pollen	(54) (34-37, 55-57)
Bibionidae	<i>Bibio varipes</i> Meigen, 1830	Palearctic	larva adult	soil leaf litter	decaying organic material leaf litter	(58) (43) (42)
Bibionidae	* <i>Dilophus febrilis</i> (Linnaeus, 1758)	Palearctic	larva adult	host plant leaf litter manure/faeces soil	cereals (crops) decaying organic material leaf litter manure/faeces plant roots nectar and/or pollen	(59) (60) (61) (61) (62) (3, 63)
Bibionidae	* <i>Penthetria iaponica</i> Wiedemann, 1830	Palearctic Indomalaya	larva adult	manure/feces	manure/feces nectar and/or pollen	(64) (42)
Bombyliidae	<i>Anthrax incomptus</i> Walker, 1849	Australasia Indomalaya	larva adult	host invertebrate	living invertebrate tissue nectar and/or pollen	(65) (66)
Bombyliidae	<i>Bombylius major</i> (Linnaeus, 1758)	Nearctic	larva adult	host invertebrate	living invertebrate tissue nectar and/or pollen	(67) (68, 69)
Bombyliidae	<i>Hemipenthes morio</i> (Linnaeus, 1758)	Nearctic	larva adult	host invertebrate	living invertebrate tissue nectar and/or pollen	(70) (71)
Bombyliidae	<i>Ligyra satyrus</i> (Fabricius, 1775)	Australasia Indomalaya	larva adult	host invertebrate	living invertebrate tissue nectar and/or pollen	(72) (66)
Bombyliidae	<i>Systoechus ctenopterus</i> (Mikan, 1796)	Palearctic	larva adult	host invertebrate	living invertebrate tissue nectar and/or pollen	(73) (42)
Calliphoridae	* <i>Calliphora augur</i> (Fabricius, 1775)	Australasia Indomalaya Neotropics	larva adult	carion host animal	animal protein bodily fluids carion living animal tissue nectar and/or pollen	(74-76) (76) (77-81) (82, 83) (83)
Calliphoridae	<i>Calliphora quadrimaculata</i> Swederus, 1787	Australasia	larva	manure/faeces	manure/faeces	(84)

			adult		nectar and/or pollen	(34-37)
Calliphoridae	<i>*Calliphora stygia</i> (Fabricius, 1781)	Australasia	larva		animal protein semisynthetic animal protein	(76, 85, 86) (86)
			adult		nectar and/or pollen	293; 295; 296; 551-553; 557; 670; 671)
Calliphoridae	<i>*Calliphora vicina</i> Robineau-Desvoidy, 1830	Afrotropic Australasia Nearctic Neotropics Palearctic	larva	carrion	animal protein predominately blood semisynthetic animal protein semisynthetic vegetable protein blood bodily fluids (not blood) carrion manure/faeces	(87-106) (101) (100, 103, 107) (103) (103, 108, 109) (108, 109) (103, 110-112) (2, 34-37, 57, 109, 113-117)
			adult		nectar and/or pollen animal protein for female oogenesis	(2, 34-37, 57, 113- 117) (118)
Calliphoridae	<i>*Calliphora vomitoria</i> (Linnaeus, 1758)	Afrotropic Nearctic Oceania Palearctic	larva	host animal	animal protein predominately blood living animal tissue	(90, 98, 119-121) (101) (121)
			adult		nectar and/or pollen	(18, 117, 122, 123)
Calliphoridae	<i>*Chrysomya albiceps</i> (Wiedemann, 1819)	Afrotropic Indomalaya Neotropics	larva	carrion	animal protein predominately animal protein carrion other dipteran larvae semisynthetic animal protein	(105, 124-132) (125) (133-139) (105, 140-145) (146)
			adult		nectar and/or pollen	(117)
Calliphoridae	<i>*Chrysomya bezziana</i> Villeneuve, 1914	Afrotropic Indomalaya	larva	host animal	animal protein predominately animal protein living animal tissue	(147) (148) (147, 149-151)
			adult		nectar and/or pollen animal protein for female oogenesis	(152) (150, 153)
Calliphoridae	<i>Chrysomya incisuralis</i> Macquart, 1851	Australasia	larva	carrion	carrion	(154)
Calliphoridae	<i>*Chrysomya megacephala</i> (Fabricius, 1794)	Afrotropic Australasia Indomalaya Nearctic Neotropics	adult		nectar and/or pollen	(83)
			larva	carrion	animal protein predominately animal protein carrion food waste manure/faeces semisynthetic vegetable protein synthetic animal protein unclear	(126, 140-144, 155-175) (165) (133, 138, 139, 176-179) (180) (155, 180, 181) (182) (182) (126)
			adult		nectar and/or pollen animal protein for female oogenesis semisynthetic animal protein for female oogenesis blood for female oogenesis	(183-188) (142, 157, 158, 189-195) (173) (196)
Calliphoridae	<i>*Chrysomya pinguis</i> Walker, 1858	Indomalaya	larva	carrion	animal protein semisynthetic animal protein carrion	(197) (198) (199-203)
			adult		nectar and/or pollen	(38)

Calliphoridae	<i>*Chrysomya regalis</i> (Robineau-Desvoidy, 1830)	Afrotropic Indomalaya	larva	carrion	animal protein	(204-208)
			adult		nectar and/or pollen	(209)
Calliphoridae	<i>*Chrysomya rufifacies</i> (Macquart, 1843)	Australasia Indomalaya Oceania	larva	carrion host animal	animal protein predominately sugar carrion living animal tissue	(99, 103) (210) (177, 178, 211) (210)
			adult		nectar and/or pollen animal protein for female oogenesis	(184, 212) (99, 103)
Calliphoridae	<i>*Chrysomya saffrana</i> Bigot, 1877	Australasia Indomalaya	larva	carrion	animal protein carrion	(78, 162) (78, 213, 214)
			adult		nectar and/or pollen	(184)
Calliphoridae	<i>*Chrysomya varipes</i> (Macquart, 1851)	Australasia Indomalaya Oceania	larva	carrion	animal protein carrion	(78, 215-219) (78, 213, 220, 221)
			adult		nectar and/or pollen	(83)
Calliphoridae	<i>*Lucilia ampullacea</i> (Villeneuve, 1922)	Palaearctic Indomalaya	larva	carrion host animal	animal protein living animal tissue	(222-232) (233)
			adult		nectar and/or pollen	(42)
Calliphoridae	<i>*Lucilia caesar</i> (Linnaeus, 1758)	Palaearctic	larva	carrion	carrion food waste	(234) (235)
			adult		nectar and/or pollen	(18, 123, 236-238)
Calliphoridae	<i>Lucilia papuensis</i> Macquart, 1843	Australasia Indomalaya	larva adult	carrion	carrion nectar and/or pollen	(239) (38)
Calliphoridae	<i>*Lucilia sericata</i> (Meigen, 1826)	Nearctic Neotropics Palaearctic	larva	host animal	animal protein predominately animal protein food waste living animal tissue manure/faeces predominately blood semisynthetic animal protein	(71, 105, 106, 240-246) (247, 248) (180) (249-251) (180, 252-254) (240, 255-257) (258, 259)
			adult		nectar and/or pollen animal protein for female oogenesis	(18, 34-37, 57, 117, 123, 260- 265) (266, 267)
Calliphoridae	<i>*Phormia regina</i> (Meigen, 1826)	Nearctic Oceania Palaearctic	larva	carrion	animal protein predominately animal protein carrion semisynthetic animal protein synthetic animal protein unclear	(268-276) (269, 272) (277) (272, 278-280) (281-286) (287-291)
			adult		nectar and/or pollen	(262)
Calliphoridae	<i>Pollenia hungarica</i> Rognes, 1987	Palaearctic	larva adult	host invertebrate	living invertebrate tissue nectar and/or pollen	(292, 293) (2)
Calliphoridae	<i>Pollenia pseudorudis</i> Rognes, 1985	Australasia Indomalaya Nearctic Palaearctic	larva adult	host invertebrate	living invertebrate tissue nectar and/or pollen	(294) (34-36)
Calliphoridae	<i>*Pollenia rudis</i> (Fabricius, 1794)	Australasia	larva	host invertebrate	living invertebrate tissue	(292, 295-300)

