

APPENDIX I

ORDER LEPIDOPTERA

\* recorded by Hudson 1928, 1939 and not detected during this survey

	Date of Adult Emergence	Altitude if Above Montane	Distribution if Local or Rare and Other Comments
<b>Hepialidae</b>			
<i>Aoraia</i> sp. (grey and white)	March	1070-1165m	alpine grassland, South Rough Ridge
<i>Aoraia</i> sp. (brown and white)	March-April	1150m	grassland, South Rough Ridge
Genus and species indet.	April	1130-1150m	wetlands, South Rough Ridge
<i>Cladoxycanus minos</i> (Hudson)	April		type loc. Ophir, wetlands
<i>Wiseana cervinata</i> (Walker)	October-December		grasslands
<i>Wiseana copularis</i> (Meyrick)	November-January		grasslands
<i>Wiseana mimica</i> (Philpott)	October		damp grasslands
<b>Nepticulidae</b>			
<i>Stigmella ilsea</i> D&W.	December		mining <i>Olearia odorata</i> shrubs
<b>Mnesarchaeidae</b>			
<i>Mnesarchaea paracosma</i> Meyrick	October-November		larvae in mosses on rock faces
<b>Tineidae</b>			
<i>Monopis ethelella</i> (Newman)	All		
<b>Psychidae</b>			
<i>Scoriodyta suttonensis</i> Hattenswiler	December-January	to 700m	Case-larvae on tors, feed on algae
* <i>Reductodermes</i> sp. nr. <i>microphanes</i> (Meyrick)			case-larvae on tors, feed on algae
<i>Rhathamictis</i> sp.			larval cases on tors, feed on algae
<b>Yponomeutidae</b>			
<i>Orthenches porphyritis</i> Meyrick	April		larvae on totara, Ida Valley
<i>Phylacodes cauta</i> Meyrick	March		type locality Ida Valley, <i>Carex</i> wetlands, local
<i>Plutella psammochroa</i> Meyrick	April-May		shrubland
<i>Plutella xylostella</i> (L)	March-April		herbfield
<i>Plutella</i> sp.	March	1120m	larvae on crucifers, South Rough Ridge
<b>Carposinidae</b>			
* <i>Heterocrossa contactella</i> (Walker)			

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<b>Glyphipterigidae</b>			
<i>Glyphipterix cionophora</i> (Meyrick)	February	to 900m	grasslands
<i>Glyphipterix oxymachaera</i> (Meyrick)	October-December	600-1150m	South Rough Ridge, Raggedy Range
<i>Glyphipterix achlyoessa</i> (Meyrick)	December-February		grassland
* <i>Glyphipterix aulogramma</i> Meyrick			
<b>Gelechidae</b>			
<i>Anisoplaca ptyoptera</i> Meyrick	February		larvae on <i>Carmichaelia</i> , shrubland
<i>Athrips zophochalca</i> (Meyrick)	November		Galloway saline area on <i>Carmichaelia compacta</i>
<i>Kiwaia brontophora</i> (Meyrick)	October	600m	Raggedy Range, rock faces
<i>Kiwaia parapleura</i> (Meyrick)	February	900m	South Rough Ridge
<i>Kiwaia thyraula</i> (Meyrick)	October-November		Moa Creek, Galloway on saline areas
* <i>Kiwaia pharetria</i> (Meyrick)			
* <i>Kiwaia schematica</i> (Meyrick)			
<i>Megacraspedus calamogonus</i> Meyrick	December-March	to 1100m	larvae on seed-heads <i>Chionochloa</i>
<i>Phthorimaea operculella</i> (Zeller)	May		domestic species, cosmopolitan on potatoes
<b>Oecophoridae</b>			
<i>Eutorna caryochroa</i> Meyrick	December		Gordons Knob 900m local
<i>Hierodoris frigida</i> Philpott	October-April	to 750m	diurnal adults around tors
<i>Atomotricha lewisi</i> Philpott	May-August		short-winged females, type loc. Ida Valley
<i>Izatha convulsella</i> (Walker)	October-December		larvae in webbing on tors
<i>Leptocroca asphaltis</i> (Meyrick)	November-December		shrublands, type loc. Mt Ida
<i>Oxythecta austrina</i> (Meyrick)	October-November		dry bare hillsides
<i>Phaeosaces apocrypta</i> Meyrick	October	600m	Raggedy Range, shrubland
<i>Phaeosaces</i> new species	October-November		on tors Linnburn area, female shortwinged
<i>Tingena maranta</i> (Meyrick)	October-December		larvae in <i>Elymus</i> spp
<i>Tingena melanamma</i> (Meyrick)	October		open grassland, type locality Ida Valley
<i>Tingena epimyia</i> (Meyrick)	October		shrublands
<i>Tingena lassa</i> (Philpott)	November		rock faces
<i>Trachypepla euryleucota</i> Meyrick	October-February		shrublands
<b>Scythridae</b>			
<i>Scythris niphozela</i> Meyrick	February	900m	Long Valley Ridge, rare species
<i>Scythris triatma</i> Meyrick	November		saline areas, Belmont, rare species
* <i>Scythris epistrota</i> (Meyrick)			

