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# ***Forest Insects Collected in Kootenay National Park, 1948-1971***

**by G. J. Smith and J. C. E. Melvin**



**Report NOR-X-110**

**August, 1974**

northern forest research centre  
edmonton, alberta

FOREST INSECTS COLLECTED IN KOOTENAY  
NATIONAL PARK 1948-1971

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*ABSTRACT*

*Forest insects collected in Kootenay National Park from 1948 to 1971 are listed alphabetically by order, family, genus and species. Hosts, numbers of collections, and stages of the insects when collected are shown.*

*RESUME*

*Les insectes forestiers récoltés de 1948 à 1971 dans le parc national du Kootenay sont énumérés alphabétiquement selon les ordres, les familles, les genres et les espèces. A ceci s'ajoutent les hôtes, le nombre des récoltes et les stades de développement des insectes, s'il y a eu récolté.*

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*INTRODUCTION*

The Forest Insect and Disease Survey, operating within a number of federal government departments, has been collecting forest insects in the Prairie Provinces and western National Parks since 1937. The vast majority of collections were made following post-war staff increases. Since 1948, all collections have been recorded on computer tapes, along with pertinent ecological data. Computer print-outs were used to compile the following annotated list of insects collected in Kootenay National Park from 1948 to 1971.

As most collections were made by beating foliage over a canvas sheet, some of the hosts shown for adult collections may be inaccurate. Because of the emphasis placed on the collection of some insects for special studies, the number of collections do not necessarily reflect the relative abundance of species.

## LIST OF COMMON NAMES OF PLANTS USED

## WITH SCIENTIFIC EQUIVALENTS

Alder	<i>Alnus</i> spp.
Aspen, Trembling	<i>Populus tremuloides</i> Michx.
Birch	<i>Betula</i> spp.
Birch, Dwarf	<i>Betula glandulosa</i> Michx.
Birch, Water	<i>Betula occidentalis</i> Hook.
Cedar, Western Red	<i>Thuja plicata</i> Donn.
Cottonwood, Black	<i>Populus trichocarpa</i> Torr. & Gray
Fir	<i>Abies</i> spp.
Fir, Alpine	<i>Abies lasiocarpa</i> (Hook.) Nutt.
Fir, Balsam	<i>Abies balsamea</i> (L.) Mill.
Fir, Douglas	<i>Pseudotsuga menziesii</i> (Mirb.) Franco var. <i>glauca</i> (Beissn) Franco
Hemlock, Mountain	<i>Tsuga mertensiana</i> (Bong.) Carr.
Juniper	<i>Juniperus</i> spp.
Juniper, Common	<i>Juniperus communis</i> L.
Juniper, Creeping	<i>Juniperus horizontalis</i> Moench
Juniper, Rocky Mountain	<i>Juniperus scopulorum</i> Sarg.
Larch, Alpine	<i>Larix lyallii</i> Parl.
Larch, Western	<i>Larix occidentalis</i> Nutt.
Maple, Douglas	<i>Acer glabrum</i> Torr. var. <i>douglasii</i> (Hook.) Dipp.
Maple, Manitoba	<i>Acer negundo</i> L.
Miscellaneous	Misc. (Denotes plants and shrubs)
Pine	<i>Pinus</i> spp.
Pine, Lodgepole	<i>Pinus contorta</i> Dougl. var. <i>latifolia</i> Engelm.
Poplar	<i>Populus</i> spp.
Poplar, Balsam	<i>Populus balsamifera</i> L.
Spruce, Engelmann	<i>Picea engelmannii</i> Parry
Spruce, White	<i>Picea glauca</i> (Moench) Voss
Willow	<i>Salix</i> spp.

## COLEOPTERA

Family Genus	Species	Host	Number of Collections	Stage Collected
<b>ANOBIIDAE</b>				
	Utobium sp.	Alpine fir	1	A
	Xyletinus fucatus Lec.	Lodgepole pine	1	A
<b>BUPRESTIDAE</b>				
	Anthaxia deleta Lec.	Douglas fir	1	A
	Buprestis langii Mann.	Lodgepole pine	1	A
		White spruce	1	A
	rusticorum Kby.	Lodgepole pine	1	A
	Dicerca sp.	Willow	1	A
<b>CANTHARIDAE</b>				
	Podabrus sp.	Alpine fir	1	A
		White spruce	1	A
<b>CEPHALOIDAE</b>				
	Cephaloon tenuicorne Lec.	Misc.	1	A
<b>CERAMBYCIDAE</b>				
	Anoplodera sp.	White spruce	1	A
	canadensis Oliv.	White spruce	1	A
	sexmaculata Linn.	Alpine fir	1	A
	Arhopalus foveicollis Hald.	Balsam fir	1	A
	Asemum striatum Linn.	Balsam fir	1	A
	Cortodera longicornis Kby.	Misc.	1	A
	Gaurotes cressoni Bland.	White spruce	1	A
	Monachamus scutellatus Say	No host	1	A
	Neoclytus muricatus Kby.	Douglas fir	1	
	Oberea schaumii Lec.	Trembling aspen	1	P

