Data table 1: Table of 240 crop-visiting adult Diptera species and their larval diets and habitats as well as biogeographical regions the species are found

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

Calliphoridae	*Calliphora quadrimaculata* Swederus, 1787	Australasia	larva	manure/faeces	manure/faeces	(84)
			adult		nectar and/or pollen	(34-37)
Calliphoridae	**Calliphora stygia* (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	**Calliphora vicina 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	**Calliphora vomitoria* (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	**Chrysomya albiceps* (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	**Chrysomya bezziana* 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	*Chrysomya incisuralis* Macquart, 1851	Australasia	larva	carrion	carrion	(154)
			adult		nectar and/or pollen	(83)
Calliphoridae	**Chrysomya megacephala* (Fabricius, 1794)	Afrotropic Australasia Indomalaya Nearctic Neotropics	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	**Chrysomya pinguis* Walker, 1858	Indomalaya	larva	carrion	animal protein semisynthetic animal protein carrion	(197) (198) (199-203)
			adult		nectar and/or pollen	(38)
Calliphoridae	**Chrysomya regalis* (Robineau-Desvoidy, 1830)	Afrotropic Indomalaya	larva	carrion	animal protein	(204-208)

			adult		nectar and/or pollen	(209)
Calliphoridae	**Chrysomya rufifacies* (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	**Chrysomya saffranea* Bigot, 1877	Australasia Indomalaya	larva	carrion	animal protein carrion	(78, 162) (78, 213, 214)
			adult		nectar and/or pollen	(184)
Calliphoridae	**Chrysomya varipes* (Macquart, 1851)	Australasia Indomalaya Oceania	larva	carrion	animal protein carrion	(78, 215-219) (78, 213, 220, 221)
			adult		nectar and/or pollen	(83)
Calliphoridae	**Lucilia ampullacea* (Villeneuve, 1922)	Palearctic Indomalaya	larva	carrion host animal	animal protein living animal tissue	(222-232) (233)
			adult		nectar and/or pollen	(42)
Calliphoridae	**Lucilia caesar* (Linnaeus, 1758)	Palearctic	larva	carrion	carrion food waste	(234) (235)
			adult		nectar and/or pollen	(18, 123, 236-238)
Calliphoridae	*Lucilia papuensis* Macquart, 1843	Australasia Indomalaya	larva	carrion	carrion	(239)
			adult		nectar and/or pollen	(38)
Calliphoridae	**Lucilia sericata* (Meigen, 1826)	Nearctic Neotropics Palearctic	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	**Phormia regina* (Meigen, 1826)	Nearctic Oceania Palearctic	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	*Pollenia hungarica* Rognes, 1987	Palearctic	larva	host invertebrate	living invertebrate tissue	(292, 293)
			adult		nectar and/or pollen	(2)
Calliphoridae	*Pollenia pseudorudis* Rognes, 1985	Australasia Indomalaya Nearctic Palearctic	larva	host invertebrate	living invertebrate tissue	(294)
			adult		nectar and/or pollen	(34-36)
Calliphoridae	**Pollenia rudis* (Fabricius, 1794)	Australasia Nearctic Oceania Palearctic	larva	host invertebrate	living invertebrate tissue	(292, 295-300)
			adult		nectar and/or pollen	(3)
Calliphoridae	*Protocalliphora azurea* (Fallén, 1817)	Palearctic	larva	host nest	living animal tissue	(301-319)
			adult		nectar and/or pollen	(71)
Calliphoridae	*Xenocalliphora hortona* (Walker, 1849)	Australasia	larva	carrion host animal	carrion living animal tissue	(320) (320)
			adult		nectar and/or pollen	(34-37)
Ceciomyiidae	*Clinodiplosis ultracrepidata* Gagné 2018	Nearctic	larva	host flower	fungi/yeasts	(321)

			adult		nectar and/or pollen	(321)
Ceratopogonidae	*Culicoides glabellus* Wirth & Blanton, 1956	Neotropics	larva	decaying fruit decaying plant material	decaying fruit decaying plant material	(322) (322)
			adult		nectar and/or pollen blood for female oogenesis	(323) (324)
Ceratopogonidae	*Culicoides paraensis* (Goeldi, 1905)	Nearctic Neotropics	larva	decaying fruit detritus	decaying fruit detritus	(325) (326)
			adult		nectar and/or pollen blood for female oogenesis	(322) (324, 327-332)
Ceratopogonidae	*Dasyhelea borgmeieri* Wirth & Waugh, 1976	Unknown	larva	detritus	detritus	(326)
			adult		nectar and/or pollen	(323)
Ceratopogonidae	*Dasyhelea cacaoi* Wirth & Waugh, 1976	Unknown	larva	decaying plant material	decaying plant material	(333)
