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## Host plants of the serpentine leafminer (*Liriomyza huidobrensis*)

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## Background

The serpentine leafminer (*Liriomyza huidobrensis*) is a high priority pest that rapidly spread around the world and caused significant economic damage. It is a small fly (family Agromyzidae) whose larvae feed internally on plant tissue, particularly on leaves. Feeding reduces yield and marketability of many common horticultural crops and ornamental plant species. It has a wide host range across at least 15 families (**Table 1**).

While host records for *L. huidobrensis* have been reviewed in previous studies (Weintraub et al. 2017), in order to facilitate trade and market access decisions, a thorough review was conducted as part of the Horticulture Innovation Australia funded Project MT16004 (R&E program for control, eradication and preparedness for vegetable leafminer), with a focus on evidence for lifecycle completion in the field. The results of this review, including commercial, ornamental and non-cultivated hosts of serpentine leafminer (*L. huidobrensis*), are presented in Table 2, Table 3 and Table 4 below.

*Liriomyza huidobrensis* is highly polyphagous and no guarantee can be made that these lists are exhaustive. Each record was scrutinized based on evidence provided showing completion of lifecycle within the field, and then included within the appropriate table. It is important to note that non-cultivated plants often serve as important reservoirs for *Liriomyza* pests (e.g. Schuster et al. 1991), and upon incursion into a new region, host ranges may expand to include native plant species. Moreover, host preferences may vary considerably across populations. For example, although chili (*Capsicum* spp.) is widely reported internationally as a favoured host of the closely related agromyzid *Liriomyza sativae*, the population of *L. sativae* which has established within the Torres Strait (IPPC 2017) has very rarely been observed to attack chili (despite it being an abundant garden host in the region) (Elia Pirtle pers. comm).

**Table 2** contains any records for which **comprehensive evidence of lifecycle completion in the field** has been provided within the scientific literature. Specifically, the following conditions were met:

- (1) Adults were reared from plant material infested with eggs or from larvae collected in the field; and
- (2) Emerging adults were subsequently identified via morphology or molecular diagnostics; and
- (3) Scientific names of hosts are reported

**Table 3** contains records for which **only partial evidence of lifecycle completion in the field** has been provided within the scientific literature. This includes all records where:

- (1) Adults were reared from field collected plant material infested with larvae, but no subsequent identification via morphology or molecular diagnostics was reported; or
- (2) Laboratory feeding and oviposition preference experiments were conducted that did not confirm lifecycle completion; or
- (3) Identification via morphology or molecular diagnostics was reported, but collection methods in the field were not reported. Lifecycle completion cannot be confirmed in these instances due to the potential use of non-specific collection methods (e.g. sticky traps or sweep nets); or
- (4) Laboratory cultures confirmed lifecycle completion, but evidence of lifecycle completion in the field was not provided; or
- (5) Only common names of plant were given, but the scientific name could be confidently inferred; or
- (6) The record reports presence of *L. huidobrensis* on imported material detected at the border.

**Table 4** contains all **unverified records**. This includes all records for which no evidence was shown for lifecycle completion and no evidence was shown for confident species identification, or evidence could not suitably be accessed for confirmation. We are not disputing the veracity of these records - we simply did not have enough information available to verify if these hosts support lifecycle completion in the field. This includes all records where:

- (1) Adults were collected by sweep netting the presumed host, but neither larval activity nor lifecycle completion was confirmed; or
- (2) A scientific name could not reliably be assumed from a reported common name; or
- (3) Collection and identification methodology were unclear or unreported; or
- (4) The record could not be accessed or suitably translated to confirm collection and identification methodology.

For all tables, scientific names in the table appear as they were originally cited. A number of these names are now recognised as synonyms, however for brevity, we are not reporting the currently accepted names for these taxa (refer to WorldFloraOnline.org, Australian Plant Census, or Catalogue of Life for current taxonomic decisions).

For all non-cultivated plants, and asterisk after the scientific name indicates that the Atlas of Living Australia reports this species present within Australia (Atlas of Living Australia 2020).

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**Table 1.** Number of host records for *L. huidobrensis* within plant families.

Only records with either comprehensive or partial evidence of lifecycle completion in the field are included (see Table 2 and Table 3). Multiple records of the same species are included. Thus, the number of records does not indicate total number of affected species within each family. *Liriomyza huidobrensis* is highly polyphagous and no guarantee can be made that this list is exhaustive.

Family	Number of records
Asteraceae	81
Brassicaceae	36
Fabaceae	32
Solanaceae	29
Amaranthaceae	27
Cucurbitaceae	20
Caryophyllaceae	13
Apiaceae	12
Amaryllidaceae	10
Malvaceae	7
Ranunculaceae	7
Poaceae	6
Convolvulaceae	5
Lamiaceae	5
Polygonaceae	5
Chenopodiaceae	4
Gentianaceae	4
Plantaginaceae	4
Plumbaginaceae	3
Tropaeolaceae	3
Violaceae	3
Alstroemeriaceae	2
Araceae	2
Araliaceae	2
Balsaminaceae	2
Basellaceae	2
Campanulaceae	2
Euphorbiaceae	2
Iridaceae	2
Liliaceae	2
Primulaceae	2
Verbenaceae	2
Alismataceae	1
Apocynaceae	1
Asparagaceae	1
Asphodelaceae	1
Calceolariaceae	1

Hydrangeaceae	1
Linaceae	1
Linderniaceae	1
Menispermaceae	1
Onagraceae	1
Onagroideae	1
Oxalidaceae	1
Papaveraceae	1
Polemoniaceae	1
Rosaceae	1
Scrophulariaceae	1

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**Table 2.** Commercial, ornamental and non-cultivated plants for which **comprehensive evidence of lifecycle completion in the field** for the serpentine leafminer (*Liriomyza huidobrensis*) has been provided within the scientific literature.

This includes all records where the following conditions were met:

- (1) Adults were reared from plant material infested with eggs or from larvae collected in the field; and
- (2) Emerging adults were subsequently identified via morphology or molecular diagnostics; and
- (3) Scientific names of hosts are reported

In addition, all records from Kenneth Spencer, the foremost authority on leafminer taxonomy, are included. Records for plants identified only to the genus level (sp. or spp.) that did not meet the above conditions are included only if there are other records for species within this genus that met both conditions. Records for specific varieties within a species that did not meet the above conditions are included only if there are other records confirming lifecycle completion for that same species that met both conditions. Scientific names in the table appear as they were originally cited. A number of these names are now recognised as synonyms, however for brevity, we are not reporting the currently accepted names for these taxa (refer to WorldFloraOnline.org, Australian Plant Census, or Catalogue of Life for current taxonomic decisions). For all non-cultivated plants, an asterisk after the scientific name indicates that the Atlas of Living Australia reports this species present within Australia (Atlas of Living Australia 2020). Additionally, many plants labelled as commercial and ornamental have escaped cultivation and naturalised in Australia. Records that report only partial confirmations of lifecycle completion are included in Table 3, while unverified records are included in Table 4. *Liriomyza huidobrensis* is highly polyphagous and no guarantee can be made that this list is exhaustive.

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial		<i>Beta</i> sp.		Amaranthaceae		Collins (1996)	1

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Beet; Chard; Beetroot	<i>Beta vulgaris</i>		Amaranthaceae	Nakamura et al. (2013); Rauf et al. (2000); Scheffer et al. (2001); Takano et al. (2008)	Andersen et al. (2008); Echevarria et al. (1994); He et al. (2002); (Koch and Waterhouse 2000); Korytkowski (2014); Korytkowski (1982); Ripa et al. (1995); Saunders et al. (1998); Spencer (1973); Weintraub et al. (2017); Wijesekara (2010); Kox et al. (2005)	18
commercial	Swisschard; Chard; Common beet	<i>Beta vulgaris</i>	<i>cicla</i>	Amaranthaceae	Hammad and Nemer (2000); Mujica and Kroschel (2011); Salvo and Valladares (2002)	He et al. (2001); He et al. (2002); Salvo and Valladares (1997); Valladares (1984); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011)	11
commercial	Beetroot	<i>Beta vulgaris</i>	<i>rapacea</i>	Amaranthaceae	Salvo and Valladares (2002)	Valladares (1984); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011)	6
commercial		<i>Beta vulgaris</i>	<i>rubra</i>	Amaranthaceae		Shiao and Wu (2000)	1
commercial	Sugarbeet	<i>Beta vulgaris</i>	<i>saccharifera</i>	Amaranthaceae		Hidalgo and Carballo (1991)	1
commercial	Beetroot	<i>Beta vulgaris</i>	<i>vulgaris</i>	Amaranthaceae	Mujica and Kroschel (2011)		1

