



NEW ZEALAND THREAT CLASSIFICATION SERIES 28

Conservation status of New Zealand freshwater invertebrates, 2018

N. Grainger, J. Harding, T. Drinan, K. Collier, B. Smith, R. Death, T. Makan and J. Rolfe



Cover: Tadpole shrimp, *Lepidurus viridis*. Photo: Mike Thorsen (ERA Ecology)

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), each assessed once every 5 years. 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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Conservation status of New Zealand freshwater invertebrates, 2018

N. Grainger¹, J. Harding², T. Drinan¹, K. Collier³, B. Smith⁴, R. Death⁵, T. Makan⁶ and J. Rolfe⁶

¹ Biodiversity Group, Department of Conservation, Private Bag 3072, Hamilton 3240, New Zealand

² School of Biological Sciences, University of Canterbury, Private Bag 4800, Christchurch 8140, New Zealand

³ School of Science, University of Waikato, Private Bag 3105, Hamilton 3240, New Zealand

⁴ National Institute of Water and Atmospheric Research, PO Box 11115, Hillcrest, Hamilton, New Zealand

⁵ School of Agriculture and Environment, Massey University, Private Bag 11 222, Palmerston North 4442, New Zealand

⁶ Biodiversity Group, Department of Conservation, PO Box 10420 Wellington 6143, New Zealand

Abstract

The conservation status of 675 New Zealand freshwater invertebrate taxa was assessed using the New Zealand Threat Classification System (NZTCS). A full list is presented, along with a statistical summary and brief notes on the most important changes. This list replaces all previous NZTCS lists for freshwater invertebrates.

Keywords: New Zealand Threat Classification System, NZTCS, conservation status, Hydrobiosidae, Gripopterygidae, Hydrobiidae, Leptophlebiidae, Hydraenidae, beetle, caddisfly, mayfly, stonefly, snail

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1. Summary

In 2013, Grainger et al. (2104) assessed the conservation status of 636 freshwater invertebrate taxa using the criteria specified in the New Zealand Threat Classification System (NZTCS) manual (Townsend et al. 2018). The assessment data for all taxa is available at www.nztc.org.nz/#/reports/1071. Here we report on a new assessment of 675 freshwater invertebrates that includes 633 of the taxa that Grainger et al. (2014) assessed, two *Rhantus* species (*R. plantaris* and *R. schauinslandi*) that were previously assessed by Leschen et al. (2012), and 40 that have been assessed for the first time (Table 1). Three of the taxa that were assessed by Grainger et al. (2014) are not included in this report: (i) the caddisfly *Coloburiscus tonnori* (now considered to be conspecific with *C. humeralis*); (ii) the mayfly *Oniscigaster intermedius* (previously described from a single female with no other specimens found, now thought to be a synonym of either *O. distans* or *O. wakefieldi*); and (iii) an ‘Undescribed genus flatworm’ (now treated as taxonomically indistinct because the panel could find no evidence to support its inclusion as a distinct taxon).

The names of five taxa have changed in this report (Table 2). The waterflea *Daphnia carinata* has been synonymised with *D. thomsoni*, the dragonfly *Hemianax papuensis* has been restored to the genus *Anax*, and three previously undescribed taxa now have formal names (*Daphnia tewaipounamu*, *Hydora musci*, and *Rallidens platyodontis*).

Table 1. Freshwater invertebrate species assessed for the first time in this report.

SPECIES NAME	FAMILY NAME	COMMON NAME
<i>Agraptocorixa hirtifrons</i> (Hale, 1922)	Corixidae	water boatman
<i>Anisops assimilis</i> White, 1878	Notonectidae	backswimmer
<i>Anisops wakefieldi</i> White, 1878	Notonectidae	backswimmer
<i>Aoteasalda maculipennis</i> (Cobben, 1961)	Saldidae	shore bug
<i>Deleatidium (Deleatidium)</i> “lyellensis”	Leptophlebiidae	mayfly
<i>Deleatidium (Deleatidium)</i> “rakiura”	Leptophlebiidae	mayfly
<i>Deleatidium (Deleatidium)</i> acerbum Hitchings & Hitchings, 2016	Leptophlebiidae	mayfly
<i>Deleatidium (Deleatidium)</i> kawatiri Hitchings & Hitchings, 2016	Leptophlebiidae	mayfly
<i>Diaprepocoris zealandiae</i> Hale, 1924	Corixidae	water boatman
<i>Euchordodes nigromaculatus</i> Poinar, 1991	Chordodidae	Gordian worm
<i>Gordionus maori</i> Yadav, Tobias and Schmidt-Rhaesa, 2018	Chordodidae	Gordian worm
<i>Gordius</i> sp. 1	Gordiidae	Gordian worm
<i>Gordius dimorphis</i> Poinar, 1991	Gordiidae	Gordian worm
<i>Gordius paranensis</i> Camerano, 1892	Gordiidae	Gordian worm
<i>Hydrometra strigosa</i> (Skuse, 1893)	Hydrometridae	water measurer
<i>Kiwisaldula butleri</i> (White, 1878)	Saldidae	shore bug
<i>Kiwisaldula hurunui</i> Larivière and Larochele, 2017	Saldidae	shore bug
<i>Kiwisaldula laelaps</i> (White, 1878)	Saldidae	shore bug
<i>Kiwisaldula manawatawhi</i> Larivière & Larochele, 2016	Saldidae	shore bug
<i>Kiwisaldula parvula</i> (Cobben, 1961)	Saldidae	shore bug
<i>Kiwisaldula porangahau</i> Larivière & Larochele, 2016	Saldidae	shore bug
<i>Kiwisaldula stoneri</i> (Drake & Hoberlandt, 1950)	Saldidae	shore bug
<i>Kiwisaldula waiho</i> Larivière and Larochele, 2017	Saldidae	shore bug
<i>Mesovelgia hackeri</i> Harris & Drake, 1941	Mesoveliidae	water treader
<i>Microvelgia (Pacifiovelgia) macgregori</i> (Kirkaldy, 1899)	Veliidae	water strider
<i>Mniovelgia kuscheli</i> Andersen & Polhemus, 1980	Mesoveliidae	water treader
<i>Nesameletus</i> “Fiordland”	Nesameletidae	mayfly
<i>Parachordodes diblastus</i> (Orley, 1981)	Chordodidae	Gordian worm
<i>Sigara (Tropocorixa) arguta</i> (White, 1878)	Corixidae	water boatman
<i>Sigara (Tropocorixa) infrequens</i> Young, 1962	Corixidae	water boatman

Continued on next page

Table 1 continued

SPECIES NAME	FAMILY NAME	COMMON NAME
<i>Sigara (Tropocorixa) potamius</i> Young, 1962	Corixidae	water boatman
<i>Sigara (Tropocorixa) uruana</i> Young, 1962	Corixidae	water boatman
<i>Zemacrosaldula australis</i> (White, 1876)	Saldidae	shore bug
<i>Zemacrosaldula kapekape</i> Larivière & Larochelle, 2015	Saldidae	shore bug
<i>Zemacrosaldula pangare</i> Larivière & Larochelle, 2015	Saldidae	shore bug
<i>Zemacrosaldula whakarunga</i> Larivière & Larochelle, 2015	Saldidae	shore bug
<i>Zephlebia</i> aff. <i>pirongia</i> sp. 1 (SRP00450; Pukenui Forest, Northland)	Leptophlebiidae	mayfly
<i>Zephlebia</i> aff. <i>nebulosa</i> sp. 1 (POHE 11220; Puketi Forest, Northland)	Leptophlebiidae	mayfly
<i>Zephlebia</i> sp. 1 (POHE 12401; Reefton)	Leptophlebiidae	mayfly
<i>Zelandoperla</i> sp. 1 (BJF00160; Banks Peninsula)	Gripopterygidae	stonefly

Table 2. Name changes affecting New Zealand freshwater invertebrate species between the publication of Grainger et al. (2014) and 2018 (this document).

NAME AND AUTHORITY IN 2013	NAME AND AUTHORITY IN 2018	FAMILY	COMMON NAME
<i>Daphnia carinata</i> King, 1852	<i>Daphnia thomsoni</i> Sars, 1894	Daphniidae	waterflea
<i>Daphnia</i> sp. nova	<i>Daphnia tewaipounamu</i> Burns et al., 2017	Daphniidae	waterflea
<i>Hemianax papuensis</i> (Burmeister, 1839)	<i>Anax papuensis</i> (Burmeister, 1839)	Aeshnidae	dragonfly
<i>Hydora</i> n. sp.	<i>Hydora musci</i> Lambert, Maier, & Leschen, 2014	Elmidae	beetle
<i>Rallidens</i> n. sp.	<i>Rallidens platydontis</i> Staniczek & Hitchings, 2014	Rallidentidae	mayfly

1.1 Trends

The conservation status of 17 taxa has changed in this assessment. However, only one of those changes is based on observed decline of populations. The tadpole shrimp, *Lepidurus apiss viridis*, is declining on the North Island and South Island as its habitat of small ephemeral ponds continues to be lost. Concern is mounting for its continued persistence in very small, widely dispersed locations. From a previous assessment of At Risk – Naturally Uncommon, the tadpole shrimp is now assessed as Threatened – Nationally Endangered.

Table 3 compares the number of taxa in each conservation status in the 2013 assessment (Grainger et al. 2014) and the 2018 assessment (this report). Table 4 shows where status changes have occurred between the two assessments. The beetle *Orchymontia banksiana* and the mayfly *Siphlaenigma janae* improved status due to better knowledge rather than any observed increase in population size or area of occupancy, and the data for the 2013 assessment of the mayfly *Austronella planulata* was reinterpreted, also resulting in an improved status of Not Threatened. Six other taxa moved into a more threatened status after the data used in the previous assessment was reinterpreted. The stonefly *Zelandobius wardi* and the mayfly *Nesameletus vulcanus* are now considered Threatened – Nationally Endangered. The mayfly *Zephlebia* aff. *pirongia* sp. 1, the isopods *Notamphisopus dunedinensis* and *N. benhami*, and the amphipod *Chiltonia minua* are now At Risk – Naturally Uncommon. New information has enabled the panel to assess the mayfly *Zephlebia tuberculata* as At Risk – Naturally Uncommon. It was previously Data Deficient. Data about three dragonfly species that were previously considered Non-resident native – Coloniser has been reinterpreted, resulting in two of them being assessed Not Threatened and one Naturally Uncommon. However, the opposite has also occurred. The available data are now considered to be insufficient to support the assessments of three taxa in Grainger et al. (2014). An unnamed crayfish *Paranephrops* sp. (previously Not Threatened), the isopod *Bilistra cavernicola* and the mussel *Echyridella onekaka* (both previously At Risk – Naturally Uncommon) are now considered to be Data Deficient.

One taxon listed here for the first time is assessed Nationally Critical. The undescribed mayfly, *Zephlebia* aff. *pirongia* sp. 1 (SRP00450; Pukenui Forest, Northland), is known from only one very small site of less than 1 ha.

The population state and trend of 178 freshwater invertebrate taxa cannot be assessed for lack of suitable data. These are listed in Table 5 as Data Deficient. A further 88 taxa were assessed with the qualifier 'Data Poor', reflecting a lack of comprehensive data to support the assessments. This lack of knowledge reflects the limited number of researchers working on freshwater invertebrates and limits our ability to effectively plan for the conservation of freshwater species and their habitats.

Table 3. Statistical summary of the status of New Zealand freshwater invertebrate species assessed in 2013 (Grainger et al. 2014) plus two *Rhantus* spp. assessed in 2010 (Leschen et al. 2012) and 2018 (this document).

	2013	2018
Data Deficient	172	178
Threatened – Nationally Critical	47	48
Threatened – Nationally Endangered	11	14
Threatened – Nationally Vulnerable	16	16
At Risk – Declining	9	10
At Risk – Naturally Uncommon	81	89
Not Threatened	296	315
Non-resident native – Coloniser	5	2
Non-resident native – Vagrant	1	1
Introduced and naturalised	0	2
Total	638	675

Table 4. Summary of status changes of freshwater invertebrate taxa between 2013 (data in rows, Grainger et al. 2014 plus two *Rhantus* spp. from Leschen et al. 2012) and 2018 (data in columns, this report). Numbers to the right of the diagonal (shaded medium grey) indicate improved status (e.g. one taxon has moved from Nationally Endangered in 2013 to Nationally Vulnerable in 2018), numbers to the left of the diagonal (shaded light grey) indicate poorer status, numbers on the diagonal (shaded black) have not changed, and numbers without shading are either taxa that have moved into or out of Data Deficient, taxa added to this assessment, taxa rejected from this assessment because they had been misidentified as taxa that are now known not to occur in New Zealand (NA) or they are no longer considered to be distinct (TI) from other taxa.

