

Insect herbivores and fungi found on New Zealand *Senecio* species

Prepared by Lincoln University Summer Scholar Shona Sam, February 2005.

A preliminary and incomplete collation of information on insect herbivore and fungal species associated with New Zealand *Senecio* species:

Eyles, A. C. 1990. A review and revision of the genus *Rhyodes* Stål (Hemiptera: Lygaeidae). *New Zealand Journal of Zoology*, 17:347–418.

Spiller, D. M., and Wise, K. A. J. 1982. A catalogue (1860-1960) of New Zealand insects and their host plants. Department of Scientific and Industrial Research Bulletin 231, DSIR, Wellington.

New Zealand Fungi Database (nzfungi.landcareresearch.co.nz)

Rearing database of Jon Sullivan (Lincoln University)

N=Native En=Endemic E=Exotic Nat=Naturalised
Abs=Absent from region

Species	Species Status	Insect/Fungi	Insect/fungi status	Reference
<i>S. aquaticus</i>	Nat 1870-1900	<i>Puccinia lagenophorae</i>	N	nzfungi.landcareresearch.co.nz
<i>S. banksii</i>	N	<i>Stigmella ogygia</i>	N/?En	J.Sullivan voucher database
<i>S. bipinnatisectus</i>	Nat 1900-1940	<i>Tephritus fascigera</i>	N/?En	Spiller & Wise 1982
		<i>Alternaria</i>		nzfungi.landcareresearch.co.nz
		<i>Alternaria cinerariae</i>	E	nzfungi.landcareresearch.co.nz
		<i>Coleosporium senecionis</i>	E	nzfungi.landcareresearch.co.nz
		<i>Septoria</i>		nzfungi.landcareresearch.co.nz
		<i>Chromatomyia syngenesiae</i>	Nat	J.Sullivan voucher database
		<i>Nyctemera</i> sp. (<i>annulata</i> or <i>amica</i>)		J.Sullivan voucher database
		<i>Rhyodes</i> sp. unknown		J.Sullivan voucher database
		<i>Scolypopa australis</i>	Nat	J.Sullivan voucher database
		<i>Thysanoplusia orichalcea</i>	Nat	J.Sullivan voucher database

		Undescribed species: “little log cabin bag moth”		J.Sullivan voucher database
<i>S. biserratus</i>	N	<i>Puccinia lagenophorae</i>	N	nzfungi.landcareresearch.co.nz
		<i>Coleosporium senecionis</i>	E	nzfungi.landcareresearch.co.nz
<i>S. carnosulus</i>	N	<i>Chromatomyia syngenesiae</i>	Nat	J.Sullivan voucher database
		<i>Nyctemera</i> sp.		J.Sullivan voucher database
<i>S. elegans</i>	E	<i>Chromatomyia syngenesiae</i>	Nat	J.Sullivan voucher database
<i>S. esleri</i>	Nat –1990	<i>Chromatomyia syngenesiae</i>	Nat	J.Sullivan voucher database
		<i>Stigmella ogygia</i>	N/?E n	J.Sullivan voucher database
<i>S. glaucophyllus</i> ssp. <i>basinudus</i>	?N	<i>Coleosporium senecionis</i>	E	nzfungi.landcareresearch.co.nz
<i>S. glomeratus</i>	N	<i>Nepticula erechitus</i>		Spiller & Wise 1982
		<i>Nyctemera annulata</i>	En	Spiller & Wise 1982
		<i>Phytomyza syngenesiae</i> (syn. <i>Chromatomyia syngenesiae</i>)	Nat	Spiller & Wise 1982
		<i>Puccinia lagenophorae</i>	N	nzfungi.landcareresearch.co.nz
		<i>Septoria</i>		nzfungi.landcareresearch.co.nz
		<i>Caedicia simplex</i>	N	J.Sullivan voucher database
		<i>Chromatomyia syngenesiae</i>	Nat	J.Sullivan voucher database
		<i>Eucolaspis brunnea</i>	N/?E n	J.Sullivan voucher database
		<i>Nyctemera</i> sp. <i>annulata</i> or <i>amica</i>		J.Sullivan voucher database
		<i>Rhyodes</i> sp.		J.Sullivan voucher database
		<i>Stigmella ogygia</i>	N/?E n	J.Sullivan voucher database
		<i>Tephritis fascigera</i>	N/?E n	J.Sullivan voucher database
<i>S. hispidulus</i>	N	<i>Chromatomyia syngenesiae</i>	Nat	J.Sullivan voucher database
		<i>Nyctemera annulata</i>	En	J.Sullivan voucher database