			adult		nectar and/or pollen	(334)
Ceratopogonidae	*Dasyhelea soriai* Wirth & Waugh, 1976	Unknown	larva	decaying plant material	decaying plant material	(333, 335)
			adult		nectar and/or pollen	(334)
Ceratopogonidae	*Dasyhelea williamsi* Wirth & Waugh, 1976	Unknown	larva	decaying plant material	decaying plant material	(333)
			adult		nectar and/or pollen	(334)
Ceratopogonidae	*Dasyhelea winderi* Wirth & Waugh, 1976	Unknown	larva	decaying plant material	decaying plant material	(333)
			adult		nectar and/or pollen	(334)
Ceratopogonidae	*Forcipomyia bromeliae* Saunders, 1956	Neotropics	larva	decaying fruit decaying plant material	decaying fruit decaying plant material	(322) (322)
			adult		nectar and/or pollen	(323)
Ceratopogonidae	*Forcipomyia cinctipes* (Coquillett, 1905)	Nearctic	larva	decaying plant material leaf litter	decaying plant material leaf litter	(334, 335) (334)
			adult		nectar and/or pollen	(323)
Ceratopogonidae	*Forcipomyia fuliginosa* (Meigen, 1818)	Afrotropic Australasia Nearctic Neotropics Palearctic	larva	host invertebrate	living invertebrate tissue	(336)
			adult		nectar and/or pollen	(322)
Ceratopogonidae	*Forcipomyia genualis* (Loew, 1866)	Nearctic Neotropics	larva	decaying plant material	decaying plant material	(334, 337)
			adult		nectar and/or pollen	(334)
Ceratopogonidae	*Forcipomyia harpegonata* Wirth & Soria, 1975	Unknown	larva	decaying fruit decaying plant material	decaying fruit decaying plant material	(322) (322, 338)
			adult		nectar and/or pollen	(322, 334, 338-340)
Ceratopogonidae	*Forcipomyia jipajapae* Wirth, 1970	Neotropics	larva	decaying fruit decaying plant material	decaying fruit decaying plant material	(322) (322)
			adult		nectar and/or pollen	(322, 341)
Ceratopogonidae	*Forcipomyia lesliei* Wirth, 1974	Neotropics	larva	decaying fruit decaying plant material	decaying fruit decaying plant material	(322) (322)
			adult		nectar and/or pollen	(322, 339)
Ceratopogonidae	*Forcipomyia quasiingrami* Macfie, 1939	Nearctic Neotropics	larva	decaying fruit decaying plant material	decaying fruit decaying plant material	(322) (322)
			adult		nectar and/or pollen	(322)
Ceratopogonidae	*Forcipomyia quatei* Wirth, 1952	Nearctic Neotropics	larva	decaying plant material leaf litter	decaying plant material leaf litter	(334) (334)
			adult		nectar and/or pollen	(334)
Ceratopogonidae	*Forcipomyia spatulifera* 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	*Forcipomyia squamipennis* Ingram & Macfie, 1924	Afrotropic	larva	decaying plant material	decaying plant material	(342)
			adult		nectar and/or pollen	(342)
Ceratopogonidae	*Forcipomyia youngi* Wirth 1982	Unknown	larva	decaying plant material leaf litter	decaying plant material leaf litter	(334) (334)
			adult		nectar and/or pollen	(334)

Drosophilidae	**Drosophila acutilabella* Stalker, 1953	Nearctic Neotropics	larva		predominately fruit predominately manure	(343) (344)
			adult		nectar and/or pollen	(321)
Drosophilidae	**Drosophila melanogaster* 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	**Scaptomyza pallida* (Zetterstedt, 1847)	Nearctic Oceania Palearctic	larva	decaying plant material	decaying plant material	(380-382)
			adult		nectar and/or pollen	(2)
Drosophilidae	**Zaprionus indianus* 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)
Ephydridae	*Hydrellia griseola* (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	*Fannia canicularis* (Linnaeus, 1761)	Afrotropic Antarctic Australasia Indomalaya Nearctic Neotropics Oceania Palearctic	larva	carrion decaying organic material host animal manure/faeces	carrion 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	**Desmometopa m-nigrum* (Zetterstedt, 1848)	Afrotropic Australasia Indomalaya Nearctic Neotropics Oceania Palearctic	larva		dead insects decaying organic material	(398) (399)
			adult		nectar and/or pollen	(2)
Muscidae	**Atherigona orientalis (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	*Atherigona varia Meigen, 1826*	Palearctic	larva	host plant	plant leaves seedlings	(408) (409)
			adult		nectar and/or pollen	(117)
Muscidae	**Coenosia tigrina* (Fabricius, 1775)	Nearctic Palearctic	larva		living invertebrate tissue	(410, 411)