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<b>Elachistidae</b>			
<i>Elachista plagiola</i> (Meyrick) * <i>Elachista gerasmia</i> Meyrick	December-February	1150m	South Rough Ridge larvae bores in <i>Juncus</i>
<b>Tortricidae</b>			
<i>Crociosema plebejana</i> Zeller	October-March		herbfield, depleted areas
<i>Parienia mochlophorana</i> (Meyrick)	March	1150m	South Rough Ridge, local, wetlands
<i>Eurythecta zelaea</i> Meyrick	September-April		Ida Valley is type locality, grassland
<i>Merophyas leucaniana</i> (Walker)	October	to 900m	grassland, herbs
<i>Capua semiferana</i> (Walker)	September-March		open areas, litter
" <i>Eurythecta</i> " <i>leucothrinca</i> Meyrick	April	900-1150m	grassland, rare species, South Rough Ridge
" <i>Eurythecta</i> " <i>phaeoxyla</i> Meyrick	March	1100m	herbfield, local
<i>Epichorista aspistana</i> (Meyrick)	December	1150m	herbfield, local
<i>Epichorista hemionana</i> (Meyrick)	March	1150m	herbfield
<i>Epichorista siriana</i> (Meyrick)	February-March	to 1150m	grasslands, wetlands
<i>Planotortrix excessana</i> (Walker) complex	March-April		shrublands
<i>Planotortrix pictoriana</i> (F&G)	March	to 1150m	Beech forest species, South Rough Ridge
<i>Pyrgotis plagiata</i> (Walker)	November-December		shrubland
<i>Harmologa</i> sp.	May		rare species, Moa Creek
" <i>Tortrix</i> " <i>demiana</i> Meyrick	February-March	900-1150m	grassland, local species
Genus and species Indet	March	1150m	rare species, South Rough Ridge
<i>Sperchia intractana</i> Walker	March-April		shrubland, gardens, litter
<i>Ctenopseustis obliquana</i> (Walker) complex	April		shrubland, not common here
<b>Pterophoridae</b>			
<i>Platyptilia repletalis</i> Walker	April	to 1150m	shrubby gullies
<i>Pterophorus innotatalis</i> Walker	November-March		grassland
<b>Lycaenidae</b>			
<i>Lycaena boldenarum</i> White	October-March	to 1150m	South Rough Ridge and elsewhere
<i>Zizina oxleyi</i> (F&R)			Blue Butterfly common on clovers, etc.
<b>Nymphalidae</b>			
<i>Argyrophenaga antipodum</i> Doubleday	November-March	to 1150m	grasslands
<i>Bassaris gonerilla</i> (Fabricius)	October-April		larvae on <i>Urtica</i> spp.