		Nearctic Oceania Palearctic	adult		nectar and/or pollen	(3)
Calliphoridae	<i>Protocalliphora azurea</i> (Fallén, 1817)	Palearctic	larva adult	host nest	living animal tissue nectar and/or pollen	(301-319) (71)
Calliphoridae	<i>Xenocalliphora hortona</i> (Walker, 1849)	Australasia	larva adult	carrion host animal	carrion living animal tissue nectar and/or pollen	(320) (320) (34-37)
Ceciomyiidae	<i>Clinodiplosis ultracrepidata</i> Gagné 2018	Nearctic	larva adult	host flower	fungi/yeasts nectar and/or pollen	(321) (321)
Ceratopogonidae	<i>Culicoides glabellus</i> Wirth & Blanton, 1956	Neotropics	larva adult	decaying fruit decaying plant material	decaying fruit decaying plant material nectar and/or pollen blood for female oogenesis	(322) (322) (323) (324)
Ceratopogonidae	<i>Culicoides paraensis</i> (Goeldi, 1905)	Nearctic Neotropics	larva adult	decaying fruit detritus	decaying fruit detritus nectar and/or pollen blood for female oogenesis	(325) (326) (322) (324, 327-332)
Ceratopogonidae	<i>Dasyhelea borgmeieri</i> Wirth & Waugh, 1976	Unknown	larva adult	detritus	detritus nectar and/or pollen	(326) (323)
Ceratopogonidae	<i>Dasyhelea cacaoi</i> Wirth & Waugh, 1976	Unknown	larva adult	decaying plant material	decaying plant material nectar and/or pollen	(333) (334)
Ceratopogonidae	<i>Dasyhelea soriai</i> Wirth & Waugh, 1976	Unknown	larva adult	decaying plant material	decaying plant material nectar and/or pollen	(333, 335) (334)
Ceratopogonidae	<i>Dasyhelea williamsi</i> Wirth & Waugh, 1976	Unknown	larva adult	decaying plant material	decaying plant material nectar and/or pollen	(333) (334)
Ceratopogonidae	<i>Dasyhelea winderi</i> Wirth & Waugh, 1976	Unknown	larva adult	decaying plant material	decaying plant material nectar and/or pollen	(333) (334)
Ceratopogonidae	<i>Forcipomyia bromeliae</i> Saunders, 1956	Neotropics	larva adult	decaying fruit decaying plant material	decaying fruit decaying plant material nectar and/or pollen	(322) (322) (323)
Ceratopogonidae	<i>Forcipomyia cinctipes</i> (Coquillett, 1905)	Nearctic	larva adult	decaying plant material leaf litter	decaying plant material leaf litter nectar and/or pollen	(334, 335) (334) (323)
Ceratopogonidae	<i>Forcipomyia fuliginosa</i> (Meigen, 1818)	Afrotropic Australasia Nearctic Neotropics Palearctic	larva adult	host invertebrate	living invertebrate tissue nectar and/or pollen	(336) (322)
Ceratopogonidae	<i>Forcipomyia genualis</i> (Loew, 1866)	Nearctic Neotropics	larva adult	decaying plant material	decaying plant material nectar and/or pollen	(334, 337) (334)
Ceratopogonidae	<i>Forcipomyia harpegonata</i> Wirth & Soria, 1975	Unknown	larva adult	decaying fruit decaying plant material	decaying fruit decaying plant material nectar and/or pollen	(322) (322, 338) (322, 334, 338-340)
Ceratopogonidae	<i>Forcipomyia jipajapae</i> Wirth, 1970	Neotropics	larva adult	decaying fruit decaying plant material	decaying fruit decaying plant material nectar and/or pollen	(322) (322) (322, 341)
Ceratopogonidae	<i>Forcipomyia lesliei</i> Wirth, 1974	Neotropics	larva adult	decaying fruit decaying plant material	decaying fruit decaying plant material nectar and/or pollen	(322) (322) (322, 339)
Ceratopogonidae	<i>Forcipomyia quasiingrami</i> Macfie, 1939	Nearctic Neotropics	larva adult	decaying fruit decaying plant material	decaying fruit decaying plant material nectar and/or pollen	(322) (322) (322)
Ceratopogonidae	<i>Forcipomyia quatei</i> Wirth, 1952	Nearctic Neotropics	larva	decaying plant material leaf litter	decaying plant material leaf litter	(334) (334)