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Spinach; Silverbeet	<i>Spinacia oleracea</i>		Amaranthaceae	Foba et al. (2015); Mujica and Kroschel (2011); Nakamura et al. (2013); Rauf et al. (2000)	Andersen et al. (2008); Bahlai et al. (2006); He et al. (2001); (Koch and Waterhouse 2000); Korytkowski (1982); Martin et al. (2005); Spencer (1973); Valladares et al. (1996); Kox et al. (2005)	13
commercial	Leek	<i>Allium ampeloprasum</i>		Amaryllidaceae	Rauf et al. (2000)	Hincapie et al. (1993)	2
commercial	Onion; Shallot	<i>Allium cepa</i>		Amaryllidaceae	Foba et al. (2015); Rauf et al. (2000)	Andersen et al. (2002); Andersen et al. (2008); He et al. (2001); Hidalgo and Carballo (1991); Hincapie et al. (1993); Korytkowski (2014); Korytkowski (1982); Kuhnke et al. (1998); Martin et al. (2005); Pang et al. (2006); Rauf et al. (2000); Spencer (1973); Ueno (2006); Verjel-Manzano and Mejia-Florez (2000); Weintraub et al. (2017); (Koch and Waterhouse 2000)	18
commercial	Scallion	<i>Allium cepa</i>	<i>aggregatum</i>	Amaryllidaceae	Mujica and Kroschel (2011)	Korytkowski (1982)	2
commercial		<i>Allium cepa</i>	<i>cepa</i>	Amaryllidaceae		Scheffer et al. (2006)	1

Host plants of the serpentine leafminer (*Liriomyza huidobrensis*)

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Japanese bunching onion; Scallion; Welsh onion	<i>Allium fistulosum</i>		Amaryllidaceae	Rauf et al. (2000)	He et al. (2001); Hidalgo and Carballo (1991); Pang et al. (2006); Shepard et al. (1998); Shiao and Wu (2000); Ueno (2006); Wei et al. (2000)	8
commercial	Garlic	<i>Allium sativum</i>		Amaryllidaceae	Rauf et al. (2000)	He et al. (2001); Hincapie et al. (1993); Pang et al. (2006); Saunders et al. (1998); Silva (1993); Wei et al. (2000)	7
commercial		<i>Allium</i> sp.		Amaryllidaceae	Scheffer et al. (2001)		1

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Celery	<i>Apium graveolens</i>		Apiaceae	Larrain and Munoz (1997); Rauf et al. (2000); Sivapragasam and Syed (1999)	Bahlai et al. (2006); de Clercq and Casteels (1992); He et al. (2001); He et al. (2002); Hidalgo and Carballo (1991); (Koch and Waterhouse 2000); Korytkowski (2014); Korytkowski (1982); Kuhnke et al. (1998); Martin et al. (2005); Pang et al. (2006); Romero-Zuniga et al. (1991); Shepard et al. (1998); Spencer (1973); Valladares (1984); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011); Wei et al. (2000); Weintraub (1999); Weintraub et al. (2017)	27
commercial	Celery	<i>Apium graveolens</i>	<i>dulce</i>	Apiaceae	Mujica and Kroschel (2011)	He et al. (2001); Korytkowski (2014); Scheffer et al. (2006)	4
commercial		<i>Apium</i> sp.		Apiaceae		Collins (1996)	1
commercial	Carrot	<i>Daucus carota</i>		Apiaceae	Rauf et al. (2000)	Korytkowski (2014); Korytkowski (1982); Shepard et al. (1998)	4

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial		<i>Daucus carota</i>	<i>sativa</i>	Apiaceae		Korytkowski (2014)	1
commercial	Carrot	<i>Daucus carota</i>	<i>sativus</i>	Apiaceae		Scheffer et al. (2006)	1
commercial	Lettuce	<i>Lactuca sativa</i>		Asteraceae	Masetti et al. (2006); Mujica and Kroschel (2011); Rauf et al. (2000); Takano et al. (2008)	Andersen et al. (2002); Andersen et al. (2008); Bahlai et al. (2006); de Clercq and Casteels (1992); Echevarria et al. (1994); Godinho and Mexia (2000); He et al. (2002); Hincapie et al. (1993); (Koch and Waterhouse 2000); Korytkowski (2014); Korytkowski (1982); Kuhnke et al. (1998); Martin et al. (2005); Olivera and Bordat (1996); Weintraub et al. (2017); Parish et al. (2017); Salvo and Valladares (1997); Spencer (1973); Takano et al. (2008); Valladares (1984); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011); Weintraub et al. (2017)	34
commercial		<i>Lactuca sativa</i>	<i>asparagina</i>	Asteraceae		Wei et al. (2000)	1

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial		<i>Lactuca sativa</i>	<i>capitata</i>	Asteraceae		Scheffer et al. (2006); Wei et al. (2000)	2
commercial		<i>Lactuca sativa</i>	<i>intybeca</i>	Asteraceae		Shiao and Wu (2000)	1
commercial	Indian nightshade	<i>Basella alba</i>		Basellaceae	Rauf et al. (2000)	He et al. (2001)	2
commercial	Chinese cabbage; Petsai	<i>Brassica campestris</i>		Brassicaceae	Rauf et al. (2000); Sivapragasam et al. (1999); Sivapragasam and Syed (1999)	Hidalgo and Carballo (1991); Pang et al. (2006); Romero-Zuniga et al. (1991)	6
commercial	Chinese cabbage	<i>Brassica campestris</i>	<i>pekinensis</i>	Brassicaceae	Mujica and Kroschel (2011)	He et al. (2001)	2
commercial	Turnip	<i>Brassica campestris</i>	<i>rapa</i>	Brassicaceae	Mujica and Kroschel (2011)	Hincapie et al. (1993)	2
commercial	Pak-choi cabbage; Petsai	<i>Brassica chinensis</i>		Brassicaceae	Rauf et al. (2000); Sivapragasam et al. (1999)	Andersen et al. (2008); Shepard et al. (1998)	4
commercial	Leaf mustard; Mustard greens; Radish	<i>Brassica juncea</i>		Brassicaceae	Rauf et al. (2000); Scheffer et al. (2001)	Andersen et al. (2008); Bahlai et al. (2006); He et al. (2001); Scheffer et al. (2006); Silva (1993); Wei et al. (2000)	8

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Gai lan; Cabbage; Broccoli; Caisin	<i>Brassica oleracea</i>		Brassicaceae	Rauf et al. (2000); Scheffer et al. (2001)	Bahlai et al. (2006); Echevarria et al. (1994); Korytkowski (2014); Korytkowski (1982); Pang et al. (2006); Saunders et al. (1998); Shepard et al. (1998)	9
commercial	Kale	<i>Brassica oleracea</i>	<i>acephala</i>	Brassicaceae	Foba et al. (2015)	He et al. (2001)	2
commercial		<i>Brassica oleracea</i>	<i>botrytis</i>	Brassicaceae		He et al. (2001); Korytkowski (2014)	2
commercial	Cabbage	<i>Brassica oleracea</i>	<i>capitata</i>	Brassicaceae	Mujica and Kroschel (2011)	He et al. (2001); Hincapie et al. (1993); Scheffer et al. (2006); Weintraub et al. (2017)	5
commercial		<i>Brassica oleracea</i>	<i>caulorapa</i>	Brassicaceae		He et al. (2001)	1
commercial		<i>Brassica oleracea</i>	<i>geminifera</i>	Brassicaceae		Weintraub et al. (2017)	1
commercial	Broccoli	<i>Brassica oleracea</i>	<i>italica</i>	Brassicaceae		He et al. (2001); Scheffer et al. (2006); Shepard et al. (1998); Weintraub et al. (2017)	4

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Turnip; Rinsho	<i>Brassica rapa</i>		Brassicaceae	Rauf et al. (2000); Takano et al. (2008)	Collins (1996); Scheffer et al. (2006); Shepard et al. (1998); Valladares et al. (1999); Valladares et al. (2011)	8
commercial		<i>Brassica rapa</i>	<i>chinensis</i>	Brassicaceae	Takano et al. (2008)	Andersen et al. (2008)	2
commercial		<i>Brassica rapa</i>	<i>cultivar Ciaxin</i>	Brassicaceae		CABI (2019)	1
commercial		<i>Brassica</i> sp.		Brassicaceae		Hincapie et al. (1993)	1
commercial	Watercress	<i>Nasturtium officinale</i>		Brassicaceae	Rauf et al. (2000)	He et al. (2001); S. S. new record	3
commercial		<i>Nasturtium</i> spp.		Brassicaceae		Valladares (1984)	1
commercial	Radish; Chinese radish (Daikon)	<i>Raphanus sativus</i>		Brassicaceae	Mujica and Kroschel (2011); Rauf et al. (2000)	He et al. (2001); Collins (1996); Echevarria et al. (1994); Shepard et al. (1998); Weintraub et al. (2017)	7
commercial		<i>Raphanus sativus</i>	<i>sativus</i>	Brassicaceae		Scheffer et al. (2006)	1
commercial	Sweet potato	<i>Ipomoea batatas</i>		Convolvulaceae	Rauf et al. (2000)	Shepard et al. (1998)	2
commercial	Watermelon	<i>Citrullus lanatus</i>		Cucurbitaceae	Foba et al. (2015)	(Koch and Waterhouse 2000); Ripa et al. (1995)	3