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<b>Pieridae</b>			
<i>Pieris rapae</i> L			vagrant
<b>Pyralidae</b>			
<i>Homeosoma anaspila</i> Meyrick <i>Sporophylla oenospora</i> (Meyrick) <i>Crocydopora cinigerella</i> (Walker)	October November-April	600m	only near Galloway, local, on <i>Gnaphalium</i> Raggedy Range, local common open areas
<b>Crambidae</b>			
<i>Hygraula nitens</i> (Butler)	December-February		ponds, aquatic larvae
<i>Orocrambus aethonellus</i> (Meyrick)	November-December	800-1150m	wet areas
<i>Orocrambus dicrenellus</i> (Meyrick)	January	1150m	alpine <i>Chionochoa</i> areas
<i>Orocrambus corruptus</i> (Butler)	September-November		open dry grasslands
<i>Orocrambus cyclopicus</i> (Meyrick)	March-April		open dry grasslands
<i>Orocrambus ephorus</i> (Meyrick)	February		wetlands, local species
<i>Orocrambus flexuosellus</i> (Doubleday)	November-April		grasslands, very common
<i>Orocrambus heliotes</i> (Meyrick)	December-February	900m	wetlands, local
<i>Orocrambus lectus</i> (Philpott)	February	1150	wet grassland, local
<i>Orocrambus lewisi</i> Gaskin	January-April	to 700m	grasslands
<i>Orocrambus machaeristes</i> Meyrick	December	1150-1165m	<i>Poa colensoi</i> grassland
* <i>Orocrambus xanthogrammus</i> (Meyrick)	November-March		grasslands
<i>Orocrambus ramosellus</i> (Doubleday)	January-February	900-1150	wetlands
<i>Orocrambus scoparioides</i> Philpott	December	800-1150m	grasslands
<i>Orocrambus tritonellus</i> (Meyrick)	November-April		grasslands
<i>Orocrambus vittellus</i> (Doubleday)	March		dry grasslands
<i>Orocrambus vulgaris</i> (Butler)	March-April		depleted grassland
<i>Tawhitia pentadactyla</i> (Zeller)	October		shrubland
<i>Deana hybreasalis</i> (Walker)			
* <i>Glaucoccharis interrupta</i> (F&R)			
<i>Loxostege</i> new species	September-April		saline areas, larvae on <i>Atriplex buchananii</i>
<i>Mnesictena adversa</i> (Philpott)	December	900-950m	wet grassland, local, Knobby Range
<i>Mnesictena flavidalis</i> (Doubleday)	October	to 1150m	wet grassland
<i>Eudonia cataxesta</i> (Meyrick)	December-February		open areas
<i>Eudonia critica</i> (Meyrick)	March		upland rocky areas, tors

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<i>Eudonia deltophora</i> (Meyrick)	February-March	900-1150m	alpine grasslands
<i>Eudonia feredayi</i> (Knaggs)	February	to 1150m	open and grassland areas
* <i>Eudonia gyrotoma</i> (Meyrick)			
<i>Eudonia leptalea</i> (Meyrick)	October-November		depleted sites
<i>Eudonia manganeutis</i> (Meyrick)	March	to 900m	rocky sites, tors
<i>Eudonia octophora</i> (Meyrick)	March		wetlands
<i>Eudonia paltomacha</i> (Meyrick)	November-January	to 900m	wetlands
<i>Eudonia philerga</i> (Meyrick)	November-December		rocky sites, tors
<i>Eudonia psammitis</i> (Meyrick)	December	1150m	alpine wetlands
<i>Eudonia sabulosella</i> (Walker)	October-March		dry grasslands, very common
<i>Eudonia submarginalis</i> (Walker)	December		grasslands
<i>Eudonia trivirgata</i> (F&R)	December	to 1150m	grasslands
<i>Eudonia xysmatias</i> (Meyrick)	December-February	1150m	alpine wetland areas, South Rough Ridge
<i>Eudonia steropaea</i> (Meyrick)	December	900m	grassland
<i>Scoparia autumnna</i> (Philpott)	January-March	1130m	grassland, montane-alpine, local
<i>Scoparia autochroa</i> (Meyrick)	December	1150m	alpine grassland, local species, SRR
<i>Scoparia chalicodes</i> (Meyrick)	October-November		rocky sites, tors
<i>Scoparia exilis</i> Knaggs	November-January		dry hillsides
<i>Scoparia fumata</i> Philpott	December	1150m	wetland edges
<i>Scoparia panoplia</i> Meyrick	February-March	1150m	wet grassland areas, rare species, SRR
<i>Scoparia sp.</i>	May	800-850m	wet grassland areas
<i>Scoparia halopsis</i> Meyrick	March-April		grassland/shrubland
<i>Uresiphita polygonalis maorialis</i> (F&R)	October-May		larvae on <i>Sophora</i>