			adult		nectar and/or pollen other dipteran adults	(3) (410, 412-414)

Muscidae	**Haematobia irritans* (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	*Hydrotaea rostrata* (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	**Mesembrina meridiana* (Linnaeus, 1758)	Palearctic	larva		manure/faeces	(442)
			adult		nectar and/or pollen	(443)
Muscidae	**Musca autumnalis* De Geer, 1776	Nearctic Palearctic	larva	manure/faeces	manure/faeces	(429, 430, 444-451)
			adult		nectar and/or pollen blood bodily fluids (not blood)	(237) (448) (448, 452)
Muscidae	*Musca conducens* Walker, 1859	Indomalaya Palearctic	larva	food waste manure/faeces	food waste manure/faeces	(453) (454)
			adult		nectar and/or pollen blood	(455) (456-460)
Muscidae	*Musca curviforceps* Sacca & Rivosecchi, 1956	Afrotropic	larva	host animal	living animal tissue	(461, 462)
			adult		nectar and/or pollen	(463)
Muscidae	**Musca domestica* Linnaeus, 1758	Afrotropic Antarctic Australasia Indomalaya Nearctic Neotropic Oceania Palearctic	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)
			adult		nectar and/or pollen blood decaying fruit	(34, 83, 117, 183, 184, 186, 188, 212, 262, 478-494) (465) (474)
Muscidae	**Musca hervei* Villeneuve, 1922	Indomalaya Oceania Palearctic	larva		manure/faeces	(495)
			adult		nectar and/or pollen	(38)
Muscidae	**Muscina levida* (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	**Muscina stabulans* (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	**Neomyia cornicina* (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	*Neomyia limbata* (Villeneuve, 1916)	Afrotropic	larva	manure/faeces	manure/faeces	(521)
			adult		nectar and/or pollen	(485)
Muscidae	*Pyrellia tasmaniae* Macquart, 1846	Australasia	larva	manure/faeces	manure/faeces	(522)
			adult		nectar and/or pollen	(83)
Opomyzidae	**Opomyza germinationis* (Linnaeus, 1758)	Nearctic Palearctic	larva		cereals (crops)	(523)
			adult		nectar and/or pollen	(3)
Rhiniidae	*Stomorhina discolor* (Fabricius, 1794)	Australasia Indomalaya Oceania	larva	hymenopteran nest	unclear	(524)
			adult		nectar and/or pollen	(186, 525, 526)

Rhiniidae	*Stomorhina lunata* (Fabricius, 1805)	Indomalaya Palearctic	larva	hymenopteran nest	insect eggs unclear	(300, 527) (300)
			adult		nectar and/or pollen	(2, 528)
Rhinophoridae	*Stevenia deceptoria* (Loew, 1847)	Palearctic	larva	host invertebrate	living invertebrate tissue	(529)
			adult		nectar and/or pollen	(261)
Rhinophoridae	*Tricogena rubricosa* (Meigen, 1824)	Palearctic	larva	host invertebrate	living invertebrate tissue	(530)
			adult		nectar and/or pollen	(519)
Sarcophagidae	*Oxysarcodexia paulistanensis* (Mattos, 1919)	Neotropics	larva	carrion	carrion	(531)
			adult		nectar and/or pollen	(261)
Sarcophagidae	*Oxysarcodexia varia* (Walker, 1836)	Australasia Neotropics Oceania	larva	carrion manure/faeces	carrion unclear	(532) (533)
			adult		nectar and/or pollen	(34-37, 113, 261)
Sarcophagidae	*Sarcophaga africa* (Wiedemann, 1824)	Afrotropic Australasia Oceania	larva	carrion host animal	carrion living animal tissue	(534) (535, 536)
			adult		nectar and/or pollen	(485)
Sarcophagidae	**Sarcophaga albiceps* (Meigen, 1826)	Australiasia Indomalaya Oceania Palearctic	larva	manure/faeces	animal protein manure/faeces	(201, 223, 537) (538)
			adult		nectar and/or pollen	(42)
Sarcophagidae	**Sarcophaga carnaria* (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	**Sarcophaga melanura* (Meigen, 1826)	Nearctic Palearctic	larva		animal protein	(223)
			adult		nectar and/or pollen	(42)
Sarcophagidae	**Sarcophaga peregrina* (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	*Sarcophaga schuetzei* Kramer, 1909	Palearctic	larva	host invertebrate	living invertebrate tissue	(554)
			adult		nectar and/or pollen	(455)
Sarcophagidae	**Sarcophaga septentrionalis* (Rohdendorf, 1937)	Palearctic	larva	host animal	animal protein living animal tissue	(555-557) (558, 559)
			adult		nectar and/or pollen	(42)
Sarcophagidae	**Sarcophaga similis* Meade, 1876	Palearctic	larva	carrion host animal	animal protein predominately animal protein carrion living animal tissue	(223, 560-566) (567, 568) (569) (570)