		Conservation status 2018											
		Total 678	DD 178	NC 48	NE 14	NV 16	Dec 10	NU 89	NT 315	Col 2	Vag 1	IN ¹ 2	TI ² 3
Conservation status 2013	Data Deficient (DD)	172	168					1					3
	Nationally Critical (NC)	47		47									
	Nationally Endangered (NE)	11			10	1							
	Nationally Vulnerable (NV)	16			1	14	1						
	Declining (Dec)	9					8		1				
	Naturally Uncommon (NU)	81	2		2			77					
	Not Threatened (NT)	296	1					4	291				
	Coloniser (Col)	5						1	2	2			
	Vagrant (Vag)	1									1		
	Not listed	40	7	1	1	1	1	6	21			2	

¹ Introduced and naturalised.

² Taxonomically indistinct. Now considered to be conspecific with another taxon in this report.

2. Conservation status of New Zealand freshwater invertebrates, 2018

Taxa are assessed according to the criteria of Townsend et al. (2008) and the results are presented in Table 5. Taxa are grouped by conservation status, then by taxonomic status (determinate, indeterminate), then alphabetically by scientific name. Data Deficient taxa are listed first, followed by other categories ordered by degree of loss, from Threatened through to Not Threatened then Non-resident Native followed by Introduced and Naturalised. 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.

The definitions of qualifiers and criteria are summarised below in Table 5. See Townsend et al. (2008) for details.

The full assessment data for the freshwater invertebrate taxa listed in Table 5 can be viewed and downloaded at: <https://www.nztc.org.nz/#/reports/1071>.

Table 5. Conservation status of New Zealand freshwater invertebrates, 2018.

NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
DATA DEFICIENT (178)						
Taxonomically determinate (152)						
<i>Acroperla christinae</i> McLellan, 1998	stonefly	Data Deficient			No change	Gripopterygidae
<i>Allorchestes compressus</i> (Bousfield, 1964)	amphipod	Data Deficient			No change	Dogielinotidae
<i>Antiporus femoralis</i> (Boheman, 1858)	beetle	Data Deficient			No change	Dytiscidae
<i>Austridotea annectens</i> Nicholls, 1937	isopod	Data Deficient			No change	Idoteidae
<i>Austropeplea tomentosa</i> (Pfeiffer, 1855)	snail	Data Deficient			No change	Lymnaeidae
<i>Bilistra cavernicola</i> Sket & Bruce, 2004	isopod	Data Deficient		RR	Neutral	Sphaeromatidae
<i>Chonostomum crenulatum</i> Schmarada, 1861	flatworm	Data Deficient			No change	Dalyelliidae
<i>Cylomissus glabratus</i> Broun, 1903	beetle	Data Deficient			No change	Hydrophilidae
<i>Daphnia tewaipounamu</i> Burns et al., 2017	waterflea	Data Deficient			No change	Daphniidae
<i>Echyridella onekaka</i> Fenwick & Marshall, 2006	mussel	Data Deficient		DP, RR	Neutral	Hyriidae
<i>Edpercivalia flintorum</i> Ward, 2005	caddisfly	Data Deficient		OL	No change	Hydrobiosidae
<i>Enochrus (Methydus) abditus</i> Sharp, 1884	beetle	Data Deficient			No change	Hydrophilidae
<i>Erichorema basale</i> Ward, Leschen, Smith & Dean, 2004	caddisfly	Data Deficient		OL	No change	Hydrobiosidae
<i>Exocelina australis</i> (Clark, 1863)	beetle	Data Deficient			No change	Dytiscidae
<i>Glyptophysa variabilis</i> (Gray, 1843)	snail	Data Deficient		PD	No change	Planorbidae
<i>Gordius paranensis</i> Camerano, 1892	Gordian worm	Data Deficient			New listing	Gordiidae
<i>Gyraulus kahuica</i> (Finlay & Laws, 1931)	snail	Data Deficient			No change	Planorbidae
<i>Hadopyrgus anops</i> Climo, 1974	snail	Data Deficient		RR	No change	Hydrobiidae
<i>Hadopyrgus brevis</i> Climo, 1974	snail	Data Deficient		RR	No change	Hydrobiidae
<i>Hadopyrgus dubius</i> Haase, 2008	snail	Data Deficient		OL	No change	Hydrobiidae
<i>Helicopsyche (Saetotricha) cuvieri</i> Johanson, 1999	caddisfly	Data Deficient		IE, OL	No change	Helicopsychidae
<i>Helicopsyche (Saetotricha) haurapango</i> Johanson, 1999	caddisfly	Data Deficient			No change	Helicopsychidae
<i>Homalaena acuta</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Homalaena carinata</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Homalaena dilatata</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae

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Table 5 continued

NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Homalaena dispersa</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Homalaena nelsonensis</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Homalaena setosa</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Homalaena spatulata</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Hydora angusticollis</i> (Pascoe, 1877)	beetle	Data Deficient			No change	Elmidae
<i>Hydora lanigera</i> Broun, 1914	beetle	Data Deficient			No change	Elmidae
<i>Hydora musci</i> Lambert, Maier, & Leschen, 2014	beetle	Data Deficient			No change	Elmidae
<i>Hydora nitida</i> Broun, 1885	beetle	Data Deficient			No change	Elmidae
<i>Hydora obsoleta</i> Broun, 1885	beetle	Data Deficient			No change	Elmidae
<i>Hydora picea</i> (Broun, 1881)	beetle	Data Deficient			No change	Elmidae
<i>Hydora subaenea</i> Broun, 1914	beetle	Data Deficient			No change	Elmidae
<i>Hydraena (Hydraena) ordishi</i> Delgado & Palma, 1997	beetle	Data Deficient			No change	Hydraenidae
<i>Hydraena (Hydraena) zealandica</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Hydrobiosis taumata</i> Ward, 1997	caddisfly	Data Deficient		RR	No change	Hydrobiosidae
<i>Hyphydrus (Apriophorus) elegans</i> (Montrouzier, 1860)	beetle	Data Deficient			No change	Dytiscidae
<i>Kuschelita inflata</i> Climo, 1974	snail	Data Deficient		OL	No change	Hydrobiidae
<i>Kuschelita mica</i> Climo, 1974	snail	Data Deficient		OL, RR	No change	Hydrobiidae
<i>Kuschelydrus phreaticus</i> Ordish, 1976	beetle	Data Deficient		RR	No change	Dytiscidae
<i>Laccobius (Platylaccobius) arrowi</i> d'Orchymont, 1925	beetle	Data Deficient			No change	Hydrophilidae
<i>Latia lateralis</i> (Gould, 1852)	limpet	Data Deficient			No change	Latiidae
<i>Leptopyrgus melbourni</i> Haase, 2008	snail	Data Deficient		RR	No change	Hydrobiidae
<i>Limnoxenus zealandicus</i> (Broun, 1880)	beetle	Data Deficient			No change	Hydrophilidae
<i>Makarasphaera amnicosa</i> Bruce, 2005	isopod	Data Deficient		Sp	No change	Sphaeromatidae
<i>Meridiopyrgus inanga</i> Haase, 2008	snail	Data Deficient		OL	No change	Hydrobiidae
<i>Meridiopyrgus murihiku</i> Haase, 2008	snail	Data Deficient		Sp	No change	Hydrobiidae
<i>Meridiopyrgus pupiformis</i> Haase, 2008	snail	Data Deficient		OL	No change	Hydrobiidae
<i>Miconchus rex</i> (Cobb, 1904)	nematode	Data Deficient			No change	Mononchoidea <i>incertae sedis</i>
<i>Neophreatoicus assimilis</i> (Chilton, 1894)	isopod	Data Deficient			No change	Phreatoicidae
<i>Neurochorema pilosum</i> McFarlane, 1964	caddisfly	Data Deficient			No change	Hydrobiosidae
<i>Notamphisopus flavius</i> Nicholls, 1944	isopod	Data Deficient			No change	Phreatoicidae
<i>Notamphisopus kirkii</i> (Chilton, 1906)	isopod	Data Deficient		IE, RR	No change	Phreatoicidae
<i>Notamphisopus littoralis</i> Nicholls, 1944	isopod	Data Deficient			No change	Phreatoicidae
<i>Notamphisopus percevali</i> Nicholls, 1944	isopod	Data Deficient			No change	Phreatoicidae
<i>Notonemoura hendersoni</i> McLellan, 2000	stonefly	Data Deficient		RR	No change	Notonemouridae
<i>Notonemoura spinosa</i> McLellan, 1991	stonefly	Data Deficient		OL	No change	Notonemouridae
<i>Obtusopyrgus alpinus</i> Haase, 2008	snail	Data Deficient		Sp	No change	Hydrobiidae
<i>Olinga christinae</i> Ward & McKenzie, 1998	caddisfly	Data Deficient			No change	Conoesucidae
<i>Opacuicola abradeta</i> Haase, 2008	snail	Data Deficient		OL	No change	Hydrobiidae
<i>Opacuicola conosimilis</i> Haase, 2008	snail	Data Deficient		OL	No change	Hydrobiidae
<i>Opacuicola favus</i> Haase, 2008	snail	Data Deficient		RR	No change	Hydrobiidae
<i>Opacuicola fruticis</i> Haase, 2008	snail	Data Deficient		OL	No change	Hydrobiidae
<i>Opacuicola geometrica</i> Haase, 2008	snail	Data Deficient		OL	No change	Hydrobiidae
<i>Opacuicola ignorata</i> Haase, 2008	snail	Data Deficient		RR	No change	Hydrobiidae
<i>Opacuicola johanstraussi</i> Haase, 2008	snail	Data Deficient		RR	No change	Hydrobiidae
<i>Opacuicola josefstraussi</i> Haase, 2008	snail	Data Deficient		RR	No change	Hydrobiidae
<i>Opacuicola kuscheli</i> Climo, 1974	snail	Data Deficient		RR	No change	Hydrobiidae
<i>Opacuicola lentesferens</i> Haase, 2008	snail	Data Deficient			No change	Hydrobiidae

