



NEW ZEALAND THREAT CLASSIFICATION SERIES 18

Conservation status of New Zealand Hymenoptera, 2014

Darren Ward, John Early, Franz-Rudolf Schnitzler, Rod Hitchmough, Jeremy Rolfe
and Ian Stringer



Cover: The flightless wasp *Spathius thorpei* (Data Deficient), Auckland Botanic Gardens. Photo: Lek Khauv.

New Zealand Threat Classification Series is a scientific monograph series presenting publications related to the New Zealand Threat Classification System (NZTCS). Most will be lists providing NZTCS status of members of a plant or animal group (e.g. algae, birds, spiders). There are currently 23 groups, each assessed once every 3 years. After each three-year cycle there will be a report analysing and summarising trends across all groups for that listing cycle. From time to time the manual that defines the categories, criteria and process for the NZTCS will be reviewed. Publications in this series are considered part of the formal international scientific literature.

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CONTENTS

Abstract	1
<hr/>	
1. Summary	2
<hr/>	
2. Conservation status of New Zealand Hymenoptera	6
<hr/>	
Extinct	6
Data Deficient	6
Threatened	6
Nationally Critical	6
Nationally Endangered	7
Nationally Vulnerable	7
At Risk	8
Declining	8
Recovering	8
Relict	9
Naturally Uncommon	9
Non-resident Native	9
Migrant	9
Vagrant	9
Coloniser	9
Not Threatened	10
Introduced and Naturalised	10
Qualifiers	10
3. Acknowledgements	14
<hr/>	
4. References	14
<hr/>	

Conservation status of New Zealand Hymenoptera, 2014

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Abstract

The conservation status of 154 New Zealand Hymenoptera taxa was reassessed using the New Zealand Threat Classification System (NZTCS). A full list is presented, along with a summary and brief notes on the most important changes. This list replaces all previous NZTCS lists for Hymenoptera.

Keywords: New Zealand Threat Classification System, NZTCS, conservation status, Apidae, Braconidae, Colletidae, Diapriidae, Encyrtidae, Ichneumonidae, Platygasteridae.

1. Summary

The conservation status of 154 New Zealand Hymenoptera taxa and undescribed entities (hereafter collectively referred to as taxa) known to be present in New Zealand was assessed using the New Zealand Threat Classification System (NZTCS) criteria (Townsend et al. 2008). The status of the 69 taxa that were assessed in 2010 (Ward et al. 2012) has not changed in this 2014 assessment. However, two of the taxonomically indeterminate entities assessed in 2010 have since been described, and the identity of a third, *Leioproctus launcestonensis*, has been confirmed (Table 1). This 2014 assessment considers a further 82 taxa that were not assessed by Ward et al. (2012) (Table 2). Of these, 71 are listed as Data Deficient, 1 as At Risk—Naturally Uncommon, 2 as Not Threatened, 1 as Non-resident Native—Vagrant and 8 as Introduced and Naturalised (Tables 3, 4). We include a selection of Not Threatened, Non-Native (Vagrant and Introduced and Naturalised) taxa that were not included in Ward et al. (2012). Other Hymenoptera known to be in New Zealand (taxa listed by Macfarlane et al. (2010)) have not yet been formally assessed but are provisionally considered to be either Not Threatened or Introduced and Naturalised.

Table 1. Name change affecting New Zealand Hymenoptera between the assessment in 2010 (Ward et al. 2012) and this document.

NAME IN 2010 LIST	NAME IN 2014 LIST
<i>Poecilocryptus</i> sp.1	<i>Poecilocryptus zealandicus</i> Ward, 2011
<i>Woldstedtius</i> sp.1	<i>Woldstedtius titirangiensis</i> Ward, 2013

Table 2. Taxa included in this document that were not listed in Ward et al. (2012).

NAME AND AUTHORITY	FAMILY
<i>Allostemma quadrum</i> Buhl, 2011	Platygastridae
<i>Amblyaspis breviscutellaris</i> Buhl, 2011	Platygastridae
<i>Amblyaspis pederseniana</i> Buhl, 2013	Platygastridae
<i>Amblyaspis vilhelmseni</i> Buhl, 2011	Platygastridae
<i>Apis mellifera</i> Linnaeus, 1758	Apidae
<i>Aucklandella</i> "IDG sp. 6"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 8"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 9"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 11"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 12"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 13"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 14"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 15"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 16"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 31"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 33"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 38"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 41"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 42"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 43"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 44"	Ichneumonidae
<i>Aucklandella</i> "IDG sp. 45"	Ichneumonidae
<i>Aucklandella ursula</i> (Cameron 1898)	Ichneumonidae
<i>Bombus (Megabombus) hortorum</i> (Linnaeus, 1761)	Apidae