			adult		nectar and/or pollen	(334)
Ceratopogonidae	<i>Forcipomyia spatulifera</i> Saunders, 1956	Neotropics	larva	decaying fruit decaying plant material	decaying fruit decaying plant material	(322) (322)
			adult		nectar and/or pollen	(322, 334, 339)
Ceratopogonidae	<i>Forcipomyia squamipennis</i> Ingram & Macfie, 1924	Afrotropic	larva	decaying plant material	decaying plant material	(342)
			adult		nectar and/or pollen	(342)
Ceratopogonidae	<i>Forcipomyia youngi</i> Wirth 1982	Unknown	larva	decaying plant material leaf litter	decaying plant material leaf litter	(334) (334)
			adult		nectar and/or pollen	(334)
Drosophilidae	<i>*Drosophila acutilabella</i> Stalker, 1953	Nearctic Neotropics	larva		predominately fruit predominately manure	(343) (344)
			adult		nectar and/or pollen	(321)
Drosophilidae	<i>*Drosophila melanogaster</i> Meigen, 1830	Afrotropic Australasia Indomalaya Nearctic Neotropics Oceania Palearctic	larva	decaying fruit fruit	predominately fruit decaying fruit fruit fungi/yeasts predominately sugar predominately vegetables predominately yeast semisynthetic animal protein semisynthetic vegetable protein	(345-351) (352) (353, 354) (346, 355-357) (358) (359) (360-365) (366) (367-377)
			adult		nectar and/or pollen fungi/yeasts	(378) (379)
Drosophilidae	<i>*Scaptomyza pallida</i> (Zetterstedt, 1847)	Nearctic Oceania Palearctic	larva	decaying plant material	decaying plant material	(380-382)
			adult		nectar and/or pollen	(2)
Drosophilidae	<i>*Zaprionus indianus</i> Gupta, 1970	Indomalaya Oceania	larva	decaying fruit fruit	predominately fruit decaying fruit fruit semisynthetic vegetable protein	(383, 384) (385) (385-391) (390)
			adult		nectar and/or pollen	(321)
Ephydriidae	<i>Hydrellia griseola</i> (Fallén, 1813)	Nearctic Palearctic	larva	host plant	cereals (crops) plant leaves (including semi-aquatic)	(392, 393) (394, 395)
			adult		nectar and/or pollen	(2)
Fanniidae	<i>Fannia canicularis</i> (Linnaeus, 1761)	Afrotropic Antarctic Australasia Indomalaya Nearctic Neotropics Oceania Palearctic	larva	carion decaying organic material host animal manure/faeces	carion decaying organic material living animal tissue manure/faeces	(396) (396) (396) (396, 397)
			adult		nectar and/or pollen animal protein for female oogenesis	(2) (396)
Milichiidae	<i>*Desmometopa m-nigrum</i> (Zetterstedt, 1848)	Afrotropic Australasia Indomalaya Nearctic Neotropics Oceania Palearctic	larva		dead insects decaying organic material	(398) (399)
			adult		nectar and/or pollen	(2)

Muscidae	<i>*Atherigona orientalis</i> (Schiner, 1868)	Australasia Indomalaya Oceania	larva	decaying fruit decaying vegetables fruit manure/faeces vegetables	animal protein carrion dead insects decaying fruit decaying vegetables fruit manure/faeces vegetables	(156) (400) (401) (156, 400-402) (402, 403) (404, 405) (156, 400-402) (406)
			adult		nectar and/or pollen	(407)
Muscidae	<i>Atherigona varia</i> Meigen, 1826	Palearctic	larva	host plant	plant leaves seedlings	(408) (409)
			adult		nectar and/or pollen	(117)
Muscidae	<i>*Coenosia tigrina</i> (Fabricius, 1775)	Nearctic Palearctic	larva		living invertebrate tissue	(410, 411)
			adult		nectar and/or pollen other dipteran adults	(3) (410, 412-414)
Muscidae	<i>*Haematobia irritans</i> (Linnaeus, 1758)	Nearctic Neotropics Oceania	larva	manure/faeces	predominately manure manure/faeces predominately fruit semisynthetic vegetable protein	(415-418) (415, 418-431) (418) (415)
			adult		nectar and/or pollen blood	(265) (417, 418, 423, 431-437)
Muscidae	<i>Hydrotaea rostrata</i> (Robineau-Desvoidy, 1830)	Australasia	larva	carrion manure/faeces	carrion manure/faeces	(220, 438-440) (441)
			adult		nectar and/or pollen animal protein for female oogenesis	(34-36) (438)
Muscidae	<i>*Mesembrina meridiana</i> (Linnaeus, 1758)	Palearctic	larva		manure/faeces	(442)
Muscidae	<i>*Musca autumnalis</i> De Geer, 1776	Nearctic Palearctic	adult		nectar and/or pollen	(443)
			larva	manure/faeces	manure/faeces	(429, 430, 444- 451)
Muscidae	<i>Musca conducens</i> Walker, 1859	Indomalaya Palearctic	adult		nectar and/or pollen blood bodily fluids (not blood)	(237) (448) (448, 452)
			larva	food waste manure/faeces	food waste manure/faeces	(453) (454)
Muscidae	<i>Musca curviforceps</i> Sacca & Rivoecchi, 1956	Afrotropic	adult		nectar and/or pollen blood	(455) (456-460)
			larva	host animal	living animal tissue	(461, 462)
Muscidae	<i>*Musca domestica</i> Linnaeus, 1758	Afrotropic Antarctic Australasia Indomalaya Nearctic Neotropic Oceania Palearctic	adult		nectar and/or pollen	(463)
			larva	carrion manure/faeces	animal protein predominately manure carrion manure/faeces predominately seaweed semisynthetic animal protein semisynthetic vegetable protein	(464) (465, 466) (467, 468) (397, 466, 469- 474) (471) (475) (465, 469, 471, 476, 477)
Muscidae	<i>*Musca hervei</i> Villeneuve, 1922	Indomalaya Oceania Palearctic	adult		nectar and/or pollen decaying fruit	(34, 83, 117, 183, 184, 186, 188, 212, 262, 478- 494) (474)
			larva		manure/faeces	(495)
Muscidae			adult		nectar and/or pollen	(38)