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Cucumber	<i>Cucumis sativus</i>		Cucurbitaceae	Hammad and Nemer (2000); Masetti et al. (2006); Mujica and Kroschel (2011); Nakamura et al. (2013); Rauf et al. (2000)	Andersen et al. (2002); Weintraub et al. (2017); Hincapie et al. (1993); Kuhnke et al. (1998); Martin et al. (2005); Weintraub et al. (2017); Parish et al. (2017); Ripa et al. (1995); Shiao and Wu (2000); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011); Yabas et al. (1995)	20
commercial		<i>Cucumis</i> spp.		Cucurbitaceae		(Koch and Waterhouse 2000)	1
commercial	Pumpkin	<i>Cucurbita maxima</i>		Cucurbitaceae	Foba et al. (2015); Mujica and Kroschel (2011)	Korytkowski (2014); Korytkowski (1982); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011)	8
commercial	Courgette	<i>Cucurbita maxima</i>	<i>zapallito</i>	Cucurbitaceae	Salvo and Valladares (2002)	Salvo and Valladares (1997); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011)	5
commercial	Butternut squash	<i>Cucurbita moschata</i>		Cucurbitaceae	Foba et al. (2015)	Pang et al. (2006); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011)	5
commercial		<i>Cucurbita moschata</i>	<i>medullosa</i>	Cucurbitaceae		Pang et al. (2006)	1

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Courgette; Zucchini	<i>Cucurbita pepo</i>		Cucurbitaceae	Foba et al. (2015); Mujica and Kroschel (2011); Scheffer et al. (2001)	He et al. (2001); Korytkowski (1982); Olivera and Bordat (1996); Pang et al. (2006); Spencer (1973)	8
commercial		<i>Cucurbita pepo</i>	<i>pepo</i>	Cucurbitaceae		Scheffer et al. (2006)	1
commercial		<i>Cucurbita sp.</i>		Cucurbitaceae		Korytkowski (2014); Salvo and Valladares (1997); Valladares (1984); Valladares et al. (1996)	6
commercial	Bitter gourd; Balsam pear	<i>Momordica charantia</i>		Cucurbitaceae	Foba et al. (2015)	Pang et al. (2006)	2
commercial	Swartz Chayote	<i>Sechium edule</i>		Cucurbitaceae	Rauf et al. (2000)	He et al. (2001)	2
commercial	Chickpea	<i>Cicer arietinum</i>		Fabaceae	Avalos et al. (2013)		1
commercial	Soybean	<i>Glycine max</i>		Fabaceae	Rauf et al. (2000)	He et al. (2001); Parish et al. (2017); Valladares (1984); Valladares et al. (1999)	5
commercial	Sweet Dolichos	<i>Lablab purpureus</i>		Fabaceae	Foba et al. (2015)		1

Host plants of the serpentine leafminer (*Liriomyza huidobrensis*)

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Alfalfa	<i>Medicago sativa</i>		Fabaceae	Mujica and Kroschel (2011)	Echevarria et al. (1994); Gloria and Salas (1976); (Koch and Waterhouse 2000); Korytkowski (2014); Valladares (1984); Valladares et al. (1999); Valladares et al. (2011)	9
commercial		<i>Phaseolus lunatus</i>		Fabaceae	Sivapragasam et al. (1999)		1
commercial		<i>Phaseolus</i> sp.		Fabaceae		Scheffer et al. (2006)	1

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Green bean; French bean; Kidney bean; Bean; Common bean; Snap bean	<i>Phaseolus vulgaris</i>		Fabaceae	Foba et al. (2015); Larrain and Munoz (1997); Mujica and Kroschel (2011); Rauf et al. (2000); de Souza (1986); Hammad and Nemer (2000); Salvo and Valladares (2002)	Andersen et al. (2002); Andersen et al. (2008); Masetti et al. (2006); Olivera and Bordat (1996); Pang et al. (2006); Parish et al. (2017); Saunders et al. (1998); Verjel-Manzano and Mejia-Florez (2000); Echevarria et al. (1994); Godinho and Mexia (2000); Weintraub et al. (2017); He et al. (2001); He et al. (2002); Hidalgo and Carballo (1991); Hincapie et al. (1993); Iwasaki (2004b); Korytkowski (2014); Korytkowski (1982); Macdonald et al. (2003); Musundire et al. (2012); Okoth et al. (2014); Salvo and Valladares (1997); Shepard et al. (1998); Shiao and Wu (2000); Spencer (1973); Takano et al. (2008); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011); Weintraub et al. (2017); Yabas et al. (1995)	41

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Green pea	<i>Phaseolus vulgaris</i>	<i>vulgaris</i>	Fabaceae	Mujica and Kroschel (2011)		1
commercial	Garden pea; Pea; Snow pea; Sugar snap	<i>Pisum sativum</i>		Fabaceae	Sivapragasam et al. (1999); Foba et al. (2015); Larrain and Munoz (1997); Mujica and Kroschel (2011); Rauf et al. (2000); Scheffer et al. (2001); Sivapragasam and Syed (1999)	Andersen et al. (2002); Andersen et al. (2008); Bahlai et al. (2006); He et al. (2001); (Koch and Waterhouse 2000); Korytkowski (2014); Korytkowski (1982); Martin et al. (2005); Musundire et al. (2012); Okoth et al. (2014); Pang et al. (2006); Ripa et al. (1995); Salvo and Valladares (1997); Saunders et al. (1998); Silva (1993); Spencer (1973); Takano et al. (2008); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011); Wei et al. (2000); Weintraub et al. (2017); Yabas et al. (1995); Kox et al. (2005)	37
commercial		<i>Pisum sativum</i>	<i>macrocarpenser</i>	Fabaceae		He et al. (2001)	1
commercial	Snow pea	<i>Pisum</i> sp.		Fabaceae		Collins (1996); Scheffer et al. (2006); Shepard et al. (1998)	3

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Broad bean; Faba bean; Fava bean	<i>Vicia faba</i>		Fabaceae	Mujica and Kroschel (2011); Rauf et al. (2000); Salvo and Valladares (2002); Scheffer et al. (2001)	Blanchard (1938); Collins (1996); Echevarria et al. (1994); Gallegos 2000; Weintraub et al. (2017); He et al. (2001); He et al. (2002); (Koch and Waterhouse 2000); Korytkowski (1982); Musundire et al. 2011; Musundire et al. (2012); Noujeim et al. 2013; Okoth et al. (2014); Salvo and Valladares (1997); Saunders et al. (1998); Silva (1993); Takano et al. (2008); Valladares (1984); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011); Wei et al. (2000); Yabas et al. (1995)	27
commercial		<i>Vicia sp.</i>		Fabaceae		Spencer (1973)	1
commercial	Red bean	<i>Vigna sinensis</i>		Fabaceae	Rauf et al. (2000)	He et al. (2001); Shepard et al. (1998); Wei et al. (2000)	4
commercial	Walp Cowpea; Yard-long bean	<i>Vigna unguiculata</i>		Fabaceae	Foba et al. (2015); Rauf et al. (2000)	Hincapie et al. (1993)	3

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial		<i>Vigna unguiculata</i>	<i>unguiculata</i>	Fabaceae		Takano et al. (2008)	1
commercial	Basil	<i>Ocimum basilicum</i>		Lamiaceae	Mujica and Kroschel (2011); Rauf et al. (2000)		2
commercial	Okra	<i>Abelmoschus esculentus</i>		Malvaceae	Foba et al. (2015)		1
commercial	Pepper; Sweet pepper; Green pepper; Chili	<i>Capsicum annuum</i>		Solanaceae	Sivapragasam et al. (1999); Mujica and Kroschel (2011); Rauf et al. (2000); Sivapragasam and Syed (1999)	Calabretta et al. 1995; (Koch and Waterhouse 2000); Pang et al. (2006); Salvo and Valladares (1997); Saunders et al. (1998); Shepard et al. (1998); Shiao and Wu (2000); Spencer (1973); Valladares (1984); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011); Weintraub et al. (2017)	17
commercial	Yellow chili	<i>Capsicum baccatum</i>		Solanaceae	Mujica and Kroschel (2011)		1
commercial	Sweet pepper	<i>Capsicum</i> sp.		Solanaceae	Foba et al. (2015)	Romero-Zuniga et al. (1991)	2

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Tomato	<i>Lycopersicon esculentum</i>		Solanaceae	Mujica and Kroschel (2011); Rauf et al. (2000); Sivapragasam et al. (1999); Sivapragasam and Syed (1999)	Korytkowski (2014); Kox et al. (2005); He et al. (2001); (Koch and Waterhouse 2000); Okoth et al. (2014); Olivera and Bordat (1996); Osorio et al. 1983; Salvo and Valladares (1997); Shepard et al. (1998); Spencer (1973); Valladares (1984); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011); Collins (1996);	21
commercial	Tomato	<i>Lycopersicon esculentum</i>	<i>esculentum</i>	Solanaceae		Scheffer et al. (2006)	1
commercial	Tomato	<i>Solanum lycopersicum</i>		Solanaceae	Foba et al. (2015)	Andersen et al. (2008); Andersen et al. (2002); de Clercq and Casteels (1992); Godinho and Mexia (2000); Hanafi (2005); Hidalgo and Carballo (1991); Korytkowski (1982); Macdonald et al. (2003); Moura et al. (2014); Musundire et al. (2012); Weintraub et al. (2017); Pang et al. (2006); Parish et al. (2017); Saunders et al. (1998); Weintraub et al. (2017)	17

Host plants of the serpentine leafminer (*Liriomyza huidobrensis*)

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Brinjal eggplant; Eggplant	<i>Solanum melongena</i>		Solanaceae	Foba et al. (2015); Rauf et al. (2000)	He et al. (2001); Korytkowski (1982); Salvo and Valladares (1997); Saunders et al. (1998); Valladares (1984); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011)	11
commercial		<i>Solanum sp.</i>		Solanaceae	Scheffer et al. (2001)	Andrade et al. (1989)	3