Continued on next page

Table 2 continued

NAME AND AUTHORITY	FAMILY
<i>Bombus (Megabombus) ruderatus</i> (Fabricius, 1775)	Apidae
<i>Bombus (Subterraneobombus) subterraneus</i> (Linnaeus, 1758)	Apidae
<i>Bombus (Bombus) terrestris</i> (Linnaeus, 1758)	Apidae
<i>Ceratacis latimarginata</i> Buhl, 2011	Platygastridae
<i>Ceratacis projecta</i> Buhl, 2011	Platygastridae
<i>Ceratacis punctatovenis</i> Buhl, 2011	Platygastridae
<i>Choreopram totarae</i> Mackauer, 2012	Braconidae
<i>Dendrosotinus chathamicus</i> Belokobylskij & Austin 2013	Braconidae
<i>Goniozus musae</i> Ward, 2013	Bethylidae
<i>Ixodiphagus taiaroaensis</i> Heath & Cane 2010	Encyrtidae
<i>Kauriphanes khalaimi</i> Belokobylskij & Zaldívar 2011	Braconidae
<i>Kiwigaster variabilis</i> Fernandez-Triana & Ward 2011	Braconidae
<i>Leioproctus launcestonensis</i> (Cockerell, 1914)	Colletidae
<i>Leptacis adiaphana</i> Buhl, 2011	Platygastridae
<i>Leptacis alpina</i> Buhl, 2011	Platygastridae
<i>Leptacis arcuata</i> Buhl, 2011	Platygastridae
<i>Leptacis brachyptera</i> Buhl, 2013	Platygastridae
<i>Leptacis claviger</i> Buhl, 2011	Platygastridae
<i>Leptacis dolichoptera</i> Buhl, 2013	Platygastridae
<i>Leptacis fuscalata</i> Buhl, 2011	Platygastridae
<i>Leptacis grandiclava</i> Buhl, 2011	Platygastridae
<i>Leptacis microalata</i> Buhl, 2011	Platygastridae
<i>Leptacis moa</i> Buhl, 2011	Platygastridae
<i>Leptacis pallidipetiolata</i> Buhl, 2011	Platygastridae
<i>Leptacis recticauda</i> Buhl, 2011	Platygastridae
<i>Leptacis schomannae</i> Buhl, 2013	Platygastridae
<i>Leptacis vicina</i> Buhl, 2011	Platygastridae
<i>Megachile (Eutrichaeeaea) rotundata</i> (Fabricius, 1758)	Megachilidae
<i>Metanopedias novaezealandiae</i> Buhl, 2011	Platygastridae
<i>Moaxiphia gourlayi</i> Ward & Goulet, 2011	Xiphydriidae
New genus 'G' species 'k'	Ichneumonidae
<i>Nomia (Acnomia) melanderi</i> Cockerell, 1906	Halictidae
<i>Osmia (Helicosmia) coerulescens</i> (Latreille, 1758)	Megachilidae
<i>Parascleroderma azevedonis</i> Ward, 2013	Bethylidae
<i>Pantolytomyia insularis</i> Naumann, 1988	Diapriidae
<i>Piestopleura rubripes</i> Buhl, 2011	Platygastridae
<i>Platygaster ater</i> Buhl, 2011	Platygastridae
<i>Platygaster fuscalis</i> Buhl, 2011	Platygastridae
<i>Platygaster novaezealandiae</i> Buhl, 2011	Platygastridae
<i>Platygaster politiceps</i> Buhl, 2013	Platygastridae
<i>Platygaster solodovnikovi</i> Buhl, 2011	Platygastridae
<i>Platygaster tuberculatrix</i> Buhl, 2011	Platygastridae
<i>Shireplitis bilboi</i> Fernandez-Triana & Ward 2014	Braconidae
<i>Shireplitis frodoi</i> Fernandez-Triana & Ward 2014	Braconidae
<i>Shireplitis meriadoci</i> Fernandez-Triana & Ward 2014	Braconidae
<i>Shireplitis peregrini</i> Fernandez-Triana & Ward 2014	Braconidae
<i>Shireplitis samwisei</i> Fernandez-Triana & Ward 2014	Braconidae
<i>Shireplitis tolkienii</i> Fernandez-Triana & Ward 2014	Braconidae
<i>Sierola gilbertae</i> Ward, 2013	Bethylidae
<i>Sierola vibrissata</i> Ward, 2013	Bethylidae
<i>Spathius thorpei</i> Belokobylskij & Austin 2013	Braconidae