Muscidae	<i>*Muscina levida</i> (Harris, 1780)	Palearctic	larva	decaying plant material food waste manure/faeces soil	animal protein decaying plant material food waste manure/faeces	(496-500) (501-503) (497) (497)
			adult		nectar and/or pollen	(3, 504)
Muscidae	<i>*Muscina stabulans</i> (Fallén, 1817)	Nearctic Neotropics Palearctic	larva	host animal manure/faeces	semisynthetic animal protein manure/faeces	(505, 506) (441, 507)
			adult		nectar and/or pollen	(117)
Muscidae	<i>*Neomyia cornicina</i> (Fabricius, 1775)	Nearctic Palearctic Oceania	larva	manure/faeces	manure/faeces	(425, 428, 442, 508-518)
			adult		nectar and/or pollen manure/faeces	(42, 519) (518, 520)
Muscidae	<i>Neomyia limbata</i> (Villeneuve, 1916)	Afrotropic	larva	manure/faeces	manure/faeces	(521)
			adult		nectar and/or pollen	(485)
Muscidae	<i>Pyrellia tasmaniae</i> Macquart, 1846	Australasia	larva	manure/faeces	manure/faeces	(522)
			adult		nectar and/or pollen	(83)
Opomyzidae	<i>*Opomyza germinationis</i> (Linnaeus, 1758)	Nearctic Palearctic	larva		cereals (crops)	(523)
			adult		nectar and/or pollen	(3)
Rhiniidae	<i>Stomorhina discolor</i> (Fabricius, 1794)	Australasia Indomalaya Oceania	larva	hymenopteran nest	unclear	(524)
			adult		nectar and/or pollen	(186, 525, 526)
Rhiniidae	<i>Stomorhina lunata</i> (Fabricius, 1805)	Indomalaya Palearctic	larva	hymenopteran nest	insect eggs	(300, 527)
			adult		unclear nectar and/or pollen	(300) (2, 528)
Rhinophoridae	<i>Stevenia deceptor</i> (Loew, 1847)	Palearctic	larva	host invertebrate	living invertebrate tissue	(529)
			adult		nectar and/or pollen	(261)
Rhinophoridae	<i>Tricogena rubricosa</i> (Meigen, 1824)	Palearctic	larva	host invertebrate	living invertebrate tissue	(530)
			adult		nectar and/or pollen	(519)
Sarcophagidae	<i>Oxysarcodexia paulistanensis</i> (Mattos, 1919)	Neotropics	larva	carrion	carrion	(531)
			adult		nectar and/or pollen	(261)
Sarcophagidae	<i>Oxysarcodexia varia</i> (Walker, 1836)	Australasia Neotropics Oceania	larva	carrion manure/faeces	carrion unclear	(532) (533)
			adult		nectar and/or pollen	(34-37, 113, 261)
Sarcophagidae	<i>Sarcophaga africa</i> (Wiedemann, 1824)	Afrotropic Australasia Oceania	larva	carrion host animal	carrion living animal tissue	(534) (535, 536)
			adult		nectar and/or pollen	(485)
Sarcophagidae	<i>*Sarcophaga albiceps</i> (Meigen, 1826)	Australasia Indomalaya Oceania Palearctic	larva	manure/faeces	animal protein manure/faeces	(201, 223, 537) (538)
			adult		nectar and/or pollen	(42)
Sarcophagidae	<i>*Sarcophaga carnaria</i> (Linnaeus, 1758)	Palearctic	larva	carrion host animal host invertebrate	animal protein predominately animal protein carrion living animal tissue living invertebrate tissue	(539-541) (542) (543, 544) (541) (545)
			adult		nectar and/or pollen animal protein for female oogenesis	(183, 237) (546)
Sarcophagidae	<i>*Sarcophaga melanura</i> (Meigen, 1826)	Nearctic Palearctic	larva		animal protein	(223)
			adult		nectar and/or pollen	(42)
Sarcophagidae	<i>*Sarcophaga peregrina</i> (RobineauDesvoidy, 1830)	Australasia Indomalaya Oceania Palearctic	larva		animal protein predominately animal protein	(159, 547-549) (549-553)
			adult		nectar and/or pollen animal protein for female oogenesis	(38) (552)
Sarcophagidae	<i>Sarcophaga schuetzei</i> Kramer, 1909	Palearctic	larva	host invertebrate	living invertebrate tissue	(554)
			adult		nectar and/or pollen	(455)

Sarcophagidae	<i>*Sarcophaga septentrionalis</i> (Rohdendorf, 1937)	Palearctic	larva	host animal	animal protein living animal tissue	(555-557) (558, 559)
			adult		nectar and/or pollen	(42)
Sarcophagidae	<i>*Sarcophaga similis</i> Meade, 1876	Palearctic	larva	carriion host animal	animal protein predominately animal protein carriion living animal tissue	(223, 560-566) (567, 568) (569) (570)
			adult		nectar and/or pollen animal protein for female oogenesis	(38) (564)
Sarcophagidae	<i>*Tricharaea occidua</i> (Fabricius, 1794)	Nearctic Neotropics	larva	carriion manure/faeces	carriion manure/faeces	(571) (533, 572-584)
			adult		nectar and/or pollen	(261)
Scathophagidae	<i>*Scathophaga stercoraria</i> (Linnaeus, 1758)	Indomalaya Nearctic Neotropics Palearctic	larva adult		manure/faeces nectar and/or pollen other dipteran adults	(585-594) (2, 3, 443) (590, 591, 593)
Sciomyzidae	<i>Sepedon aenescens</i> (Wiedemann, 1830)	Indomalaya Oceania Palearctic	larva adult	host animal	living animal tissue nectar and/or pollen	(595-597) (42)
Sepsidae	<i>*Lasionemopoda hirsuta</i> (Meijere, 1906)	Australasia	larva adult		manure/faeces nectar and/or pollen	(598) (113)
Sepsidae	<i>*Sepsis dissimilis</i> Brunetti, 1909	Afrotropic Australasia Indomalaya	larva adult		manure/faeces nectar and/or pollen	(599) (83)
Simuliidae	<i>Simulium venustum</i> Say, 1823	Nearctic Palearctic	larva adult	detritus	algae nectar and/or pollen blood	(600) (601) (602, 603)
Stratiomyidae	<i>Chloromyia formosa</i> (Scopoli, 1763)	Nearctic Palearctic	larva	decaying organic material decaying plant material manure/faeces	decaying organic material decaying plant material manure/faeces	(604) (604) (604)
			adult		nectar and/or pollen	(605)
Stratiomyidae	<i>*Hermetia illucens</i> (Linnaeus, 1758)	Afrotropic Australasia Indomalaya Nearctic Neotropics Oceania Palearctic	larva	decaying fruit food waste	predominately semisynthetic animal protein decaying fruit food waste manure/faeces oil waste predominately vegetables semisynthetic vegetable protein	(606) (607, 608) (607-610) (473, 607, 609, 611-613) (610) (614) (611, 615-626)
			adult		nectar and/or pollen	(627, 628)
Stratiomyidae	<i>Nemotelus nigrinus</i> (Fallén, 1817)	Nearctic Palearctic	larva	freshwater habitats sedimentation basins	decaying organic material	(604)
			adult		nectar and/or pollen	(42)
Stratiomyidae	<i>Stratiomya japonica</i> (Wulp, 1885)	Palearctic	larva adult	hydrothermal springs	detritus	(629) (42)
Syrphidae	<i>Allograpta calopa</i> (Loew, 1858)	Afrotropic	larva adult	host plant	aphids nectar and/or pollen	(630) (492, 630)
Syrphidae	<i>Allograpta dorsalis</i> Miller, 1924	Australasia	larva	host plant	aphids small, soft-bodied insects	Expert opinion
			adult		nectar and/or pollen	(56)
Syrphidae	<i>*Allograpta exotica</i> (Wiedemann, 1830)	Nearctic Neotropics Oceania	larva adult	host plant	aphids nectar and/or pollen	(631-640) (261, 627, 628, 639, 641)
Syrphidae	<i>*Allograpta javana</i> (Wiedemann, 1824)	Australasia	larva	host plant	aphids	(642, 643)