			adult		nectar and/or pollen animal protein for female oogenesis	(38) (564)
Sarcophagidae	**Tricharaea occidua* (Fabricius, 1794)	Nearctic Neotropics	larva	carrion manure/faeces	carrion manure/faeces	(571) (533, 572-584)
			adult		nectar and/or pollen	(261)
Scathophagidae	**Scathophaga stercoraria* (Linnaeus, 1758)	Indomalaya Nearctic Neotropics Palearctic	larva		manure/faeces	(585-594)
			adult		nectar and/or pollen other dipteran adults	(2, 3, 443) (590, 591, 593)
Sciomyzidae	*Sepedon aenescens* (Wiedemann, 1830)	Indomalaya Oceania Palearctic	larva	host animal	living animal tissue	(595-597)
			adult		nectar and/or pollen	(42)
Sepsidae	**Lasionemopoda hirsuta* (Meijere, 1906)	Australasia	larva		manure/faeces	(598)
			adult		nectar and/or pollen	(113)
Sepsidae	**Sepsis dissimilis* Brunetti, 1909	Afrotropic	larva		manure/faeces	(599)

		Australasia Indomalaya	adult		nectar and/or pollen	(83)
Simuliidae	*Simulium venustum* Say, 1823	Nearctic Palearctic	larva	detritus	algae	(600)
			adult		nectar and/or pollen blood	(601) (602, 603)
Stratiomyidae	*Chloromyia formosa* (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	**Hermetia illucens* (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	*Nemotelus nigrinus* (Fallén, 1817)	Nearctic Palearctic	larva	freshwater habitats sedimentation basins	decaying organic material	(604)
			adult		nectar and/or pollen	(42)
Stratiomyidae	*Stratiomya japonica* (Wulp, 1885)	Palearctic	larva	hydrothermal springs	detritus	(629)
			adult			(42)
Syrphidae	*Allograpta calopa* (Loew, 1858)	Afrotropic	larva	host plant	aphids	(630)
			adult		nectar and/or pollen	(492, 630)
Syrphidae	*Allograpta dorsalis* Miller, 1924	Australasia	larva	host plant	aphids small, soft-bodied insects	Expert opinion
			adult		nectar and/or pollen	(56)
Syrphidae	**Allograpta exotica* (Wiedemann, 1830)	Nearctic Neotropics Oceania	larva	host plant	aphids	(631-640)
			adult		nectar and/or pollen	(261, 627, 628, 639, 641)
Syrphidae	**Allograpta javana* (Wiedemann, 1824)	Australasia Indomalaya Palearctic	larva	host plant	aphids small hemipterans	(642, 643) (644, 645)
			adult		nectar and/or pollen	(42)
Syrphidae	**Allograpta obliqua (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	**Betasyrphus serarius* (Wiedemann, 1930)	Australasia Indomalaya	larva	host plant	aphids	(652-654)
			adult		nectar and/or pollen	(42, 655)
Syrphidae	**Blera fallax Linnaeus, 1758*	Palearctic	larva	tree hollows	detritus	(656-660)
			adult		nectar and/or pollen	(656, 661)
Syrphidae	*Cheilosia albitarsis* (Meigen, 1822)	Palearctic Nearctic	larva	decaying plant material	decaying roots	(662)
			adult			(42)
Syrphidae	*Cheilosia pagana* (Meigen, 1822)	Nearctic Palearctic	larva	decaying plant material	decaying plant material	(662)
			adult		nectar and/or pollen	(42)
Syrphidae	*Chrysotoxum arcuatum* (Linnaeus, 1758)	Palearctic	larva	host nest	hymenopteran brood	(663, 664)
			adult		nectar and/or pollen	(42)
Syrphidae	*Chrysotoxum festivum* (Linnaeus, 1758)	Palearctic	larva	host nest	aphids	(665)
			adult		nectar and/or pollen	(42, 655)
Syrphidae	*Chrysotoxum intermedium* Meigen, 1822	Palearctic	larva	host plant	aphids	(666, 667)
			adult		nectar and/or pollen	(668)
Syrphidae	*Copestylum marginatum* (Say, 1829)	Nearctic	larva	decaying plant material	decaying plant material	(669, 670)
			adult		nectar and/or pollen	(671)
Syrphidae	*Criorhina berberina* (Fabricius, 1805)	Palearctic	larva	decaying plant material	decaying plant material	(672)
			adult		nectar and/or pollen	(661)

Syrphidae	*Dasysyrphus venustus* (Meigen, 1822)	Nearctic Palearctic	larva	host plant	aphids small hemipterans	(673) (673)
			adult		nectar and/or pollen	(42)
Syrphidae	*Dideopsis aegrota* (Fabricius, 1805)	Australasia Indomalaya	larva	host plant	aphids	(265, 674, 675)
			adult		nectar and/or pollen	(183)
Syrphidae	*Epistrophe aino* (Matsumura, 1917)	Palearctic	larva	host plant	aphids	(676)
			adult		nectar and/or pollen	(42)
Syrphidae	**Epistrophe eligans* (Harris, 1780)	Palearctic	larva	host plant	aphids	(677-680)
			adult		nectar and/or pollen	(681, 682)
Syrphidae	*Epistrophe grossulariae* (Meigen, 1822)	Nearctic Palearctic	larva	host plant	aphids	(683)