Continued on next page

Table 2 continued

NAME AND AUTHORITY	FAMILY
<i>Strumigenys xenos</i> Brown, 1955	Formicidae
<i>Synopeas novaezealandiae</i> Buhl, 2011	Platygastridae
<i>Woldstedtius gauldus</i> Ward, 2013	Ichneumonidae
<i>Woldstedtius dundasius</i> Ward, 2013	Ichneumonidae
<i>Zelandonota bidentata</i> Buhl, 2011	Platygastridae
<i>Zelandonota dorsipunctata</i> Buhl, 2011	Platygastridae
<i>Zelandonota rufiscutum</i> Buhl, 2011	Platygastridae
<i>Zelandonota vilhelmseni</i> Buhl, 2011	Platygastridae
<i>Zelostemma altipetiolata</i> Buhl, 2011	Platygastridae
<i>Zelostemma dromedarium</i> Buhl, 2011	Platygastridae

Table 3. Statistical summary of the status of New Zealand Hymenoptera taxa assessed in 2010 (Ward et al. 2012) and 2014 (this document).

CATEGORY	WARD ET AL. (2012)	THIS DOCUMENT
Data Deficient	47	118
Threatened—Nationally Critical	2	2
At Risk—Naturally Uncommon	20	21
Non-resident Native—Vagrant	0	1
Not Threatened	0	3
Introduced and Naturalised	0	9
Total	69	154

Table 4. Comparison of conservation status changes within each category of New Zealand Hymenoptera between 2010 (Ward et al. 2012) and 2014 (this document).

CONSERVATION STATUS	TOTAL	2010 Data Deficient	2010 Introduced & Naturalised	2010 Nationally Critical	2010 Declining	2010 Naturally Uncommon	2010 Not Threatened	2010 Vagrant	2010 Not listed
2014 DATA DEFICIENT	118	47							71
Taxonomically determinate	89	36							53
Taxonomically indeterminate	29	11							18
2014 THREATENED	2			2					
2014 Nationally Critical	2			2					
Taxonomically determinate	2			2					
2014 AT RISK	21				2	18			1
2014 Declining	2				2	18			
Taxonomically determinate	1				1	16			
Taxonomically indeterminate	1				1	2			
2014 Naturally Uncommon	19								1
Taxonomically determinate	17								1
Taxonomically indeterminate	2								1
2014 NON-RESIDENT NATIVE								1	
2014 Vagrant	1							1	
Taxonomically determinate	1							1	
2014 NOT THREATENED	3						1		2
Taxonomically determinate	3						1		2
2014 INTRODUCED AND NATURALISED	9		1						8
Taxonomically determinate	9		1						8
TOTAL	154	47	1	2	2	18	1	1	82

2. Conservation status of New Zealand Hymenoptera

Taxa are assessed according to the criteria of Townsend et al. (2008), grouped by conservation status, then alphabetically by scientific name. Taxa are presented in two lists: taxonomically determinate (taxa that have been formally described and are accepted as valid, Table 5) and taxonomically indeterminate (formally described taxa whose taxonomic status is uncertain and requires further investigation, and also possibly distinct Hymenoptera whose taxonomic status has yet to be determined, Table 6).

The relevant assessment criteria and Qualifiers are also listed for each taxon. For non-endemic species that are threatened internationally, the IUCN category is listed alongside the NZTCS listing.

Categories are ordered by degree of loss, with Extinct at the top of the list and Not Threatened at the bottom, above Introduced and Naturalised. The Data Deficient list is inserted between Extinct and Threatened. Although the true status of Data Deficient taxa will span the entire range of available categories, taxa are in that list mainly because they are very seldom seen, so most are likely to end up being considered threatened and some may already be extinct. The Data Deficient list is likely to include many of the most threatened species in New Zealand.

Extinct

Taxa for which there is no reasonable doubt—following repeated surveys in known or expected habitats at appropriate times (diurnal, seasonal and annual) and throughout the taxon's historic range—that the last individual has died.

Taxonomically determinate: 0

Taxonomically indeterminate: 0

Data Deficient

Taxa that are suspected to be threatened or, in some instances, possibly extinct but are not definitely known to belong to any particular category due to a lack of current information about their distribution and abundance. It is hoped that listing such taxa will stimulate research to find out the true category (for a more detailed definition see Townsend et al. 2008).

Taxonomically determinate: 89

Taxonomically indeterminate: 29

Threatened

Taxa that meet the criteria specified by Townsend et al. (2008) for the categories Nationally Critical, Nationally Endangered and Nationally Vulnerable.