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Table 5 continued

NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Opacuincola mete</i> Haase, 2008	snail	Data Deficient			No change	Hydrobiidae
<i>Opacuincola ngatapuna</i> Haase, 2008	snail	Data Deficient		RR	No change	Hydrobiidae
<i>Opacuincola ovata</i> Haase, 2008	snail	Data Deficient		OL	No change	Hydrobiidae
<i>Opacuincola permutata</i> Haase, 2008	snail	Data Deficient		OL	No change	Hydrobiidae
<i>Opacuincola piriformis</i> Haase, 2008	snail	Data Deficient		OL	No change	Hydrobiidae
<i>Opacuincola roscoei</i> Haase, 2008	snail	Data Deficient		RR	No change	Hydrobiidae
<i>Opacuincola takakaensis</i> Haase, 2008	snail	Data Deficient		OL	No change	Hydrobiidae
<i>Opacuincola terraelapsus</i> Haase, 2008	snail	Data Deficient		RR	No change	Hydrobiidae
<i>Opacuincola turiformis</i> Haase, 2008	snail	Data Deficient		RR	No change	Hydrobiidae
<i>Orchymontia bidentata</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Orchymontia calcarata</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Orchymontia ciliata</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Orchymontia crassifemur</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Orchymontia curvipes</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Orchymontia dilatata</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Orchymontia latispina</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Orchymontia nunni</i> Delgado & Palma, 2000	beetle	Data Deficient		RR	No change	Hydraenidae
<i>Orchymontia otagensis</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Orchymontia spinipennis</i> Broun, 1919	beetle	Data Deficient			No change	Hydraenidae
<i>Orchymontia vulgaris</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Otehiwi sagittarius</i> McLellan 2003	stonefly	Data Deficient		OL	No change	Notonemouridae
<i>Oxyethira (Trichoglene) kirikiriroa</i> Smith, 2008	caddisfly	Data Deficient		OL	No change	Hydroptilidae
<i>Oxyethira (Trichoglene) waipoua</i> Wise, 1998	caddisfly	Data Deficient		RR, Sp	No change	Hydroptilidae
<i>Paracalliope karitane</i> Barnard, 1972	amphipod	Data Deficient		RR	No change	Paracalliopiidae
<i>Paracrangonyx compactus</i> (Chilton, 1882)	amphipod	Data Deficient			No change	Paracalliopiidae
<i>Paracrangonyx winterbourni</i> Fenwick, 2001	amphipod	Data Deficient			No change	Paracalliopiidae
<i>Paraleptamphopus caeruleus</i> (Thomson, 1885)	amphipod	Data Deficient			No change	Paracalliopiidae
<i>Paraleptamphopus subterraneus</i> (Chilton, 1882)	amphipod	Data Deficient			No change	Paracalliopiidae
<i>Paroxyethira hughwilsoni</i> Ward & Henderson, 2004	caddisfly	Data Deficient		Sp	No change	Hydroptilidae
<i>Paroxyethira kimminsi</i> Leader, 1972	caddisfly	Data Deficient		Sp	No change	Hydroptilidae
<i>Paroxyethira manapouri</i> Ward & Henderson, 2004	caddisfly	Data Deficient		OL	No change	Hydroptilidae
<i>Paroxyethira ramifera</i> Ward & Henderson, 2004	caddisfly	Data Deficient		RR, Sp	No change	Hydroptilidae
<i>Paroxyethira sarae</i> Ward & Henderson, 2004	caddisfly	Data Deficient			No change	Hydroptilidae
<i>Paroxyethira zoeae</i> Ward & Henderson, 2004	caddisfly	Data Deficient		RR	No change	Hydroptilidae
<i>Philorheithrus litoralis</i> Henderson & Ward, 2006	caddisfly	Data Deficient		RR	No change	Philorheithridae
<i>Phreatodessus hades</i> Ordish, 1976	beetle	Data Deficient		RR	No change	Dytiscidae
<i>Phreatodessus pluto</i> Ordish, 1991	beetle	Data Deficient		RR	No change	Dytiscidae
<i>Phreatogammarus fragilis</i> (Chilton, 1882)	amphipod	Data Deficient			No change	Phoxocephalidae
<i>Phreatogammarus waipoua</i> Chapman, 2003	amphipod	Data Deficient		RR, Sp	No change	Phoxocephalidae
<i>Phreatoicus orarii</i> Nicholls, 1944	isopod	Data Deficient			No change	Phreatoicidae
<i>Phreatoicus typicus</i> Chilton, 1883	isopod	Data Deficient			No change	Phreatoicidae
<i>Platypyrgus nelsonensis</i> (Climo, 1977)	snail	Data Deficient		RR	No change	Hydrobiidae
<i>Podaena glabrivertris</i> Ordish, 1984	beetle	Data Deficient			No change	Hydraenidae
<i>Podaena mariae</i> Delgado and Palma, 2010	beetle	Data Deficient			No change	Hydraenidae
<i>Potamopyrgus kaitunuparaoa</i> Haase, 2008	snail	Data Deficient		RR	No change	Hydrobiidae
<i>Pseudoeconesus geraldinae</i> Ward, 1997	caddisfly	Data Deficient		OL	No change	Oeconesidae
<i>Pseudoeconesus haasti</i> Ward, 1997	caddisfly	Data Deficient		OL	No change	Oeconesidae

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Table 5 continued

NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Psilochorema folioharpax</i> McFarlane, 1956	caddisfly	Data Deficient		Sp	No change	Hydrobiosidae
<i>Psilochorema spiniharpax</i> Ward, 1995	caddisfly	Data Deficient		OL	No change	Hydrobiosidae
<i>Rakiurapyrgus micula</i> Haase, 2008	snail	Data Deficient		OL	No change	Hydrobiidae
<i>Ringanui koonuiroa</i> Fenwick, 2006	amphipod	Data Deficient		RR	No change	Paracalliopiidae
<i>Ringanui toonuiiti</i> Fenwick, 2006	amphipod	Data Deficient		RR	No change	Paracalliopiidae
<i>Scolecopides freemani</i> Mitchell & Edwards, 1988	polychaete worm	Data Deficient			No change	Spionidae
<i>Spaniocerca hamishi</i> McLellan, 2000	stonefly	Data Deficient		RR	No change	Notonemouridae
<i>Spaniocercoides jacksoni</i> McLellan, 1991	stonefly	Data Deficient		OL	No change	Notonemouridae
<i>Spaniocercoides watti</i> McLellan, 1984	stonefly	Data Deficient			No change	Notonemouridae
<i>Spathula fontinalis</i> Nurse, 1950	flatworm	Data Deficient		RR	No change	Dugesidae
<i>Spathula limicola</i> Nurse, 1950	flatworm	Data Deficient			No change	Dugesidae
<i>Tiphobiosis kuscheli</i> Wise, 1972	caddisfly	Data Deficient		IE, OL	No change	Hydrobiosidae
<i>Tiphobiosis quadrifurca</i> Ward, 1997	caddisfly	Data Deficient		OL	No change	Hydrobiosidae
<i>Tiphobiosis salmoni</i> McFarlane, 1981	caddisfly	Data Deficient		RR	No change	Hydrobiosidae
<i>Tiphobiosis schmidi</i> Ward, 1998	caddisfly	Data Deficient		OL	No change	Hydrobiosidae
<i>Tongapyrgus kohitatea</i> Haase, 2008	snail	Data Deficient		Sp	No change	Hydrobiidae
<i>Tongapyrgus subterraneus</i> Suter, 1905	snail	Data Deficient			No change	Hydrobiidae
<i>Vesicaperla eylesi</i> McLellan, 1977	stonefly	Data Deficient		OL	No change	Gripopterygidae
<i>Vesicaperla kuscheli</i> McLellan, 1977	stonefly	Data Deficient		OL	No change	Gripopterygidae
<i>Vesicaperla townsendi</i> McLellan, 1977	stonefly	Data Deficient		OL	No change	Gripopterygidae
<i>Xuthotrichia aotea</i> Ward & Henderson, 2004	caddisfly	Data Deficient		Sp	No change	Hydroptilidae
<i>Zelandobius auratus</i> McLellan, 1993	stonefly	Data Deficient		RR	No change	Gripopterygidae
<i>Zelandobius brevicauda</i> McLellan, 1977	stonefly	Data Deficient		RR	No change	Gripopterygidae
<i>Zelandobius dugdalei</i> McLellan, 1993	stonefly	Data Deficient		RR, Sp	No change	Gripopterygidae
<i>Zelandobius edensis</i> Gray, 2009	stonefly	Data Deficient		Sp	No change	Gripopterygidae
<i>Zelandobius inversus</i> McLellan, 1993	stonefly	Data Deficient			No change	Gripopterygidae
<i>Zelandobius jacksoni</i> McLellan, 1993	stonefly	Data Deficient		RR	No change	Gripopterygidae
<i>Zelandobius macburneyi</i> McLellan, 1993	stonefly	Data Deficient			No change	Gripopterygidae
<i>Zelandobius montanus</i> McLellan, 1993	stonefly	Data Deficient		RR	No change	Gripopterygidae
<i>Zelandobius ngaire</i> McLellan, 1993	stonefly	Data Deficient		RR	No change	Gripopterygidae
<i>Zelandobius peglegensis</i> McLellan, 1993	stonefly	Data Deficient			No change	Gripopterygidae
<i>Zelandobius takahe</i> McLellan, 1993	stonefly	Data Deficient			No change	Gripopterygidae
<i>Zelandobius uniramus</i> McLellan, 1993	stonefly	Data Deficient			No change	Gripopterygidae
Taxonomically indeterminate (26)						
<i>Cryptobiosella</i> "(Mokihinui)"	caddisfly	Data Deficient		OL	No change	Philopotamidae
<i>Deleatidium (Deleatidium)</i> "lyellensis"	mayfly	Data Deficient		OL	New listing	Leptophlebiidae
<i>Deleatidium (Deleatidium)</i> "rakiura"	mayfly	Data Deficient			New listing	Leptophlebiidae
<i>Gordius</i> sp. 1	Gordian worm	Data Deficient			New listing	Gordiidae
<i>Hudsonema</i> n. sp. X	caddisfly	Data Deficient			No change	Leptoceridae
<i>Hydrochorema</i> n. sp. B	caddisfly	Data Deficient		OL	No change	Hydrobiosidae
<i>Hydropsyche</i> n. sp. Q	caddisfly	Data Deficient			No change	Hydropsychidae
<i>Makawe</i> spp.	amphipod	Data Deficient			No change	Talitridae
<i>Nesameletus</i> "Fiordland"	mayfly	Data Deficient			New listing	Nesameletidae
<i>Paraleptamphopus</i> sp.	amphipod	Data Deficient		OL	No change	Paracalliopiidae
<i>Paranephrops</i> sp.	crayfish/koura	Data Deficient			Neutral	Parastacidae
<i>Paroxyethira</i> n. sp. C	caddisfly	Data Deficient		Sp	No change	Hydroptilidae
<i>Paroxyethira</i> n. sp. L	caddisfly	Data Deficient		OL	No change	Hydroptilidae
<i>Pseudoeconesus</i> n. sp. A	caddisfly	Data Deficient		OL	No change	Oeconesidae
<i>Pseudoeconesus</i> n. sp. D	caddisfly	Data Deficient		OL	No change	Oeconesidae

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Table 5 continued

NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Pseudeoconesus</i> n. sp. P	caddisfly	Data Deficient		OL	No change	Oeconesidae
<i>Pseudeoconesus</i> n. sp. S	caddisfly	Data Deficient		OL	No change	Oeconesidae
<i>Pycnocentria</i> n. sp. F	caddisfly	Data Deficient			No change	Conoesucidae
<i>Pycnocentrodus modestus</i> Cowley, 1976	caddisfly	Data Deficient			No change	Conoesucidae
<i>Tiphobiosis</i> n. sp. B	caddisfly	Data Deficient		RR	No change	Hydrobiosidae
<i>Tiphobiosis</i> n. sp. C	caddisfly	Data Deficient		RR	No change	Hydrobiosidae
<i>Tiphobiosis</i> n. sp. D	caddisfly	Data Deficient		RR	No change	Hydrobiosidae
<i>Tiphobiosis</i> n. sp. P	caddisfly	Data Deficient		OL	No change	Hydrobiosidae
<i>Tiphobiosis</i> n. sp. W	caddisfly	Data Deficient		OL	No change	Hydrobiosidae
<i>Zephlebia</i> aff. <i>nebulos</i> sp. 1 (POHE 11220; Puketi Forest, Northland)	mayfly	Data Deficient			New listing	Leptophlebiidae
<i>Zephlebia</i> sp. 1 (POHE 12401; Reefton)	mayfly	Data Deficient			New listing	Leptophlebiidae
THREATENED (78)						
Nationally Critical (48)						
Taxonomically determinate (43)						
<i>Apteryoperla lakiula</i> McLellan, 2003	stonefly	Nationally Critical	A(3)	DP, OL	No change	Gripopterygidae
<i>Apteryoperla monticola</i> Wisely, 1953	stonefly	Nationally Critical	A(3)	DP, OL	No change	Gripopterygidae
<i>Apteryoperla nancyae</i> McLellan, 1977	stonefly	Nationally Critical	A(3)	DP, OL	No change	Gripopterygidae
<i>Apteryoperla ramsayi</i> McLellan, 1977	stonefly	Nationally Critical	A(3)	DP, OL	No change	Gripopterygidae
<i>Aupouriella pohei</i> Winterbourn, 2009	mayfly	Nationally Critical	A(3)	OL	No change	Leptophlebiidae
<i>Bilistra millari</i> Sket & Bruce, 2004	isopod	Nationally Critical	A(3)	DP, RR	No change	Sphaeromatidae
<i>Catapyrgus sororius</i> Haase, 2008	snail	Nationally Critical	A(3)	DP, OL	No change	Tateidae
<i>Chiltonia rivertonensis</i> Hurley, 1954	amphipod	Nationally Critical	A(3)	DP, RR	No change	Chiltoniidae
<i>Cura fortis</i> Sluys & Kawakatsu, 2001	flatworm	Nationally Critical	A(3)	DP, OL	No change	Dugesidae
<i>Edpercivalia dugdalei</i> Ward, 1998	caddisfly	Nationally Critical	A(3)	DP	No change	Hydrobiosidae
<i>Edpercivalia smithi</i> Ward, 2005	caddisfly	Nationally Critical	A(3)	DP, OL	No change	Hydrobiosidae
<i>Eulimnadia marplei</i> Timms & McLay, 2005	clam shrimp	Nationally Critical	A(3)	DP, OL	No change	Limnadiidae
<i>Hadopyrgus ngataana</i> Haase, 2008	snail	Nationally Critical	A(3)	OL	No change	Hydrobiidae
<i>Hadopyrgus rawhiti</i> Haase, 2008	snail	Nationally Critical	A(3)	OL	No change	Hydrobiidae
<i>Hydrobiosella aorere</i> Henderson, 1983	caddisfly	Nationally Critical	A(2)	DP, RR, Sp	No change	Philopotamidae
<i>Leptopyrgus manneringi</i> (Climo, 1974)	snail	Nationally Critical	A(3)	DP, RR	No change	Hydrobiidae
<i>Nesoperla johnsi</i> McLellan, 1977	stonefly	Nationally Critical	A(3)	IE, OL	No change	Gripopterygidae
<i>Nesoperla patricki</i> McLellan, 2003	stonefly	Nationally Critical	A(3)	DP, RR	No change	Gripopterygidae
<i>Oeconesus angustus</i> Ward, 1997	caddisfly	Nationally Critical	A(3)	DP, OL	No change	Oeconesidae
<i>Omanuperla hollowayae</i> McLellan, 1991	stonefly	Nationally Critical	A(2)	DP, RR	No change	Notonemouridae
<i>Opacuincola caeca</i> Ponder, 1966	snail	Nationally Critical	A(3)	DP, OL	No change	Hydrobiidae
<i>Opacuincola cervicesmadentes</i> Haase, 2008	snail	Nationally Critical	A(3)	DP, OL	No change	Hydrobiidae
<i>Opacuincola dulcinella</i> Haase, 2008	snail	Nationally Critical	A(3)	DP, OL	No change	Hydrobiidae
<i>Opacuincola eduardstraussi</i> Haase, 2008	snail	Nationally Critical	A(3)	DP, OL	No change	Hydrobiidae
<i>Potamopyrgus acus</i> Haase, 2008	snail	Nationally Critical	A(3)	OL	No change	Hydrobiidae
<i>Potamopyrgus dawbini</i> Powell, 1955	snail	Nationally Critical	A(3)	IE, OL	No change	Hydrobiidae
<i>Potamopyrgus doci</i> Haase, 2008	snail	Nationally Critical	A(3)	OL	No change	Hydrobiidae
<i>Potamopyrgus oppidanus</i> Haase, 2008	snail	Nationally Critical	A(3)	OL	No change	Hydrobiidae
<i>Potamopyrgus troglodytes</i> (Climo, 1974)	snail	Nationally Critical	A(3)	RR	No change	Hydrobiidae
<i>Rhantus schauinslandi</i> Ordish, 1989	diving beetle	Nationally Critical	A(1)	DP, IE, OL	No change	Dytiscidae
<i>Sororipyrgus marshalli</i> Haase, 2008	snail	Nationally Critical	A(3)	DP, OL	No change	Hydrobiidae
<i>Spathula alba</i> Allison, 1997	flatworm	Nationally Critical	A(3)	DP, OL	No change	Dugesidae
<i>Spathula neara</i> Ball, 1977	flatworm	Nationally Critical	A(3)	DP, OL	No change	Dugesidae
<i>Taraperla johnsi</i> McLellan 2003	stonefly	Nationally Critical	A(3)	DP, RR	No change	Gripopterygidae
<i>Tiphobiosis childella</i> Ward, 1995	caddisfly	Nationally Critical	A(3)	DP, OL	No change	Hydrobiosidae
<i>Tiphobiosis hinewai</i> Ward, 1995	caddisfly	Nationally Critical	A(3)	DP, OL, RR	No change	Hydrobiosidae