		Indomalaya Palearctic	adult		small hemipterans nectar and/or pollen	(644, 645) (42)
Syrphidae	<i>*Allograpta obliqua</i> (Say, 1823)	Nearctic Neotropics Oceania	larva	host plant	aphids small hemipterans	(631, 646-649) (650)
			adult		nectar and/or pollen	(627, 628, 650, 651)
Syrphidae	<i>*Betasyrphus serarius</i> (Wiedemann, 1930)	Australasia Indomalaya	larva adult	host plant	aphids nectar and/or pollen	(652-654) (42, 655)
Syrphidae	<i>*Blera fallax</i> Linnaeus, 1758	Palearctic	larva adult	tree hollows	detritus nectar and/or pollen	(656-660) (656, 661)
Syrphidae	<i>Cheilosia albitarsis</i> (Meigen, 1822)	Palearctic Nearctic	larva adult	decaying plant material	decaying roots	(662) (42)
Syrphidae	<i>Cheilosia pagana</i> (Meigen, 1822)	Nearctic Palearctic	larva adult	decaying plant material	decaying plant material nectar and/or pollen	(662) (42)
Syrphidae	<i>Chrysotoxum arcuatum</i> (Linnaeus, 1758)	Palearctic	larva adult	host nest	hymenopteran brood nectar and/or pollen	(663, 664) (42)
Syrphidae	<i>Chrysotoxum festivum</i> (Linnaeus, 1758)	Palearctic	larva adult	host nest	aphids nectar and/or pollen	(665) (42, 655)
Syrphidae	<i>Chrysotoxum intermedium</i> Meigen, 1822	Palearctic	larva adult	host plant	aphids nectar and/or pollen	(666, 667) (668)
Syrphidae	<i>Copestylum marginatum</i> (Say, 1829)	Nearctic	larva adult	decaying plant material	decaying plant material nectar and/or pollen	(669, 670) (671)
Syrphidae	<i>Criorhina berberina</i> (Fabricius, 1805)	Palearctic	larva adult	decaying plant material	decaying plant material nectar and/or pollen	(672) (661)
Syrphidae	<i>Dasysyrphus venustus</i> (Meigen, 1822)	Nearctic Palearctic	larva adult	host plant	aphids small hemipterans nectar and/or pollen	(673) (673) (42)
Syrphidae	<i>Dideopsis aegrota</i> (Fabricius, 1805)	Australasia Indomalaya	larva adult	host plant	aphids nectar and/or pollen	(265, 674, 675) (183)
Syrphidae	<i>Epistrophe aino</i> (Matsumura, 1917)	Palearctic	larva adult	host plant	aphids nectar and/or pollen	(676) (42)
Syrphidae	<i>*Epistrophe eligans</i> (Harris, 1780)	Palearctic	larva adult	host plant	aphids nectar and/or pollen	(677-680) (681, 682)
Syrphidae	<i>Epistrophe grossulariae</i> (Meigen, 1822)	Nearctic Palearctic	larva adult	host plant	aphids nectar and/or pollen	(683) (183)
Syrphidae	<i>Epistrophe nitidicollis</i> (Meigen, 1822)	Palearctic	larva adult	host plant	aphids nectar and/or pollen	(684) (42)
Syrphidae	<i>*Episyrphus balteatus</i> (De Geer, 1776)	Palearctic	larva adult	host plant	aphids drone honeybee brood powder nectar and/or pollen	(685-708) (696) (2, 3, 18, 38, 68, 114, 116, 183, 186, 188, 212, 237, 478, 480, 482, 483, 490, 494, 605, 668, 681, 682, 699, 709-735)
Syrphidae	<i>*Eristalinus aeneus</i> (Scopoli, 1763)	Australasia Nearctic Oceania Palearctic	larva adult		semisynthetic vegetable protein manure/faeces nectar and/or pollen	(736-739) (736) (2, 212, 378, 478, 480, 668, 682, 712, 716, 734, 740-742)
Syrphidae	<i>Eristalinus arvorum</i> (Fabricius, 1787)	Australasia Indomalaya	larva	carrion moist soil	carrion decaying organic material	(743) (744)

		Oceania Palearctic	adult		nectar and/or pollen orchid hair tufts	(66, 183, 478, 710, 716, 723) (745)
Syrphidae	<i>Eristalinus megacephalus</i> (Rossi, 1794)	Afrotropic Indomalaya Palearctic	larva	decaying organic material sewage	decaying organic material	(746, 747)
			adult		nectar and/or pollen	(212, 478, 528, 734, 740, 742, 748, 749)
Syrphidae	<i>*Eristalinus punctulatus</i> (Macquart, 1847)	Australasia	larva	sewage	semisynthetic vegetable protein decaying organic material decaying plant material	(750) (750) (750)
			adult		nectar and/or pollen	(83, 750, 751)
Syrphidae	<i>Eristalinus sepulchralis</i> (Linnaeus, 1758)	Indomalaya Palearctic	larva	hydrothermal springs	microorganisms	(752)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>Eristalinus taeniops</i> (Wiedemann, 1818)	Afrotropic Afrotropic Nearctic Palearctic	larva	effluent host animal sewage	animal protein decaying organic material decaying plant material living animal tissue	(746) (753) (746) (753)
			adult		nectar and/or pollen	(116, 528, 668, 716, 754)
Syrphidae	<i>Eristalinus tarsalis</i> (Macquart, 1855)	Indomalaya Palearctic	larva	manure/faeces	manure/faeces	(755)
			adult		nectar and/or pollen	(38, 726, 755)
Syrphidae	<i>*Eristalis arbustorum</i> (Linnaeus, 1758)	Nearctic Palearctic	larva	decaying plant material	predominately manure decaying plant material	(756-758) (756)
			adult		nectar and/or pollen	(3, 237, 528, 628, 671, 682, 719, 756, 759-764)
Syrphidae	<i>Eristalis pertinax</i> (Scopoli, 1763)	Palearctic	larva	effluent moist soil	decaying organic material	(765)
			adult		nectar and/or pollen	(186, 237, 443, 681, 762-764)
Syrphidae	<i>*Eristalis tenax</i> (Linnaeus, 1758)	Afrotropic Australasia Indomalaya Nearctic Neotropics Oceania Palearctic	larva	effluent	semisynthetic vegetable protein decaying organic material manure/faeces	(737-739) (750) (766, 767)
			adult		nectar and/or pollen	(3, 18, 34-37, 55- 57, 113, 114, 116, 186, 188, 236, 237, 260, 455, 494, 628, 651, 668, 681, 710, 712, 713, 716, 719, 723, 724, 726, 728, 729, 732, 740, 759- 761, 768-782)
Syrphidae	<i>Eumerus funeralis</i> Meigen, 1822	Australasia Nearctic Neotropics Palearctic	larva	decaying plant material plant bulbs soil	decaying plant material plant bulbs plant roots	(783-785) (786) (784)
			adult		nectar and/or pollen	(34, 484)
Syrphidae	<i>Eumerus obliquus</i> (Fabricius, 1805)	Afrotropic Australasia Palearctic	larva	decaying fruit decaying plant material	decaying fruit decaying plant material	(787) (406, 787, 788)
			adult		nectar and/or pollen	(492, 754, 789)
Syrphidae	<i>Eumerus sogdianus</i> Stackelberg, 1952	Palearctic	larva	host plant	plant stems	(790)
			adult		nectar and/or pollen	(42)