## COLEOPTERA

Pachyta	lamed Linn.	White spruce	1		A	
		Douglas fir	1		A	
Rhagium sp.		Douglas fir	1		A	
Saperda sp.		Willow	1		A	
Tetropium sp.		Western larch	1	L		
		Douglas fir	1			
		Engelmann spruce	1			
CHRYSOMELIDAE						
Adoxus	obscurus Linn.	Lodgepole pine	1	L		
Altica sp.		Misc.	1	L		
		ambiens alni Harr.	Douglas fir	1		A
Chrysomela	aeneicollis Schffr.	Willow	15	L P	A	
		falsa Brown	Willow	1		A
		mainensis interna Brown	Alder	2	L P	A
		schaefferi Brown	Willow	1		A
Glyptoscelis sp.		Douglas fir	3		A	
		Creeping juniper	1		A	
Gonioctena	americana Schaeef.	Willow	1		A	
Pyrrhalta sp.		Willow	2	L P	A	
		carbo (Lec.)	Willow	1		A
Syneta sp.		Alpine fir	1		A	
		Douglas fir	1		A	
		Engelmann spruce	1		A	
		Lodgepole pine			A	
	carinata Mann.	White spruce	1		A	
	pilosa Brown	White spruce	7		A	
		Douglas fir	6		A	
		Alpine fir	3		A	
Lodgepole pine		1		A		
CLERIDAE						
Thanasimus	undulatus Say	Lodgepole pine	1		A	



## COLEOPTERA

## COCCINELLIDAE

<i>Adalia</i>	<i>frigida</i> Schn.	Willow	1		A
<i>Anisocalvia</i>	<i>duodecimmaculata</i> Gebl.	Common juniper	1		A
		White spruce	1		A
<i>Brachyacantha</i> sp.		Douglas fir	1		A
		Creeping juniper	1		A
<i>Chilocorus</i> sp.		Lodgepole pine	3		A
		Douglas fir	2		A
	<i>stigma</i> Say	Aspen	2		A
<i>Coccinella</i> sp.		Douglas fir	1	L	
	<i>hieroglyphica kirbyi</i> Cr.	White spruce	1		A
	<i>transversoguttata</i> <i>richardsoni</i> Brown	Douglas fir	1		A
<i>Hippodamia</i> sp.		Misc.	1		A
	<i>apicalis apicalis</i> Csy.	Misc.	1		A
	<i>parenthesis</i> Say	Misc.	1		A
<i>Hyperaspis</i> sp.		Douglas fir	1		A
<i>Mulsantina</i> sp.		Lodgepole pine	1		A
		Douglas fir	2		A
	<i>picta</i> Rand.	Douglas fir	2		A
		Lodgepole pine	1		A

## CURCULIONIDAE

<i>Anthonomus</i> sp.		White spruce	1		A
<i>Brachyrhinus</i>	<i>ovatus</i> Linn.	No host	1		A
<i>Cryptorhynchus</i>	<i>lapathi</i> (Linn.)	Willow	2		A
<i>Cylindrocopturus</i> sp.		Lodgepole pine	1		
<i>Hylobius</i> sp.		Lodgepole pine	21	L P	A
		White spruce	2	L	