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NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Vesicaperla dugdalei</i> McLellan, 1977	stonefly	Nationally Critical	A(3)		No change	Gripopterygidae
<i>Vesicaperla substirpes</i> McLellan, 1967	stonefly	Nationally Critical	A(3)	DP, RR	No change	Gripopterygidae
<i>Vesicaperla trilinea</i> McLellan, 2003	stonefly	Nationally Critical	A(3)	DP, OL	No change	Gripopterygidae
<i>Xanthocnemis sinclairi</i> Rowe, 1987	damselfly	Nationally Critical	A(2)	DP, OL	No change	Coenagrionidae
<i>Zelandobius crawfordi</i> McLellan, 2008	stonefly	Nationally Critical	A(3)	DP, OL	No change	Gripopterygidae
<i>Zelandobius edwardsi</i> McLellan, 2008	stonefly	Nationally Critical	A(3)	DP, RR	No change	Gripopterygidae
<i>Zelandobius mariae</i> McLellan, 1993	stonefly	Nationally Critical	A(2)	DP, RR	No change	Gripopterygidae
Taxonomically indeterminate (5)						
<i>Hydrobiosis</i> n. sp. L	caddisfly	Nationally Critical	A(2)	DP, OL	No change	Hydrobiosidae
<i>Paraleptamphopus</i> sp. "pounamu"	amphipod	Nationally Critical	A(3)	OL	No change	Paracalliopiidae
<i>Paramoera</i> sp.	amphipod	Nationally Critical	A(3)	DP, IE, OL	No change	Pontogeneiidae
<i>Pseudoconesus</i> n. sp. G	caddisfly	Nationally Critical	A(2)	DP, RR	No change	Oeconesidae
<i>Zephlebia</i> aff. <i>pirongia</i> sp. 1 (SRP00450; Pukenui Forest, Northland)	mayfly	Nationally Critical	A(3)	OL	New listing	Leptophlebiidae
Nationally Endangered (14)						
Taxonomically determinate (12)						
<i>Cryptobiosella furcata</i> Henderson, 1983	caddisfly	Nationally Endangered	B(2)	DP, RR, Sp	No change	Philopotamidae
<i>Cryptobiosella spinosa</i> Henderson, 1983	caddisfly	Nationally Endangered	B(2)	DP, RR, Sp	No change	Philopotamidae
<i>Deleatidium (Penniketellum) insolitum</i> Towns & Peters, 1979	mayfly	Nationally Endangered	B(2)	DP, Sp	No change	Leptophlebiidae
<i>Edpercivalia banksiensis</i> (McFarlane, 1939)	caddisfly	Nationally Endangered	B(3)	RR, Sp	No change	Hydrobiosidae
<i>Hadopyrgus expositus</i> Haase, 1980	snail	Nationally Endangered	A(3)	DP, RR	No change	Hydrobiidae
<i>Kiwisaldula laelaps</i> (White, 1878)	shore bug	Nationally Endangered	B(3)	DP, RR	New listing	Saldidae
<i>Lepidurus apus viridis</i> Baird, 1850	tadpole shrimp	Nationally Endangered	A(3)	DP, RR, S?O, Sp	Worse	Triopsidae
<i>Neobiosella irrorata</i> Wise, 1958	caddisfly	Nationally Endangered	B(2)	DP, RR, Sp	No change	Philopotamidae
<i>Nesameletus vulcanus</i> Hitchings & Staniczek, 2003	mayfly	Nationally Endangered	B(3)		Worse	Nesameletidae
<i>Olinga fumosa</i> Wise, 1958	caddis	Nationally Endangered	B(2)		No change	Conoesucidae
<i>Pseudoconesus paludis</i> Ward, 1997	caddisfly	Nationally Endangered	B(2)	RR, Sp	No change	Oeconesidae
<i>Zelandobius wardi</i> McLellan, 1993	stonefly	Nationally Endangered	B(3)	RR, Sp	Worse	Gripopterygidae
Taxonomically indeterminate (2)						
<i>Hydrochorema</i> n. sp. W	caddisfly	Nationally Endangered	A(2)	DP, RR	No change	Hydrobiosidae
<i>Neurochorema</i> n. sp. A	caddisfly	Nationally Endangered	A(3)	Sp	No change	Hydrobiosidae
Nationally Vulnerable (16)						
Taxonomically determinate (14)						
<i>Alloecentrella cirratus</i> Henderson & Ward, 2007	caddisfly	Nationally Vulnerable	B(2)		No change	Helicophidae
<i>Atrachorema mangu</i> McFarlane, 1964	caddisfly	Nationally Vulnerable	B(2)	Sp	No change	Hydrobiosidae
<i>Costachorema peninsulae</i> Ward, 1995	caddisfly	Nationally Vulnerable	B(2)	RR	No change	Hydrobiosidae
<i>Cryptobiosella tridens</i> Henderson, 1983	caddisfly	Nationally Vulnerable	B(2)	Sp	No change	Philopotamidae
<i>Echyridella aucklandica</i> (Gray, 1843)	mussel	Nationally Vulnerable	E(2)	DP, RF, Sp	No change	Hyriidae
<i>Edpercivalia borealis</i> (McFarlane, 1951)	caddisfly	Nationally Vulnerable	B(2)	DP	No change	Hydrobiosidae
<i>Edpercivalia tahatika</i> Ward, 2005	caddisfly	Nationally Vulnerable	C(2)	DP	No change	Hydrobiosidae

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NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Helicopsyche (Saetotricha) torino</i> Johanson, 1999	caddisfly	Nationally Vulnerable	B(2)	Sp	No change	Helicopsychidae
<i>Hydrobiosis styx</i> McFarlane, 1951	caddisfly	Nationally Vulnerable	B(2)	RR, Sp	No change	Hydrobiosidae
<i>Orchymontia banksiana</i> Ordish, 1984	beetle	Nationally Vulnerable	C(3)	RR	Better	Hydraenidae
<i>Paxillostium nanum</i> Gardner, 1970	snail	Nationally Vulnerable	C(3)	DP, RR	No change	Hydrobiidae
<i>Pycnocentria mordax</i> Ward, 1997	caddisfly	Nationally Vulnerable	B(2)		No change	Conoesucidae
<i>Tiphobiosis kleinpastei</i> Ward, 1998	caddisfly	Nationally Vulnerable	B(2)	RR	No change	Hydrobiosidae
<i>Xenobiosella motueka</i> Henderson, 1983	caddisfly	Nationally Vulnerable	B(2)	Sp	No change	Philopotamidae
Taxonomically indeterminate (2)						
<i>Pseudoeconesus</i> n. sp. T	caddisfly	Nationally Vulnerable	B(3)	DP	No change	Oeconesidae
<i>Zelandoperla</i> sp. 1 (BJF00160; Banks Peninsula)	stonefly	Nationally Vulnerable	B(3)	DP	New listing	Gripopterygidae
AT RISK (99)						
Declining (10)						
Taxonomically determinate (10)						
<i>Daphnia thomsoni</i> Sars, 1894	waterflea	Declining	C(2)		No change	Daphniidae
<i>Echyridella menziesii</i> (Gray, 1843)	mussel	Declining	C(2)		No change	Hyriidae
<i>Isothraululus abditus</i> Towns & Peters, 1979	mayfly	Declining	A(2)	DP	No change	Leptophlebiidae
<i>Kiwisaldula waiho</i> Larivière and Laroche, 2017	shore bug	Declining	A(2)	RR	New listing	Saldidae
<i>Kokiria miharo</i> McFarlane, 1964	caddisfly	Declining	A(2)	RR, Sp	No change	Kokiriidae
<i>Oniscigaster wakefieldi</i> McLachlan, 1873	mayfly	Declining	A(2)	DP, Sp	No change	Oniscigastridae
<i>Paranephrops zealandicus</i> (White, 1847)	crayfish/koura	Declining	C(1)	PD	No change	Parastacidae
<i>Prorhynchus haswelli</i> Steinboeck & Reisinger, 1924	flatworm	Declining	A(2)	DP, OL	No change	Prorhynchidae
<i>Rallidens platyodontis</i> Staniczek & Hitchings, 2014	mayfly	Declining	A(2)	DP, Sp	No change	Rallidentidae
<i>Siphaenigma janae</i> Penniket, 1962	mayfly	Declining	A(2)	Sp	Better	Siphaenigmatidae
Naturally Uncommon (89)						
Taxonomically determinate (83)						
<i>Alloecentrella incisus</i> Henderson & Ward, 2007	caddisfly	Naturally Uncommon		RR	No change	Helicophidae
<i>Amarinus lacustris</i> (Chilton, 1882)	freshwater crab	Naturally Uncommon		SO, Sp	No change	Hymenosomatidae
<i>Antipodochlora braueri</i> (Selys, 1871)	dragonfly	Naturally Uncommon		Sp	No change	Corduliidae
<i>Apteryoperla illiesi</i> McLellan, 1977	stonefly	Naturally Uncommon		DP, RR	No change	Gripopterygidae
<i>Apteryoperla tillyardi</i> McLellan, 1977	stonefly	Naturally Uncommon		DP, RR	No change	Gripopterygidae
<i>Aucklandobius complementarius</i> Enderlein, 1909	stonefly	Naturally Uncommon		IE, RR	No change	Gripopterygidae
<i>Aucklandobius gressitti</i> Illies, 1963	stonefly	Naturally Uncommon		IE, RR	No change	Gripopterygidae
<i>Aucklandobius kuscheli</i> (Illies, 1974)	stonefly	Naturally Uncommon		DP, IE, OL	No change	Gripopterygidae
<i>Aucklandobius turbotti</i> (Illies, 1963)	stonefly	Naturally Uncommon		IE, RR	No change	Gripopterygidae
<i>Austridotea benhami</i> Nicholls, 1937	isopod	Naturally Uncommon		DP, RR	No change	Idoteidae
<i>Bilistra mollicopulans</i> Sket & Bruce, 2003	isopod	Naturally Uncommon		OL	No change	Sphaeromatidae
<i>Catapyrgus fraterculus</i> Haase, 2008	snail	Naturally Uncommon		RR	No change	Tateidae
<i>Catapyrgus matapango</i> Haase, 2008	snail	Naturally Uncommon		RR	No change	Tateidae