Syrphidae	<i>Eumerus strigatus</i> (Fallén, 1817)	Australasia Nearctic Palearctic	larva	decaying plant material soil	decaying plant material plant roots	(785, 791-794) (791)
Syrphidae	<i>*Eupeodes americanus</i> (Wiedemann, 1830)	Nearctic Oceania	adult		nectar and/or pollen	(237, 728, 760)
			larva	host plant	aphids other dipteran larvae	(631, 795-803) (802)
			adult		nectar and/or pollen	(671, 781, 804)
Syrphidae	<i>Eupeodes confrater</i> (Wiedemann, 1830)	Australasia Indomalaya	larva	host plant	aphids	(805)
			adult		nectar and/or pollen	(709)
Syrphidae	<i>*Eupeodes corollae</i> (Fabricius, 1794)	Palearctic	larva	host plant	aphids insect eggs	(676, 677, 680, 806-839) (840)
			adult		nectar and/or pollen	(2, 3, 186, 188, 212, 237, 480, 482, 490, 494, 528, 668, 682, 709, 716, 728, 729, 733, 734, 740, 760, 786, 838, 841, 842)
Syrphidae	<i>Eupeodes lapponicus</i> (Zetterstedt, 1838)	Nearctic	larva	Host plant	aphids	(800)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>Eupeodes latifasciatus</i> (Macquart, 1829)	Nearctic	larva	host plant	aphids	(843-847)
			adult		nectar and/or pollen	(727, 760, 848)
Syrphidae	<i>*Eupeodes luniger</i> (Meigen, 1822)	Nearctic Palearctic	larva	host plant	aphids	(849-851)
			adult		nectar and/or pollen	(237, 728)
Syrphidae	<i>*Eupeodes nitens</i> (Zetterstedt, 1843)	Palearctic	larva	host plant	aphids	(843, 852-856)
			adult		nectar and/or pollen	(760, 772)
Syrphidae	<i>Eupeodes volucris</i> Osten Sacken, 1877	Nearctic Oceania	larva	host plant	aphids	(631, 797, 857)
			adult		nectar and/or pollen	(671)
Syrphidae	<i>Helophilus hochstetteri</i> Nowicki, 1875	Australasia	larva	freshwater habitats	decaying organic material	(858)
			adult		nectar and/or pollen	(34-37, 56, 113, 768)
Syrphidae	<i>Helophilus pendulus</i> (Linnaeus, 1758)	Palearctic	larva	freshwater habitats mud pool	decaying organic material unclear	(859) (860)
			adult		nectar and/or pollen	(3, 861, 862)
Syrphidae	<i>Helophilus seelandicus</i> (Gmelin, 1790)	Australasia	larva	freshwater habitats	decaying organic material	(858)
			adult		nectar and/or pollen	(34, 260)
Syrphidae	<i>Helophilus trilineatus</i> (Fabricius, 1775)	Australasia	larva	freshwater habitats	decaying organic material	Expert opinion unpublished findings
			adult		nectar and/or pollen	(36)
Syrphidae	<i>*Ischiodon aegyptius</i> (Wiedemann, 1830)	Afrotropic Palearctic	larva	host plant	aphids	(863-869)
			adult		nectar and/or pollen	(407, 740, 754, 789, 870)
Syrphidae	<i>*Ischiodon scutellaris</i> (Fabricius, 1805)	Australasia Indomalaya Oceania	larva	host plant	aphids	(700, 833, 851, 871-876)
			adult		nectar and/or pollen	(66, 186, 212, 710, 716, 723, 727, 731, 734, 772, 872, 877)
Syrphidae	<i>Lejogaster metallina</i> (Fabricius, 1777)	Palearctic	larva	moist soil	decaying organic material	(878)
			adult		nectar and/or pollen	(237, 760)
Syrphidae	<i>*Mallota florea</i> (Linnaeus, 1758)	Palearctic	larva	tree hollows	decaying plant material detritus	(879) (658, 879)

			adult		nectar and/or pollen	(2, 237, 605, 760)
Syrphidae	<i>Melangyna novaezelandiae</i> (Macquart, 1855)	Australasia	larva	host plant	aphids	(880)
			adult		nectar and/or pollen	(34-37, 55-57, 113, 768, 881, 882)
Syrphidae	<i>*Melangyna viridiceps</i> (Macquart, 1847)	Australasia	larva	host plant	aphids	(883-885)
			adult		small lepidopteran larvae	(885)
					nectar and/or pollen	(83, 886-888)
Syrphidae	<i>*Melanostoma fasciatum</i> (Macquart, 1850)	Australasia	larva	host plant	aphids	(889)
					small hemipterans (not aphids)	(890, 891)
			adult		nectar and/or pollen	(34-37, 55, 57, 113, 260, 768, 780, 892-894)
Syrphidae	<i>*Melanostoma mellinum</i> (Linnaeus, 1758)	Nearctic Palearctic	larva	host plant	aphids	(895-897)
			adult		nectar and/or pollen	(3, 237, 528, 651, 681, 728, 786, 898)
					hemipteran honeydew	(898)
Syrphidae	<i>Melanostoma orientale</i> (Wiedemann, 1824)	Indomalaya	larva	host plant	aphids	(899)
			adult		nectar and/or pollen	(494, 724, 900, 901)
Syrphidae	<i>*Melanostoma scalare</i> (Fabricius, 1794)	Palearctic	larva	host plant	aphids	(895, 896, 902)
			adult		nectar and/or pollen	(3, 726)
Syrphidae	<i>Melanostoma univittatum</i> (Wiedemann, 1824)	Palearctic Indomalaya	larva	host plant	aphids	Expert opinion
			adult		small, soft-bodied insects	
					nectar and/or pollen	(723, 727, 729)
Syrphidae	<i>Meliscaeva auricollis</i> (Meigen, 1822)	Afrotropic Palearctic	larva	host plant	aphids	(903)
			adult		nectar and/or pollen	(2, 728)
Syrphidae	<i>Meliscaeva cinctella</i> (Zetterstedt, 1843)	Nearctic	larva	host plant	aphids	(895, 904)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>*Merodon equestris</i> (Fabricius, 1794)	Nearctic Palearctic	larva	host plant	plant bulbs	(905-910)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>Meromacrus acutus</i> (Fabricius, 1805)	Nearctic Neotropics	larva	decaying plant material	decaying plant material	(911)
			adult		nectar and/or pollen	(779)
Syrphidae	<i>Mesembrius bengalensis</i> (Wiedemann, 1819)	Australasia Indomalaya	larva	tree hollows	detritus	(912)
			adult		nectar and/or pollen	(184, 480, 716, 754)
Syrphidae	<i>Milesia virginiensis</i> (Drury, 1773)	Nearctic	larva	tree hollows	detritus	(913)
			adult		nectar and/or pollen	(779)
Syrphidae	<i>Ocyptamus gastrostactus</i> (Wiedemann, 1830)	Nearctic Neotropics	larva	host plant	aphids	(632, 634, 638)
			adult		nectar and/or pollen	(914)
Syrphidae	<i>*Ornidia obesa</i> (Fabricius, 1775)	Afrotropic Indomalaya Nearctic Neotropics Oceania	larva	carrion decaying plant material host animal manure/faeces	carrion decaying organic material decaying plant material living animal tissue manure/faeces	(915) (916) (917, 918) (919, 920) (921-923)
			adult		nectar and/or pollen	(238, 491, 779, 914, 924)
Syrphidae	<i>Palpada furcata</i> (Wiedemann, 1819)	Nearctic Neotropics	larva	decaying plant material	decaying plant material	(911)
			adult		nectar and/or pollen	(627, 628, 779, 914)
Syrphidae	<i>*Paragus borbonicus</i> Macquart, 1842	Afrotropic	larva		aphids	(925)
			adult		nectar and/or pollen	(407)
Syrphidae	<i>Paragus longiventris</i> Loew, 1858	Afrotropic	larva	host plant	aphids	(630)
			adult		nectar and/or pollen	(789)
Syrphidae	<i>Paragus quadrifasciatus</i> Meigen, 1822	Palearctic	larva	host plant	aphids	(676)