			adult		nectar and/or pollen	(183)
Syrphidae	*Epistrophe nitidicollis* (Meigen, 1822)	Palearctic	larva	host plant	aphids	(684)
			adult		nectar and/or pollen	(42)
Syrphidae	**Episyrphus balteatus* (De Geer, 1776)	Palearctic	larva	host plant	aphids drone honeybee brood powder	(685-708) (696)
			adult		nectar and/or pollen	(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	**Eristalinus aeneus* (Scopoli, 1763)	Australasia Nearctic Oceania Palearctic	larva		semisynthetic vegetable protein manure/faeces	(736-739) (736)
			adult		nectar and/or pollen	(2, 212, 378, 478, 480, 668, 682, 712, 716, 734, 740-742)
Syrphidae	*Eristalinus arvorum* (Fabricius, 1787)	Australasia Indomalaya Oceania Palearctic	larva	carrion moist soil	carrion decaying organic material	(743) (744)
			adult		nectar and/or pollen orchid hair tufts	(66, 183, 478, 710, 716, 723) (745)
Syrphidae	*Eristalinus megacephalus* (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	**Eristalinus punctulatus* (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	*Eristalinus sepulchralis* (Linnaeus, 1758)	Indomalaya Palearctic	larva	hydrothermal springs	microorganisms	(752)
			adult		nectar and/or pollen	(42)
Syrphidae	*Eristalinus taeniops* (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	*Eristalinus tarsalis* (Macquart, 1855)	Indomalaya Palearctic	larva	manure/faeces	manure/faeces	(755)
			adult		nectar and/or pollen	(38, 726, 755)
Syrphidae	**Eristalis arbustorum* (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	*Eristalis pertinax* (Scopoli, 1763)	Palearctic	larva	effluent moist soil	decaying organic material	(765)
			adult		nectar and/or pollen	(186, 237, 443, 681, 762-764)
Syrphidae	**Eristalis tenax* (Linnaeus, 1758)	Afrotropic Australasia Indomalaya	larva	effluent	semisynthetic vegetable protein decaying organic material manure/faeces	(737-739) (750) (766, 767)

		Nearctic Neotropics Oceania Palearctic	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	*Eumerus funeralis* 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	*Eumerus obliquus* (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	*Eumerus sogdianus* Stackelberg, 1952	Palearctic	larva	host plant	plant stems	(790)
			adult		nectar and/or pollen	(42)
Syrphidae	*Eumerus strigatus* (Fallén, 1817)	Australasia Nearctic Palearctic	larva	decaying plant material soil	decaying plant material plant roots	(785, 791-794) (791)
			adult		nectar and/or pollen	(237, 728, 760)
Syrphidae	**Eupeodes americanus* (Wiedemann, 1830)	Nearctic Oceania	larva	host plant	aphids other dipteran larvae	(631, 795-803) (802)
			adult		nectar and/or pollen	(671, 781, 804)
Syrphidae	*Eupeodes confrater* (Wiedemann, 1830)	Australasia Indomalaya	larva	host plant	aphids	(805)
			adult		nectar and/or pollen	(709)
Syrphidae	**Eupeodes corollae* (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	*Eupeodes lapponicus (Zetterstedt, 1838)*	Nearctic	larva	Host plant	aphids	(800)
			adult		nectar and/or pollen	(42)
Syrphidae	*Eupeodes latifasciatus* (Macquart, 1829)	Nearctic	larva	host plant	aphids	(843-847)
			adult		nectar and/or pollen	(727, 760, 848)
Syrphidae	**Eupeodes luniger* (Meigen, 1822)	Nearctic Palearctic	larva	host plant	aphids	(849-851)
			adult		nectar and/or pollen	(237, 728)
Syrphidae	**Eupeodes nitens* (Zetterstedt, 1843)	Palearctic	larva	host plant	aphids	(843, 852-856)
			adult		nectar and/or pollen	(760, 772)
Syrphidae	*Eupeodes volucris* Osten Sacken, 1877	Nearctic Oceania	larva	host plant	aphids	(631, 797, 857)
			adult		nectar and/or pollen	(671)
Syrphidae	*Helophilus hochstetteri* Nowicki, 1875	Australasia	larva	freshwater habitats	decaying organic material	(858)
			adult		nectar and/or pollen	(34-37, 56, 113, 768)
Syrphidae	*Helophilus pendulus* (Linnaeus, 1758)	Palearctic	larva	freshwater habitats mud pool	decaying organic material unclear	(859) (860)
			adult		nectar and/or pollen	(3, 861, 862)
Syrphidae	*Helophilus seelandicus* (Gmelin, 1790)	Australasia	larva	freshwater habitats	decaying organic material	(858)
			adult		nectar and/or pollen	(34, 260)
Syrphidae	*Helophilus trilineatus* (Fabiricius, 1775)	Australasia	larva	freshwater habitats	decaying organic material	Expert opinion unpublished findings
