

## Crop & Food Research Plant-SyNZ recording sheet, expert

Habitat being surveyed \_\_\_\_\_

Locality \_\_\_\_\_

Names of surveyors \_\_\_\_\_

Date of survey \_\_\_\_\_

Plot number [\_\_\_\_\_]

**Podocarpus totara (277)** [tick if present \_\_\_\_\_ (Max search time \_\_\_\_\_ )

a	Eriophyidae	<i>Eriophyes totarae</i>	Sp code 250	[_____]	causes enlargement of bud, which fails to expand and produce leaves, associated with male cones branches
c	Chrysomelidae	<i>Podocarpus leaf chewing beetle totara (sensu Martin db 2000)</i>	Sp code 851	[_____]	young leaves chewed part way through
c	Curculionidae	<i>Peristoreus flavitarsis</i>	Sp code 314	[_____]	larvae mine young leaves, adults chew young leaves
d	Cecidomyiidae	<i>Podocarpus bud/shoot damage totara (sensu Martin db 1999)</i>	Sp code 557	[_____]	distortion and blackening of expanding leaves in buds and shoots
he	Aphididae	<i>Neophyllaphis totarae</i>	Sp code 532	[_____]	black aphids on young leaves, may cause downwards curl of leaves
he	Diaspididae	<i>Eulepidosaphes pyriformis</i>	Sp code 388	[_____]	brown pear-shaped scale, chlorotic spots on leaf, often on upper side of leaf
he	Diaspididae	<i>Leucaspis podocarpi</i>	Sp code 386	[_____]	white-capped scale, tear drop shape, brown tip at narrow end, on leaves
he	Eriococcidae	<i>Madarococcus totarae</i>	Sp code 387	[_____]	white male sacs on underside of leaves; female scale, on stems and new leaf buds no sac, green in leaf axils
l	Plutellidae	<i>Chrysorthenches polita</i>	Sp code 268	[_____]	larvae make mines in several leaves
l	Plutellidae	<i>Chrysorthenches porphyritis</i>	Sp code 269	[_____]	later larval instars ectophytic, often gregarious, feeding under a frass-strewn silk web on current season's shoots

### Also may be present

a	Tenuipalpidae	<i>Tenuipalpus arboreus</i>	Sp code 900	[_____]	leaf feeding mite
a	Tuckerellidae	<i>Tuckerella flabellifera</i>	Sp code 891	[_____]	bright red mite, distinct appearance, on young wood and branches
c	Belidae	<i>Agathinus tridens</i>	Sp code 1433	[_____]	larvae develop in dead wood
c	Belidae	<i>Pacyrinus sticticus</i>	Sp code 1429	[_____]	larvae feed subcortically in dead branches of conifers and some angiosperms
c	Belidae	<i>Rhincobelus rubicundus</i>	Sp code 1430	[_____]	larvae feed subcortically in dead branches
c	Belidae	<i>Rhincobelus metallicus</i>	Sp code 1431	[_____]	larvae feed subcortically in dead branches
c	Nemonychidae	<i>Rhinorhynchus phyllocladi</i>	Sp code 1322	[_____]	larvae associated with flowers of Phyllocladus. ? = sp in. det. May 1993
c	Nemonychidae	<i>Rhinorhynchus rufulus</i>	Sp code 1321	[_____]	larvae feed on pollen of Podocarpaceae

### Abbreviations for major invertebrate groupings

a = Acari (mites)  
d = Diptera (flies)  
c = Coleoptera (beetles)  
he = Hemiptera (sucking insects)  
l = Lepidoptera (moths & butterflies)  
th = Thysanoptera (thrips)

### Plant species herbivore list

Tuesday, 4 November 2003

he	Coccidae	<i>Aphenochiton pubens</i>	Sp code 602	[ ]	oval, transparent scale insect with wax plates
he	Coccidae	<i>Crystallotesta ornata</i>	Sp code 608	[ ]	limpet like, scale insect, female on twigs
he	Coccidae	<i>Poropeza dacrydii</i>	Sp code 622	[ ]	scale insect, waxy plates, under bark
he	Coccidae	<i>Umbonichiton adelus</i>	Sp code 625	[ ]	oval scale insect with wax plates, on base of leaves
he	Coccidae	<i>Umbonichiton pellaspi</i>	Sp code 629	[ ]	elongated, mottled brown scale insect with waxy plates, on twigs
he	Coccidae	<i>Umbonichiton bullatus</i>	Sp code 626	[ ]	oval scale insect with waxy plates, on twigs
he	Margarodidae	<i>Coelostomidia zealandica</i>	Sp code 842	[ ]	white scale, long wax tubes for honey dew
he	Margarodidae	<i>Coelostomidia pilosa</i>	Sp code 841	[ ]	white scale with long wax tube for honey dew
he	Margarodidae	<i>Coelostomidia deboerae</i>	Sp code 838	[ ]	white scale with long wax tube for honey dew
he	Margarodidae	<i>Margarodidae sp.</i>	Sp code 848	[ ]	cysts
he	Margarodidae	<i>Platycoelostoma compressa</i>	Sp code 846	[ ]	scale insect found under bark of <i>Libibocedrus bidwilli</i> and possibly <i>Podocarpus totara</i>
he	Pseudococcidae	<i>Asaphococcus amissus</i>	Sp code 638	[ ]	mealybugs
he	Pseudococcidae	<i>Paracoccus miro</i>	Sp code 706	[ ]	live females purplish brown, thinly covered with powdery white wax.
he	Pseudococcidae	<i>Paracoccus podocarpi</i>	Sp code 710	[ ]	live females purplish red, covered with powdery white wax, under totara bark
he	Pseudococcidae	<i>Paracoccus longicauda</i>	Sp code 705	[ ]	under bark; live females reddish purple, covered with a heavy layer of fine white wax.
l	Geometridae	<i>Tatosoma tipulata</i>	Sp code 852	[ ]	edges of young leaves eaten
l	Geometridae	<i>Tatosoma topia</i>	Sp code 1374	[ ]	feeds on leaves
l	Tortricidae	<i>Cnephasia auct. jactatana</i>	Sp code 1296	[ ]	webs together dying plant parts
l	Tortricidae	<i>Ctenopseustis obliquana</i>	Sp code 1132	[ ]	leaves webbed together
l	Tortricidae	<i>Pyrgotis chrysomela</i>	Sp code 1071	[ ]	webs leaves together
l	Plutellidae	<i>Chrysothanches glypharcha</i>	Sp code 265	[ ]	larva not known

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