## COLEOPTERA

Lepyrus sp.	Willow	2		A
Magdalis sp.	Misc.	1		A
Panscopus sp.	Willow	1		A
	pallidus Buch.	Misc.	1	A
Pissodes sp.	Spruce	2	L	A
	White spruce	17	L	
	Engelmann spruce	1	L	
	Lodgepole pine	11	L P	
	Alpine fir	1		A
	engelmanni Hopk.	White spruce	21	L P A
		Engelmann spruce	2	
	schwarzi Hopk.	Lodgepole pine	5	L A
	strobi Peck	Lodgepole pine	1	A
	terminalis Hopk.	Lodgepole pine	3	A
Rhynchites	bicolor F.	Misc.	2	A
Scythropus sp.	Douglas fir	3		A
	Rocky Mountain juniper	1		A
	elegans Couper	Douglas fir	11	A
		Fir spp.	1	A
		Lodgepole pine	1	A
		Misc.	2	A
ELATERIDAE				
Agriotes	limosus Lec.	White spruce	1	A
Ctenicera sp.		Douglas fir	1	A
		White spruce	1	A
		Misc.	1	A
	bombycina Germ.	Douglas fir	1	A
	callida Brown	Douglas fir	1	A
	cruciata festiva Lec.	Lodgepole pine	1	A
	elegans Cand.	Douglas fir	1	A
		Misc.	1	A

## COLEOPTERA

	fallax Say.	White spruce	1	A
	glauca Germ.	Douglas fir	1	A
	hoppingi Van D.	White spruce	1	A
	lobata pygmaea V.D.	Douglas fir	1	A
	lutescens Fall	Douglas fir	1	A
	nitidula Lec.	White spruce	1	A
	ochreipennis Lec.	Misc.	1	A
	propola propola Lec.	Douglas fir	1	A
		White spruce	1	A
	pudica Brown	Rocky Mountain juniper	1	A
	resplendens	Douglas fir	1	A
	resplendens Esch.	White spruce	1	A
		Misc.	1	A
	semimetallica Walk.	Lodgepole pine	1	A
		Douglas fir	1	A
	triundulata Rand.	White spruce	2	A
		Douglas fir	1	A
	umbripennis Lec.	White spruce	1	A
Dalopius sp.		Lodgepole pine	1	A
		White spruce	1	A
	fucatus Brown	Lodgepole pine	1	A
Lacon	brevicornis Lec.	White spruce	1	A
	profusus Cand.	Douglas fir	1	A
Limenius	aeger Lec.	Mountain hemlock	1	A
		White spruce	6	A
		Lodgepole pine	1	A
		Douglas fir	1	A
LATHRIDIIDAE				
	Melanophthalma sp.	Lodgepole pine	1	L

## COLEOPTERA

## MELANDRYIDAE

Scotochroa	basalis Lec.	Lodgepole pine	1		A
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## MELYRIDAE

Hoppingiana	hudsonica Lec.	Douglas fir	1		A
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## NITIDULIDAE

Epuraea sp.		Lodgepole pine	4	L	A
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## PYTHIDAE

Lecontia	discicollis Lec.	Spruce	1		A
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## SCARABAEIDAE

Dichelonyx	backi Kby.	Douglas fir	7		A
		White spruce	3		A
		Misc.	2		A

	fulgida Lec.	Douglas fir	2		A
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	vicina columbiana Hopp.	Douglas fir	1		A
		Misc.	1		A

Polyphylla	perversa Csy.	Douglas fir	1		A
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## SCOLYTIDAE

Dendroctonus sp.		Western larch	1		A
		White spruce	1	L P	A

	murrayanae Hopk.	Lodgepole pine	7		A
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	ponderosae Hopk.	Lodgepole pine	1		A
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	pseudotsugae Hopk.	Douglas fir	4		A
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	rufipennis Kirby	Engelmann spruce	5		A
		White spruce	2		A
		Alpine fir	1		A

Dryocoetes	affaber Mann.	White spruce	5		A
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	autographus Ratz.	Lodgepole pine	1		A
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Hylurgops sp.		Lodgepole pine	1	L	
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	porosus Lec.	Lodgepole pine	1		
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## COLEOPTERA