			adult		nectar and/or pollen	(36)
Syrphidae	**Ischiodon aegyptius* (Wiedemann, 1830)	Afrotropic Palearctic	larva	host plant	aphids	(863-869)
			adult		nectar and/or pollen	(407, 740, 754, 789, 870)
Syrphidae	**Ischiodon scutellaris* (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	*Lejogaster metallina* (Fabricius, 1777)	Palearctic	larva	moist soil	decaying organic material	(878)
			adult		nectar and/or pollen	(237, 760)
Syrphidae	**Mallota florea* (Linnaeus, 1758)	Palearctic	larva	tree hollows	decaying plant material detritus	(879) (658, 879)
			adult		nectar and/or pollen	(2, 237, 605, 760)
Syrphidae	*Melangyna novaezelandiae* (Macquart, 1855)	Australasia	larva	host plant	aphids	(880)
			adult		nectar and/or pollen	(34-37, 55-57, 113, 768, 881, 882)
Syrphidae	**Melangyna viridiceps* (Macquart, 1847)	Australasia	larva	host plant	aphids small lepidopteran larvae	(883-885) (885)
			adult		nectar and/or pollen	(83, 886-888)
Syrphidae	**Melanostoma fasciatum* (Macquart, 1850)	Australasia	larva	host plant	aphids small hemipterans (not aphids)	(889) (890, 891)
			adult		nectar and/or pollen	(34-37, 55, 57, 113, 260, 768, 780, 892-894)
Syrphidae	**Melanostoma mellinum* (Linnaeus, 1758)	Nearctic Palearctic	larva	host plant	aphids	(895-897)
			adult		nectar and/or pollen hemipteran honeydew	(3, 237, 528, 651, 681, 728, 786, 898) (898)
Syrphidae	*Melanostoma orientale* (Wiedemann, 1824)	Indomalaya	larva	host plant	aphids	(899)
			adult		nectar and/or pollen	(494, 724, 900, 901)
Syrphidae	**Melanostoma scalare* (Fabricius, 1794)	Palearctic	larva	host plant	aphids	(895, 896, 902)
			adult		nectar and/or pollen	(3, 726)
Syrphidae	*Melanostoma univittatum* (Wiedemann, 1824)	Palearctic Indomalaya	larva	host plant	aphids small, soft-bodied insects	Expert opinion
			adult		nectar and/or pollen	(723, 727, 729)
Syrphidae	*Meliscaeva auricollis* (Meigen, 1822)	Afrotropic Palearctic	larva	host plant	aphids	(903)
			adult		nectar and/or pollen	(2, 728)
Syrphidae	*Meliscaeva cinctella* (Zetterstedt, 1843)	Nearctic	larva	host plant	aphids	(895, 904)
			adult		nectar and/or pollen	(42)
Syrphidae	**Merodon equestris* (Fabricius, 1794)	Nearctic Palearctic	larva	host plant	plant bulbs	(905-910)
			adult		nectar and/or pollen	(42)
Syrphidae	*Meromacrus acutus* (Fabricius, 1805)	Nearctic Neotropics	larva	decaying plant material	decaying plant material	(911)
			adult		nectar and/or pollen	(779)
Syrphidae	*Mesembrius bengalensis* (Wiedemann, 1819)	Australasia Indomalaya	larva	tree hollows	detritus	(912)
			adult		nectar and/or pollen	(184, 480, 716, 754)
Syrphidae	*Milesia virginiensis* (Drury, 1773)	Nearctic	larva	tree hollows	detritus	(913)
			adult		nectar and/or pollen	(779)
Syrphidae	*Ocyptamus gastrostactus* (Wiedemann, 1830)	Nearctic Neotropics	larva	host plant	aphids	(632, 634, 638)
			adult		nectar and/or pollen	(914)
Syrphidae	**Ornidia obesa* (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	*Palpada furcata* (Wiedemann, 1819)	Nearctic Neotropics	larva	decaying plant material	decaying plant material	(911)
			adult		nectar and/or pollen	(627, 628, 779, 914)
Syrphidae	**Paragus borbonicus* Macquart, 1842	Afrotropic	larva		aphids	(925)
			adult		nectar and/or pollen	(407)
Syrphidae	*Paragus longiventris* Loew, 1858	Afrotropic	larva	host plant	aphids	(630)
			adult		nectar and/or pollen	(789)
Syrphidae	*Paragus quadrifasciatus* Meigen, 1822	Palearctic	larva	host plant	aphids	(676)
			adult		nectar and/or pollen	(38)
Syrphidae	*Paragus tibialis* (Fallén, 1817)	Palearctic	larva	host plant	aphids	(926)
			adult		nectar and/or pollen	(782)

Syrphidae	*Parasyrphus annulatus* (Zetterstedt, 1838)	Palearctic	larva	host plant	aphids	(927)
			adult		nectar and/or pollen	(42)
Syrphidae	**Parasyrphus nigritarsis* (Zetterstedt, 1843)	Nearctic	larva	host plant	chrysomelid beetle larvae	(928-931)
			adult		nectar and/or pollen	(42)
Syrphidae	*Parasyrphus punctulatus* (Verrall, 1873)	Palearctic	larva	host plant	aphids	(932)
			adult		nectar and/or pollen	(42)
Syrphidae	*Pipiza noctiluca* (Linnaeus, 1758)	Palearctic	larva	host plant	aphids	(843)