Nationally Critical

Criteria for Nationally Critical:

A—very small population (natural or unnatural)

A(1) <250 mature individuals, regardless of cause

A(2) ≤2 subpopulations, ≤200 mature individuals in the larger subpopulation

A(3) Total area of occupancy ≤1 ha (0.01 km²)

B—small population (natural or unnatural) with a high ongoing or predicted decline

B(1/1) 250–1000 mature individuals, predicted decline 50–70%

B(2/1) ≤5 subpopulations, ≤300 mature individuals in the largest subpopulation, predicted decline 50–70%

B(3/1) Total area of occupancy ≤10 ha (0.1 km²), predicted decline 50–70%

C—population (irrespective of size or number of subpopulations) with a very high ongoing or predicted decline (>70%)

C Predicted decline >70%

Taxonomically determinate: 2

Taxonomically indeterminate: 0

Nationally Endangered

Criteria for Nationally Endangered:

A—small population (natural or unnatural) that has a low to high ongoing or predicted decline

A(1/1) 250–1000 mature individuals, predicted decline 10–50%

A(2/1) ≤5 subpopulations, ≤300 mature individuals in the largest subpopulation, predicted decline 10–50%

A(3/1) Total area of occupancy ≤10 ha (0.1 km²), predicted decline 10–50%

B—small stable population (unnatural)

B(1/1) 250–1000 mature individuals, stable population

B(2/1) ≤5 subpopulations, ≤300 mature individuals in the largest subpopulation, stable population

B(3/1) Total area of occupancy ≤10 ha (0.1 km²), stable population

C—moderate population and high ongoing or predicted decline

C(1/1) 1000–5000 mature individuals, predicted decline 50–70%

C(2/1) ≤15 subpopulations, ≤500 mature individuals in the largest subpopulation, predicted decline 50–70%

C(3/1) Total area of occupancy ≤100 ha (1 km²), predicted decline 50–70%

Taxonomically determinate: 0

Taxonomically indeterminate: 0

Nationally Vulnerable

Criteria for Nationally Vulnerable:

A—small, increasing population (unnatural)

A(1/1) 250–1000 mature individuals, predicted increase >10%

A(2/1) ≤5 subpopulations, ≤300 mature individuals in the largest subpopulation, predicted increase >10%

A(3/1) Total area of occupancy ≤10 ha (0.1 km²), predicted increase >10%

B—moderate, stable population (unnatural)

B(1/1) 1000–5000 mature individuals, stable population

B(2/1) ≤15 subpopulations, ≤500 mature individuals in the largest subpopulation, stable population

B(3/1) Total area of occupancy ≤100 ha (1 km²), stable population

C—moderate population, with population trend that is declining

C(1/1) 1000–5000 mature individuals, predicted decline 10–50%

C(2/1) ≤15 subpopulations, ≤500 mature individuals in the largest subpopulation, predicted decline 10–50%

C(3/1) Total area of occupancy ≤100 ha (1 km²), predicted decline 10–50%

D—moderate to large population, and moderate to high ongoing or predicted decline

D(1/1) 5000–20 000 mature individuals, predicted decline 30–70%

D(2/1) ≤15 subpopulations and ≤1000 mature individuals in the largest subpopulation, predicted decline 30–70%

D(3/1) Total area of occupancy ≤1000 ha (10 km²), predicted decline 30–70%

E—large population, and high ongoing or predicted decline

E(1/1) 20 000–100 000 mature individuals, predicted decline 50–70%

E(2/1) Total area of occupancy ≤10 000 ha (100 km²), predicted decline 50–70%

Taxonomically determinate: 0

Taxonomically indeterminate: 0

At Risk

Taxa that meet the criteria specified by Townsend et al. (2008) for Declining, Recovering, Relict and Naturally Uncommon.

Declining

Criteria for Declining:

A—moderate to large population and low ongoing or predicted decline

A(1/1) 5000–20000 mature individuals, predicted decline 10–30%

A(2/1) Total area of occupancy ≤1000 ha (10 km²), predicted decline 10–30%

B—large population and low to moderate ongoing or predicted decline

B(1/1) 20 000–100 000 mature individuals, predicted decline 10–50%

B(2/1) Total area of occupancy ≤10 000 ha (100 km²), predicted decline 10–50%

C—very large population and low to high ongoing or predicted decline

C(1/1) >100 000 mature individuals, predicted decline 10–70%

C(2/1) Total area of occupancy >10 000 ha (100 km²), predicted decline 10–70%

Taxonomically determinate: 0

Taxonomically indeterminate: 0

Recovering

Taxa that have undergone a documented decline within the last 1000 years and now have an ongoing or predicted increase of >10% in the total population or area of occupancy, taken over the next 10 years or three generations, whichever is longer. Note that such taxa that are increasing but have a population size of <1000 mature individuals (or total area of occupancy of <10 ha) are listed in one of the Threatened categories, depending on their population size (for more details see Townsend et al. (2008)).

Criteria for Recovering:

A 1000–5000 mature individuals or total area of occupancy ≤100 ha (1 km²), and predicted increase >10%

B 5000–20 000 mature individuals or total area of occupancy ≤ 1000 ha (10 km^2),
and predicted increase $>10\%$

Taxonomically determinate: 0

Taxonomically indeterminate: 0

Relict

Taxa that have undergone a documented decline within the last 1000 years and now occupy $< 10\%$ of their former range and meet one of the following criteria:

A 5000–20 000 mature individuals; population stable ($\pm 10\%$)

B $>20 000$ mature individuals; population stable or increasing at $>10\%$.