	<i>rugipennis</i> Mann.	Lodgepole pine	4		A
<i>Ips</i> sp.		Lodgepole pine	2		A
		White spruce	2		A
	<i>amiskwiensis</i> G. Hopk.	Engelmann spruce	1	P	A
	<i>borealis</i> Sw.	Engelmann spruce	2		A
	<i>guildi</i> Blackm.	Lodgepole pine	1		A
	<i>mexicanus</i> Hopk.	Lodgepole pine	1		A
	<i>perturbatus</i> Eich.	White spruce	4		A
	<i>pini</i> Say	Lodgepole pine	3		A
		White spruce	2		A
	<i>tridens</i> Mann.	White spruce	1		A
	<i>yohoensis</i> Sw.	White spruce	6		A
		Engelmann spruce	3		A
		Lodgepole pine	1		A
		Alpine fir	1		A
<i>Pityogenes</i>	<i>knechteli</i> Sw.	Lodgepole pine	2		A
<i>Polygraphus</i>	<i>rufipennis</i> Kby.	Engelmann spruce	1		A
<i>Pseudohylesinus</i>	<i>nebulosus</i> Lec.	Douglas fir	1	L P	
<i>Scolytus</i>	<i>unispinosus</i> Lec.	Douglas fir	1		
<i>Trypodendron</i> sp.		White spruce	3		A
	<i>lineatum</i> Olivier	Engelmann spruce	1		A
		Lodgepole pine	1		A
<i>Taenioglyptes</i>	<i>ruficollis ruficollis</i> Hopk.	Alpine fir	2		
TENEBRIONIDAE					
<i>Corticeus</i> sp.		White spruce	2		A
		Lodgepole pine	2		A
<i>Helops</i> sp.		Misc.	1		A
<i>Phellopsis</i>	<i>porcata</i> Lec.	Engelmann spruce	1		A

## DIPTERA

Family Genus	Species	Host	Number of Collections	Stage Collected
<b>CECIDOMYIDAE</b>				
Contarinia	negundifolia Felt	Douglas fir	1	
Rhabdophaga	swainei Felt	Engelmann spruce White spruce	1 1	P
<b>SYRPHIDAE</b>				
Metasyrphus sp.		Douglas fir White spruce	1 1	L L
	lapponicus Zett.	Douglas fir White spruce Lodgepole pine	3 2 1	L P L P L

## HEMIPTERA

Family Genus	Species	Host	Number of Collections	Stage Collected
<b>MIRIDAE</b>				
Deraeocoris sp.		Lodgepole pine	1	A
		Alpine fir	1	A
	brevis Uhl.	Misc.	1	A
barberi Kngt.		Spruce	3	A
		Lodgepole pine	2	A
		Balsam fir	1	A
Lygus sp.		Lodgepole pine	1	A
<b>PENTATOMIDAE</b>				
Chlorochroa sp.		Willow	1	A
Perillus	exaptus Say	Willow	1	A

## HOMOPTERA

Family Genus	Species	Host	Number of Collections	Stage Collected	
<b>ACHILIDAE</b>					
Eiptera sp.		Lodgepole pine	1	A	
		Alpine fir	1	A	
	confusa Beirne	Lodgepole pine	1	A	
<b>ADELGIDAE</b>					
Adelges sp.		Douglas fir	5	L	A
		Western larch	5	L	A
		Engelmann spruce	1		
		White spruce	4		
	abietis Linn.	White spruce	1		
	cooleyi Gill.	White spruce	18	L	A
		Douglas fir	12	L	A
		Spruce	2		
	lariciatus Patch	White spruce	2		
	Pineus sp.		White spruce	1	E
pinifoliae Fitch		Douglas fir	1		
<b>APHIDIDAE</b>					
Aphis	farinosa (Gmelin)	Willow	1	L	
Asiphum	rosettei Maxon	Aspen	1		A
Cinara sp.		Alpine larch	1	L	
	fornacula H.	Lodgepole pine	1	L	
Pterocomma	bicolor Oest.	Willow	1		A
	smithiae Monell	Willow	1		A
Pemphigus sp.		Aspen	1		
Pemphyllus sp.		Douglas maple	1	A	
<b>CIXIIDAE</b>					
Cixius	basalis VanD.	White spruce	1		A



## HOMOPTERA

## COCCIDAE

Phenacaspis	pinifoliae Fitch	Douglas fir	9	E L
		Lodgepole pine	3	E L
Physokermes	piceae (Schr.)	White spruce	2	L

## PSYLLIDAE

Psylla sp.		Alder	1	
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## HYMENOPTERA