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
commercial	Potato	<i>Solanum tuberosum</i>		Solanaceae	de Souza (1986); Foba et al. (2015); Larrain and Munoz (1997); Mujica and Kroschel (2011); Nino et al. (2009); Rauf et al. (2000); Salvo and Valladares (2002); Scheffer et al. (2001); Sivapragasam and Syed (1999)	Andersen et al. (2002); Andersen et al. (2008); Bahlai et al. (2006); Gallegos 2000; He et al. (2001); Hidalgo and Carballo (1991); Iwasaki (2004a); (Koch and Waterhouse 2000); Korytkowski (2014); Korytkowski (1982); Macdonald et al. (2003); Maharjan et al. 2014; Martin et al. (2005); Romero-Zuniga et al. (1991); Salvo and Valladares (1997); Saunders et al. (1998); Shepard et al. (1998); Spencer (1973); Valladares (1984); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011); Wijesekara (2010); Yabas et al. (1995)	36

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
non cultivated	Amaranth; Bayam	<i>Amaranthus</i> sp.*		Amaranthaceae	Rauf et al. (2000); Sivapragasam et al. (1999)	Hidalgo and Carballo (1991); Romero-Zuniga et al. (1991); Shepard et al. (1998); Valladares et al. (1999); Valladares et al. (2011); Weintraub et al. (2017)	9
non cultivated	Goosefoot	<i>Chenopodium album</i> *		Amaranthaceae	Salvo and Valladares (2002)	He et al. (2001); Silva (1993)	3
non cultivated	Amaranth	<i>Deeringia amaranthoides</i> *		Amaranthaceae	Rauf et al. (2000)		1
non cultivated	Penniwort	<i>Hydrocotyle</i> sp.*		Araliaceae	Salvo and Valladares (2002)	Salvo and Valladares (1997)	2
non cultivated	Chick weed	<i>Ageratum conyzoides</i> *		Asteraceae	Rauf et al. (2000)		1
non cultivated	Common burdock	<i>Arctium minus</i> *		Asteraceae	Salvo and Valladares (2002)	Salvo and Valladares (1997); Valladares et al. (1999); Valladares et al. (2011)	4
non cultivated	Sow thistle	<i>Emilia sonchifolia</i> *		Asteraceae	Rauf et al. (2000); Scheffer et al. (2001)	Hincapie et al. (1993); Scheffer et al. (2006)	4
non cultivated	American burnweed	<i>Erechtites hieracifolia</i> *		Asteraceae	Rauf et al. (2000)	Romero-Zuniga et al. (1991)	2
		(currently under quarantine in Australia (CABI 2019))					

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
non cultivated	Indian lettuce	<i>Lactuca indica</i>		Asteraceae	Rauf et al. (2000); Sivapragasam et al. (1999)		2
non cultivated	Cinderella weed	<i>Synedrella nodiflora*</i>		Asteraceae	Rauf et al. (2000)		1
non cultivated	Wild cucumber	<i>Melothria indica</i>		Cucurbitaceae	Rauf et al. (2000)		1
non cultivated	Cutleaf ground cherry	<i>Physalis angulata*</i>		Solanaceae	Rauf et al. (2000)	Hidalgo and Carballo (1991)	2
non cultivated	American black nightshade	<i>Solanum americanum</i>		Solanaceae	Rauf et al. (2000)		1
ornamental	Pot marigold	<i>Calendula officinalis</i>		Asteraceae	Salvo and Valladares (2002)	He et al. (2001); Korytkowski (1982); Salvo and Valladares (1997); Valladares (1984); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011)	8
ornamental		<i>Calendula sp.</i>		Asteraceae		Weintraub et al. (2017)	1
ornamental	Chinese aster	<i>Callistephus chinensis</i>		Asteraceae	Salvo and Valladares (2002)	de Clercq and Casteels (1992); Salvo and Valladares (1997); Valladares et al. (1999); Valladares et al. (2011); Wei et al. (2000); Valladares et al. (1996)	7
ornamental		<i>Chrysanthemum coronarium</i>		Asteraceae		Wei et al. (2000)	1

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
ornamental	Garland chrysanthemum	<i>Chrysanthemum coronarium</i>	<i>coronarium</i>	Asteraceae	Tran (2009)		1
ornamental	Garland chrysanthemum	<i>Chrysanthemum</i> sp.		Asteraceae	Scheffer et al. (2001)	Collins (1996); Hincapie et al. (1993); Pang et al. (2006); Salvo and Valladares (1997); Scheffer et al. (2006); Weintraub et al. (2017); Anderson et al. (2008)	8
ornamental	Chrysanthemum	<i>Chrysanthemum</i> spp.		Asteraceae	Rauf et al. (2000)		1
ornamental	Dahlia	<i>Dahlia</i> sp.		Asteraceae	Rauf et al. (2000)	Collins (1996); Weintraub et al. (2017)	3
ornamental	Gerbera	<i>Gerbera jamesonii</i>		Asteraceae	Rauf et al. (2000)	Wei et al. (2000)	2
ornamental		<i>Gerbera</i> sp.		Asteraceae		Weintraub et al. (2017)	3
ornamental	Marigold	<i>Tagetes erecta</i>		Asteraceae	Mujica and Kroschel (2011)	Wei et al. (2000)	2
ornamental		<i>Tagetes erecta</i>	<i>hybrids</i>	Asteraceae		de Clercq and Casteels (1992)	1
ornamental		<i>Tagetes</i> sp.		Asteraceae		Weintraub et al. (2017); Salvo and Valladares (1997); Valladares (1984); Valladares et al. (1996)	4
ornamental		<i>Eustoma</i> sp.		Gentianaceae	Nakamura et al. (2013)	Weintraub et al. (2017)	2

Host plants of the serpentine leafminer (*Liriomyza huidobrensis*)

Host type	Common names	Scientific name	Variety	Family	Records with comprehensive evidence	All other records (partial and unverified records)	Total records
ornamental	'Swai tanah'	<i>Nasturtium indicum</i>		Tropaeolaceae	Rauf et al. (2000)		1
ornamental	Garden nasturtium	<i>Tropaeolum majus</i>		Tropaeolaceae	Salvo and Valladares (2002)	He et al. (2001); Salvo and Valladares (1997); Silva (1993); Valladares (1984)	5
ornamental		<i>Tropaeolum</i> sp.		Tropaeolaceae	Spencer (1983)		1

**Table 3.** Commercial, ornamental and non-cultivated plants for which only **partial evidence of lifecycle completion in the field** for the serpentine leafminer (*Liriomyza huidobrensis*) has been provided within the scientific literature literature.

This includes all records where:

- (1) Adults were reared from field collected plant material infested with larvae, but no subsequent identification via morphology or molecular diagnostics was reported; or
- (2) Laboratory feeding and oviposition preference experiments were conducted that did not confirm lifecycle completion; or
- (3) Identification via morphology or molecular diagnostics was reported, but collection methods in the field were not reported. Lifecycle completion cannot be confirmed in these instances due to the potential use of non-specific collection methods (e.g. sticky traps or sweep nets); or
- (4) Laboratory cultures confirmed lifecycle completion, but evidence of lifecycle completion in the field was not provided; or
- (5) Only common names of plant were given, but the scientific name could be confidently inferred; or
- (6) The record reports presence of *L. huidobrensis* on imported material detected at the border.

Records for plants identified only to the genus level (sp. or spp.) that did not meet the above conditions are included here only if there are other records for species within this genus that met one of these conditions outlined above. Records for specific varieties within a species that did not meet the above conditions are included only if there are other records for that same species that meet one of the conditions outlined above. Scientific names in the table appear as they were originally cited. A number of these names are now recognised as synonyms, however for brevity, we are not reporting the currently accepted names for these taxa (refer to WorldFloraOnline.org, Australian Plant Census, or Catalogue of Life for current taxonomic decisions). For all non-cultivated plants, and asterisk after the scientific name indicates that the Atlas of Living Australia reports this species present within Australia (Atlas of Living Australia 2020). Additionally, many plants labelled as commercial and ornamental have escaped cultivation and naturalised in Australia. Records that report comprehensive confirmations of lifecycle completion are included in Table 2, while unverified records are included in Table 4. *Liriomyza huidobrensis* is highly polyphagous and no guarantee can be made that this list is exhaustive.