		<i>Oliarus oppositus</i>	N/?E n	J.Sullivan voucher database
		<i>Stigmella ogygia</i>	N/?E n	J.Sullivan voucher database
<i>S. jacobaea</i>	Nat 1870- 1900	<i>Agromyza</i> sp		Spiller & Wise 1982
		<i>Brachycaudus helichrysi</i>		Spiller & Wise 1982
		<i>Homoeosoma farinaria</i> (syn <i>Patagoniodes farnaria</i>)	N	Spiller & Wise 1982
		<i>Homoeosoma vagella</i> (syn <i>Patagoniodes farnaria</i>)	N	Spiller & Wise 1982
		<i>Oidium</i> Sacc (? <i>Unicinula necator</i>)	E	nzfungi.landcareresearch.co.nz
		<i>Hylemya seneciella</i>		Spiller & Wise 1982
		<i>Sclerotinia sclerotiorum</i>	E	nzfungi.landcareresearch.co.nz
		<i>Melanagromyza senecionella</i>		Spiller & Wise 1982
		<i>Nycetemera annulata</i>	En	Spiller & Wise 1982
		<i>Phytomyza syngenesiae</i> (syn. <i>Chromatomyia syngenesiae</i>)	Nat	Spiller & Wise 1982
		<i>Tyria jacobaea</i>		Spiller & Wise 1982
		<i>Rhyodes cognatus</i>		Eyles 1990
		<i>Alternaria cinerariae</i>	E	nzfungi.landcareresearch.co.nz
		<i>Embellisia dennisii</i>		nzfungi.landcareresearch.co.nz
		<i>Phoma senecionis</i>	E	nzfungi.landcareresearch.co.nz
		<i>Bremia tulasnei</i>	Abs	nzfungi.landcareresearch.co.nz
		<i>Lachnella alboviolascens</i>		nzfungi.landcareresearch.co.nz
		<i>Periconia minutissima</i>	N	nzfungi.landcareresearch.co.nz
		<i>Spaerotheca alchemillae</i>		nzfungi.landcareresearch.co.nz
		<i>Chromatomyia syngenesiae</i>	Nat	J.Sullivan voucher database
		<i>Eucolaspis brunnea</i>	N/?E n	J.Sullivan voucher database

		<i>Longitarsus jacobaeae</i>	Nat	J.Sullivan voucher database
		<i>Melanagromyza senecionella</i>		J.Sullivan voucher database
		<i>Patagoniodes farinaria</i>	Nat	J.Sullivan voucher database
		<i>Thysanoplusia orichalcea</i>	Nat	J.Sullivan voucher database
		<i>Clitarchus hookerii</i>		J.Sullivan Senecio fauna survey
<i>S. lautus</i>	N	<i>Brachycaudus helichrysi</i>		Spiller & Wise 1982
		<i>Nyctemara annulata</i>	En	Spiller & Wise 1982
		<i>Puccinia lagenophorae</i>	N	nzfungi.landcareresearch.co.nz
		<i>Puccinia tasmanica</i> (syn. <i>Puccinia lagenophorae</i>)	N	nzfungi.landcareresearch.co.nz
		<i>Chromatomyia syngenesiae</i>	Nat	J.Sullivan voucher database
		<i>Patagoniodes farinaria</i>	N	J.Sullivan voucher database
<i>S. mikanioides</i>	Nat 1840-1870	<i>Nyctemera annulata</i>	En	Spiller & Wise 1982
		<i>Coleosporium senecionis</i>	E	nzfungi.landcareresearch.co.nz
		<i>Ramularia coleosporii</i>	E	nzfungi.landcareresearch.co.nz
<i>S. minimus</i>	N	<i>Nepticula erechtitus</i>		Spiller & Wise 1982
		<i>Nyctemera annulata</i>	En	Spiller & Wise 1982
		<i>Phytomyza syngenesiae</i> (syn. <i>Chromatomyia syngenesiae</i>)	Nat	Spiller & Wise 1982
		“ <i>Simaethis</i> ” <i>combinatana</i>		Spiller & Wise 1982
		<i>Entyloma compositarum</i>	E	nzfungi.landcareresearch.co.nz
		<i>Puccinia lagenophorae</i>	N	nzfungi.landcareresearch.co.nz
		<i>Coleosporium senecionis</i>	E	nzfungi.landcareresearch.co.nz
		<i>Asterivora colpota</i>		J.Sullivan voucher database
		<i>Chromatomyia syngenesiae</i>	Nat	J.Sullivan voucher database
		<i>Nyctemera annulata</i>	En	J.Sullivan voucher database
		<i>Stigmella ogygia</i>	N/?En	J.Sullivan voucher database