Family Genus	Species	Host	Number of Collections	Stage Collected
<b>CIMBICIDAE</b>				
Cimbex	americana Leach	Willow	1	L
Trichiosoma sp.		Willow	5	L
		Alder	1	P
		White spruce	1	L
Zaraea sp.		Lodgepole pine	1	L
		Spruce	1	P
<b>DIPRIONIDAE</b>				
Neodiprion sp.		White spruce	24	L P
		Lodgepole pine	24	L P A
		Douglas fir	8	L P
		Alpine fir	3	L P
		abietis Harr.	Douglas fir	8
		White spruce	6	L P
<b>PAMPILIIDAE</b>				
Acantholyda sp.		White spruce	8	L
		Engelmann spruce	1	L
		Lodgepole pine	2	L
		Alpine fir	2	L
<b>SIRICIDAE</b>				
Urocerus	flavicornus F.	Lodgepole pine	1	A
<b>TENTHREDINIDAE</b>				
Anoplonyx sp.		Alpine larch	1	L
		Western larch	3	L
Euura sp.		Balsam fir	1	
		Willow		
Pikonema	alaskensis Roh.	White spruce	26	L
		Engelmann spruce	2	L
		Alpine fir	2	L
		Lodgepole pine	1	L
		Douglas fir	2	L

## HYMENOPTERA

	<i>dimmockii</i> Cress.	White spruce	47	L	P
		Engelmann spruce	3	L	
		Alpine fir	2	L	P
		Douglas fir	1	L	
		Lodgepole pine	1		P
Pristiphora	<i>erichsonii</i> Htg.	Western larch	3	L	P
XYELIDAE					
	<i>Pleroneura</i> sp.	Alpine fir	2	L	
		Douglas fir	1		
	<i>borealis</i> Felt	Alpine fir	4	L	

## LEPIDOPTERA

Family Genus	Species	Host	Number of Collections	Stage Collected
<b>AEGERIIDAE</b>				
Vespamia sp.		Alpine fir	1	P
<b>ARCTIIDAE</b>				
Apantesis	williamsii Dodge	Misc.	1	L
Diacrisia sp.		Willow	3	L
Lexis	bicolor Grt.	Rocky Mountain juniper	1	L
<b>COLEOPHORIDAE</b>				
Coleophora	eleagnisella Kft.	Misc.	1	L
<b>GELECHIIDAE</b>				
Anacampsis	innoculella Zell.	Willow	1	L
Aristotelia sp.		Willow	1	L
Compsolechia	niveopulvella Cham.	Aspen	3	L
Eucordylea	canusella Free.	Lodgepole pine	11	L
	starki Freeman	Lodgepole pine	14	L P
Recurvaria sp.		Lodgepole pine	10	L
		Rocky Mountain juniper	1	L
		Pine sp.	1	A
<b>GEOMETRIDAE</b>				
Anavitrinella	paminaria Gn.	Misc.	13	L
		Douglas fir	1	L
Biston	cognataria Gn.	Misc.	13	L
		Willow	2	L
		White spruce	1	L
Campaea	perlata Gn.	White spruce	1	L
Caripeta	aequaliaria Grt.	Douglas fir	1	L

## LEPIDOPTERA

	<i>angustiorata</i> Wlk.	Lodgepole pine	15	L
	<i>divisata</i> Wlk.	Douglas fir	25	L
		Lodgepole pine	2	L
		White spruce	2	L
		Willow	1	L
		Misc.	2	L
<i>Deilinia</i> sp.		Douglas fir	1	L
		Willow		
	<i>erythemaria erythemaria</i> Gn.	Willow	3	L
<i>Diactinia</i> sp.		Misc.	1	L
	<i>silaceata albolineata</i> Pack.	Misc.	1	L
<i>Dysstroma</i> sp.		Willow	1	L
<i>Ectropis</i>	<i>crepuscularia</i> Schiff.	Willow	2	L
<i>Enypia</i>	<i>griseata</i> Grossb.	Douglas fir	1	L
	<i>moillieti</i> Blkmre.	Douglas fir	10	L
	<i>ventata</i> Grt.	Douglas fir	1	P
<i>Epirrita</i>	<i>autumnata omissa</i> Harr.	White spruce	8	L
		Engelmann spruce	4	L
		Alpine fir	6	L
		Balsam fir	1	L
		Douglas fir	1	L
		Alder	1	L
		White birch	1	L
		Birch	1	L
		Misc.	1	L
<i>Euchlaena</i> sp.		Misc.	4	L
<i>Eufidonia</i>	<i>notataria</i> Wlk.	Willow	1	L
<i>Eupithecia</i> sp.		Misc.	1	L
		Douglas fir	1	L
	<i>albicapitata</i> Pack.	Douglas fir	1	L
	<i>columbrata</i> McD.	Douglas fir	4	L
	<i>filmata</i> Pears.	Douglas fir	2	L
		White spruce	6	L