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Table 5 continued

NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Catapyrgus spelaeus</i> Climo, 1974	snail	Naturally Uncommon		RR	No change	Tateidae
<i>Chathamia brevipennis</i> Tillyard, 1925	caddisfly	Naturally Uncommon		IE, RR	No change	Chathamiidae
<i>Chiltonia enderbyensis</i> Hurley, 1954	amphipod	Naturally Uncommon		RR	No change	Chiltoniidae
<i>Chiltonia mihiwaka</i> (Chilton, 1898)	amphipod	Naturally Uncommon		DP	No change	Chiltoniidae
<i>Chiltonia minuta</i> Bousfield, 1964	amphipod	Naturally Uncommon		IE	Worse	Chiltoniidae
<i>Costachorema brachypterum</i> McFarlane, 1939	caddisfly	Naturally Uncommon		RR	No change	Hydrobiosidae
<i>Costachorema hebdomon</i> McFarlane, 1981	caddisfly	Naturally Uncommon		Sp	No change	Hydrobiosidae
<i>Costachorema notopterus</i> Wise, 1972	caddisfly	Naturally Uncommon		IE, RR	No change	Hydrobiosidae
<i>Cryophlebia aucklandensis</i> (Peters, 1971)	mayfly	Naturally Uncommon		IE, RR	No change	Leptophlebiidae
<i>Cryptobiosella hastata</i> Henderson, 1983	caddisfly	Naturally Uncommon		Sp	No change	Philopotamidae
<i>Deleatidium (Deleatidium) acerbum</i> Hitchings & Hitchings, 2016	mayfly	Naturally Uncommon		DP	New listing	Leptophlebiidae
<i>Deleatidium (Deleatidium) branchiola</i> Hitchings, 2009	mayfly	Naturally Uncommon		DP, RR	No change	Leptophlebiidae
<i>Deleatidium (Deleatidium) kawatiri</i> Hitchings & Hitchings, 2016	mayfly	Naturally Uncommon		DP, Sp	New listing	Leptophlebiidae
<i>Deleatidium (Deleatidium) kiwa</i> Hitchings, 2010	mayfly	Naturally Uncommon		DP, Sp	No change	Leptophlebiidae
<i>Deleatidium (Deleatidium) magnum</i> Towns & Peters, 1996	mayfly	Naturally Uncommon		DP, Sp	No change	Leptophlebiidae
<i>Ecnomina zealandica</i> Wise, 1958	caddisfly	Naturally Uncommon		Sp	No change	Ecnomidae
<i>Edpercivalia harrisoni</i> Wise, 1982	caddisfly	Naturally Uncommon		DP, Sp	No change	Hydrobiosidae
<i>Edpercivalia morrisoni</i> Ward, 1998	caddisfly	Naturally Uncommon		RR	No change	Hydrobiosidae
<i>Edpercivalia oriens</i> Ward, 1997	caddisfly	Naturally Uncommon		RR, Sp	No change	Hydrobiosidae
<i>Hydrobiosis falcis</i> Wise, 1958	caddisfly	Naturally Uncommon		RR	No change	Hydrobiosidae
<i>Hydrobiosis lindsayi</i> Tillyard, 1925	caddisfly	Naturally Uncommon		IE, RR	No change	Hydrobiosidae
<i>Hydrochorema lyfordi</i> Ward, 1997	caddisfly	Naturally Uncommon		DP, RR	No change	Hydrobiosidae
<i>Kiwisaldula hurunui</i> Larivière and Larochelle, 2017	shore bug	Naturally Uncommon		DP, RR	New listing	Saldidae
<i>Kiwisaldula manawatawhi</i> Larivière & Larochelle, 2016	shore bug	Naturally Uncommon			New listing	Saldidae
<i>Kiwisaldula stoneri</i> (Drake & Hoberlandt, 1950)	shore bug	Naturally Uncommon		RR	New listing	Saldidae
<i>Leptopyrgus tainui</i> Haase, 2008	snail	Naturally Uncommon		RR	No change	Hydrobiidae
<i>Maiiulus aquilus</i> Towns & Peters, 1996	mayfly	Naturally Uncommon		DP, Sp	No change	Leptophlebiidae
<i>Megaleptoperla grandis</i> (Hudson, 1913)	stonefly	Naturally Uncommon		Sp	No change	Gripopterygidae
<i>Meridiopyrgus muaupoko</i> Haase, 2008	snail	Naturally Uncommon		Sp	No change	Hydrobiidae
<i>Namanereis tiriteae</i> (Winterbourn, 1969)	polychaete worm	Naturally Uncommon		RR, SO	No change	Nereididae

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Table 5 continued

NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Nesameletus murihiku</i> Hitchings & Staniczek, 2003	mayfly	Naturally Uncommon		DP, RR	No change	Nesameletidae
<i>Notamphisopus benhami</i> Nicholls, 1944	isopod	Naturally Uncommon		DP	Worse	Phreatoicidae
<i>Notamphisopus dunedinensis</i> (Chilton, 1906)	isopod	Naturally Uncommon		DP	Worse	Phreatoicidae
<i>Oecetis chathamensis</i> Tillyard, 1925	caddisfly	Naturally Uncommon		IE, RR	No change	Leptoceridae
<i>Oecetis iti</i> McFarlane, 1964	caddisfly	Naturally Uncommon		Sp	No change	Leptoceridae
<i>Opacuicola delira</i> Haase, 2008	snail	Naturally Uncommon		RR	No change	Hydrobiidae
<i>Oxyethira (Trichoglene) ahipara</i> Wise, 1998	caddisfly	Naturally Uncommon		RR, Sp	No change	Hydroptilidae
<i>Paroxyethira hintoni</i> Leader, 1972	caddisfly	Naturally Uncommon		Sp	No change	Hydroptilidae
<i>Paroxyethira pounamu</i> Ward & Henderson, 2004	caddisfly	Naturally Uncommon		Sp	No change	Hydroptilidae
<i>Paroxyethira takitimu</i> Ward & Henderson, 2004	caddisfly	Naturally Uncommon		Sp	No change	Hydroptilidae
<i>Philanisus fasciatus</i> Riek, 1976	caddisfly	Naturally Uncommon		IE, RR	No change	Chathamidae
<i>Philanisus mataua</i> Ward, 1995	caddisfly	Naturally Uncommon			No change	Chathamidae
<i>Philorheithrus harunae</i> Henderson & Ward, 2006	caddisfly	Naturally Uncommon		RR	No change	Philorheithridae
<i>Philorheithrus latentis</i> Henderson & Ward, 2006	caddisfly	Naturally Uncommon		RR, Sp	No change	Philorheithridae
<i>Phreatogammarus propinquus</i> Chilton, 1907	amphipod	Naturally Uncommon		RR, Sp	No change	Phoxocephalidae
<i>Podaena aotea</i> Delgado and Palma, 2010	beetle	Naturally Uncommon		IE	No change	Hydraenidae
<i>Podaena hauturu</i> Delgado and Palma, 2010	beetle	Naturally Uncommon		IE	No change	Hydraenidae
<i>Podaena kuscheli</i> Ordish, 1984	beetle	Naturally Uncommon		RR	No change	Hydraenidae
<i>Podaena moanaiti</i> Delgado and Palma, 2010	beetle	Naturally Uncommon		RR	No change	Hydraenidae
<i>Pseudoconesus hendersoni</i> Ward, 1997	caddisfly	Naturally Uncommon			No change	Oeconesidae
<i>Pycnocentria patricki</i> Ward, 1995	caddisfly	Naturally Uncommon		RR	No change	Conoesucidae
<i>Rakipyrgus gardneri</i> (Climo, 1974)	snail	Naturally Uncommon		RR	No change	Hydrobiidae
<i>Rakiuraperla nudipes</i> McLellan, 1977	stonefly	Naturally Uncommon		DP, RR	No change	Gripopterygidae
<i>Rakiurapyrgus cresswelli</i> (Climo, 1974)	snail	Naturally Uncommon		RR	No change	Hydrobiidae
<i>Rhantus plantaris</i> Sharp, 1882	diving beetle	Naturally Uncommon		DP, Sp	No change	Dytiscidae
<i>Rungaperla campbelli</i> (Illies, 1963)	stonefly	Naturally Uncommon		DP, IE, OL	No change	Gripopterygidae
<i>Rungaperla longicauda</i> (Illies, 1963)	stonefly	Naturally Uncommon		DP, IE, RR	No change	Gripopterygidae
<i>Sororipyrgus kutukutu</i> Haase, 2008	snail	Naturally Uncommon		RR	No change	Hydrobiidae
<i>Sororipyrgus raki</i> Haase, 2008	snail	Naturally Uncommon		PD	No change	Hydrobiidae
<i>Stenoperla helsoni</i> McLellan, 1996	stonefly	Naturally Uncommon		RR	No change	Eustheniidae

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Table 5 continued

NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Tiphobiosis cataractae</i> Ward, 1995	caddisfly	Naturally Uncommon			No change	Hydrobiosidae
<i>Tiphobiosis trifurca</i> McFarlane, 1981	caddisfly	Naturally Uncommon		RR, Sp	No change	Hydrobiosidae
<i>Trillochorema rakiura</i> McFarlane, 1981	caddisfly	Naturally Uncommon		IE, RR	No change	Hydrobiosidae
<i>Trillochorema wardorum</i> Henderson, 2008	caddisfly	Naturally Uncommon		RR	No change	Hydrobiosidae
<i>Tramea transmarina</i> Braeur, 1867	dragonfly	Naturally Uncommon		DP	Neutral	Lebellulidae
<i>Vesicaperla celmisia</i> McLellan, 2003	stonefly	Naturally Uncommon		DP, RR	No change	Gripopterygidae
<i>Zemacrosaldula pangare</i> Larivière & Larochelle, 2015	shore bug	Naturally Uncommon		RR	New listing	Saldidae
<i>Zephlebia nebulosa</i> Towns & Peters, 1996	mayfly	Naturally Uncommon		DP	No change	Leptophlebiidae
<i>Zephlebia pirongia</i> Towns & Peters, 1996	mayfly	Naturally Uncommon		DP, RR	Worse	Leptophlebiidae
<i>Zephlebia tuberculata</i> Towns & Peters, 1996	mayfly	Naturally Uncommon		DP	Neutral	Leptophlebiidae
Taxonomically indeterminate (6)						
<i>Paraleptamphopus</i> sp. "lobatus"	amphipod	Naturally Uncommon			No change	Paracalliopiidae
<i>Paraleptamphopus</i> sp. "maniatoto"	amphipod	Naturally Uncommon			No change	Paracalliopiidae
<i>Paraleptamphopus</i> sp. "moto"	amphipod	Naturally Uncommon			No change	Paracalliopiidae
<i>Paraleptamphopus</i> sp. "murihiku"	amphipod	Naturally Uncommon		OL	No change	Paracalliopiidae
<i>Paraleptamphopus</i> sp. "whakahirahira"	amphipod	Naturally Uncommon			No change	Paracalliopiidae
<i>Pycnocentria</i> n. sp. B	caddisfly	Naturally Uncommon			No change	Conoesucidae
NOT THREATENED (315)						
Taxonomically determinate (308)						
<i>Acanthophlebia cruentata</i> (Hudson, 1904)	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Acroperla flavescens</i> (Kimmins, 1938)	stonefly	Not Threatened			No change	Gripopterygidae
<i>Acroperla samueli</i> McLellan, 1977	stonefly	Not Threatened			No change	Gripopterygidae
<i>Acroperla trivacuata</i> (Tillyard, 1923)	stonefly	Not Threatened			No change	Gripopterygidae
<i>Aeshna brevistyla</i> (Rambur, 1842)	dragonfly	Not Threatened			No change	Aeshnidae
<i>Afropisidium hodgkini</i> (Suter, 1905)	clam	Not Threatened			No change	Sphaeriidae
<i>Alloecentrella linearis</i> Henderson & Ward, 2007	caddisfly	Not Threatened			No change	Helicophidae
<i>Alloecentrella magnicornis</i> Wise, 1958	caddisfly	Not Threatened			No change	Helicophidae
<i>Ameletopsis perscitus</i> (Eaton, 1899)	mayfly	Not Threatened			No change	Ameletopsidae
<i>Anisops assimilis</i> White, 1878	back-swimmer	Not Threatened			New listing	Notonectidae
<i>Anisops wakefieldi</i> White, 1878	back-swimmer	Not Threatened			New listing	Notonectidae
<i>Antiporus uncifer</i> Sharp, 1882	beetle	Not Threatened			No change	Dytiscidae
<i>Aoteasalda maculipennis</i> (Cobben, 1961)	shore bug	Not Threatened			New listing	Saldidae
<i>Arachnocolus phillipsi</i> Towns & Peters, 1979	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Archichauliodes diversus</i> (Walker, 1853)	dobsonfly	Not Threatened			No change	Corydalidae
<i>Atalophlebioides cromwelli</i> (Phillips, 1930)	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Atrachorema macfarlanei</i> Ward, 1991	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Atrachorema tuarua</i> McFarlane, 1966	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Austridotea lacustris</i> (Thomson, 1879)	isopod	Not Threatened			No change	Idoteidae

