

FOREST INSECTS COLLECTED IN
JASPER NATIONAL PARK
1948-1971

By

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ABSTRACT

Forest insects collected in Jasper 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 Jasper, 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.

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 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 Jasper 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 numbers 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. |
| Birch | <i>Betula</i> spp. |
| Birch, Dwarf | <i>Betula glandulosa</i> Michx. |
| Birch, White | <i>Betula papyrifera</i> Marsh. |
| Birch, Yukon | <i>Betula eastwoodae</i> Sarge. |
| Caragana | <i>Caragana</i> spp. |
| Elm, White | <i>Alnus americana</i> L. |
| Fir, Alpine | <i>Abies lasiocarpa</i> (Hook) Nutt. |
| Fir, Douglas | <i>Pseudotsuga menziesii</i> (Mirb.) Franco var. <i>glauca</i> (Beissn) Franco |
| Juniper, Common | <i>Juniperus communis</i> L. |
| Larch | <i>Larix</i> spp. |
| Maple, Manitoba | <i>Acer negundo</i> L. |
| 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 | <i>Picea</i> spp. |
| Spruce, Black | <i>Picea mariana</i> (Mill.) B.S.P. |
| Spruce, Colorado | <i>Picea pungens</i> Engelm. |
| Spruce, Engelmann | <i>Picea engelmannii</i> Parry |
| Spruce, White | <i>Picea glauca</i> (Moench) Voss |
| Tamarack | <i>Larix laricina</i> (Du Roi) K. Koch |
| Willow | <i>Salix</i> spp. |

ACARINA

| Family | Genus | Species | Host | Number Collections | Stage Collected |
|---------------|--------------|----------------------|--|-----------------------|--------------------|
| CAMISIIDAE | | | | | |
| | Camisia | biurus (Koch.) | Lodgepole pine | 1 | A |
| ERIOPHYDIDAE | | | | | |
| | Eriophyes | sp. | Alder | 1 | |
| LAELAPIDAE | | | | | |
| | Androlaelaps | casalis (Berlese) | Lodgepole pine | 1 | A |
| TETRANYCHIDAE | | | | | |
| | Oligonychus | sp. | Douglas fir Lodgepole pine | 1 1 | A |
| | Oligonychus | ununguis Jac. | White spruce Douglas fir Colorado spruce | 12 1 1 | L L |

COLEOPTERA

| Family | Genus | Species | Host | Number of Collections | Stage Collected |
|--------------|----------------|------------------|------------------|-----------------------|-----------------|
| ANOBIIDAE | | | | | |
| | Hadrobregmus | sp. | Lodgepole pine | 1 | A |
| | Xyletinus | fucatus Lec. | White spruce | 1 | A |
| BOSTRICHIDAE | | | | | |
| | Stephanopachys | sp. | Lodgepole pine | 1 | A |
| BUPRESTIDAE | | | | | |
| | Agrilus | sp. | Trembling aspen | 1 | |
| | | politus Say | White spruce | 2 | A |
| | Chrysobothris | sp. | White spruce | 3 | A |
| | Dicerca | sp. | Trembling aspen | | A |
| | | tenebrosa Kby. | Lodgepole pine | 1 | A |
| | Melanophila | sp. | White spruce | 1 | A |
| BYRRHIDAE | | | | | |
| | Morychus | albertanus Brown | White spruce | 1 | A |
| CANTHARIDAE | | | | | |
| | Cantharis | sp. | White spruce | 1 | A |
| | Podabrus | sp. | Lodgepole pine | 4 | A |
| | | | Black spruce | 2 | A |
| | | | White spruce | 11 | A |
| | | | Alder | 1 | A |
| | | | Misc. | 3 | A |
| | Silis | sp. | White spruce | 2 | A |
| | | difficilis Lec. | Engelmann spruce | 1 | A |
| | | | Alder | 1 | A |
| | | | Lodgepole pine | 2 | A |

COLEOPTERA

CARABIDAE

| | | | | | |
|------------------|--|--------------|---|--|---|
| Calathus sp. | | Misc. | 1 | | A |
| Trichocellus sp. | | White spruce | 1 | | A |