			adult		nectar and/or pollen	(42)
Syrphidae	**Pipiza quadrimaculata* (Panzer, 1802)	Nearctic	larva		aphids	(933)
			adult		nectar and/or pollen	(42)
Syrphidae	*Platycheirus albimanus* (Fabricius, 1781)	Palearctic Nearctic	larva	host plant	aphids	(843, 895)
			adult		nectar and/or pollen	(42, 519)
Syrphidae	**Platycheirus angustatus* (Zetterstedt, 1843)	Nearctic	larva		aphids	(934)
			adult		nectar and/or pollen	(42)
Syrphidae	*Platycheirus clypeatus* (Meigen, 1822)	Nearctic Palearctic	larva	host plant	aphids	(896)
			adult		nectar and/or pollen	(3)
Syrphidae	**Platycheirus fulviventris* (Macquart, 1829)	Palearctic	larva	host plant	aphids	(896)
			adult		nectar and/or pollen	(42)
Syrphidae	*Platycheirus manicatus* (Meigen, 1822)	Palearctic	larva	host plant	aphids	(935, 936)
			adult		nectar and/or pollen	(3)
Syrphidae	*Platycheirus peltatus* (Meigen, 1822)	Palearctic	larva	host plant	aphids	(935)
			adult		nectar and/or pollen	(3, 237)
Syrphidae	*Platycheirus scambus* (Staeger, 1843)	Nearctic	larva	host plant	aphids	(934)
			adult		nectar and/or pollen	(42)
Syrphidae	*Platycheirus scutatus* (Meigen, 1822)	Nearctic	larva	host plant	aphids	(677, 937)
			adult		nectar and/or pollen	(682)
Syrphidae	**Platycheirus tarsalis* (Schummel, 1836)	Palearctic	larva		aphids	(933)
			adult		nectar and/or pollen	(42)
Syrphidae	*Portevinia maculata* (Fallén, 1817)	Palearctic	larva	host plant	plant bulbs	(938)
			adult		nectar and/or pollen	(42)
Syrphidae	**Pseudodoros clavatus* (Fabricius, 1794)	Nearctic	larva	host plant	aphids	(632, 638, 646, 939-943)
			adult		nectar and/or pollen	(627, 628, 914)
Syrphidae	*Scaeva latimaculata* (Brunetti, 1923)	Indomalaya Palearctic	larva	host plant	aphids	(871, 944)
			adult		nectar and/or pollen	(716)
Syrphidae	**Scaeva pyrastri* (Linnaeus, 1758)	Afrotropic Nearctic Palearctic	larva	host plant	aphids	(631, 680, 833, 898, 945, 946)
			adult		nectar and/or pollen	(3, 18, 237, 710, 723, 727, 728)
Syrphidae	**Scaeva selenitica* (Meigen, 1822)	Nearctic Palearctic	larva		aphids	(945, 947)
			adult		nectar and/or pollen	(728)
Syrphidae	*Senaspis haemorrhoa* Gerstaecker, 1871	Afrotropic	larva	tree hollows	detritus	(912)
			adult		nectar and/or pollen	(948)
Syrphidae	*Simosyrphus grandicornis* (Macquart, 1842)	Australasia Oceania	larva	host plant	aphids	(885, 945)
					small lepidopteran larvae	(885)
			adult		nectar and/or pollen	(83, 712, 888)
Syrphidae	*Sphaerophoria bengalensis* Macquart, 1842	Indomalaya Palearctic	larva	host plant	aphids	(899, 949, 950)
			adult		nectar and/or pollen	(716)
Syrphidae	*Sphaerophoria indiana* Bigot, 1884	Indomalaya Palearctic	larva	host plant	aphids	(871, 951)
			adult		nectar and/or pollen	(716, 723, 729, 731, 952)
Syrphidae	*Sphaerophoria macrogaster* (Thompson, 1869)	Australasia	larva	host plant	aphids	(953)
			adult		nectar and/or pollen	(627, 953)
Syrphidae	*Sphaerophoria philanthus* Meigen, 1822	Nearctic	larva	host plant	aphids	(954)
			adult		nectar and/or pollen	(42)
Syrphidae	**Sphaerophoria rueppellii* (Wiedemann, 1830)	Afrotropic	larva	host plant	aphids	(830, 838, 841, 955-963)
					other dipteran larvae	(964)
					small hemipterans (not aphids)	(955)

			adult		nectar and/or pollen hemipteran honeydew	(528, 668, 826, 830, 838, 956, 957, 959, 965, 966) (967)
Syrphidae	**Sphaerophoria scripta* (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	**Sphaerophoria taeniata* (Meigen, 1822)	Palearctic	larva		aphids	(933)
			adult		nectar and/or pollen	(42)
Syrphidae	**Sphiximorpha subsessilis* (Illiger, 1807)	Palearctic	larva		decaying organic material	(974)
			adult		nectar and/or pollen	(42)
Syrphidae	*Syritta flaviventris* Macquart, 1842	Afrotropic Nearctic Neotropic Palearctic	larva	decaying organic material decaying plant material	decaying organic material decaying plant material	(975) (784, 976)
			adult		nectar and/or pollen	(528)
Syrphidae	**Syritta pipiens* (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	**Syrphus ribesii* (Linnaeus, 1758)	Nearctic Neotropic 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	*Syrphus torvus* Osten Sacken, 1875	Nearctic Palearctic	larva	host plant	aphids	(676, 800)
			adult		nectar and/or pollen	(728, 988, 989)