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		<i>Tephritis fascigera</i>	N/?E n	J.Sullivan voucher database
<i>S. pestasitis</i>	Nat 1970-1990	<i>Alternaria cinerariae</i>	E	nzfungi.landcareresearch.co.nz
<i>S. quadridentatus</i>	N	<i>Chromatomyia syngenesiae</i>	Nat	J.Sullivan voucher database
		<i>Tephritis fascigera</i>	N/?E n	J.Sullivan voucher database
<i>S. rufiglandulosus</i>	N	<i>Nyctemera</i> sp. <i>annulata</i> or <i>amica</i>		J.Sullivan voucher database
<i>S. rufiglandulosus</i> var. <i>solandri</i>	N	<i>Aulacorthum solani</i>		Spiller & Wise 1982
		<i>Metacrias huttoni</i>		Spiller & Wise 1982
		<i>Myzus ornatus</i>		Spiller & Wise 1982
		<i>Nyctemera annulata</i>	En	Spiller & Wise 1982
<i>S. skirrhodon</i>	Nat 1900-1940	<i>Puccinia lagenophorae</i>	N	nzfungi.landcareresearch.co.nz
		<i>Alternaria cinerariae</i>	E	nzfungi.landcareresearch.co.nz
		<i>Botrytis cinerea</i>	E	nzfungi.landcareresearch.co.nz
		<i>Nyctemera</i> sp. <i>annulata</i> or <i>amica</i>		J.Sullivan voucher database
		<i>Patagoniodes farinaria</i>	N	J.Sullivan voucher database
		<i>Scolypopa australis</i>	Nat	J.Sullivan voucher database
		<i>Siphanta acuta</i>	Nat	J.Sullivan voucher database
<i>S. sylvaticus</i>	Nat 1870-1900	<i>Nyctemera annulata</i>	En	Spiller & Wise 1982
		<i>Coleosporium tussilaginis</i>	Abs	nzfungi.landcareresearch.co.nz
		<i>Coleosporium senecionis</i>	E	nzfungi.landcareresearch.co.nz
		<i>Pirottaea gallica</i>	Abs	nzfungi.landcareresearch.co.nz
		<i>Septoria senecionis-sylvatici</i>	Abs	nzfungi.landcareresearch.co.nz
		<i>Tephritis fascigera</i>	N/?E n	J.Sullivan voucher database

<i>S. vulgaris</i>	Nat 1840-1870	<i>Ariathisa comma</i>		Spiller & Wise 1982
		<i>Brachycaudus helichrysi</i>		Spiller & Wise 1982
		<i>Nyctemera annulata</i>	En	Spiller & Wise 1982
		<i>Phytomyza syngenesiae</i>	Nat	Spiller & Wise 1982
		<i>Tyria jacobaeae</i>		Spiller & Wise 1982
		<i>Albugo tragopogonis</i>	E	nzfungi.landcareresearch.co.nz
		<i>Coleosporium senecionis</i>	E	nzfungi.landcareresearch.co.nz
		<i>Bremia tulasnei</i>	Abs	nzfungi.landcareresearch.co.nz
		<i>Itersonia pastinacae</i>	E	nzfungi.landcareresearch.co.nz
		<i>Puccinia lagenophorae</i>	N	nzfungi.landcareresearch.co.nz
		<i>Puccinia tasmanica</i> (syn. <i>Puccinia lagenophorae</i>)	N	nzfungi.landcareresearch.co.nz
		“ <i>Cnephasia</i> ” <i>jactatana</i>	Nat/? En	J.Sullivan voucher database
		<i>Chromatomyia syngenesiae</i>	Nat	J.Sullivan voucher database
		<i>Epiphyas postvittana</i>		J.Sullivan voucher database
		<i>Nyctemera</i> sp. <i>annulata</i> or <i>amica</i>		J.Sullivan voucher database
		<i>Spodoptera</i> sp. unknown		J.Sullivan voucher database
		<i>Tephritis fascigera</i>	N/?E n	J.Sullivan voucher database
<i>S.wairauensis</i>	N	<i>Rypodes</i> sp.		J.Sullivan voucher database
		<i>Tephritis fascigera</i>	N/?E n	J.Sullivan voucher database

Other species that have been found on *Senecio* species but no specific *Senecio* species is given:

<i>Pythium</i>	massive host list incl <i>Senecio</i> nzfungi.landcareresearch.co.nz
<i>Pythium debaryanum</i>	long host list incl <i>Senecio</i> nzfungi.landcareresearch.co.nz
<i>Rhynodes clavicornis</i>	breeds on Compositae incl <i>Senecio</i> Eyles 1990
<i>Rhynodes depilis</i>	Two adults found on <i>Senecio</i> Eyles 1990
<i>Rhynodes stewartensis</i>	found on <i>Senecio</i> Eyles 1990
<i>Crocicreas</i>	<i>Senecio</i> nzfungi.landcareresearch.co.nz
<i>Crocicreas epitephrum</i>	<i>Senecio</i> nzfungi.landcareresearch.co.nz
<i>Lachrum correae</i>	<i>Senecio</i> nzfungi.landcareresearch.co.nz
<i>Pyrenopezizza</i>	<i>Senecio</i> nzfungi.landcareresearch.co.nz