## LEPIDOPTERA

	<i>luteata</i> Pack.	Douglas fir	9	L	
		White spruce	7	L	
		Willow	2	L	
		Alpine fir	2	L	
	<i>niphadophilata</i> Dyar	Juniper	6	L	
	<i>perfusca</i> Hlst.	Misc.	1	L	
	<i>pseudotsugata</i> Mack.	Douglas fir	1	L	
	<i>satyrata</i> Hbn.	Misc.	1	L	
	<i>transcanadata</i> Mack.	Douglas fir	5	L	
Hesperumia	<i>sulphuraria</i> Pack.	Misc.	1	L	
Hydriomena	<i>albimontanata</i> McD.	Douglas fir	6	L	
		White spruce	2	L	
	<i>furcata</i> Thun.	Willow	1	L	
Hypagyrtis	<i>piniata</i> Pack.	White spruce	1	L	
Iridopsis	<i>emasculata</i> Dyar	Misc.	4	L	
	<i>larvaria</i> Gn.	Misc.	1	L	
		Western larch	1	L	
Itame	<i>anataria</i> Swett.	Dwarf birch	1	L	
		Misc.	1	L	
		Douglas fir	1	L	
		White spruce	1	L	
	<i>denticulodes</i> Hlst.	Misc.	1	L	
	<i>exauspicata</i> Wlk.	Misc.	1	L	
	<i>fulvaria</i> Vill.	Misc.	1	L	
	<i>loricaria</i> Evers.	Misc.	1	L	
Lambdina	<i>fiscellaria</i> <i>fiscellaria</i> Gn.	White spruce	1		A
Leucobrephos	<i>brephoides</i> Wlk.	Douglas maple	1	L	
Lycia	<i>ursaria</i> Wlk.	Misc.	3	L	
Lygris sp.		Lodgepole pine	1	L	

## LEPIDOPTERA

	<i>destinata</i> Moesch.	Douglas fir	1		A
	<i>xylina</i> Hlst.	Willow	1	L	
		Birch	1	L	
Melanolophia	<i>imitata</i> Wlk.	Douglas fir	39	L	
		Fir sp.	1	L	
Metanema	<i>determinata</i> Wlk.	Willow	3	L	
Nematocampa	<i>filamentaria</i> Gn.	Douglas fir	2	L	
Nepytia sp.		Douglas fir	2	L	
	<i>canosaria</i> Wlk.	Douglas fir	2	L	
		Fir sp.	1	L	
Nyctobia	<i>limitaria</i> Wlk.	White spruce	7	L	
		Douglas fir	5	L	
		Alpine fir	1	L	
		Mountain hemlock	1	L	
Operophtera	<i>bruceata</i> Hlst.	Misc.	2	L	
		Manitoba maple	1	L	
		Willow	1	L	
		Birch	1	L	
Pero sp.		White spruce	1	L	
		Willow	1	L	
		Misc.	2	L	
	<i>behrensarius</i> Pack.	Douglas fir	9	L	
		Misc.	1	L	
	<i>marmoratus</i> Grossb.	Misc.	1	L	
	<i>morrisonarius</i> Hy. Edw.	Misc.	2	L	
Plagodis	<i>phlogosaria</i> approxi- <i>maria</i> Dyar	Alder	1	L	
Plemyria	<i>georgii</i> Hlst.	Alder	1	L	
		Douglas maple	1	L	
Protoboarmia	<i>porcelaria</i> <i>indicataria</i> Wlk.	Alpine fir	1	L	
		White spruce	1	L	
Semiothisa	<i>granitata</i> Gn.	Douglas fir	34	L	
		White spruce	16	L	
		Spruce	2	L	
		Alpine fir	6	L	
		Misc.	1	L	