### Geometridae

<i>Zermizinga indocilisaria</i> Walker	August-May		larvae on <i>Discaria</i> , dry hillsides
<i>Anachloris subochraria</i> (Doubleday)	December		dry ground
<i>Aponotoreas insignis</i> (Butler)	January-February	900-1150m	alpine grassland
<i>Arctesthes catapyrrha</i> (Butler)	October-May	to 1150m	open areas, cushion vegetation
<i>Arctesthes siris</i> (Hudson)	December-February	1000-1150m	cushion vegetation, local
<i>Asaphodes abrogata</i> (Walker)	February-March	to 600m	grassland
<i>Asaphodes aegrota</i> (Butler)	March		herbfield
<i>Asaphodes cinnabari</i> (Howes)	November	750-900m	alpine grassland, rare species
<i>Asaphodes clarata</i> (Walker)	January-February	900-1150m	grassland, widespread
<i>Asaphodes ida</i> (Clarke)	February	900m	rare, Long Valley Ridge, type loc. Mt Ida
<i>Asaphodes nephelias</i> (Meyrick)	March	1150m	alpine damp grasslands
<i>Asaphodes oraria</i> (Philpott)	February	900m	alpine damp grasslands, local species
<i>Asaphodes recta</i> (Philpott)	March	1150m	herbfield, type locality, rare species

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<i>Asaphodes sericodes</i> (Meyrick)	February-March	900-1150m	alpine damp grasslands
<i>Austrocidaria similata</i> (Walker)	November-February		larvae on <i>Coprosma</i> spp.
<i>Austrocidaria gobiata</i> (F&R)	October-March		larvae on <i>Coprosma</i> spp.
<i>Chloroclystis filata</i> Guenee	October-April		shrubland
<i>Chloroclystis nereis</i> (Meyrick)	December-February	1150m	larvae in <i>Celmisia</i> flowers
<i>Chloroclystis inductata</i> (Walker)	December		shrubland
<i>Epicyme rubropunctaria</i> (Doubleday)	February		larvae on <i>Haloragis erecta</i>
<i>Epyaxa lucidata</i> (Walker)	December-April		herbfield
<i>Epyaxa rosearia</i> (Doubleday)	December-April		herbfield
<i>Elvia glaucata</i> Walker	December-March		shrubland, larvae on <i>Rubus</i>
<i>Helastia christinae</i> Crow	October		rock faces, local
<i>Helastia cineraria</i> (Doubleday)	October		rock faces
<i>Helastia corcularia</i> (Guenee)	October-March	to 900m	open areas
<i>Notoreas galaxias</i> Hudson	February-March	930-1160m	larvae on <i>Kelleria</i> , alpine grassland
<i>Notoreas paradelpha</i> (Meyrick)	November	1150m	alpine grassland
<i>Notoreas perornata</i> (Walker)	December	900-1150m	larvae on <i>Pimelea</i> , grasslands
<i>Pseudocoremia melinata</i> (F&R)	February		larvae on <i>Carmichaelia</i> , shrublands
<i>Paranotoreas brephosata</i> (Walker)	January-March	to 1150m	open areas - alpine grassland
<i>Paranotoreas fulva</i> (Hudson)	September-April		saline soil areas, larvae on <i>Atriplex</i> local
<i>Pasiphila cotinaea</i> (Meyrick)	April		larvae on <i>Olearia odorata</i> , rare
<i>Pasiphila new species</i>	December		larvae on <i>Olearia odorata</i> , rare
<i>Xanthorhoe orophylla</i> (Meyrick)	January-February	1150m	larvae on <i>Cardamine</i>
<i>Xanthorhoe semifissata</i> (Walker)	October-March		
<i>Dichromodes gypsotis</i> Meyrick	October	to 600m	larvae on lichens on tors, local species
<i>Dichromodes ida</i> Hudson	October-November	to 600m	larvae on lichens on tors, rare species
<i>Dichromodes simulans</i> Hudson	November-February	to 1150m	larvae on lichens on tors, rare species
<i>Dichromodes sphaeriata</i> (F&R)	October-November		larvae on lichens on tors
<i>Scopula rubraria</i> (Doubleday)	October-April		larvae on <i>Plantago</i> , open areas
* <i>Theoxena scissaris</i> (Guenee)			rare species
<i>Hydriomena deltoidata</i> (Walker)	January-March		grassland/shrubland