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Table 5 continued

NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Austroclima jollyae</i> Towns & Peters, 1979	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Austroclima sepia</i> (Phillips, 1930)	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Austrolestes colenisonis</i> (White, 1846)	damselfly	Not Threatened			No change	Lestidae
<i>Austronella planulata</i> (Towns, 1983)	mayfly	Not Threatened		DP	Better	Leptophlebiidae
<i>Austroperla cyrene</i> (Newman, 1845)	stonefly	Not Threatened			No change	Austroperlidae
<i>Beraeoptera roria</i> Mosely, 1953	caddisfly	Not Threatened			No change	Conoesucidae
<i>Berosus (Phelerosus) pallidipennis</i> (Sharp, 1884)	beetle	Not Threatened			No change	Hydrophilidae
<i>Chathamia integripennis</i> Riek, 1976	caddisfly	Not Threatened			No change	Chathamidae
<i>Coloburiscus humeralis</i> (Walker, 1853)	mayfly	Not Threatened			No change	Coloburiscidae
<i>Confluens hamiltoni</i> (Tillyard, 1924)	caddisfly	Not Threatened			No change	Conoesucidae
<i>Confluens olingoides</i> (Tillyard, 1924)	caddisfly	Not Threatened			No change	Conoesucidae
<i>Costachorema callistum</i> McFarlane, 1939	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Costachorema hecton</i> McFarlane, 1981	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Costachorema psaropteron</i> McFarlane, 1939	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Costachorema xanthopteron</i> McFarlane, 1939	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Cristaperla eylesi</i> McLellan, 1991	stonefly	Not Threatened		Sp	No change	Notonemouridae
<i>Cristaperla fimbria</i> (Winterbourn, 1965)	stonefly	Not Threatened			No change	Notonemouridae
<i>Cristaperla waharoa</i> McLellan, 1991	stonefly	Not Threatened			No change	Notonemouridae
<i>Cura pinguis</i> (Weiss, 1910)	flatworm	Not Threatened		SO	No change	Dugesidae
<i>Cyclocalyx novaezelandiae</i> (Prime, 1862)	clam	Not Threatened			No change	Sphaeriidae
<i>Deleatidium (Deleatidium) angustum</i> Towns & Peters, 1996	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Deleatidium (Deleatidium) atricolor</i> Hitchings, 2009	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Deleatidium (Deleatidium) autumnale</i> Phillips, 1930	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Deleatidium (Deleatidium) cerinum</i> Phillips, 1930	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Deleatidium (Deleatidium) fumosum</i> Phillips, 1930	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Deleatidium (Deleatidium) lillii</i> Eaton, 1899	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Deleatidium (Deleatidium) myzobranchia</i> Phillips, 1930	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Deleatidium (Deleatidium) townsi</i> Hitchings, 2009	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Deleatidium (Deleatidium) vernale</i> Phillips, 1930	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Deleatidium (Deleatidium) wardorum</i> Hitchings, 2010	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Deleatidium (Penniketellum) cornutum</i> Towns & Peters, 1996	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Deleatidium (Penniketellum) patricki</i> Hitchings, 2008	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Diaprepocoris zealandiae</i> Hale, 1924	water boatman	Not Threatened			New listing	Corixidae
<i>Didymorchis paranephris</i> Haswell, 1900	flatworm	Not Threatened		DP	No change	Temnocephalidae
<i>Diplacodes bipunctata</i> (Brauer, 1865)	dragonfly	Not Threatened			No change	Libellulidae
<i>Diplectrona bulla</i> Wise, 1958	caddisfly	Not Threatened			No change	Hydropsychidae
<i>Diplectrona zealandensis</i> Mosely, 1953	caddisfly	Not Threatened			No change	Hydropsychidae
<i>Edpercivalia cassicola</i> (McFarlane, 1939)	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Edpercivalia fusca</i> (McFarlane, 1939)	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Edpercivalia maxima</i> (McFarlane, 1939)	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Edpercivalia schistaria</i> Ward, 2005	caddisfly	Not Threatened			No change	Hydrobiosidae

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NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Edpercivalia shandi</i> (McFarlane, 1951)	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Edpercivalia spaini</i> McFarlane, 1973	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Edpercivalia thomasoni</i> (McFarlane, 1960)	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Enochrus (Methydrus) maculiceps</i> (MacLeay, 1871)	beetle	Not Threatened			No change	Hydrophilidae
<i>Enochrus (Methydrus) tritus</i> (Broun, 1880)	beetle	Not Threatened			No change	Hydrophilidae
<i>Euchordodes nigromaculatus</i> Poinar, 1991	Gordian worm	Not Threatened			New listing	Chordodidae
<i>Ferrissia dohmianus</i> (Clessin, 1882)	limpet	Not Threatened			No change	Planorbidae
<i>Ferrissia neozelanicus</i> (Suter, 1905)	limpet	Not Threatened			No change	Planorbidae
<i>Gastrosaccus australis</i> W. Tattersall, 1923	mysid shrimp	Not Threatened			No change	Mysidae
<i>Gordionus maori</i> Yadav, Tobias and Schmidt-Rhaesa, 2018	Gordian worm	Not Threatened			New listing	Chordodidae
<i>Gordius dimorphus</i> Poinar, 1991	Gordian worm	Not Threatened			New listing	Gordiidae
<i>Gyraulus corinna</i> (Gray, 1850)	snail	Not Threatened			No change	Planorbidae
<i>Halopyrgus pagodulus</i> Haase, 2008	snail	Not Threatened			No change	Hydrobiidae
<i>Halopyrgus pupoides</i> (Hutton, 1882)	snail	Not Threatened			No change	Hydrobiidae
<i>Halticoperla gibbsi</i> McLellan, 1991	stonefly	Not Threatened			No change	Notonemouridae
<i>Halticoperla tara</i> McLellan, 1991	stonefly	Not Threatened			No change	Notonemouridae
<i>Halticoperla viridans</i> McLellan & Winterbourn, 1968	stonefly	Not Threatened			No change	Notonemouridae
<i>Helicopsyche (Saetotricha) albescens</i> Tillyard, 1924	caddisfly	Not Threatened			No change	Helicopsychidae
<i>Helicopsyche (Saetotricha) howesi</i> Tillyard, 1924	caddisfly	Not Threatened			No change	Helicopsychidae
<i>Helicopsyche (Saetotricha) poutini</i> McFarlane, 1964	caddisfly	Not Threatened			No change	Helicopsychidae
<i>Helicopsyche (Saetotricha) zealandica</i> Hudson, 1904	caddisfly	Not Threatened			No change	Helicopsychidae
<i>Hemicordulia australiae</i> Rambur, 1842	dragonfly	Not Threatened			Neutral	Corduliidae
<i>Holcoperla angularis</i> (Wisely, 1953)	stonefly	Not Threatened		Sp	No change	Gripopterygidae
<i>Holcoperla jacksoni</i> McLellan, 1977	stonefly	Not Threatened		DP	No change	Gripopterygidae
<i>Holcoperla magna</i> McLellan, 1983	stonefly	Not Threatened		Sp	No change	Gripopterygidae
<i>Hudsonema alienum</i> (McLachlan, 1868)	caddisfly	Not Threatened			No change	Leptoceridae
<i>Hudsonema amabile</i> (McLachlan, 1868)	caddisfly	Not Threatened			No change	Leptoceridae
<i>Huxelhydrus syntheticus</i> Sharp, 1882	beetle	Not Threatened			No change	Dytiscidae
<i>Hydrobiosella mixta</i> (Cowley, 1976)	caddisfly	Not Threatened			No change	Philopotamidae
<i>Hydrobiosella stenocerca</i> Tillyard, 1924	caddisfly	Not Threatened			No change	Philopotamidae
<i>Hydrobiosella tonela</i> (Mosely, 1953)	caddisfly	Not Threatened			No change	Philopotamidae
<i>Hydrobiosis budgei</i> McFarlane, 1960	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis centralis</i> Ward, 1997	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis chalcodes</i> McFarlane, 1981	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis charadraea</i> McFarlane, 1951	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis clavigera</i> McFarlane, 1951	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis copis</i> McFarlane, 1960	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis frater</i> McLachlan, 1868	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis gollanis</i> Mosely, 1953	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis harpidiosa</i> McFarlane, 1951	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis johnsi</i> McFarlane, 1981	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis kiddi</i> McFarlane, 1951	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis neadelphus</i> Ward, 1997	caddisfly	Not Threatened			No change	Hydrobiosidae

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Table 5 continued

NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Hydrobiosis parumbripennis</i> McFarlane, 1951	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis sherleyi</i> Ward, 1998	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis silvicola</i> McFarlane, 1951	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis soror</i> Mosely, 1953	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis spatulata</i> McFarlane, 1951	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis styracine</i> McFarlane, 1960	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis torrentis</i> Ward, 1995	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrobiosis umbripennis</i> McLachlan, 1868	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrochorema crassicaudatum</i> Tillyard, 1924	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrochorema tenuicaudatum</i> Tillyard, 1924	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Hydrometra strigosa</i> (Skuse, 1893)	water measurer	Not Threatened			New listing	Hydrometridae
<i>Hydropsyche catherinae</i> McFarlane, 1960	caddisfly	Not Threatened			No change	Hydropsychidae
<i>Hydropsyche colonica</i> McLachlan, 1871	caddisfly	Not Threatened			No change	Hydropsychidae
<i>Hydropsyche fimbriata</i> McLachlan, 1862	caddisfly	Not Threatened			No change	Hydropsychidae
<i>Hydropsyche philpotti</i> Tillyard, 1924	caddisfly	Not Threatened			No change	Hydropsychidae
<i>Hydropsyche rarururu</i> McFarlane, 1973	caddisfly	Not Threatened			No change	Hydropsychidae
<i>Hydropsyche tepoka</i> (Mosely, 1953)	caddisfly	Not Threatened			No change	Hydropsychidae
<i>Hydropsyche thomasi</i> Wise, 1962	caddisfly	Not Threatened		Sp	No change	Hydropsychidae
<i>Hydropsyche tipua</i> McFarlane, 1964	caddisfly	Not Threatened			No change	Hydropsychidae
<i>Hydropsyche winterbourni</i> (Smith, 2008)	caddisfly	Not Threatened			No change	Hydropsychidae
<i>Hygraula nitens</i> (Butler, 1880)	moth	Not Threatened			No change	Crambidae
<i>Ichthybotus bicolor</i> Tillyard, 1923	mayfly	Not Threatened			No change	Ephemeraidae
<i>Ichthybotus hudsoni</i> (McLachlan, 1894)	mayfly	Not Threatened			No change	Ephemeraidae
<i>Ischnura aurora</i> (Brauer, 1865)	damselfly	Not Threatened		DP	Neutral	Coenagrionidae
<i>Kiwisaldula butleri</i> (White, 1878)	shore bug	Not Threatened			New listing	Saldidae
<i>Kiwisaldula parvula</i> (Cobben, 1961)	shore bug	Not Threatened			New listing	Saldidae
<i>Kiwisaldula porangahau</i> Larivière & Laroche, 2016	shore bug	Not Threatened			New listing	Saldidae
<i>Lancetes lanceolatus</i> (Clark, 1863)	beetle	Not Threatened			No change	Dytiscidae
<i>Latia neritoides</i> Gray, 1850	limpet	Not Threatened			No change	Latiidae
<i>Liodessus deflectus</i> Ordish, 1966	beetle	Not Threatened			No change	Dytiscidae
<i>Liodessus plicatus</i> (Sharp, 1882)	beetle	Not Threatened			No change	Dytiscidae
<i>Mauiulus luma</i> Towns & Peters, 1979	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Megaleptoperla diminuta</i> Kimmins, 1938	stonefly	Not Threatened			No change	Gripopterygidae
<i>Mesostoma ehrenbergii</i> (Focke, 1836)	flatworm	Not Threatened			No change	Typhloplanidae
<i>Microvelia</i> (Pacifiovelia) <i>macgregori</i> (Kirkaldy, 1899)	water strider	Not Threatened			New listing	Veliidae
<i>Mniovelia kuscheli</i> Andersen & Polhemus, 1980	water treader	Not Threatened			New listing	Mesoveliidae
<i>Nannochorista philpotti</i> (Tillyard, 1917)	scorpionfly	Not Threatened			No change	Nannochoristidae
<i>Neozephlebia scita</i> (Walker, 1853)	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Neppia montana</i> (Nurse, 1950)	flatworm	Not Threatened			No change	Dugesidae
<i>Nesameletus austrinus</i> Hitchings & Staniczek, 2003	mayfly	Not Threatened			No change	Nesameletidae
<i>Nesameletus flavitinctus</i> (Tillyard, 1923)	mayfly	Not Threatened			No change	Nesameletidae
<i>Nesameletus ornatus</i> (Eaton, 1882)	mayfly	Not Threatened			No change	Nesameletidae
<i>Nesoperla fulvescens</i> Tillyard, 1923	stonefly	Not Threatened			No change	Gripopterygidae
<i>Neurochorema armstrongi</i> McFarlane, 1951	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Neurochorema confusum</i> (McLachlan, 1868)	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Neurochorema forsteri</i> McFarlane, 1964	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Notonemoura aisteri</i> McLellan, 1968	stonefly	Not Threatened			No change	Notonemouridae