CEPHALOIDAE

| | | | | | |
|-----------|-----------------|------------------|---|--|---|
| Cephaloon | tenuicorne Lec. | Alpine fir | 1 | | A |
| | | Douglas fir | 1 | | A |
| | | Engelmann spruce | 1 | | A |

CERAMBYCIDAE

| | | | | | |
|-----------------|-------------------|-----------------|---|---|---|
| Acmaeops sp. | | No host | 1 | | A |
| Anoplodera | aspera Lec. | White spruce | 1 | | A |
| | | No host | | | |
| | chrysocoma Kby. | Lodgepole pine | 1 | | A |
| | sexmaculata Linn. | No host | | | A |
| | | White spruce | 1 | | A |
| | | Lodgepole pine | 1 | | A |
| | tibialis Lec. | No host | 1 | | A |
| Cortodera | longicornis Kby. | Spruce | 1 | | A |
| | | Lodgepole pine | 1 | | A |
| Gonocallus | collaris Kby. | Willow | 1 | | A |
| | | Alder | 1 | | A |
| Grammoptera sp. | | No host | 1 | | A |
| | subargentata Kby. | Lodgepole pine | 1 | | A |
| Oberea sp. | | Trembling aspen | 2 | L | |
| Pachyta | lamed (Linn.) | Willow | 1 | | A |
| Saperda | calcarata Say. | Trembling aspen | 4 | L | A |
| Spondylis | vestitus Hald. | Lodgepole pine | 1 | | A |

CHRYSOMELIDAE

| | | | | | |
|----------------|--|--------|---|---|---|
| Altica sp. | | Misc. | 2 | L | |
| Chrysomela sp. | | Willow | 1 | | A |

COLEOPTERA

| | | | | | |
|---------------------|----------------------------------|------------------|----|---|-----|
| | | Alder | 2 | | A |
| | | Misc. | 1 | | A |
| | <i>aeneicollis</i> Schffr. | Balsam poplar | 1 | | P A |
| | | Willow | 5 | | P A |
| | <i>mainensis mainensis</i> Bech. | Alder | 1 | | A |
| | <i>schaefferi</i> Brown | Willow | 2 | | P A |
| | <i>semota</i> Brown | Balsam poplar | 3 | L | P A |
| Orsodacne | <i>atra</i> Ahr. | White spruce | 2 | | A |
| Pachybrachys sp. | | White spruce | 1 | | A |
| Pyrrhalta sp. | | White spruce | 1 | | A |
| | <i>decora</i> (Say.) | Willow | 10 | L | A |
| | | Balsam poplar | 1 | | A |
| | <i>punctipennis</i> (Mann.) | Alder | 1 | L | |
| | | Willow | 2 | L | A |
| Syneta sp. | | White spruce | 3 | | A |
| | | Lodgepole pine | 1 | | A |
| | | Douglas fir | 1 | | A |
| | | Black spruce | 1 | | A |
| | <i>hamata</i> Horn | Engelmann spruce | 1 | | A |
| | | Alder | 2 | | A |
| | <i>pilosa</i> Brown | Spruce | 1 | | A |
| | | Pine | 1 | | A |
| | | Engelmann spruce | 1 | | A |
| | | Douglas fir | 2 | | A |
| | | Black spruce | 2 | | A |
| | | Alder | 1 | | A |
| | | White spruce | 12 | | A |
| | | Lodgepole pine | 6 | | A |
| | | Willow | 1 | | A |
| | | Alpine fir | 1 | | A |
| CLERIDAE | | | | | |
| Thanasimus | <i>undulatus</i> Say | Douglas fi- | 1 | | A |