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
commercial	Quinoa	<i>Chenopodium quinoa</i>		Amaranthaceae	CABI (2019); Korytkowski (1982)	2
commercial	Quinoa	<i>Chenopodium quinoa</i>	Amarilla de Marangani	Amaranthaceae	Yabar et al. (2002)	1

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
commercial	Quinoa	<i>Chenopodium quinoa</i>	Blanca de Junín	Amaranthaceae	Yabar et al. (2002)	1
commercial		<i>Allium chinense</i>		Amaryllidaceae	He et al. (2001)	1
commercial		<i>Allium schoenoprasum</i>		Amaryllidaceae	Spencer (1973)	1
commercial		<i>Allium tuberosum</i>	<i>rottler</i>	Amaryllidaceae	He et al. (2001)	1
commercial		<i>Bupleurum green</i> (most likely a <i>Bupleurum rotundifolium</i> cultivar)		Apiaceae	He et al. (2001)	1
commercial		<i>Bupleurum</i> sp.		Apiaceae	Andersen and Hofsvang (2010)	1
commercial	Coriander	<i>Coriandrum sativum</i>		Apiaceae	He et al. (2001); (Koch and Waterhouse 2000); Weintraub et al. (2017)	3
commercial		<i>Daucus sativa</i>	<i>sativus</i>	Apiaceae	Hidalgo and Carballo (1991); Wei et al. (2000)	2
commercial	Giant taro	<i>Alocasia macrorrhiza</i>		Araceae	Wei et al. (2000)	1
commercial		<i>Colocasia esculenta</i>		Araceae	He et al. (2001)	1
commercial	Carthamum	<i>Carthamus tinctorius</i>		Asteraceae	He et al. (2001); Sunderlands et al. (1992)	2
commercial		<i>Carthamus</i> sp.		Asteraceae	Andersen and Hofsvang (2010)	1
commercial		<i>Cichorium endivia</i>		Asteraceae	de Goffau 1991	1
commercial	Endive	<i>Cichorium</i> sp.		Asteraceae	Salvo and Valladares (1997); Weintraub et al. (2017)	3
commercial		<i>Crassocephalum rubens</i>		Asteraceae	Shiao and Wu (2000)	1

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
commercial	Artichoke	<i>Cynara cardunculus</i>	<i>scolymus</i>	Asteraceae	Larrain et al. 2013	1
commercial		<i>Cynara scolymus</i>		Asteraceae	Korytkowski (2014)	2
commercial		<i>Cynara scolymus</i>	<i>scolymus</i>	Asteraceae	Korytkowski (1982)	1
commercial		<i>Basella rubra</i>		Basellaceae	He et al. (2001)	1
commercial	Gai lan; Asian broccoli	<i>Brassica alboglabra</i>		Brassicaceae	Bahlai et al. (2006); Martin et al. (2005)	2
commercial		<i>Brassica botrytis</i>		Brassicaceae	Wei et al. (2000)	1
commercial		<i>Brassica campestris</i> spp.		Brassicaceae	He et al. (2001)	1
commercial		<i>Brassica chinese</i>		Brassicaceae	Wei et al. (2000)	1
commercial		<i>Brassica napus</i>		Brassicaceae	Wei et al. (2000)	1
commercial		<i>Brassica pekinensis</i>		Brassicaceae	Wei et al. (2000)	1
commercial		<i>Brassica pekinensis pekinensis</i>		Brassicaceae	He et al. (2002)	1
commercial		<i>Chenopodium quinoa</i>		Chenopodiaceae	Korytkowski (2014)	2
commercial		<i>Spinacea oleracea</i>		Chenopodiaceae	Korytkowski (2014)	2
commercial		<i>Ipomoea aquatica</i>		Convolvulaceae	He et al. (2001)	1
commercial		<i>Benincasa hispida</i>		Cucurbitaceae	He et al. (2001)	1
commercial		<i>Citrullus vulgaris</i>		Cucurbitaceae	Korytkowski (2014); Korytkowski (1982)	3
commercial	Melon	<i>Cucumis melo</i>		Cucurbitaceae	CABI (2019) and EPPO (2020); Guimarães et al. (2009); (Koch and Waterhouse 2000); Spencer (1973); Valladares (1984); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011)	9

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
commercial		<i>Lagenaria siceraria</i>		Cucurbitaceae	Kox et al. (2005)	1
commercial		<i>Lagenaria</i> sp.		Cucurbitaceae	Shiao and Wu (2000)	1
commercial		<i>Luffa acutangula</i>		Cucurbitaceae	He et al. (2002)	1
commercial		<i>Luffa cylindrica</i>		Cucurbitaceae	Shiao and Wu (2000); Valladares et al. (1996)	3
commercial		<i>Dolichos lablab</i>		Fabaceae	He et al. (2001)	1
commercial		<i>Lotus</i> sp.		Fabaceae	Collins (1996)	1
commercial		<i>Trifolium repens</i>		Fabaceae	Andrade et al. (1989); He et al. (2001); Wei et al. (2000)	3
commercial		<i>Trigonella</i> sp.		Fabaceae	Collins (1996)	1
commercial		<i>Vicia fava</i>		Fabaceae	Korytkowski (2014)	2
commercial		<i>Vicia sativa</i>		Fabaceae	He et al. (2001); Weintraub et al. (2017)	2
commercial	Mungbean	<i>Vigna radiata</i>		Fabaceae	Andersen et al. (2002)	1
commercial	Spearmint	<i>Mentha spicata</i>		Lamiaceae	Wei et al. (2000)	1
commercial		<i>Linum usitatissimum</i>		Linaceae	Spencer (1973)	1
commercial		<i>Hordeum vulgare</i>		Poaceae	He et al. (2001)	1
commercial		<i>Triticum aestivum</i>		Poaceae	He et al. (2001)	1
commercial		<i>Zea mays</i>		Poaceae	He et al. (2001); Salvo and Valladares (1997)	2
commercial	Wild rice	<i>Zizania latifolia</i>		Poaceae	Wei et al. (2000)	1
commercial		<i>Capsicum frutescens</i>		Solanaceae	He et al. (2001); He et al. (2002)	2
commercial		<i>Lycium chinense</i>		Solanaceae	He et al. (2001)	1
commercial		<i>Nicotiana</i> sp.		Solanaceae	Korytkowski (1982); Korytkowski (2014)	2

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
commercial		<i>Nicotiana tabacum</i>		Solanaceae	He et al. (2001); Korytkowski (2014); Korytkowski (1982)	4
commercial		<i>Solanum muricatum</i>		Solanaceae	Larrain 2002	1
non cultivated		<i>Sagittaria sagittifolia</i> *		Alismataceae	He et al. (2001)	1
non cultivated		<i>Alstomeria</i> sp.*		Alstroemeriaceae	Collins (1996)	1
non cultivated		<i>Alstroemeria aurea</i> *		Alstroemeriaceae	He et al. (2001)	1
non cultivated		<i>Amaranthus caudatus</i> *		Amaranthaceae	He et al. (2001)	1
non cultivated		<i>Amaranthus lividus</i> *		Amaranthaceae	He et al. (2001)	1
non cultivated		<i>Amaranthus manostanus</i>		Amaranthaceae	He et al. (2001)	1
non cultivated		<i>Amaranthus retroflexus</i> *		Amaranthaceae	He et al. (2001); Hincapie et al. (1993)	2
non cultivated		<i>Amaranthus viridis</i> *		Amaranthaceae	Shiao and Wu (2000); Spencer (1973); Verjel- Manzano and Mejia-Florez (2000)	3
non cultivated		<i>Chenopodium ambrosioides</i> * (Korytkowski (2014) reports as <i>C. abrossoides</i> )		Amaranthaceae	He et al. (2001); Korytkowski (1982); Valladares (1984); Valladares et al. (1999); Valladares et al. (2011); Korytkowski (2014)	6
non cultivated		<i>Chenopodium abrossoides</i>		Amaranthaceae		non cultivated

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
non cultivated		<i>Chenopodium hirsutum</i>		Amaranthaceae	Korytkowski (2014)	2
non cultivated		<i>Chenopodium murale</i> *		Amaranthaceae	Korytkowski (1982)	1
non cultivated		<i>Chenopodium paniculatum</i>		Amaranthaceae	Andrade et al. (1989)	1
non cultivated		<i>Gomphrena globose</i> *		Amaranthaceae	He et al. (2001)	1
non cultivated		<i>Iresine herbstii</i> *		Amaranthaceae	Wei et al. (2000)	1
non cultivated		Unknown Amaranthaceae		Amaranthaceae	Salvo and Valladares (1997)	1
non cultivated		<i>Hydrocotyle umbellate</i> *		Araliaceae	Hidalgo and Carballo (1991); Hincapie et al. (1993); Korytkowski (1982)	3
non cultivated		<i>Arctium lappa</i> *		Asteraceae	Scheffer et al. (2006); Silva (1993)	2
non cultivated		<i>Artemisia annua</i>		Asteraceae	He et al. (2001)	1
non cultivated		<i>Bidens pilosa</i> *		Asteraceae	Hidalgo and Carballo (1991); Pang et al. (2006); Romero-Zuniga et al. (1991); Weintraub et al. (2017)	4
non cultivated		<i>Bidens sp.</i> *		Asteraceae	Salvo and Valladares (1997)	1
non cultivated		<i>Carduus crispus</i>		Asteraceae	He et al. (2001)	1
non cultivated		<i>Conyza canadensis</i> *		Asteraceae	Wei et al. (2000)	1
non cultivated		<i>Conyza sp.</i> *		Asteraceae	Salvo and Valladares (1997); Valladares et al. (1999); Valladares et al. (2011)	3
non cultivated		<i>Crepis pulchra</i>		Asteraceae	Salvo and Valladares (1997)	1