## LEPIDOPTERA

	hebetata Hlst.	Aspen	1	L
		Willow	1	
	hebatata ponderosa B. and McD.	Willow	1	L
	neptaria Gn.	Willow	7	L
	perplexa McD.	Lodgepole pine	10	L
	sexmaculata Pack.	Western larch	2	L
	setonana McD.	Rocky Mountain juniper	1	L
Spargania	magnoliata Gn.	Misc.	1	L
Epirrhantis	substriataria danybi Hlst.	White spruce	1	L
Stenoporpia	satisfacta B. and McD.	Douglas fir	1	L
Synaxis	jubararia Hlst.	White spruce	1	L
Tetracis	cachexiata Gn.	White birch	1	L
		Douglas fir	1	L
Thera	otisi Dyar	Common juniper	4	L
Venusia	pearsalli Dyar	Birch	1	L
GRACILLARIIDAE				
Gracillaria sp.		White birch	2	L
		Douglas maple	2	L
		Alder	1	L
Phyllocnistis	populiella Cham.	Aspen	26	L P
		Balsam poplar		
		Black cottonwood	1	
LASIOCAMPIDAE				
Epicnaptera	americana Harr.	Willow	6	L
		Aspen	2	L
Malacosoma	californicum pluviale Dyar	Aspen		
		Willow	3	
		Misc.	8	L P
		Dwarf birch	1	L
		Poplar sp.	1	L



## LEPIDOPTERA

		Water birch	1	L
		White birch	2	L P
		Aspen	4	L
	<i>disstria</i> Hbn.	Aspen	2	L P
		Willow	1	L
LYMANTRIIDAE				
	<i>Parorgyia</i>	<i>plagiata</i> Wlk.	White spruce	5 L
LYCAENIDAE				
	<i>Incisalia</i>	<i>eryphon</i> Bdv.	Lodgepole pine	2 L
NOCTUIDAE				
	<i>Achytonix</i> sp.		Alpine fir	1 L
		<i>praeacuta</i> Sm.	Douglas fir	1 L
	<i>Acronicta</i> sp.		Poplar sp.	1 L
			Willow	1 L
		<i>grisea</i> Wlk.	Willow	1 L
		<i>leporina</i> Linn.	Aspen	1 L
	<i>Andropolia</i>	<i>contacta</i> Wlk.	Aspen	1 L
	<i>Anomogyna</i> sp.		Douglas fir	1 L
		<i>perquiritata</i> Morr.	Alpine fir	1 L
	<i>Catocala</i> sp.		Willow	1 L
	<i>Eupsilia</i>	<i>tristigmata</i> Grt.	Willow	1 L
	<i>Feralia</i>	<i>jocosa</i> Gn.	Douglas fir	15 L
			White spruce	11 L
			Alpine fir	1 L
			Lodgepole pine	2 L
			Western larch	1 L
	<i>Homoglaea</i>	<i>carbonaria</i> Harv.	Aspen	1 L
	<i>Ipimorpha</i>	<i>pleonectusa</i> Grt.	Aspen	1 L
	<i>Lithophane</i> sp.		White spruce	1 L
	<i>Orthosia</i> sp.		White spruce	1 L
			Douglas fir	1 L

## LEPIDOPTERA

	hibisci Gn.	Aspen	1	L
		White spruce	1	L
		Birch	1	L
		Balsam poplar	1	L
	revicta Morr.	Douglas fir	1	L
Panthea	acronyctoides Wlk.	White spruce	2	L
		Douglas fir	1	L
	furcilla Pack.	Lodgepole pine	2	L
Polia sp.		Misc.	10	L
		Douglas fir	2	L
	assimilis	Misc.	6	L
	cristifera Wlk.	Misc.	5	L
	ingravis Sm.	Misc.	2	L
	lutra Gn.	Misc.	12	L
Pyrrhia	expermens Wlk.	Willow	1	L
Scoliopteryx	libatrix Linn.	Willow	4	L
		Aspen	1	L
Synedoida	hudsonica G. and R.	Misc.	18	L
		Willow	1	L
		Douglas fir	2	L
		Lodgepole pine	1	L
Syngrapha sp.		White spruce	1	L
		Alpine fir	1	L
	alias Ottol.	White spruce	6	L
		Engelmann spruce	4	L
		Alpine fir	2	L
		Douglas fir	1	L
	selecta Wlk.	White spruce	3	L
		Alpine fir	1	L
		Douglas fir	1	L
Xylena	cineritia Grt.	Misc.	2	L
Xylotype sp.		Misc.	1	L
	capax G. and R.	Douglas fir	1	L
Zale	duplicata largera Sm.	Lodgepole pine	5	L

## LEPIDOPTERA

## NOTODONTIDAE

Cerura sp.		Willow	1	L
	borealis Bdv.	Willow	2	L
	occidentalis Lint.	Willow	1	L
Gluphisia sp.		Balsam poplar	1	L
Ichthyura	albosigma Fitch	Willow	1	L
	brucei Hy. Edw.	Willow	1	L
Pheosia	rimosa Pack.	Willow	1	L