COLEOPTERA

COCCINELLIDAE

| | | | | | |
|-----------------|---|-----------------|----|---|---|
| Adalia | bipunctata Linn. | Misc. | 1 | | A |
| | | Alder | 1 | | A |
| | frigida Schn. | Willow | 1 | L | |
| Anisocalvia sp. | duodecimmaculata Gebl. | Alder | 1 | | A |
| | | White spruce | 1 | | A |
| | | Alder | 1 | | A |
| Coccinella sp. | monticola Muls. | Misc. | 1 | | |
| | | Tamarack | 1 | | A |
| | transversoguttata richardsoni Brown | Misc. | 2 | | A |
| | | Douglas fir | 3 | | A |
| | | Willow | 2 | | A |
| | | Spruce sp. | 2 | | A |
| | | Dwarf birch | 1 | | A |
| | | Lodgepole pine | 6 | | A |
| | | Alder | 2 | | A |
| | | Tamarack | 1 | | A |
| | | Black spruce | 1 | | A |
| | trifasciata perplexa Muls | Willow | 1 | | A |
| | | | | | |
| Exochomus | septentrionis Weise | Lodgepole pine | 1 | | A |
| Hippodamia | tredecimpunctata tibialis Say | Lodgepole pine | 1 | | A |
| | | White spruce | 1 | | A |
| Mulsantina sp. | picta Rand. | Douglas fir | 1 | L | |
| | | Lodgepole pine | 3 | | A |
| White spruce | | 1 | | A | |
| | | White spruce | 12 | | A |
| | | Douglas fir | 6 | | A |
| | | Black spruce | 2 | | A |
| | | Trembling aspen | 1 | | A |
| | | Lodgepole pine | 11 | | A |
| | | Alder | 1 | | A |
| | | Willow | 1 | | A |
| Neomysia sp. | randalli Csy. | Lodgepole pine | 1 | | A |
| | | Douglas fir | 1 | | A |

COLEOPTERA

| | | | | | | |
|-----------------------|---------------------------------|-------------------------|----------------|----------------|---|---|
| <i>Psyllobora</i> | <i>virginti-maculata</i> Say | Misc. | 1 | A | | |
| CURCULIONIDAE | | | | | | |
| <i>Brachyrhinus</i> | <i>ovatus</i> Linn. | No host | 1 | A | | |
| <i>Hylobius</i> sp. | | Lodgepole pine | 1 | | | |
| <i>Lepyrus</i> sp. | | Willow | 2 | A | | |
| | | Trembling aspen | 1 | A | | |
| | <i>palustris</i> Scop. | Willow | 2 | A | | |
| | | Balsam poplar | 1 | A | | |
| <i>Magdalis</i> sp. | | Birch | 1 | A | | |
| | | Lodgepole pine | 1 | A | | |
| | | White spruce | 1 | A | | |
| <i>Pissodes</i> sp. | | Lodgepole pine | 9 | A | | |
| | | <i>curriei</i> Hopk. | Lodgepole pine | 7 | A | |
| | | | White spruce | 1 | A | |
| | | <i>schwarzi</i> Hopk. | Lodgepole pine | 11 | A | |
| | | | Douglas fir | 1 | A | |
| | | <i>strobi</i> Peck | | Lodgepole pine | 1 | A |
| | | <i>terminalis</i> Hopk. | | Lodgepole pine | 1 | L |
| <i>Proctorus</i> | <i>armatus</i> Lec. | White spruce | 1 | A | | |
| | | Trembling aspen | 2 | A | | |
| <i>Rhynchites</i> | <i>bicolor</i> F. | Misc. | 2 | A | | |
| <i>Scythropus</i> sp. | | Lodgepole pine | 11 | A | | |
| | | Douglas fir | 1 | A | | |
| | | Black spruce | 1 | A | | |
| | | White spruce | 1 | A | | |
| | | <i>elegans</i> Couper | Lodgepole pine | 16 | A | |
| | | | Douglas fir | 9 | A | |
| | | | White spruce | 6 | A | |
| Common juniper | 1 | | A | | | |
| ELATERIDAE | | | | | | |
| <i>Agriotes</i> | <i>limosus</i> Lec. | Willow | 1 | A | | |
| | | White spruce | 1 | A | | |