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
non cultivated		<i>Dichrocephala auriculata</i>		Asteraceae	He et al. (2001)	1
non cultivated		<i>Echinops ritro</i>		Asteraceae	He et al. (2001)	1
non cultivated		<i>Erigeron breviscapus</i>		Asteraceae	He et al. (2001)	1
non cultivated		<i>Galinsoga caracasana</i>		Asteraceae	Andrade et al. (1989); Spencer (1973); Spencer (1983)	3
non cultivated		<i>Galinsoga ciliata</i>		Asteraceae	Andrade et al. (1989); Hidalgo and Carballo (1991); Romero-Zuniga et al. (1991)	3
non cultivated		<i>Galinsoga parviflora*</i>		Asteraceae	Hincapie et al. (1993); Wei et al. (2000)	2
non cultivated		<i>Helichrysum bracteatum*</i>		Asteraceae	Wei et al. (2000)	2
non cultivated		<i>Helipterum roseum*</i>		Asteraceae	He et al. (2001)	1
non cultivated		<i>Hemistepta lyrata*</i>		Asteraceae	He et al. (2001)	1
non cultivated		<i>Sonchus asper*</i>		Asteraceae	He et al. (2001); Hincapie et al. (1993)	2
non cultivated		<i>Sonchus brachyotus</i>		Asteraceae	He et al. (2001)	1
non cultivated		<i>Sonchus lunatus</i>		Asteraceae	Andrade et al. (1989)	1
non cultivated		<i>Sonchus oleraceus*</i>		Asteraceae	He et al. (2001); Hidalgo and Carballo (1991); Romero-Zuniga et al. (1991); Weintraub et al. (2017)	5
non cultivated		<i>Sonchus sp.*</i>		Asteraceae	Korytkowski (2014); Korytkowski (1982)	3
non cultivated		<i>Taraxacum mongolicum</i>		Asteraceae	He et al. (2001)	1

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
non cultivated		<i>Barbarea</i> sp.*		Brassicaceae	Shiao and Wu (2000)	1
non cultivated		<i>Capsella bursa-pastoris</i> *		Brassicaceae	Andrade et al. (1989); He et al. (2001); Weintraub et al. (2017)	3
non cultivated		<i>Cardamine hirsute</i> *		Brassicaceae	He et al. (2001)	1
non cultivated		<i>Rorippa indica</i>		Brassicaceae	He et al. (2001); Scheffer et al. (2006)	2
non cultivated		<i>Rorippa montana</i>		Brassicaceae	He et al. (2001)	1
non cultivated		<i>Rorippa palustris</i> *		Brassicaceae	He et al. (2001)	1
non cultivated		<i>Malachium aguatium</i>		Caryophyllaceae	He et al. (2001)	1
non cultivated		<i>Silene gallica</i> *		Caryophyllaceae	Andrade et al. (1989)	1
non cultivated		<i>Stellaria media</i> *		Caryophyllaceae	He et al. (2001); Mujica (2007); Wei et al. (2000)	3
non cultivated		<i>Stellaria yunnansis</i>		Caryophyllaceae	He et al. (2001)	1
non cultivated		<i>Calystegia hederacea</i>		Convolvulaceae	He et al. (2001)	1
non cultivated		<i>Calystegia sepium</i> *		Convolvulaceae	Wei et al. (2000)	1
non cultivated		<i>Ricinus communis</i> *		Euphorbiaceae	He et al. (2001)	1
non cultivated		<i>Medicago lupulina</i> *		Fabaceae	He et al. (2001)	1
non cultivated		<i>Medicago minima</i> *		Fabaceae	He et al. (2001)	1
non cultivated		<i>Melilotus suaveolens</i>		Fabaceae	He et al. (2001)	1
non cultivated		<i>Vicia tetrasperma</i> *		Fabaceae	He et al. (2001)	1
non cultivated		<i>Leonurus heterophyllus</i>		Lamiaceae	He et al. (2001)	1
non cultivated		<i>Althaea rosea</i>		Malvaceae	He et al. (2001); Korytkowski (1982)	2
non cultivated		<i>Malva rotundifolia</i>		Malvaceae	He et al. (2001)	1
non cultivated		<i>Malva verticillate</i> *		Malvaceae	He et al. (2001); Wei et al. (2000)	2

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
non cultivated		<i>Sida</i> sp.*		Malvaceae	Scheffer et al. (2006)	1
non cultivated		<i>Stephania delavayi</i>		Menispermaceae	He et al. (2001)	1
non cultivated		<i>Oxalis corniculata</i> *		Oxalidaceae	He et al. (2001)	1
non cultivated		<i>Plantago asiatica</i>		Plantaginaceae	He et al. (2001)	1
non cultivated		<i>Plantago major</i> *		Plantaginaceae	He et al. (2001)	1
non cultivated		<i>Veronica anagallis-aquatica</i> *		Plantaginaceae	He et al. (2001)	1
non cultivated		<i>Setaria viridis</i> *		Poaceae	Wei et al. (2000)	1
non cultivated		<i>Polygonum amphibium</i>		Polygonaceae	He et al. (2001)	1
non cultivated		<i>Polygonum aviculare</i> *		Polygonaceae	He et al. (2001)	1
non cultivated		<i>Polygonum hydropiper</i> *		Polygonaceae	He et al. (2001)	1
non cultivated		<i>Polygonum nepalense</i>		Polygonaceae	He et al. (2001)	1
non cultivated		<i>Rumex acetosa</i> *		Polygonaceae	He et al. (2001)	1
non cultivated		<i>Nemesia strumose</i> *		Scrophulariaceae	He et al. (2001)	1
non cultivated		<i>Datura ferox</i> *		Solanaceae	Salvo and Valladares (1997); Valladares et al. (1999); Valladares et al. (2011)	3
non cultivated		<i>Datura stramonium</i> *		Solanaceae	He et al. (2001); Hincapie et al. (1993); Mujica (2007)	3
non cultivated		<i>Nicotiana glauca</i> *		Solanaceae	Korytkowski (2014); Korytkowski (1982)	3
non cultivated		<i>Nicotiana physaloides</i>		Solanaceae	He et al. (2001)	1
non cultivated		<i>Solanum nigrum</i> *		Solanaceae	He et al. (2001)	1
non cultivated		<i>Solanum oleracelus</i>		Solanaceae	Noujeim et al. 2013	1
ornamental		<i>Celosia argentea</i>		Amaranthaceae	He et al. (2001)	1

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
ornamental		<i>Celosia argentea</i>	<i>cristata</i>	Amaranthaceae	He et al. (2001)	1
ornamental		<i>Centella asiatica</i>		Apiaceae	He et al. (2001)	1
ornamental		<i>Bupleurum griffithii</i>		Apiaceae	Andersen and Hofsvang (2010)	1
ornamental		<i>Eryngium</i> sp.		Apiaceae	Andersen and Hofsvang (2010)	1
ornamental		<i>Eryngium alpinum</i>		Apiaceae	Andersen and Hofsvang (2010)	1
ornamental		<i>Eryngium foetidum</i>		Apiaceae	Andersen and Hofsvang (2010)	1
ornamental		<i>Hydrocotyle umbellata</i>		Apiaceae	Korytkowski (2014)	2
ornamental	Java waterdropwort	<i>Oenanthe javanica</i>		Apiaceae	He et al. (2001)	1
ornamental		<i>Catharanthus roseus</i>		Apocynaceae	He et al. (2001)	1
ornamental		<i>Chionodoxa luciliae</i>		Asparagaceae	He et al. (2001)	1
ornamental		<i>Hemerocallis fulva</i>		Asphodelaceae	He et al. (2001)	1
ornamental		<i>Aster</i> sp.		Asteraceae	Collins (1996); Pang et al. (2006); Kox et al. (2005)	3
ornamental		<i>Argyranthemum frutescens</i>		Asteraceae	EPPO (2020); Andersen and Hofsvang (2010)	2
ornamental		<i>Argyranthemum</i> sp.		Asteraceae	Weintraub et al. (2017); Andersen and Hofsvang (2010)	2
ornamental		<i>Bellis perennis</i>		Asteraceae	He et al. (2001); Salvo and Valladares (1997); Valladares (1984); Valladares et al. (1999); Valladares et al. (2011)	5
ornamental		<i>Callendula officinallis</i>		Asteraceae	Korytkowski (2014)	2
ornamental		<i>Centaurea cyanus</i>		Asteraceae	He et al. (2001)	1

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
ornamental		<i>Centaurea</i> sp.		Asteraceae	Andersen and Hofsvang (2010)	
ornamental		<i>Chrysanthemum frutescens</i>		Asteraceae	de Clercq and Casteels (1992)	1
ornamental		<i>Chrysanthemum leucanthemum</i>		Asteraceae	Valladares (1984); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011)	4
ornamental		<i>Chrysanthemum morifolium</i>		Asteraceae	Andrade et al. (1989); de Clercq and Casteels (1992); Valladares (1984); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011); Wei et al. (2000)	7
ornamental		<i>Cineraria cruenta</i>		Asteraceae	He et al. (2001)	1
ornamental	cultivated cineraria	<i>Cineraria</i> spp.		Asteraceae	Blanchard (1926); Valladares (1984)	2
ornamental		<i>Conoclinium coelestinum</i>		Asteraceae	He et al. (2001)	1
ornamental		<i>Cosmos bipinnatus</i>		Asteraceae	He et al. (2001)	1
ornamental		<i>Craspedia globosa</i>		Asteraceae	He et al. (2001)	1
ornamental		<i>Dahlia pinnata</i>		Asteraceae	de Clercq and Casteels (1992); He et al. (2001); Salvo and Valladares (1997)	3