The range of a relictual taxon takes into account the area currently occupied as a ratio of its former extent. Relict can also include taxa that exist as reintroduced and self-sustaining populations within or outside their former known range (for more details see Townsend et al. 2008).

Taxonomically determinate: 0

Taxonomically indeterminate: 0

Naturally Uncommon

Taxa whose distribution is confined to a specific geographical area or which occur within naturally small and widely scattered populations, where this distribution is not the result of human disturbance.

Taxonomically determinate: 18

Taxonomically indeterminate: 3

Non-resident Native

Taxa whose natural presence in New Zealand is either discontinuous (Migrant) or sporadic or temporary (Vagrant) or which have succeeded in recently (since 1950) establishing a resident breeding population (Coloniser).

Migrant

Taxa that predictably and cyclically visit New Zealand as part of their normal life cycle (a minimum of 15 individuals known or presumed to visit per annum) but do not breed here.

Taxonomically determinate: 0

Taxonomically indeterminate: 0

Vagrant

Taxa whose occurrences, though natural, are sporadic and typically transitory, or migrants with fewer than 15 individuals visiting New Zealand per annum.

Taxonomically determinate: 0

Taxonomically indeterminate: 1

Coloniser

Taxa that otherwise trigger Threatened categories because of small population size, but have arrived in New Zealand without direct or indirect help from humans and have been successfully reproducing in the wild only since 1950.

Taxonomically determinate: 0

Taxonomically indeterminate: 0

Not Threatened

Resident native taxa that have large, stable populations.

Taxonomically determinate: 3

Taxonomically indeterminate: 0

Introduced and Naturalised

Taxa that have become naturalised in the wild after being deliberately or accidentally introduced into New Zealand by human agency.

Taxonomically determinate: 9

Taxonomically indeterminate: 0

Qualifiers

See Townsend et al. (2008) for details of criteria and qualifiers, which are abbreviated as follows:

- CD Conservation Dependent
- De Designated
- DP Data Poor
- EF Extreme Fluctuations
- EW Extinct in the Wild
- IE Island Endemic
- Inc Increasing
- OL One Location
- PD Partial Decline
- RF Recruitment Failure
- RR Range Restricted
- SO Secure Overseas
- Sp Sparse
- St Stable
- TO Threatened Overseas

Table 5. Conservation status of taxonomically determinate Hymenoptera species.

NAME AND AUTHORITY	FAMILY	CATEGORY	CRITERIA	QUALIFIERS
<i>Adelencyrtoides palustris</i> Noyes, 1988	Encyrtidae	Data Deficient		OL
<i>Adelencyrtoides tridens</i> Noyes, 1988	Encyrtidae	Data Deficient		
<i>Allostemma quadrum</i> Buhl, 2011	Platygastridae	Data Deficient		RR
<i>Amblyaspis breviscutellaris</i> Buhl, 2011	Platygastridae	Data Deficient		Sp
<i>Amblyaspis pederseniana</i> Buhl, 2013	Platygastridae	Data Deficient		OL
<i>Amblyaspis vilhelmseni</i> Buhl, 2011	Platygastridae	Data Deficient		Sp
<i>Anagyrus cyrenis</i> (Noyes, 1988)	Encyrtidae	Data Deficient		OL
<i>Archaeoteleia waipoua</i> Early, 2007	Platygastridae	Data Deficient		OL
<i>Ascogaster mayae</i> Walker & Huddleston, 1987	Braconidae	Data Deficient		Sp
<i>Aucklandella ursula</i> (Cameron 1898)	Ichneumonidae	Data Deficient		Sp
<i>Austrotoxeuma kuscheli</i> Bouček, 1988	Perilampidae	Data Deficient		RR
<i>Betyla karamaea</i> Naumann, 1988	Diapriidae	Data Deficient		
<i>Betyla midas</i> Naumann, 1988	Diapriidae	Data Deficient		
<i>Betyla paparoa</i> Naumann, 1988	Diapriidae	Data Deficient		
<i>Betyla thegalea</i> Naumann, 1988	Diapriidae	Data Deficient		