#### Noctulidae

<i>Bityla defigurata</i> (Walker)	April		larvae on <i>Muehlenbeckia</i>
<i>Aletia moderata</i> (Walker)	October-April		larvae on <i>Raoulia</i>
<i>Aletia longstaffi</i> (Howes)	February	900-1100m	alpine shrubland/grassland
<i>Aletia sistens</i> (Guenee)	March-April		larvae on <i>Elymus</i>
<i>Graphania agorastis</i> (Meyrick)	February	900m	wetlands
<i>Graphania disjungens</i> (Walker)	October		grassland
<i>Graphania infensa</i> (Walker)	November-December		grassland, <i>Carex</i> , <i>Uncinia</i>
<i>Graphania lignana</i> (Walker)	March-April		grassland
<i>Graphania lithias</i> (Meyrick)	December	to 1100m	larvae on <i>Melicetus alpinus</i> , local

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<i>Graphania mutans</i> (Walker)	August-May		larvae on herbs
<i>Graphania nullifera</i> (Walker)	March		larvae on <i>Aciphylla</i>
<i>Graphania phricias</i> (Meyrick)	October-May		larvae on <i>Discaria</i>
<i>Graphania plena</i> (Walker)	September-May		larvae on herbs
<i>Graphania rubescens</i> (Butler)	January-April		larvae on herbs
<i>Graphania scutata</i> (Meyrick)	March-May		larvae on herbs
<i>Graphania ustistiga</i> (Walker)	August-May		larvae on herbs and shrubs
<i>Heliothis armigera conferta</i> Walker	February-May		widespread, larvae on <i>Vittadinia</i>
<i>Meterana grandiosa</i> (Philpott)	April		larvae on <i>Olearia odorata</i> , rare
<i>Meterana tartarea</i> (Butler)	March		larvae on <i>Coprosma</i> spp.
<i>Meterana exquisita</i> (Philpott)	October-November		larvae on <i>Olearia odorata</i> , rare
<i>Meterana ochthistis</i> (Meyrick)	October-March		larvae on <i>Rubus</i> , <i>Corokia</i> , etc
<i>Persectania aversa</i> (Walker)	October-April	to 900m	grasslands
* <i>Tmetolophota acontistis</i> (Meyrick)			
<i>Tmetolophota atristriga</i> (Walker)	November-March		grasslands
<i>Tmetolophota propria</i> (Walker)	January-April	to 1000m	grasslands
<i>Tmetolophota semivittata</i> (Walker)	October-March		grasslands
<i>Agrotis ipsilon aneituma</i> Walker	December-April		grasslands, herbs
<i>Agrotis infusa</i> (Boisduval)	April		immigrant species, non-breeding
<i>Euxoa admirationis</i> (Guenee)	October-April		open areas, grasslands
<i>Ichneutica ceraunias</i> Meyrick	February		widespread in grasslands, <i>Chionochloa</i>
<i>Rhapsa scotosialis</i> Walker	March		shrublands, litter
<b>Arctiidae</b>			
<i>Metacrias strategica</i> (Hudson)	January	600m	grassland, polyphagous
<b>ORDER ORTHOPTERA</b>			
<b>Acridae</b>			
<i>Sigaus australis</i> (Hutton)	October-April	300-1150m	montane-alpine grassland, widespread
<i>Sigaus minutus</i> Bigelow	October-April		near Galloway, rocky slopes, rare species
<i>Paprides dugdali</i> Bigelow	November-March	1150m	Rough Ridge, alpine grassland, cushionfield
<i>Phaulacridium marginale</i> (Walker)	October-April		open areas, grassland
<b>ORDER HEMIPTERA</b>			
<b>Cicadidae</b>			
<i>Kikihia angusta</i> (Walker)	January-March	to 1150m	grassland