## NYCTEOLIDAE

Nycteola	frigidana Wlk.	Lodgepole pine	1	P
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## NYMPHALIDAE

Nymphalis	antiopa L.	Willow	6	L
		Aspen	1	L
		Black cottonwood	1	L
		Alder	1	L
	milberti Godt.	Misc.	4	L

## OECOPHORIDAE

Agonopterix	argillacea Wlsh. m.	Willow	1	L
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## OLETHREUTIDAE

Epinotia	lindana Fern.	Willow	1	L	
		medioplagata Wlsh. m.	Lodgepole pine	1	L
		nisella criddleana Kft.	Aspen	1	L
		solandriana Linn.	White birch	4	L
Balsam poplar	4		L		
Alder	2		L P		
Aspen	2		L		
Willow	1		L		
Exartema sp.		Birch	1	L	

## LEPIDOPTERA

Griselda	radicana Wlsh.	Douglas fir	6	L	P
		White spruce	19	L	P
		Alpine fir	1	L	
		Willow	2	L	
Petrova sp.		Lodgepole pine	2	L	
		Engelmann spruce	1	L	
		Willow	1	L	
	metallica Busck	Lodgepole pine	1	L	
Pseudexentera sp.		Aspen	1	L	
		oregonana Wlsh.	Aspen	1	L
Taniva	albolineana Kft.	White spruce	1	L	
Zeiraphera sp.		Douglas fir	3	L	
		White spruce	3	L	
	fortunana Kft.	White spruce	27	L	
		Douglas fir	6	L	
Alpine fir		8	L		
PAPILIONIDAE					
Papilio sp.		Misc	1	L	
		glaucus Linn.	Willow	1	L
		glaucus canadensis R. and J.	Willow	1	L
PTEROPHORIDAE					
Platyptilia	pundtidactyla Haw.	Misc.	1		P
PYRALIDAE					
Ambesa	laetella Grt.	Misc.	1	L	
Dioryctria sp.		Douglas fir	1	L	
		White spruce	1	L	
	abietivorella Grt.	Douglas fir	7	L	
		White spruce	1	L	
reniculella Grt.	White spruce	1		P	
	Engelmann spruce	1	L		
Nephoteryx	basilaris Zell.	Willow	1	L	

## LEPIDOPTERA

## SATURNIIDAE

Hyalophora	euryalus Bov.	Misc.	1	L
	euryalus kasloensis Ck11.	Misc.	1	L

## SPHINGIDAE

Celerio	gallii intermedia Kby.	Misc.	1	L
Sphinx sp.		Misc.	1	L

## TORTRICIDAE

Acleris sp.		Misc.	1	L
	calignosana Wlk.	Alder	1	L
	variana Fern.	White spruce	44	L P A
		Engelmann spruce	6	L P A
		Spruce sp.	4	L P
		Alpine fir	16	L P
		Douglas fir	5	L P
Argyrotaenia sp.		Rocky Mountain juniper	1	L
		Alpine fir	1	L
Archippus	packardianus Fern.	White spruce	2	L
		Engelmann spruce	1	L
	striatus Fern.	White spruce	1	L
Choristoneura sp.		Lodgepole pine	4	L
		Alpine fir	1	L
	biennis Freeman	White spruce	50	L P
		Engelmann spruce	3	L P
		Spruce sp.	7	L P A
		Alpine fir	32	L P
		Douglas fir	17	L P A
		Lodgepole pine	3	L P A
		Pine sp.	1	A
		Balsam fir	1	P
		Juniper	1	L
		Western cedar	1	P
	zapulata Rob.	Misc.	2	L

## LEPIDOPTERA

Clepsia	persicana Fitch	Aspen	1	L P
		Lodgepole pine	1	L
Eulia	ministrana Linn.	Alder	1	L
Pandemis	canadana Kft.	Dwarf birch	1	L
Sydemis	afflictana Wlk.	Alpine fir	1	L
YPONOMEUTIDAE				
Argyresthia	freyella Wlshm.	Douglas fir	1	
		Willow	1	L
Zelleria	gracilariella Busck.	Misc.	1	L

## NEUROPTERA

Family Genus	Species	Host	Number of Collections	Stage Collected
<b>HEMEROBIIDAE</b>				
Hemerobius	humilinus Linn.	Alpine fir	1	A
<b>RAPHIDIIDAE</b>				
Agulla	adnixa Hag.	Douglas fir	2	A