Continued on next page

Table 5 continued

NAME AND AUTHORITY	FAMILY	CATEGORY	CRITERIA	QUALIFIERS
<i>Ceratacis latimarginata</i> Buhl, 2011	Platygastridae	Data Deficient		Sp
<i>Ceratacis projecta</i> Buhl, 2011	Platygastridae	Data Deficient		Sp
<i>Ceratacis punctatoventis</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Chaenusa helmerei</i> Berry, 2007	Braconidae	Data Deficient		OL
<i>Cheiloneurus antipodis</i> Noyes, 1988	Encyrtidae	Data Deficient		
<i>Chorebus paranigricapitis</i> Berry, 2007	Braconidae	Data Deficient		OL
<i>Chorebus thorpei</i> Berry, 2007	Braconidae	Data Deficient		
<i>Choreopram totarae</i> Mackauer, 2012	Braconidae	Data Deficient		Sp
<i>Copidosoma exvallis</i> Noyes, 1988	Encyrtidae	Data Deficient		OL
<i>Cryptoxilos thorpei</i> Shaw & Berry, 2005	Braconidae	Data Deficient		
<i>Dendrosotinus chathamicus</i> Belokobylskij & Austin, 2013	Braconidae	Data Deficient		IE, OL
<i>Dinotrema barrattae</i> Berry, 2007	Braconidae	Data Deficient		Sp
<i>Goniozus musae</i> Ward, 2013	Bethylidae	Data Deficient		RR
<i>Hylaeus murihiku</i> Donovan, 2007	Colletidae	Data Deficient		OL
<i>Ixodiphagus taiaroaensis</i> Heath & Cane, 2010	Encyrtidae	Data Deficient		OL
<i>Kauriphanes khalaimi</i> Belokobylskij & Zaldivar, 2011	Braconidae	Data Deficient		RR
<i>Kiwigaster variabilis</i> Fernandez-Triana & Ward, 2011	Braconidae	Data Deficient		Sp
<i>Leptacis adiaphana</i> Buhl, 2011	Platygastridae	Data Deficient		RR
<i>Leptacis alpina</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Leptacis arcuata</i> Buhl, 2011	Platygastridae	Data Deficient		Sp
<i>Leptacis brachyptera</i> Buhl, 2013	Platygastridae	Data Deficient		OL
<i>Leptacis claviger</i> Buhl, 2011	Platygastridae	Data Deficient		Sp
<i>Leptacis dolichoptera</i> Buhl, 2013	Platygastridae	Data Deficient		OL
<i>Leptacis fuscalata</i> Buhl, 2011	Platygastridae	Data Deficient		Sp
<i>Leptacis grandiclava</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Leptacis microalata</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Leptacis moa</i> Buhl, 2011	Platygastridae	Data Deficient		RR
<i>Leptacis pallidipetiolata</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Leptacis recticauda</i> Buhl, 2011	Platygastridae	Data Deficient		Sp
<i>Leptacis schomannae</i> Buhl, 2013	Platygastridae	Data Deficient		OL
<i>Leptacis vicina</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Metanopedias novaezealandiae</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Metaphycus reductor</i> Noyes, 1988	Encyrtidae	Data Deficient		OL
<i>Metaspathius apterus</i> Brues, 1922	Braconidae	Data Deficient		
<i>Meteorus annettae</i> Huddleston, 1986	Braconidae	Data Deficient		
<i>Oxyserphus baini</i> Townes, 1981	Proctotrupidae	Data Deficient		OL
<i>Pantolytomyia polita</i> Naumann, 1988	Diapriidae	Data Deficient		
<i>Parabetyla ngarara</i> Naumann, 1988	Diapriidae	Data Deficient		OL
<i>Parabetyla pipira</i> Naumann, 1988	Diapriidae	Data Deficient		
<i>Parabetyla pokorua</i> Naumann, 1988	Diapriidae	Data Deficient		
<i>Parabetyla spinosa</i> Brues, 1922	Diapriidae	Data Deficient		
<i>Parabetyla tahi</i> Naumann, 1988	Diapriidae	Data Deficient		
<i>Parascleroderma azevedonis</i> Ward, 2013	Bethylidae	Data Deficient		OL
<i>Piestopleura rubripes</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Platygaster ater</i> Buhl, 2011	Platygastridae	Data Deficient		Sp
<i>Platygaster fuscalis</i> Buhl, 2011	Platygastridae	Data Deficient		RR
<i>Platygaster novaezealandiae</i> Buhl, 2011	Platygastridae	Data Deficient		Sp
<i>Platygaster politiceps</i> Buhl, 2013	Platygastridae	Data Deficient		OL
<i>Platygaster solodovnikovi</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Platygaster tuberculatrix</i> Buhl, 2011	Platygastridae	Data Deficient		OL