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
ornamental		<i>Dahlia variabilis</i>		Asteraceae	Valladares (1984); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011); Weintraub et al. (2017)	5
ornamental		<i>Dendranthema morifolium</i>		Asteraceae	Cuthbertson et al. (2013)	1
ornamental		<i>Gaillardia pulchella</i>		Asteraceae	He et al. (2001)	1
ornamental		<i>Helianthus annuus</i>		Asteraceae	Korytkowski (2014)	2
ornamental		<i>Helianthus</i> sp.		Asteraceae	Collins (1996); Weintraub et al. (2017)	2
ornamental	Indian aster	<i>Kalimeris indica</i>		Asteraceae	Shiao and Wu (2000)	1
ornamental		<i>Leucanthemum</i> sp.		Asteraceae	Kox et al. (2005); Andersen and Hofsvang (2010)	1
ornamental		<i>Osteospermum</i> sp.		Asteraceae	Weintraub et al. (2017); Andersen and Hofsvang (2010)	2
ornamental		<i>Pyrethrum cinerariifolium</i>		Asteraceae	He et al. (2001)	1
ornamental		<i>Solidago</i> sp.		Asteraceae	He et al. (2001); Andersen and Hofsvang (2010)	1
ornamental		<i>Tagetes patula</i>		Asteraceae	Wei et al. (2000)	1
ornamental		<i>Tagetes tenuitolia</i>		Asteraceae	Salvo and Valladares (1997); Valladares (1984); Valladares et al. (1999); Valladares et al. (2011)	4
ornamental		<i>Tanacetum parthenium</i>		Asteraceae	EPPO (2020); He et al. (2001)	2

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
ornamental		<i>Zinnia elegans</i>		Asteraceae	He et al. (2001); Valladares (1984); Valladares et al. (1999); Valladares et al. (2011)	4
ornamental		<i>Zinnia augustifolia</i>		Asteraceae	Andersen and Hofsvang (2010)	1
ornamental		<i>Zinnia</i> sp.		Asteraceae	Kox et al. (2005)	1
ornamental		<i>Impatiens balsamina</i>		Balsaminaceae	He et al. (2001)	1
ornamental		<i>Impatiens caeruleum</i>		Balsaminaceae	He et al. (2001)	1
commercial		<i>Eruca</i> sp.		Brassicaceae	Andersen and Hofsvang (2010)	1
commercial		<i>Eruca vesicaria</i>		Brassicaceae	Andersen and Hofsvang (2010)	1
ornamental		<i>Lobularia maritima</i>		Brassicaceae	He et al. (2001)	1
ornamental		<i>Matthiola incana</i>		Brassicaceae	He et al. (2001)	1
ornamental		<i>Matthiola</i> sp.		Brassicaceae	He et al. (2001)	1
ornamental		<i>Calceolaria crenatiflora</i>		Calceolariaceae	He et al. (2001)	1
ornamental		<i>Campanula medium</i>		Campanulaceae	He et al. (2001)	1
ornamental		<i>Platycodon grandifloras</i>		Campanulaceae	He et al. (2001)	1
ornamental		<i>Trachelium</i> sp.		Campanulaceae	Andersen and Hofsvang (2010)	1
ornamental		<i>Dianthus barbatus</i>		Caryophyllaceae	He et al. (2001)	1

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
ornamental	Carnation	<i>Dianthus caryophyllus</i>		Caryophyllaceae	EPPO (2020); He et al. (2001); (Koch and Waterhouse 2000); Salvo and Valladares (1997); Shepard et al. (1998); Valladares (1984); Valladares et al. (1999); Valladares et al. (2011)	8
ornamental		<i>Dianthus chinensis</i>		Caryophyllaceae	de Clercq and Casteels (1992); He et al. (2001)	2
ornamental		<i>Dianthus hybridus</i>		Caryophyllaceae	He et al. (2001)	1
ornamental		<i>Dianthus</i> sp.		Caryophyllaceae	Collins (1996); Kox et al. (2005); Andersen and Hofsvang (2010)	3
ornamental	Showy baby's breath	<i>Gypsophila elegans</i>		Caryophyllaceae	He et al. (2001); He et al. (2002); Valladares et al. (1999); Valladares et al. (2011)	4
ornamental		<i>Gypsophila muralis</i>		Caryophyllaceae	Kox et al. (2005)	1
ornamental		<i>Gypsophila paniculata</i>		Caryophyllaceae	Cure and Cantor 2003; He et al. (2001); Wei et al. (2000)	3
ornamental	Gypsophila	<i>Gypsophila</i> sp.		Caryophyllaceae	Andrade et al. (1989); Collins (1996); Weintraub et al. (2017); Sunderlands et al. (1992)	4
ornamental		<i>Gypsophila perfecta</i>		Caryophyllaceae	Andersen and Hofsvang (2010)	1

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
ornamental		<i>Pharbitis purpurea</i>		Convolvulaceae	He et al. (2001)	1
ornamental		<i>Euphorbia marginata</i>		Euphorbiaceae	He et al. (2001)	1
ornamental		<i>Lathyrus latifolius</i>		Fabaceae	Valladares (1984); Valladares et al. (1999); Valladares et al. (2011)	3
ornamental		<i>Lathyrus odoratus</i>		Fabaceae	He et al. (2001); Valladares (1984); Valladares et al. (1999); Valladares et al. (2011)	4
ornamental		<i>Lupin</i> sp.		Fabaceae	Collins (1996)	1
ornamental		<i>Lupinus rassel</i>	<i>Russell hybrid</i>	Fabaceae	He et al. (2001)	1
ornamental		<i>Lupinus</i> sp.		Fabaceae	Kox et al. (2005)	1
commercial		<i>Trigonella foenum-graecum</i>		Fabaceae	Andersen and Hofsvang (2010)	1
ornamental	Exacum	<i>Exacum</i> sp.		Gentianaceae	Andersen and Hofsvang (2010)	1
ornamental		<i>Exacum affine</i>		Gentianaceae	Andersen and Hofsvang (2010)	1
ornamental		<i>Eustoma grandiflorum</i>		Gentianaceae	Andersen and Hofsvang (2010)	1
ornamental		<i>Eustoma russellianum</i>		Gentianaceae	He et al. (2001); Wei et al. (2000)	2
ornamental		<i>Lisianthus</i> sp.		Gentianaceae	Collins (1996); Weintraub et al. (2017); Andersen and Hofsvang (2010)	3
ornamental		<i>Lisianthus russelianus</i>		Gentianaceae	Andersen and Hofsvang (2010)	1
ornamental		<i>Scaevola aemula</i>		Goodeniaceae	Andersen and Hofsvang (2010)	1

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
ornamental		<i>Hydrangea macrophylla</i>		Hydrangeaceae	He et al. (2001)	1
ornamental		<i>Freesia refracta</i>		Iridaceae	He et al. (2001)	1
ornamental		<i>Gladiolus hybridus</i>		Iridaceae	He et al. (2001); Wei et al. (2000)	2
Ornamental		<i>Lamium</i> sp.		Lamiaceae	Andersen and Hofsvang (2010)	1
ornamental		<i>Moluccella laevis</i>		Lamiaceae	He et al. (2001)	1
ornamental		<i>Moluccella</i> sp.		Lamiaceae	Andersen and Hofsvang (2010)	1
ornamental		<i>Salvia splendens</i>		Lamiaceae	He et al. (2001)	1
ornamental		<i>Lilium davidii</i>		Liliaceae	He et al. (2001)	1
ornamental		<i>Lilium longiflorum</i>		Liliaceae	He et al. (2001)	1
ornamental		<i>Torenia</i> sp.		Linderniaceae	Kox et al. (2005)	1
ornamental		<i>Althaea rosea</i>		Malvaceae	Korytkowski (2014)	2
ornamental		<i>Hibiscus trionum</i>		Malvaceae	He et al. (2001)	1
ornamental		<i>Godetia amoena</i>		Onagraceae	He et al. (2001)	1
ornamental		<i>Oenothera rosea</i>		Onagroideae	He et al. (2001)	1
ornamental		<i>Papaver rhoeas</i>		Papaveraceae	He et al. (2001); Salvo and Valladares (1997); Valladares (1984); Valladares et al. (1999); Valladares et al. (2011)	5
ornamental	Snapdragon	<i>Antirrhinum majus</i>		Plantaginaceae	Martin et al. (2005)	1
ornamental		<i>Limonium latifolium</i>		Plumbaginaceae	He et al. (2001)	1
ornamental		<i>Limonium tataricum</i>		Plumbaginaceae	He et al. (2001)	1
ornamental		<i>Myosotis sylvatica</i>		Plumbaginaceae	He et al. (2001)	1
ornamental		<i>Lagurus ovatus</i>		Poaceae	He et al. (2001)	1

