

Attachment 1: List of Threatened and At Risk Plant Species on Depositional Landforms (moraine, outwash terrace, riverbed) in the Mackenzie Basin (within Mackenzie District).

Notes:

1. Species for which the scientific name has changed since 2013 are indicated with a hatch #.
2. Species listed as “not threatened” in 2013 are indicated with an asterisk *.
3. Species listed in 2018 due to the threat posed by myrtle rust (e.g. kanuka and manuka) are not included.

Species listed by N J Head, September 2016, based on the 2013 threat status list ¹	Species listed by M A C Harding, November 2020, based on the 2018 threat status list ²
Extinct	
<i>Dysphania pusilla</i>	
Threatened: Nationally Critical	
	<i>Cardamine mutabilis</i> # (ex. “tarn”)
<i>Carmichaelia curta</i>	<i>Carmichaelia curta</i>
<i>Ceratocephala pungens</i>	<i>Ceratocephala pungens</i>
<i>Chaerophyllum colensoi</i> var. <i>delicatulum</i>	
<i>Chenopodium detestans</i>	<i>Chenopodium detestans</i>
<i>Crassula peduncularis</i>	<i>Crassula peduncularis</i>
	<i>Lagenophora montana</i> #
	<i>Lepidium sisymbrioides</i>
	<i>Lepidium solandri</i>
<i>Leptinella conjuncta</i>	<i>Leptinella conjuncta</i>
<i>Pseudognaphalium ephemerum</i>	<i>Pseudognaphalium ephemerum</i>
<i>Triglochin palustris</i>	<i>Triglochin palustris</i>
Threatened: Nationally Endangered	
<i>Cardamine</i> (a) (CHR 312947; “tarn”)	
	<i>Carex cirrhosa</i>
<i>Centipeda minima</i> subsp. <i>minima</i>	<i>Centipeda minima</i> subsp. <i>minima</i>
	<i>Chaerophyllum colensoi</i> var. <i>delicatulum</i>
<i>Crassula multicaulis</i>	<i>Crassula multicaulis</i>
	<i>Dysphania pusilla</i>
	<i>Hypericum rubicundulum</i>
<i>Lagenifera montana</i>	
<i>Leonohebe cupressoides</i>	<i>Veronica cupressoides</i> #
<i>Lepidium sisymbrioides</i>	
<i>Lepidium solandri</i>	
<i>Myosurus minimus</i> subsp. <i>novae-zelandiae</i>	
<i>Ranunculus brevis</i>	<i>Ranunculus brevis</i>
	<i>Senecio dunedinensis</i>

¹ de Lange, P.J; Rolfe, J.R; Champion, P.D; Courtney, S.P; Heenan, P.B; Barkla, J.W; Cameron, E.K; Norton, D.A; Hitchmough, R.A. 2013. *Conservation status of New Zealand indigenous vascular plants, 2012*. Department of Conservation, Wellington, New Zealand. 70p.

² de Lange, P.J; Rolfe, J.R; Barkla, J.W; Courtney, S.P; Champion, P.D; Perrie, L.R.; Beadel, S.M.; Ford, K.A.; Breitweiser, I.; Schönberger, I.; Hindmarsh-Walls, R.; Heenan, P.B; Ladley, K. 2018. *Conservation status of New Zealand indigenous vascular plants, 2017*. Department of Conservation, Wellington, New Zealand.

<i>Wumbea novae-zelandiae</i>	<i>Wumbea novae-zelandiae</i>
Threatened: Nationally Vulnerable	
	<i>Amphibromus fluitans</i>
	<i>Carex albula</i>
<i>Carex cirrhosa</i>	
<i>Carex rubicunda</i>	<i>Carex rubicunda</i>
	<i>Carmichaelia corrugata</i>
<i>Carmichaelia kirkii</i>	<i>Carmichaelia kirkii</i>
	<i>Carmichaelia nana</i>
	<i>Convolvulus verecundus</i>
<i>Hypericum rubicundulum</i>	
<i>Isolepis basilaris</i>	
<i>Lachnagrostis tenuis</i>	<i>Lachnagrostis tenuis</i>
<i>Myosotis brevis</i>	<i>Myosotis brevis</i>
	<i>Myosurus minimus</i> subsp. <i>novae-zelandiae</i>
	<i>Muehlenbeckia ephedroides</i>
<i>Olearia fimbriata</i>	<i>Olearia fimbriata</i>
	<i>Pimelea sericeovillosa</i> subsp. <i>pulvinaris</i>
	<i>Raoulia monroi</i>
<i>Rytidosperma merum</i>	
<i>Senecio dunedinensis</i>	
<i>Sonchus novae-zelandiae</i> f. <i>novae-zelandiae</i>	<i>Sonchus novae-zelandiae</i>
At Risk: Declining	
<i>Acaena buchananii</i>	<i>Acaena buchananii</i>
	<i>Achnatherum petriei</i>
<i>Aciphylla subflabellata</i>	<i>Aciphylla subflabellata</i>
<i>Amphibromus fluitans</i>	
	<i>Anthosachne falcis</i>
<i>Carex albula</i>	
	<i>Carex berggrenii</i>
	<i>Carex buchananii</i> *
<i>Carex tenuiculmis</i>	<i>Carex tenuiculmis</i>
<i>Carmichaelia corrugata</i>	
<i>Carmichaelia crassicaulis</i> subsp.	<i>Carmichaelia crassicaulis</i> subsp.
<i>crassicaulis</i>	<i>crassicaulis</i>
<i>Carmichaelia nana</i>	
	<i>Carmichaelia petriei</i> *
<i>Carmichaelia uniflora</i>	<i>Carmichaelia uniflora</i>
<i>Carmichaelia vexillata</i>	<i>Carmichaelia vexillata</i>
	<i>Colobanthus brevisepalus</i>
<i>Convolvulus verecundus</i>	
<i>Coprosma acerosa</i>	<i>Coprosma acerosa</i>
<i>Coprosma intertexta</i>	<i>Coprosma intertexta</i>
<i>Coprosma virescens</i>	<i>Coprosma virescens</i>
<i>Deschampsia cespitosa</i>	<i>Deschampsia cespitosa</i>
	<i>Discaria toumatou</i>
<i>Hypericum involutum</i>	<i>Hypericum involutum</i>
	<i>Isolepis basilaris</i>
	<i>Korthalsella clavata</i>
	<i>Leptinella serrulata</i>