Continued on next page

Table 5 continued

NAME AND AUTHORITY	FAMILY	CATEGORY	CRITERIA	QUALIFIERS
<i>Rhyssaloides ambeodonti</i> (Muesebeck, 1941)	Braconidae	Data Deficient		OL
<i>Rhyssaloides antipoda</i> Belokobylskij, 1999	Braconidae	Data Deficient		OL
<i>Rotoita basalis</i> Bou ek & Noyes, 1987	Rotoitidae	Data Deficient		Sp
<i>Sciron enolae</i> Berry, 1990	Ichneumonidae	Data Deficient		Sp
<i>Shireplitis bilboi</i> Fernandez-Triana & Ward, 2014	Braconidae	Data Deficient		RR
<i>Shireplitis frodoi</i> Fernandez-Triana & Ward, 2014	Braconidae	Data Deficient		RR
<i>Shireplitis meriadoci</i> Fernandez-Triana & Ward, 2014	Braconidae	Data Deficient		OL
<i>Shireplitis peregrini</i> Fernandez-Triana & Ward, 2014	Braconidae	Data Deficient		OL
<i>Shireplitis samwisei</i> Fernandez-Triana & Ward, 2014	Braconidae	Data Deficient		OL
<i>Shireplitis tolkieni</i> Fernandez-Triana & Ward, 2014	Braconidae	Data Deficient		OL
<i>Sierola gilbertae</i> Ward, 2013	Bethylidae	Data Deficient		OL
<i>Sierola vibrissata</i> Ward, 2013	Bethylidae	Data Deficient		OL
<i>Spathius thorpei</i> Belokobylskij & Austin, 2013	Braconidae	Data Deficient		OL
<i>Synopeas novaezealandiae</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Woldstedtius titirangiensis</i> Ward, 2013	Ichneumonidae	Data Deficient		RR
<i>Zealachertus aspirensis</i> Berry, 1999	Eulophidae	Data Deficient		OL
<i>Zealachertus bildiri</i> Berry, 1999	Eulophidae	Data Deficient		Sp
<i>Zelandonota bidentata</i> Buhl, 2011	Platygastridae	Data Deficient		Sp
<i>Zelandonota dorsipunctata</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Zelandonota rufiscutum</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Zelandonota vilhelmseni</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Zelencyrtus latifrons</i> Noyes, 1988	Encyrtidae	Data Deficient		OL
<i>Zelostemma altipetiolata</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Zelostemma dromedarium</i> Buhl, 2011	Platygastridae	Data Deficient		OL
<i>Gasteruption scintillans</i> Pasteels, 1957	Gasteruptionidae	Nationally Critical	A(1)	DP, OL
<i>Leioproctus nunui</i> Donovan, 2007	Colletidae	Nationally Critical	A(2)	DP, RR
<i>Aleoides gressitti</i> (Muesebeck, 1964)	Braconidae	At Risk—Naturally Uncommon		IE, RR
<i>Antarctopria campbellana</i> Yoshimodo 1964	Diapriidae	At Risk—Naturally Uncommon		IE, OL
<i>Antarctopria diomedea</i> Early, 1978	Diapriidae	At Risk—Naturally Uncommon		IE, OL
<i>Antarctopria rekohua</i> Early, 1978	Diapriidae	At Risk—Naturally Uncommon		IE, OL
<i>Aucklandella flavomaculata</i> Cameron, 1909	Ichneumonidae	At Risk—Naturally Uncommon		IE, OL
<i>Entomacis subaptera</i> Early, 1980	Diapriidae	At Risk—Naturally Uncommon		IE, OL
<i>Eucerus coxalis</i> Barron, 1978	Ichneumonidae	At Risk—Naturally Uncommon		Sp
<i>Eupelmus antipoda</i> Ashmead, 1900	Eupelmidae	At Risk—Naturally Uncommon		
<i>Gladicauda aucklandica</i> Early, 1980	Diapriidae	At Risk—Naturally Uncommon		IE, OL
<i>Glyptapanteles aucklandensis</i> (Cameron, 1909)	Braconidae	At Risk—Naturally Uncommon		IE, OL
<i>Hylaeus kermadecensis</i> Donovan 2007	Colletidae	At Risk—Naturally Uncommon		IE, RR
<i>Leioproctus keehua</i> Donovan 2007	Colletidae	At Risk—Naturally Uncommon		Sp
<i>Malvina insulae</i> Early, 1980	Diapriidae	At Risk—Naturally Uncommon		IE, OL
<i>Meteorus cobbus</i> Huddleston, 1986	Braconidae	At Risk—Naturally Uncommon		DP, Sp
<i>Moaxiphia gourlayi</i> Ward & Goulet, 2011	Xiphydriidae	At Risk—Naturally Uncommon		Sp
<i>Spilomicrus carolae</i> Early, 1980	Diapriidae	At Risk—Naturally Uncommon		IE, OL
<i>Spilomicrus pilgrimi</i> Early, 1978	Diapriidae	At Risk—Naturally Uncommon		IE, OL
<i>Stylaclista quasimodo</i> Early, 1980	Diapriidae	At Risk—Naturally Uncommon		IE, OL
<i>Pantolytomyia insularis</i> Naumann, 1988	Diapriidae	Not Threatened		
<i>Woldstedtius gauldus</i> Ward, 2013	Ichneumonidae	Not Threatened		
<i>Woldstedtius dundasius</i> Ward, 2013	Ichneumonidae	Not Threatened		
<i>Apis mellifera</i> Linnaeus, 1758	Apidae	Introduced and naturalised		
<i>Bombus (Bombus) terrestris</i> (Linnaeus, 1758)	Apidae	Introduced and naturalised		
<i>Bombus (Megabombus) hortorum</i> (Linnaeus, 1761)	Apidae	Introduced and naturalised		