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Table 5 continued

NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Notonemoura latipennis</i> Tillyard, 1923	stonefly	Not Threatened			No change	Notonemouridae
<i>Notonemoura winstanleyi</i> McLellan, 1991	stonefly	Not Threatened		DP	No change	Notonemouridae
<i>Oecetis unicolor</i> (McLachlan, 1868)	caddisfly	Not Threatened			No change	Leptoceridae
<i>Oeconesus incisus</i> Mosely, 1953	caddisfly	Not Threatened			No change	Oeconesidae
<i>Oeconesus maori</i> McLachlan, 1862	caddisfly	Not Threatened			No change	Oeconesidae
<i>Oeconesus similis</i> Mosely, 1953	caddisfly	Not Threatened			No change	Oeconesidae
<i>Olinga feredayi</i> (McLachlan, 1868)	caddisfly	Not Threatened			No change	Conoesucidae
<i>Olinga jeanae</i> McFarlane, 1966	caddisfly	Not Threatened			No change	Conoesucidae
<i>Omanuperla bruningi</i> McLellan, 1972	stonefly	Not Threatened			No change	Notonemouridae
<i>Oniscigaster distans</i> Eaton, 1899	mayfly	Not Threatened			No change	Oniscigastridae
<i>Onychohydus hookeri</i> (White, 1846)	beetle	Not Threatened			No change	Dytiscidae
<i>Oxyethira (Trichoglene) albiceps</i> (McLachlan, 1862)	caddisfly	Not Threatened			No change	Hydroptilidae
<i>Paracalliope fluviatilis</i> (Thomson, 1879)	amphipod	Not Threatened			No change	Paracalliopeidae
<i>Parachordodes diblastus</i> (Orley, 1981)	Gordian worm	Not Threatened			New listing	Chordodidae
<i>Paracorophium excavatum</i> (Thomson, 1884)	amphipod	Not Threatened			No change	Corophiidae
<i>Paracorophium lucasi</i> Hurley, 1954	amphipod	Not Threatened			No change	Corophiidae
<i>Paracymus pygmaeus</i> (Macleay, 1871)	beetle	Not Threatened			No change	Hydrophilidae
<i>Paranephrops planifrons</i> White, 1842	crayfish/koura	Not Threatened			No change	Parastacidae
<i>Paratya curvirostris</i> (Heller, 1862)	shrimp	Not Threatened			No change	Atyidae
<i>Paroxyethira auldorum</i> Ward & Henderson, 2004	caddisfly	Not Threatened			No change	Hydroptilidae
<i>Paroxyethira dunedensis</i> Ward & Henderson, 2004	caddisfly	Not Threatened			No change	Hydroptilidae
<i>Paroxyethira eatoni</i> Mosely, 1924	caddisfly	Not Threatened			No change	Hydroptilidae
<i>Paroxyethira hendersoni</i> Mosely, 1924	caddisfly	Not Threatened			No change	Hydroptilidae
<i>Paroxyethira teika</i> Ward & Henderson, 2004	caddisfly	Not Threatened			No change	Hydroptilidae
<i>Paroxyethira tillyardi</i> Mosely, 1924	caddisfly	Not Threatened			No change	Hydroptilidae
<i>Periwinkla childi</i> McFarlane, 1973	caddisfly	Not Threatened			No change	Conoesucidae
<i>Philanisus plebeius</i> Walker, 1852	caddisfly	Not Threatened		SO	No change	Chathamidae
<i>Philorheithrus agilis</i> (Hudson, 1904)	caddisfly	Not Threatened			No change	Philorheithridae
<i>Philorheithrus aliciae</i> Henderson & Ward, 2006	caddisfly	Not Threatened			No change	Philorheithridae
<i>Philorheithrus lacustris</i> Tillyard, 1924	caddisfly	Not Threatened			No change	Philorheithridae
<i>Phreatogammarus helmsi</i> Chilton, 1918	amphipod	Not Threatened			No change	Phoxocephalidae
<i>Plectrocnemia maclachlani</i> Mosely, 1953	caddisfly	Not Threatened			No change	Polycentropodidae
<i>Plectrocnemia tuhuae</i> Ward, 1995	caddisfly	Not Threatened			No change	Polycentropodidae
<i>Podaena dentipalpis</i> Ordish, 1984	beetle	Not Threatened			No change	Hydraenidae
<i>Podaena latipalpis</i> Ordish, 1984	beetle	Not Threatened			No change	Hydraenidae
<i>Podaena maclellani</i> (Zwick, 1975)	beetle	Not Threatened			No change	Hydraenidae
<i>Podaena obscura</i> Ordish, 1984	beetle	Not Threatened			No change	Hydraenidae
<i>Podaena trochanteralis</i> Ordish, 1984	beetle	Not Threatened			No change	Hydraenidae
<i>Polyplectropus altera</i> McFarlane, 1981	caddisfly	Not Threatened			No change	Polycentropidae
<i>Polyplectropus aurifusca</i> McFarlane, 1956	caddisfly	Not Threatened			No change	Polycentropidae
<i>Polyplectropus impluvii</i> Wise, 1962	caddisfly	Not Threatened			No change	Polycentropidae
<i>Polyplectropus puerilis</i> (McLachlan, 1868)	caddisfly	Not Threatened			No change	Polycentropidae
<i>Potamopyrgus antipodarum</i> (Gray, 1843)	snail	Not Threatened			No change	Hydrobiidae
<i>Potamopyrgus estuarinus</i> Winterbourn, 1970	snail	Not Threatened			No change	Hydrobiidae
<i>Procordulia grayi</i> (Selys, 1871)	dragonfly	Not Threatened			No change	Corduliidae
<i>Procordulia smithii</i> (White, 1846)	dragonfly	Not Threatened			No change	Corduliidae
<i>Prorhynchus putealis</i> Haswell, 1898	flatworm	Not Threatened			No change	Prorhynchidae

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Table 5 continued

NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Pseudoeconesus bistirpis</i> Wise, 1958	caddisfly	Not Threatened			No change	Oeconesidae
<i>Pseudoeconesus hudsoni</i> Mosely, 1953	caddisfly	Not Threatened			No change	Oeconesidae
<i>Pseudoeconesus mimus</i> McLachlan, 1894	caddisfly	Not Threatened			No change	Oeconesidae
<i>Pseudoeconesus squamosus</i> Mosely, 1953	caddisfly	Not Threatened			No change	Oeconesidae
<i>Pseudoeconesus stramineus</i> McLachlan, 1894	caddisfly	Not Threatened			No change	Oeconesidae
<i>Psilochorema acheir</i> McFarlane, 1981	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Psilochorema bidens</i> McFarlane, 1951	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Psilochorema cheirodes</i> McFarlane, 1981	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Psilochorema donaldsoni</i> McFarlane, 1960	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Psilochorema embersoni</i> Wise, 1982	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Psilochorema leptoharpax</i> McFarlane, 1951	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Psilochorema macroharpax</i> McFarlane, 1951	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Psilochorema mataura</i> McFarlane, 1956	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Psilochorema mimicum</i> McLachlan, 1866	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Psilochorema nemorale</i> McFarlane, 1951	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Psilochorema tauroru</i> McFarlane, 1964	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Psilochorema vomerharpax</i> McFarlane, 1964	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Pycnocentrella eruensis</i> Mosely, 1953	caddisfly	Not Threatened			No change	Calocidae
<i>Pycnocentria evecta</i> McLachlan, 1868	caddisfly	Not Threatened			No change	Conoesucidae
<i>Pycnocentria forcipata</i> Mosely, 1953	caddisfly	Not Threatened			No change	Conoesucidae
<i>Pycnocentria funerea</i> McLachlan, 1866	caddisfly	Not Threatened			No change	Conoesucidae
<i>Pycnocentria gunni</i> (McFarlane, 1956)	caddisfly	Not Threatened			No change	Conoesucidae
<i>Pycnocentria hawdonia</i> McFarlane, 1956	caddisfly	Not Threatened			No change	Conoesucidae
<i>Pycnocentria sylvestris</i> McFarlane, 1973	caddisfly	Not Threatened			No change	Conoesucidae
<i>Pycnocentroides aeris</i> Wise, 1958	caddisfly	Not Threatened			No change	Conoesucidae
<i>Pycnocentroides aureolus</i> (McLachlan, 1868)	caddisfly	Not Threatened			No change	Conoesucidae
<i>Rakiura vernale</i> McFarlane, 1973	caddisfly	Not Threatened			No change	Helicopsychidae
<i>Rallidens mcfarlanei</i> Penniket, 1966	mayfly	Not Threatened			No change	Rallidentidae
<i>Rhantus suturalis</i> (Macleay, 1825)	diving beetle	Not Threatened			No change	Dytiscidae
<i>Sigara (Tropocorixa) arguta</i> (White, 1878)	water boatman	Not Threatened			New listing	Corixidae
<i>Sigara (Tropocorixa) infrequens</i> Young, 1962	water boatman	Not Threatened			New listing	Corixidae
<i>Sigara (Tropocorixa) potamius</i> Young, 1962	water boatman	Not Threatened			New listing	Corixidae
<i>Sigara (Tropocorixa) uruana</i> Young, 1962	water boatman	Not Threatened			New listing	Corixidae
<i>Spaniocerca acuta</i> McLellan, 1991	stonefly	Not Threatened		DP	No change	Notonemouridae
<i>Spaniocerca bicornuta</i> McLellan, 1987	stonefly	Not Threatened			No change	Notonemouridae
<i>Spaniocerca longicauda</i> McLellan, 1977	stonefly	Not Threatened			No change	Notonemouridae
<i>Spaniocerca minor</i> Kimmins, 1938	stonefly	Not Threatened			No change	Notonemouridae
<i>Spaniocerca zelandica</i> Tillyard, 1923	stonefly	Not Threatened			No change	Notonemouridae
<i>Spaniocerca zwicki</i> McLellan, 1991	stonefly	Not Threatened			No change	Notonemouridae
<i>Spaniocercoides cowleyi</i> (Winterbourn, 1965)	stonefly	Not Threatened			No change	Notonemouridae
<i>Spaniocercoides foxi</i> McLellan, 1984	stonefly	Not Threatened			No change	Notonemouridae
<i>Spaniocercoides howesi</i> McLellan, 1984	stonefly	Not Threatened			No change	Notonemouridae
<i>Spaniocercoides hudsoni</i> Kimmins, 1938	stonefly	Not Threatened			No change	Notonemouridae
<i>Spaniocercoides philpotti</i> Winterbourn, 1965	stonefly	Not Threatened			No change	Notonemouridae
<i>Spaniocercoides townsendi</i> McLellan, 1984	stonefly	Not Threatened			No change	Notonemouridae
<i>Spathula schauinslandi</i> (Neppi, 1904)	flatworm	Not Threatened			No change	Dugesidae
<i>Sphaerium (Sphaerinova) novaezelandiae</i> Deshayes, 1853	clam	Not Threatened			No change	Sphaeriidae