			adult		nectar and/or pollen	(38)
Syrphidae	<i>Paragus tibialis</i> (Fallén, 1817)	Palearctic	larva	host plant	aphids	(926)
			adult		nectar and/or pollen	(782)
Syrphidae	<i>Parasyrphus annulatus</i> (Zetterstedt, 1838)	Palearctic	larva	host plant	aphids	(927)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>*Parasyrphus nigratarsis</i> (Zetterstedt, 1843)	Nearctic	larva	host plant	chrysomelid beetle larvae	(928-931)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>Parasyrphus punctulatus</i> (Verrall, 1873)	Palearctic	larva	host plant	aphids	(932)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>Pipiza noctiluca</i> (Linnaeus, 1758)	Palearctic	larva	host plant	aphids	(843)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>*Pipiza quadrimaculata</i> (Panzer, 1802)	Nearctic	larva		aphids	(933)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>Platycheirus albimanus</i> (Fabricius, 1781)	Palearctic	larva	host plant	aphids	(843, 895)
		Nearctic	adult		nectar and/or pollen	(42, 519)
Syrphidae	<i>*Platycheirus angustatus</i> (Zetterstedt, 1843)	Nearctic	larva		aphids	(934)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>Platycheirus clypeatus</i> (Meigen, 1822)	Nearctic	larva	host plant	aphids	(896)
		Palearctic	adult		nectar and/or pollen	(3)
Syrphidae	<i>*Platycheirus fulviventris</i> (Macquart, 1829)	Palearctic	larva	host plant	aphids	(896)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>Platycheirus manicatus</i> (Meigen, 1822)	Palearctic	larva	host plant	aphids	(935, 936)
			adult		nectar and/or pollen	(3)
Syrphidae	<i>Platycheirus peltatus</i> (Meigen, 1822)	Palearctic	larva	host plant	aphids	(935)
			adult		nectar and/or pollen	(3, 237)
Syrphidae	<i>Platycheirus scambus</i> (Staeger, 1843)	Nearctic	larva	host plant	aphids	(934)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>Platycheirus scutatus</i> (Meigen, 1822)	Nearctic	larva	host plant	aphids	(677, 937)
			adult		nectar and/or pollen	(682)
Syrphidae	<i>*Platycheirus tarsalis</i> (Schummel, 1836)	Palearctic	larva		aphids	(933)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>Portevinia maculata</i> (Fallén, 1817)	Palearctic	larva	host plant	plant bulbs	(938)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>*Pseudodoros clavatus</i> (Fabricius, 1794)	Nearctic	larva	host plant	aphids	(632, 638, 646, 939-943)
			adult		nectar and/or pollen	(627, 628, 914)
Syrphidae	<i>Scaeva latimaculata</i> (Brunetti, 1923)	Indomalaya	larva	host plant	aphids	(871, 944)
		Palearctic	adult		nectar and/or pollen	(716)
Syrphidae	<i>*Scaeva pyrastris</i> (Linnaeus, 1758)	Afrotropic	larva	host plant	aphids	(631, 680, 833, 898, 945, 946)
		Nearctic				
		Palearctic	adult		nectar and/or pollen	(3, 18, 237, 710, 723, 727, 728)
Syrphidae	<i>*Scaeva selenitica</i> (Meigen, 1822)	Nearctic	larva		aphids	(945, 947)
		Palearctic	adult		nectar and/or pollen	(728)
Syrphidae	<i>Senaspis haemorrhoea</i> Gerstaecker, 1871	Afrotropic	larva	tree hollows	detritus	(912)
			adult		nectar and/or pollen	(948)
Syrphidae	<i>Simosyrphus grandicornis</i> (Macquart, 1842)	Australasia	larva	host plant	aphids	(885, 945)
		Oceania			small lepidopteran larvae	(885)
			adult		nectar and/or pollen	(83, 712, 888)
Syrphidae	<i>Sphaerophoria bengalensis</i> Macquart, 1842	Indomalaya	larva	host plant	aphids	(899, 949, 950)
		Palearctic	adult		nectar and/or pollen	(716)
Syrphidae	<i>Sphaerophoria indiana</i> Bigot, 1884	Indomalaya	larva	host plant	aphids	(871, 951)
		Palearctic	adult		nectar and/or pollen	(716, 723, 729, 731, 952)
Syrphidae	<i>Sphaerophoria macrogaster</i> (Thompson, 1869)	Australasia	larva	host plant	aphids	(953)

			adult		nectar and/or pollen	(627, 953)
Syrphidae	<i>Sphaerophoria philanthus</i> Meigen, 1822	Nearctic	larva	host plant	aphids	(954)
			adult		nectar and/or pollen	(42)
Syrphidae	* <i>Sphaerophoria rueppellii</i> (Wiedemann, 1830)	Afrotropic	larva	host plant	aphids other dipteran larvae small hemipterans (not aphids)	(830, 838, 841, 955-963) (964) (955)
			adult		nectar and/or pollen hemipteran honeydew	(528, 668, 826, 830, 838, 956, 957, 959, 965, 966) (967)
Syrphidae	* <i>Sphaerophoria scripta</i> (Linnaeus, 1758)	Nearctic Palearctic	larva	host plant	aphids other dipteran larvae small hemipterans (not aphids) small lepidopteran larvae	(680, 895, 897, 955, 968-973) (972) (972) (972)
			adult		nectar and/or pollen	(3, 18, 237, 478, 480, 528, 605, 668, 681, 682, 728, 733, 760, 826, 842, 898, 972)
Syrphidae	* <i>Sphaerophoria taeniata</i> (Meigen, 1822)	Palearctic	larva		aphids	(933)
			adult		nectar and/or pollen	(42)
Syrphidae	* <i>Sphiximorpha subsessilis</i> (Illiger, 1807)	Palearctic	larva		decaying organic material	(974)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>Syritta flaviventris</i> Macquart, 1842	Afrotropic Nearctic Neotropical Palearctic	larva	decaying organic material decaying plant material	decaying organic material decaying plant material	(975) (784, 976)
			adult		nectar and/or pollen	(528)
Syrphidae	* <i>Syritta pipiens</i> (Linnaeus, 1758)	Afrotropic Nearctic Palearctic	larva	carrion decaying plant material host plant manure/faeces rainwater baskets	carrion decaying plant material decaying seaweed manure/faeces	(977) (784, 976) (978) (786, 978)
			adult		nectar and/or pollen	(18, 237, 528, 605, 651, 668, 682, 726, 734, 786, 952)
Syrphidae	* <i>Syrphus ribesii</i> (Linnaeus, 1758)	Nearctic Neotropical Palearctic	larva	host plant	aphids	(676-678, 680, 692-694, 811, 902, 979-987)
			adult		nectar and/or pollen	(3, 18, 237, 443, 605, 682, 719, 728, 733, 760)
Syrphidae	<i>Syrphus torvus</i> Osten Sacken, 1875	Nearctic Palearctic	larva	host plant	aphids	(676, 800)
			adult		nectar and/or pollen	(728, 988, 989)
Syrphidae	<i>Syrphus vitripennis</i> Meigen, 1822	Nearctic Palearctic	larva	host plant	aphids	(653, 680, 990- 992)
			adult		nectar and/or pollen	(682, 714, 728, 786, 993)
Syrphidae	<i>Toxomerus floralis</i> (Fabricius, 1798)	Nearctic Neotropical	larva	host plant	pollen	(994)
			adult		nectar and/or pollen	(914)
Syrphidae	* <i>Toxomerus marginatus</i> (Say, 1823)	Nearctic Oceania	larva	host plant	aphids	(631, 646, 797, 995, 996)