	<i>Leucopogon nanum</i>
<i>Lobelia ionantha</i>	<i>Lobelia ionantha</i>
<i>Luzula celata</i>	<i>Luzula celata</i>
	<i>Luzula ulophylla</i> *
<i>Muehlenbeckia ephedroides</i>	
<i>Olearia lineata</i>	<i>Olearia lineata</i>
<i>Parahebe canescens</i>	<i>Veronica lilliputiana</i> #
	<i>Pimelea prostrata</i> *
<i>Pimelea sericeo-villosa</i> subsp. <i>pulvinaris</i>	
<i>Pterostylis tanypoda</i>	<i>Pterostylis tanypoda</i>
<i>Pterostylis tristis</i>	<i>Pterostylis tristis</i>
	<i>Raoulia australis</i> *
	<i>Raoulia beauverdii</i>
<i>Raoulia monroi</i>	
	<i>Raoulia parkii</i> *
	<i>Rytidosperma buchananii</i> *
	<i>Rytidosperma exiguum</i>
	<i>Rytidosperma merum</i>
<i>Rytidosperma telmaticum</i>	<i>Rytidosperma telmaticum</i>
	<i>Rytidosperma thomsonii</i> *
At Risk: Naturally Uncommon	
<i>Achnatherum petriei</i>	
<i>Agrostis imbecilla</i>	
<i>Anthosachne falcis</i>	
<i>Botrychium australe</i>	<i>Botrychium australe</i>
<i>Carex berggrenii</i>	
<i>Celmisia graminifolia</i>	
<i>Centrolepis minima</i>	<i>Centrolepis glabra</i> #
<i>Colobanthus brevisepalus</i>	
<i>Convolvulus fracto-saxosa</i>	<i>Convolvulus fractosaxosa</i>
<i>Einadia allanii</i>	<i>Chenopodium allanii</i> #
<i>Epilobium angustum</i>	<i>Epilobium angustum</i>
<i>Euchiton paludosus</i>	
<i>Hebe pimeleoides</i> subsp. <i>faucicola</i>	<i>Veronica pimeleoides</i> subsp. <i>faucicola</i> #
<i>Korthalsella clavata</i>	
<i>Leonohebe tetrasticha</i>	<i>Veronica tetrasticha</i> #
<i>Leptinella serrulata</i>	
<i>Leucopogon nanum</i>	
<i>Montia angustifolia</i>	<i>Montia angustifolia</i>
<i>Montia erythrophylla</i>	<i>Montia erythrophylla</i>
<i>Myosotis uniflora</i>	<i>Myosotis uniflora</i>
<i>Pimelea sericeo-villosa</i> subsp. <i>alta</i>	<i>Pimelea sericeovillosa</i> subsp. <i>alta</i>
<i>Plantago obconica</i>	<i>Plantago obconica</i>
<i>Pleurosorus rutifolius</i>	<i>Asplenium subglandulosum</i> #
<i>Ranunculus maculatus</i>	<i>Ranunculus maculatus</i>
<i>Raoulia beauverdii</i>	
Data Deficient	
	<i>Agrostis imbecilla</i>
<i>Carex decurtata</i>	
	<i>Celmisia graminifolia</i>
	<i>Euchiton paludosus</i>

<i>Rytidosperma exiguum</i>	
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**Statistical summary of the status of Mackenzie Basin vascular plant species
assessed in 2013 and 2018.**

CATEGORY	TOTAL 2013	TOTAL 2018
Extinct	1	
Threatened: Nationally Critical	8	11
Threatened: Nationally Endangered	10	10
Threatened: Nationally Vulnerable	11	15
At Risk: Declining	26	38
At Risk: Naturally Uncommon	25	14
Data Deficient	2	3
TOTAL	83	91