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Table 5 continued

NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Stenoperla hendersoni</i> McLellan, 1996	stonefly	Not Threatened			No change	Eustheniidae
<i>Stenoperla maclellani</i> Zwick, 1979	stonefly	Not Threatened			No change	Eustheniidae
<i>Stenoperla prasina</i> (Newman, 1845)	stonefly	Not Threatened			No change	Eustheniidae
<i>Synchorema tillyardi</i> McFarlane, 1964	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Synchorema zygoneurum</i> Tillyard, 1924	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Taraperla ancillis</i> (Harding & Chadderton, 1995)	stonefly	Not Threatened		Sp	No change	Gripopterygidae
<i>Taraperla howesi</i> (Tillyard, 1923)	stonefly	Not Threatened			No change	Gripopterygidae
<i>Taraperla pseudocyrene</i> McLellan, 1998	stonefly	Not Threatened			No change	Gripopterygidae
<i>Tarapsyche olis</i> McFarlane, 1960	caddisfly	Not Threatened			No change	Oeconesidae
<i>Temnohaswellia novaezealandiae</i> (Haswell, 1888)	flatworm	Not Threatened		DP	No change	Temnocephalidae
<i>Tenagomysis chiltoni</i> W. Tattersall, 1923	mysid shrimp	Not Threatened			No change	Mysidae
<i>Tenagomysis novaezealandiae</i> Thomson, 1900	mysid shrimp	Not Threatened			No change	Mysidae
<i>Tepakia caligata</i> Towns & Peters, 1996	mayfly	Not Threatened			No change	Hydrobiosidae
<i>Tiphobiosis childi</i> McFarlane, 1981	caddisfly	Not Threatened		Sp	No change	Hydrobiosidae
<i>Tiphobiosis cowiei</i> Ward, 1991	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Tiphobiosis intermedia</i> Mosely, 1953	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Tiphobiosis montana</i> Tillyard, 1924	caddisfly	Not Threatened		Sp	No change	Hydrobiosidae
<i>Tiphobiosis plicosta</i> McFarlane, 1960	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Tiphobiosis veniflex</i> McFarlane, 1960	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Triplectides cephalotes</i> (Walker, 1852)	caddisfly	Not Threatened			No change	Leptoceridae
<i>Triplectides dolichos</i> McFarlane, 1981	caddisfly	Not Threatened			No change	Leptoceridae
<i>Triplectides obsoletus</i> (McLachlan, 1862)	caddisfly	Not Threatened			No change	Leptoceridae
<i>Triplectidina moselyi</i> McFarlane & Ward, 1990	caddisfly	Not Threatened			No change	Leptoceridae
<i>Triplectidina oreolimnetes</i> (Tillyard, 1924)	caddisfly	Not Threatened			No change	Leptoceridae
<i>Uropetala carovei</i> (White, 1843)	dragonfly	Not Threatened			No change	Petaluridae
<i>Uropetala chiltoni</i> Tillyard, 1921	dragonfly	Not Threatened			No change	Petaluridae
<i>Xanthocnemis sobrina</i> (McLachlan, 1873)	damselfly	Not Threatened			No change	Coenagrionidae
<i>Xanthocnemis tuanuii</i> Rowe, 1981	damselfly	Not Threatened		IE	No change	Coenagrionidae
<i>Xanthocnemis zealandica</i> (McLachlan, 1873)	damselfly	Not Threatened			No change	Coenagrionidae
<i>Zelandobius alatus</i> McLellan, 1993	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandobius albofasciatus</i> McLellan, 1993	stonefly	Not Threatened		Sp	No change	Gripopterygidae
<i>Zelandobius childi</i> McLellan, 1993	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandobius confusus</i> Tillyard, 1923	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandobius cordatus</i> McLellan, 1993	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandobius foxi</i> McLellan, 1993	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandobius furcillatus</i> Tillyard, 1923	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandobius gibbsi</i> McLellan, 1993	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandobius illiesi</i> McLellan, 1969	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandobius kuscheli</i> McLellan, 1993	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandobius patricki</i> McLellan, 1993	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandobius pilosus</i> Death, 1990	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandobius truncus</i> McLellan, 1993	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandobius unicolor</i> Tillyard, 1923	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandoperla agnetis</i> McLellan, 1967	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandoperla decorata</i> Tillyard, 1923	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandoperla denticulata</i> McLellan, 1967	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandoperla fenestrata</i> Tillyard, 1923	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandoperla pennulata</i> McLellan, 1967	stonefly	Not Threatened			No change	Gripopterygidae
<i>Zelandoperla tillyardi</i> McLellan, 1999	stonefly	Not Threatened			No change	Gripopterygidae

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Table 5 continued

NAME AND AUTHORITY	COMMON NAME	CONSERVATION STATUS	CRITERIA	QUALIFIERS	STATUS CHANGE	FAMILY NAME
<i>Zelandopsyche ingens</i> Tillyard, 1921	caddisfly	Not Threatened			No change	Oeconesidae
<i>Zelandopsyche macellani</i> McFarlane, 1981	caddisfly	Not Threatened			No change	Oeconesidae
<i>Zelandoptila moselyi</i> Tillyard, 1924	caddisfly	Not Threatened			No change	Psychomyiidae
<i>Zelolessica cheira</i> McFarlane, 1956	caddisfly	Not Threatened			No change	Helicophidae
<i>Zelolessica meizon</i> McFarlane, 1981	caddisfly	Not Threatened			No change	Helicophidae
<i>Zemacrosaldula australis</i> (White, 1876)	shore bug	Not Threatened			New listing	Saldidae
<i>Zemacrosaldula kapekape</i> Larivière & Larochelle, 2015	shore bug	Not Threatened			New listing	Saldidae
<i>Zemacrosaldula whakarunga</i> Larivière & Larochelle, 2015	shore bug	Not Threatened			New listing	Saldidae
<i>Zemelanopsis trifasciata</i> (Gray, 1843)	snail	Not Threatened			No change	Melanopsidae
<i>Zephlebia borealis</i> (Phillips, 1930)	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Zephlebia dentata</i> (Eaton, 1871)	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Zephlebia inconspicua</i> Towns, 1983	mayfly	Not Threatened		DP	No change	Leptophlebiidae
<i>Zephlebia spectabilis</i> Towns, 1983	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Zephlebia versicolor</i> (Eaton, 1899)	mayfly	Not Threatened			No change	Leptophlebiidae
<i>Zepsyche acinaces</i> McFarlane, 1960	caddisfly	Not Threatened			No change	Oeconesidae
Taxonomically indeterminate (7)						
<i>Hudsonema</i> n. sp. BP	caddisfly	Not Threatened			No change	Leptoceridae
<i>Hydrochorema</i> n. sp. C	caddisfly	Not Threatened			No change	Hydrobiosidae
<i>Paraleptamphopus</i> sp. "academicus"	amphipod	Not Threatened			No change	Paracalliopiidae
<i>Pycnocentria</i> n. sp. A	caddisfly	Not Threatened			No change	Conoesucidae
<i>Pycnocentria</i> n. sp. C	caddisfly	Not Threatened			No change	Conoesucidae
<i>Tiphobiosis</i> n. sp. A	caddisfly	Not Threatened		Sp	No change	Hydrobiosidae
<i>Tiphobiosis</i> n. sp. E	caddisfly	Not Threatened		Sp	No change	Hydrobiosidae
NON-RESIDENT NATIVE (3)						
Coloniser (2)						
<i>Anax papuensis</i> (Burmeister, 1839)	dragonfly	Coloniser			No change	Aeshnidae
<i>Tramea loewii</i> Kaup in Brauer, 1866	dragonfly	Coloniser		RR	No change	Lebellulidae
Vagrant (1)						
<i>Pantala flavescens</i> (Fabricius, 1798)	dragonfly	Vagrant			No change	Libellulidae
INTRODUCED AND NATURALISED (2)						
<i>Agraptocorixa hirtifrons</i> (Hale, 1922)	water boatman	Introduced & naturalised			New listing	Corixidae
<i>Mesovelia hackeri</i> Harris & Drake, 1941	water treater	Introduced & naturalised			New listing	Mesoveliidae

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

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.

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 fuller definition see Townsend et al. 2008).

Threatened

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

Nationally Critical (6)

Criteria for Nationally Critical:

A – very small population (natural or unnatural)

A(1) <250 mature individuals

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 an ongoing or forecast decline of 50–70% over 3 generations (minimum 10 years)

B(1) 250–1000 mature individuals

B(2) ≤5 subpopulations, ≤300 mature individuals in the largest subpopulation

B(3) Total area of occupancy ≤10 ha (0.1 km²)

C – population (irrespective of size or number of subpopulations) with an ongoing or forecast decline of >70% over 3 generations (minimum 10 years)

C Predicted decline >70%

Nationally Endangered

Criteria for Nationally Endangered:

A – small population that has an ongoing or forecast decline of 10–50% over 3 generations (minimum 10 years)

A(1) 250–1000 mature individuals

A(2) ≤5 subpopulations, ≤300 mature individuals in the largest subpopulation

A(3) Total area of occupancy ≤10 ha (0.1 km²)

B – unnaturally small population that has an ongoing or forecast stable state of ±10% over 3 generations (minimum 10 years)

B(1) 250–1000 mature individuals

B(2) ≤5 subpopulations, ≤300 mature individuals in the largest subpopulation

B(3) Total area of occupancy ≤10 ha (0.1 km²)

C – moderate population that has an ongoing or forecast decline of 50–70% over 3 generations (minimum 10 years)

C(1) 1000–5000 mature individuals

C(2) ≤15 subpopulations, ≤500 mature individuals in the largest subpopulation

C(3) Total area of occupancy ≤100 ha (1 km²)

Nationally Vulnerable

Criteria for Nationally Vulnerable:

A – unnaturally small population that has an ongoing or forecast increase of >10% over 3 generations (minimum 10 years)

- A(1) 250–1000 mature individuals
- A(2) ≤5 subpopulations, ≤300 mature individuals in the largest subpopulation
- A(3) Total area of occupancy ≤10 ha (0.1 km²)

B – unnaturally moderate-size population that has an ongoing or forecast stable state of ±10% over 3 generations (minimum 10 years)

- B(1) 1000–5000 mature individuals, stable population
- B(2) ≤15 subpopulations, ≤500 mature individuals in the largest subpopulation, stable population
- B(3) Total area of occupancy ≤100 ha (1 km²), stable population

C – moderate population that has an ongoing or forecast decline of 10–50% over 3 generations (minimum 10 years)

- C(1) 1000–5000 mature individuals
- C(2) ≤15 subpopulations, ≤500 mature individuals in the largest subpopulation
- C(3) Total area of occupancy ≤100 ha (1 km²)

D – moderate to large population that has an ongoing or forecast decline of 30–70% over 3 generations (minimum 10 years)

- D(1) 5000–20 000 mature individuals
- D(2) ≤15 subpopulations, ≤1000 mature individuals in the largest subpopulation
- D(3) Total area of occupancy ≤1000 ha (10 km²)

E – large population that has an ongoing or forecast decline of 50–70% over 3 generations (minimum 10 years)

- E(1) 20 000–100 000 mature individuals
- E(2) Total area of occupancy ≤10 000 ha (100 km²)

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 that has an ongoing or forecast decline of 10–30% over 3 generations (minimum 10 years)

- A(1/1) 5000–20 000 mature individuals
- A(2/1) Total area of occupancy ≤1000 ha (10 km²)

B – large population that has an ongoing or forecast decline of 10–50% over 3 generations (minimum 10 years)

- B(1/1) 20 000–100 000 mature individuals
- B(2/1) Total area of occupancy ≤10 000 ha (100 km²)

C – very large population that has an ongoing or forecast decline of 10–70% over 3 generations (minimum 10 years)

- C(1/1) >100 000 mature individuals
- C(2/1) Total area of occupancy > 10 000 ha (100 km²)

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 km²), and predicted increase >10%

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)).

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.

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.

Vagrant

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

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.

Not Threatened

Resident native taxa that have large, stable populations.

Introduced and Naturalised

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

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