Syrphidae	*Syrphus vitripennis* Meigen, 1822	Nearctic Palearctic	larva	host plant	aphids	(653, 680, 990-992)
			adult		nectar and/or pollen	(682, 714, 728, 786, 993)
Syrphidae	*Toxomerus floralis* (Fabricius, 1798)	Nearctic Neotropic	larva	host plant	pollen	(994)
			adult		nectar and/or pollen	(914)
Syrphidae	**Toxomerus marginatus* (Say, 1823)	Nearctic Oceania	larva	host plant	aphids	(631, 646, 797, 995, 996)
			adult		nectar and/or pollen	(628, 671, 997, 998)
Syrphidae	*Toxomerus politus* (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	*Trichopsomyia flavitarsis* (Meigen, 1822)	Palearctic	larva	host plant	small hemipterans (not aphids)	(1003)
			adult		nectar and/or pollen	(605)
Syrphidae	*Tropidia scita* (Harris, 1780)	Palearctic	larva	decaying plant material	decaying plant material	(1004)
			adult		nectar and/or pollen	(42)
Syrphidae	*Volucella bombylans* (Linnaeus, 1758)	Nearctic Palearctic	larva	hymenopteran nest	hymenopteran brood	(1005)
			adult		nectar and/or pollen	(42)
Syrphidae	*Volucella pellucens* (Linnaeus, 1758)	Indomalaya Palearctic	larva	hymenopteran nest	hymenopteran brood	(1006)
			adult		nectar and/or pollen	(237)
Syrphidae	*Volucella zonaria* (Poda, 1761)	Palearctic	larva	hymenopteran nest	hymenopteran brood	(1007)
			adult		nectar and/or pollen	(1008)
Syrphidae	*Xanthandrus comtus* (Harris, 1780)	Palearctic	larva	host plant	small lepidopteran larvae	(1009)
			adult		nectar and/or pollen	(42)
Syrphidae	*Xylota segnis* Linnaeus, 1758	Nearctic	larva	carrion compost	carrion decaying organic material manure/faeces	(1010) (1011) (1011)

			adult		nectar and/or pollen	(42)
Tachinidae	*Aplomya confinis* (Fallén, 1820)	Palearctic	larva	host invertebrate	living invertebrate tissue	(1012)
			adult		nectar and/or pollen	(71)
Tachinidae	*Belvosia bicincta Robineau-Desvoidy, 1830*	Nearctic Neotropic	larva	host invertebrate	living invertebrate tissue	(1013)
			adult		nectar and/or pollen	(491)
Tachinidae	**Cylindromyia bicolor* (Olivier, 1811)	Palearctic	larva	host invertebrate	living invertebrate tissue	(1014)
			adult		nectar and/or pollen	(71)
Tachinidae	*Elomya lateralis* (Meigen, 1824)	Palearctic	larva	host invertebrate	living invertebrate tissue	(1015, 1016)
			adult		nectar and/or pollen	(71)
Tachinidae	**Exorista sorbillans* (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	*Nowickia ferox* (Panzer, 1806)	Palearctic	larva	host invertebrate	living invertebrate tissue	(1034)
			adult		nectar and/or pollen	(71)
Tachinidae	*Pales marginata* (Hutton, 1881)	Australasia	larva	host invertebrate	living invertebrate tissue	(1035)
			adult		nectar and/or pollen	(34-36)
Tachinidae	*Pales usitata* (Hutton, 1901)	Australasia	larva	host invertebrate	living invertebrate tissue	(1036)
			adult		nectar and/or pollen	(34, 36)
Tachinidae	*Peleteria rubescens* (Robineau-Desvoidy, 1830)	Palearctic	larva	host invertebrate	living invertebrate tissue	(1037)
			adult		nectar and/or pollen	(71)
Tachinidae	*Protohystricia alcis* (Walker, 1849)	Australasia	larva	host invertebrate	living invertebrate tissue	(1036)
			adult		nectar and/or pollen	(35)
Tachinidae	*Sericozenillia albipila* (Mesnil, 1957)	Palearctic	larva	host invertebrate	living invertebrate tissue	(1038)
			adult		nectar and/or pollen	(1039)
Tachinidae	*Siphona geniculata* (De Geer, 1776)	Nearctic	larva	host invertebrate	living invertebrate tissue	(1040)
			adult		nectar and/or pollen	(3)
Tephritidae	**Ceratitis capitata* (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	*Dioxyna sororcula* (Wiedemann, 1830)	Afrotropic Australasia Oceania Palearctic	larva	host plant	decaying fruit plant seeds	(1055) (1056)
			adult		nectar and/or pollen microorganisms fungi/yeasts	(948) (1057, 1058) (1059)
Tephritidae	**Dirioxa pornia* (Waler, 1849)	Australasia Oceania	larva	host plant	decaying fruit	(1059-1063)
			adult		nectar and/or pollen	(42)
Tephritidae	*Trupanea amoena* (Frauenfeld, 1857)	Afrotropic Australasia Indomalaya Palearctic	larva	host plant	plant leaves	(1064)
			adult		nectar and/or pollen	(71)
Ulidiidae	*Physiphora clausa* (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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