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
ornamental		<i>Phlox drummondii</i>		Polemoniaceae	de Clercq and Casteels (1992); He et al. (2001); Salvo and Valladares (1997); Valladares (1984); Valladares et al. (1999); Valladares et al. (2011)	6
ornamental		<i>Primula acaulis</i>		Primulaceae	He et al. (2001)	1
ornamental		<i>Primula obconica</i>		Primulaceae	de Clercq and Casteels (1992); He et al. (2001); Salvo and Valladares (1997)	3
ornamental		<i>Delphinium grandiflorum</i>		Ranunculaceae	He et al. (2001)	1
ornamental		<i>Delphinium</i> sp.		Ranunculaceae	He et al. (2001)	1
ornamental		<i>Nigella damascena</i>		Ranunculaceae	He et al. (2001)	1
ornamental		<i>Ranunculus asiaticus</i>		Ranunculaceae	He et al. (2001); Valladares et al. (1996); Valladares et al. (1999); Valladares et al. (2011)	4
ornamental		<i>Ranunculus sceleratus</i>		Ranunculaceae	Wei et al. (2000)	1
ornamental		<i>Ranunculus</i> sp.		Ranunculaceae	Collins (1996)	1
ornamental		<i>Ranunculus viridis</i>		Ranunculaceae	He et al. (2001)	1
ornamental		<i>Rosa chinese</i>		Rosaceae	Wei et al. (2000)	1
ornamental		<i>Rosa</i> sp.		Rosaceae	Andersen and Hofsvang (2010)	1
ornamental		<i>Diascia</i> sp.		Scrophulariaceae	Saethre (1996); Andersen and Hofsvang (2010)	2
ornamental		<i>Nicotiana alata</i>		Solanaceae	de Clercq and Casteels (1992)	1
ornamental		<i>Petunia hybrida</i>		Solanaceae	He et al. (2001)	1

Host type	Common names	Scientific name	Variety	Family	All records (including any unverified records)	Total records
ornamental		<i>Petunia</i> sp.		Solanaceae	Collins (1996); Hincapie et al. (1993); Weintraub et al. (2017); Salvo and Valladares (1997); Valladares et al. (1999); Valladares et al. (2011)	7
ornamental		<i>Petunia</i> spp.		Solanaceae	Valladares (1984)	1
ornamental		<i>Petunia</i> spp.	hybrids	Solanaceae	de Clercq and Casteels (1992)	1
ornamental		<i>Verbena officinalis</i>		Verbenaceae	He et al. (2001)	1
ornamental		<i>Verbena</i> sp.		Verbenaceae	Collins (1996); de Clercq and Casteels (1992); Weintraub et al. (2017)	3
ornamental		<i>Viola tricolor</i>		Violaceae	Salvo and Valladares (1997); Valladares (1984); Valladares et al. (1999); Valladares et al. (2011)	4
ornamental		<i>Viola tricolor</i>	<i>vannortensis</i>	Violaceae	He et al. (2001)	1
ornamental		<i>Viola yedoensis</i>		Violaceae	He et al. (2001)	1

**Table 4.** Commercial, ornamental and non-cultivated plants with **unverified records of lifecycle completion in the field** for the serpentine leafminer (*Liriomyza huidobrensis*).

This includes all records for which no evidence was presented within the record for lifecycle completion and no evidence was shown for confident species identification, or evidence could not suitably be accessed for verification. We are not disputing the veracity of these records - we simply did not have enough information available to verify if these hosts support lifecycle completion in the field. This includes all records where:

- (1) Adults were collected by sweep netting the presumed host, but neither larval activity nor lifecycle completion was confirmed; or
- (2) A scientific name could not reliably be assumed from a reported common name; or
- (3) Collection and identification methodology were unclear or unreported; or
- (4) The record could not be accessed or suitably translated to confirm collection and identification methodology.

For some unverified species within this table, there may be other congeneric species that have been either comprehensively or partially confirmed as a host plant, and thus these would appear within Table 2 or 3. Scientific names in the table appear as they were originally cited. A number of these names are now recognised as synonyms, however for brevity, we are not reporting the currently accepted names for these taxa (refer to WorldFloraOnline.org, Australian Plant Census, or Catalogue of Life for current taxonomic decisions). For all non-cultivated plants, and asterisk after the scientific name indicates that the Atlas of Living Australia reports this species present within Australia (Atlas of Living Australia 2020). Additionally, many plants labelled as commercial and ornamental have escaped cultivation and naturalised in Australia. Records that report comprehensive confirmations of lifecycle completion are included in Table 2, while records that report only partial confirmations of lifecycle completion are included in Table 3. *Liriomyza huidobrensis* is highly polyphagous and no guarantee can be made that this list is exhaustive.

Host type	Common names	Scientific name	Variety	Family	Records
commercial		<i>Sambucus</i> sp.		Adoxaceae	Weintraub et al. (2017)
commercial		<i>Allium porrum</i>		Amaryllidaceae	Weintraub et al. (2017)
commercial		<i>Levisticum officinale</i>		Apiaceae	Weintraub et al. (2017)
commercial		<i>Petroselinum</i> sp.		Apiaceae	Hincapie et al. (1993)
commercial		<i>Asparagus officinalis</i>		Asparagaceae	Silva (1993)

Host type	Common names	Scientific name	Variety	Family	Records
commercial		<i>Cichorium intybus</i>		Asteraceae	Valladares et al. (1996); Valladares (1984); Valladares et al. (1999); Valladares et al. (2011); Weintraub et al. (2017)
commercial		<i>Cannabis sativa</i>		Cannabaceae	EPPO (2020)
commercial		<i>Humulus scandens</i>		Cannabaceae	Weintraub et al. (2017)
commercial	Common cornsalad	<i>Valerianella locusta</i>		Caprifoliaceae	CABI (2019)
commercial	Lentil	<i>Lens culinaris</i>		Fabaceae	(Koch and Waterhouse 2000)
commercial		<i>Vigna mungo</i>		Fabaceae	Weintraub et al. (2017)
non cultivated		<i>Trianthema portulacastrum*</i>		Aizoaceae	Mujica (2007)
non cultivated		<i>Alternanthera philox eroides</i>		Amaranthaceae	Weintraub et al. (2017)
non cultivated		<i>Amaranthus hybridus*</i>		Amaranthaceae	Mujica (2007)
non cultivated		<i>Chenopodium hircinum</i>		Amaranthaceae	Korytkowski (1982)
non cultivated		<i>Artemisia argyi</i>		Asteraceae	Weintraub et al. (2017)
non cultivated		<i>Carduus nutans*</i>		Asteraceae	Weintraub et al. (2017)
non cultivated		<i>Conyza bonariensis*</i>		Asteraceae	Weintraub et al. (2017)
non cultivated		<i>Eclipta prostrata*</i>		Asteraceae	Weintraub et al. (2017)
non cultivated		<i>Galinsoga urticifolia</i>		Asteraceae	Weintraub et al. (2017)
non cultivated		<i>Gnaphalium affine</i>		Asteraceae	Weintraub et al. (2017)
non cultivated		<i>Gynura crepidioides*</i>		Asteraceae	Weintraub et al. (2017)
non cultivated		<i>Schistocarpha platyphylla</i>		Asteraceae	Weintraub et al. (2017)
non cultivated		<i>Taraxacum officinale*</i>		Asteraceae	Valladares et al. (1999); Valladares et al. (2011)
non cultivated		<i>Diplotaxis muralis*</i>		Brassicaceae	Mujica (2007)
non cultivated		<i>Stellaria alsine</i>		Caryophyllaceae	Weintraub et al. (2017)

Host type	Common names	Scientific name	Variety	Family	Records
non cultivated		<i>Vaccaria pyramidata*</i>		Caryophyllaceae	Iwasaki (2004a)
non cultivated	Chipilín	<i>Crotalaria longirostrata</i>		Fabaceae	Weintraub et al. (2017)
non cultivated		<i>Streptocarpus sp.</i>		Gesneriaceae	Weintraub et al. (2017)
non cultivated		<i>Leonurus sibiricus</i>		Lamiaceae	Weintraub et al. (2017)
non cultivated		<i>Stachys arvensis*</i>		Lamiaceae	Mujica (2007)
non cultivated		<i>Alcea sp.*</i>		Malvaceae	Weintraub et al. (2017)
non cultivated	Purslane	<i>Portulaca oleracea*</i>		Portulacaceae	CABI (2019); Hincapie et al. (1993)
ornamental		<i>Oenanthe benghalensis</i>		Apiaceae	Weintraub et al. (2017)
ornamental		<i>Chrysanthemum indicum</i>		Asteraceae	EPPO (2020)
ornamental		<i>Dahlia imperialis</i>		Asteraceae	Spencer (1983)
ornamental		<i>Dendranthema x grandiflorum</i>		Asteraceae	EPPO (2020)
ornamental		<i>Helianthus annuus</i>		Asteraceae	Korytkowski (1982); Valladares et al. (1999); Valladares et al. (2011)
ornamental		<i>Leucanthemum vulgare</i>		Asteraceae	EPPO (2020)
ornamental		<i>Leucanthemum x superbum</i>		Asteraceae	EPPO (2020)
ornamental		<i>Senecio cruentus</i>		Asteraceae	Calabretta et al. 1995
ornamental		<i>Tanacetum vulgare</i>		Asteraceae	EPPO (2020)
ornamental		<i>Primula x polyanthus</i>		Primulaceae	EPPO (2020)
ornamental		<i>Ranunculus chinensis</i>		Ranunculaceae	Weintraub et al. (2017)
ornamental		<i>Ranunculus sieboldii</i>		Ranunculaceae	Weintraub et al. (2017)
ornamental		<i>Viola philippica</i>		Violaceae	Weintraub et al. (2017)

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