COLEOPTERA

| | | | | |
|---------------|---------------------|------------------|---|---|
| Ampedus | nigricans Germ. | Engelmann spruce | 1 | A |
| | pullus Germ. | White spruce | 1 | A |
| Conoderus sp. | | White spruce | 1 | A |
| | debilis Lec. | Douglas fir | 1 | A |
| Ctenicera sp. | | Lodgepole pine | 1 | A |
| | | White spruce | 3 | A |
| | aereipennis Kby. | Lodgepole pine | 4 | A |
| | | White spruce | 1 | A |
| | appropinquans Rand. | Misc. | 1 | A |
| | bombycina Germ. | Lodgepole pine | 1 | A |
| | callida Brown | Douglas fir | 1 | A |
| | propola columbiana | Lodgepole pine | 2 | A |
| | Brown | Willow | 1 | A |
| | cruciata festiva | Lodgepole pine | 1 | A |
| | Lec. | Yukon birch | 1 | A |
| | hoppingi Van D. | Lodgepole pine | 1 | A |
| | | White spruce | 3 | A |
| | | Black spruce | 1 | A |
| | nigricollis Bland. | Douglas fir | 2 | A |
| | | White spruce | 1 | A |
| | nitidula Lec. | Douglas fir | 1 | A |
| | | White spruce | 1 | A |
| | ocheipennis Lec. | Willow | 1 | A |
| | | White spruce | 6 | A |
| | | Alpine fir | 1 | A |
| | | Misc. | 2 | A |
| | pudica Brown | Lodgepole pine | 1 | A |
| | | Misc. | 1 | A |
| | semimetallica | Lodgepole pine | 1 | A |
| | (Walk.) | White spruce | 2 | A |
| | triundulata Rand. | White spruce | 2 | A |
| | | Lodgepole pine | 2 | A |
| | | Douglas fir | 1 | A |

COLEOPTERA

| | | | | |
|-----------------------|-------------------|------------------|----|---|
| Dalopius sp. | | Lodgepole pine | 1 | A |
| | | White spruce | 1 | A |
| Eanus | decoratus Mann. | White spruce | 1 | A |
| | | Black spruce | 1 | A |
| Lacon sp. | | Lodgepole pine | 2 | A |
| | brevicornis Lec. | Lodgepole pine | 1 | A |
| | | White spruce | 2 | A |
| | profusus Cand. | White spruce | 1 | A |
| Limonius | aeger Lec. | Engelmann spruce | 1 | A |
| | | Willow | 1 | A |
| | | Douglas fir | 3 | A |
| | | Black spruce | 2 | A |
| | | Lodgepole pine | 9 | A |
| | | White spruce | 19 | A |
| | | Alpine fir | 1 | A |
| Sericus | brunneus Linn. | Engelmann spruce | 1 | A |
| | | White spruce | 2 | A |
| | | Dwarf birch | 1 | A |
| | | Alder | 1 | A |
| | | Douglas fir | 1 | A |
| HELODIDAE | | | | |
| Cyphon | variabilis Thunb. | White spruce | 2 | A |
| | | Spruce | 1 | A |
| | | Engelmann spruce | 1 | A |
| | | Juniper | 1 | A |
| LAMPYRIDAE | | | | |
| Lucidota sp. | | Lodgepole pine | 1 | A |
| LATHRIDIIDAE | | | | |
| Melanophthalma sp. | | Lodgepole pine | 1 | A |
| MELANDRYIDAE | | | | |
| Scotochroa | basalis Lec. | Lodgepole pine | 2 | A |
| | | Black spruce | 1 | A |
| Tetratoma sp. | | | | |

COLEOPTERA

MELYRIDAE

| | | | | | |
|-------------|----------------|-----------------|---|---|---|
| Eपुरaea sp. | | Lodgepole pine | 3 | | A |
| | | Trembling aspen | 1 | L | |
| Hoppingiana | hudsonica Lec. | Lodgepole pine | 1 | | A |
| | | Douglas fir | 2 | | A |