			adult		nectar and/or pollen	(628, 671, 997, 998)
Syrphidae	<i>Toxomerus politus</i> (Say, 1823)	Nearctic Neotropic	larva	host plant	insect eggs plant leaves (including semi-aquatic) pollen	(999) (1000) (1000-1002)
			adult		nectar and/or pollen	(628, 651)
Syrphidae	<i>Trichopsomyia flavitarsis</i> (Meigen, 1822)	Palearctic	larva	host plant	small hemipterans (not aphids)	(1003)
			adult		nectar and/or pollen	(605)
Syrphidae	<i>Tropidia scita</i> (Harris, 1780)	Palearctic	larva	decaying plant material	decaying plant material	(1004)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>Volucella bombylans</i> (Linnaeus, 1758)	Nearctic Palearctic	larva	hymenopteran nest	hymenopteran brood	(1005)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>Volucella pellucens</i> (Linnaeus, 1758)	Indomalaya Palearctic	larva	hymenopteran nest	hymenopteran brood	(1006)
			adult		nectar and/or pollen	(237)
Syrphidae	<i>Volucella zonaria</i> (Poda, 1761)	Palearctic	larva	hymenopteran nest	hymenopteran brood	(1007)
			adult		nectar and/or pollen	(1008)
Syrphidae	<i>Xanthandrus comtus</i> (Harris, 1780)	Palearctic	larva	host plant	small lepidopteran larvae	(1009)
			adult		nectar and/or pollen	(42)
Syrphidae	<i>Xylota segnis</i> Linnaeus, 1758	Nearctic	larva	carion compost	carion decaying organic material manure/faeces	(1010) (1011) (1011)
			adult		nectar and/or pollen	(42)
Tachinidae	<i>Aplomya confinis</i> (Fallén, 1820)	Palearctic	larva	host invertebrate	living invertebrate tissue	(1012)
			adult		nectar and/or pollen	(71)
Tachinidae	<i>Belvosia bicincta</i> Robineau-Desvoidy, 1830	Nearctic Neotropic	larva	host invertebrate	living invertebrate tissue	(1013)
			adult		nectar and/or pollen	(491)
Tachinidae	* <i>Cylindromyia bicolor</i> (Olivier, 1811)	Palearctic	larva	host invertebrate	living invertebrate tissue	(1014)
			adult		nectar and/or pollen	(71)
Tachinidae	<i>Elomya lateralis</i> (Meigen, 1824)	Palearctic	larva	host invertebrate	living invertebrate tissue	(1015, 1016)
			adult		nectar and/or pollen	(71)
Tachinidae	* <i>Exorista sorbillans</i> (Wiedemann, 1830)	Afrotropic Australasia Indomalaya Oceania Palearctic	larva	host invertebrate	host insect cell culture living invertebrate tissue	(1017) (1018-1033)
			adult		nectar and/or pollen	(38)
Tachinidae	<i>Nowickia ferox</i> (Panzer, 1806)	Palearctic	larva	host invertebrate	living invertebrate tissue	(1034)
			adult		nectar and/or pollen	(71)
Tachinidae	<i>Pales marginata</i> (Hutton, 1881)	Australasia	larva	host invertebrate	living invertebrate tissue	(1035)
			adult		nectar and/or pollen	(34-36)
Tachinidae	<i>Pales usitata</i> (Hutton, 1901)	Australasia	larva	host invertebrate	living invertebrate tissue	(1036)
			adult		nectar and/or pollen	(34, 36)
Tachinidae	<i>Peleteria rubescens</i> (Robineau-Desvoidy, 1830)	Palearctic	larva	host invertebrate	living invertebrate tissue	(1037)
			adult		nectar and/or pollen	(71)
Tachinidae	<i>Protohystricia alcis</i> (Walker, 1849)	Australasia	larva	host invertebrate	living invertebrate tissue	(1036)
			adult		nectar and/or pollen	(35)
Tachinidae	<i>Sericozenillia albipila</i> (Mesnil, 1957)	Palearctic	larva	host invertebrate	living invertebrate tissue	(1038)
			adult		nectar and/or pollen	(1039)
Tachinidae	<i>Siphona geniculata</i> (De Geer, 1776)	Nearctic	larva	host invertebrate	living invertebrate tissue	(1040)
			adult		nectar and/or pollen	(3)
Tephritidae	* <i>Ceratitis capitata</i> (Wiedemann, 1824)	Afrotropic Australasia Nearctic Neotropic Oceania Palearctic	larva	fruit	fruit predominately fruit predominately vegetables semisynthetic animal protein semisynthetic vegetable protein	(1041-1046) (1047) (1048) (1049) (1050-1054)
			adult		nectar and/or pollen	(914)

Tephritidae	<i>Dioxya sororcula</i> (Wiedemann, 1830)	Afrotropic Australasia Oceania Palearctic	larva	host plant	decaying fruit plant seeds	(1055)
			adult		nectar and/or pollen microorganisms fungi/yeasts	(1056) (948) (1057, 1058) (1059)
Tephritidae	<i>*Dirioxa pornia</i> (Waler, 1849)	Australasia Oceania	larva adult	host plant	decaying fruit nectar and/or pollen	(1059-1063) (42)
Tephritidae	<i>Trupanea amoena</i> (Frauenfeld, 1857)	Afrotropic Australasia Indomalaya Palearctic	larva adult	host plant	plant leaves nectar and/or pollen	(1064) (71)
Ulidiidae	<i>Physiphora clausa</i> (Macquart, 1843)	Afrotropic Australasia Indomalaya Nearctic Neotropics Oceania	larva	manure/faeces	manure/faeces	(1065-1067)
			adult		nectar and/or pollen	(184)

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