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Table 5 continued

NAME AND AUTHORITY	FAMILY	CATEGORY	CRITERIA	QUALIFIERS
<i>Bombus (Megabombus) ruderatus</i> (Fabricius, 1775)	Apidae	Introduced and naturalised		
<i>Bombus (Subterraneobombus) subterraneus</i> (Linnaeus, 1758)	Apidae	Introduced and naturalised		
<i>Megachile (Eutrichaeeaea) rotundata</i> (Fabricius, 1758)	Megachilidae	Introduced and naturalised		
<i>Nomia (Acunomia) melanderi</i> Cockerell, 1906	Halictidae	Introduced and naturalised		
<i>Osmia (Helicosmia) coerulescens</i> (Latreille, 1758)	Megachilidae	Introduced and naturalised		
<i>Strumigenys xenos</i> Brown, 1955	Formicidae	Introduced and Naturalised		

Table 6. Conservation status of taxonomically indeterminate Hymenoptera species.

NAME AND AUTHORITY	FAMILY	CATEGORY	CRITERIA	QUALIFIERS
<i>Betyla</i> "P75"	Diapriidae	Data Deficient		
<i>Betyla</i> "P76"	Diapriidae	Data Deficient		
<i>Betyla</i> "P77"	Diapriidae	Data Deficient		
<i>Betyla</i> "P78"	Diapriidae	Data Deficient		
<i>Betyla</i> "P79"	Diapriidae	Data Deficient		
New Genus_B sp.1	Ichneumonidae	Data Deficient		OL
New Genus_C sp.1	Ichneumonidae	Data Deficient		OL
New Genus_D sp.1	Ichneumonidae	Data Deficient		OL
<i>Parabetyla</i> "P94"	Diapriidae	Data Deficient		
<i>Parabetyla</i> "P95"	Diapriidae	Data Deficient		
<i>Poecilocryptus zealandicus</i> Ward, 2011	Ichneumonidae	Data Deficient		OL
<i>Aucklandella</i> "IDG sp. 11"	Ichneumonidae	Data Deficient		Sp
<i>Aucklandella</i> "IDG sp. 12"	Ichneumonidae	Data Deficient		OL
<i>Aucklandella</i> "IDG sp. 13"	Ichneumonidae	Data Deficient		OL
<i>Aucklandella</i> "IDG sp. 14"	Ichneumonidae	Data Deficient		OL
<i>Aucklandella</i> "IDG sp. 15"	Ichneumonidae	Data Deficient		OL
<i>Aucklandella</i> "IDG sp. 16"	Ichneumonidae	Data Deficient		OL
<i>Aucklandella</i> "IDG sp. 31"	Ichneumonidae	Data Deficient		OL
<i>Aucklandella</i> "IDG sp. 33"	Ichneumonidae	Data Deficient		OL
<i>Aucklandella</i> "IDG sp. 38"	Ichneumonidae	Data Deficient		OL
<i>Aucklandella</i> "IDG sp. 41"	Ichneumonidae	Data Deficient		OL
<i>Aucklandella</i> "IDG sp. 42"	Ichneumonidae	Data Deficient		OL
<i>Aucklandella</i> "IDG sp. 43"	Ichneumonidae	Data Deficient		OL
<i>Aucklandella</i> "IDG sp. 44"	Ichneumonidae	Data Deficient		OL
<i>Aucklandella</i> "IDG sp. 45"	Ichneumonidae	Data Deficient		OL
<i>Aucklandella</i> "IDG sp. 6"	Ichneumonidae	Data Deficient		Sp
<i>Aucklandella</i> "IDG sp. 8"	Ichneumonidae	Data Deficient		RR
<i>Aucklandella</i> "IDG sp. 9"	Ichneumonidae	Data Deficient		OL
New Genus_G sp. 'k'	Ichneumonidae	Data Deficient		OL
<i>Gasteruption</i> spp.	Gasteruptionidae	At Risk—Naturally Uncommon		DP, Sp
New Genus_A sp.1	Ichneumonidae	At Risk—Naturally Uncommon		IE, OL
<i>Podagrion</i> sp.1	Torymidae	At Risk—Naturally Uncommon		
<i>Leioproctus launcestonensis</i> (Cockerell, 1914)	Colletidae	Non-resident Native—Vagrant		

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