SCARABAEIDAE

| | | | | | |
|----------------------------|--|------------------|----|---|---|
| Apodius sp. | | Lodgepole pine | 1 | | A |
| Dichelonyx sp. | | White spruce | 2 | | A |
| | | Engelmann spruce | 1 | | A |
| | | Lodgepole pine | 2 | | A |
| backi Kby. | | Engelmann spruce | 1 | | A |
| | | Lodgepole pine | 12 | | A |
| | | White spruce | 8 | L | A |
| | | Douglas fir | 4 | L | A |
| | | Alder | 1 | | A |
| | | Juniper | 1 | | A |
| | | Misc. | 2 | | A |
| | | | | | |
| fulgida Lec. | | Lodgepole pine | 11 | | A |
| valida Lec. | | Douglas fir | 1 | | A |
| vicina columbiana Hopp. | | Douglas fir | 1 | | A |
| | | White spruce | 1 | | A |
| | | Lodgepole pine | 1 | | A |

SCOLYTIDAE

| | | | | | |
|---------------------|---------------|----------------|---|-----|---|
| Cryphalus sp. | | Lodgepole pine | 1 | | |
| Dendroctonus sp. | | Lodgepole pine | 2 | | A |
| | | Black spruce | 1 | | A |
| murrayanae Hopk. | | Lodgepole pine | 4 | L P | A |
| | | Douglas fir | 1 | | A |
| rufipennis Kby. | | White spruce | 5 | | A |
| | | Black spruce | 1 | | A |
| ponderosae Hopk. | | Lodgepole pine | 2 | | A |
| Dryocoetes | affaber Mann. | White spruce | 4 | | A |
| | | Lodgepole pine | 1 | | A |
| | | Black spruce | 1 | | |

COLEOPTERA

| | | | | | |
|------------------------|--------------------------|------------------|---|---|---|
| | <i>confusus</i> Sw. | Lodgepole pine | 1 | | A |
| Hylurgops | <i>porosus</i> Lec. | Lodgepole pine | 1 | | A |
| | <i>rugipennis</i> Mann. | Lodgepole pine | 1 | | A |
| Ips sp. | | Lodgepole pine | 2 | | A |
| | | White spruce | 2 | | A |
| | <i>gildi</i> Blackm. | Lodgepole pine | 1 | | A |
| | <i>perturbatus</i> Eich. | Lodgepole pine | 1 | | A |
| | | White spruce | 5 | | A |
| | <i>pini</i> Say | Lodgepole pine | | L | A |
| | <i>yohoensis</i> Sw. | White spruce | 1 | | A |
| Orthotomicus sp. | | Lodgepole pine | 1 | | A |
| | <i>caelatus</i> Eich. | White spruce | 1 | | A |
| | <i>vicinus</i> Lec. | White spruce | 1 | | A |
| Pityogenes | <i>knechteli</i> Sw. | Lodgepole pine | 9 | | A |
| Pityophthorus sp. | | Alpine fir | 1 | | A |
| Polygraphus | <i>rufipennis</i> Kby. | White spruce | 5 | | A |
| Pseudohylesinus sp. | | White spruce | 1 | | A |
| | <i>nebulosus</i> Lec. | Douglas fir | 1 | | A |
| Trypodendron | <i>lineatum</i> Olivier | Engelmann spruce | 1 | | |
| TENEBRIONIDAE | | | | | |
| Corticeus sp. | | Lodgepole pine | 1 | | A |

DIPTERA

| Family | Genus | Species | Host | Number of Collections | Stage Collected | |
|--------------|--------------|--------------------|-----------------|-----------------------|-----------------|-----|
| AGROMYZIDAE | | | | | | |
| | Agromyza | sp. | Trembling aspen | 1 | | |
| CECIDOMYIDAE | | | | | | |
| | Dasineura | sp. | White spruce | 1 | | |
| | | balsamicola Lintn. | Alpine fir | 1 | L | |
| | | canadensis Felt. | White spruce | 1 | | |
| | Rhabdophaga | sp. | Willow | 1 | | |
| | | swainei Felt. | White spruce | 8 | L | A |
| | | | Black spruce | 1 | | |
| | Trishormomya | canadensis Felt | Willow | 1 | | |
| SYRPHIDAE | | | | | | |
| | Metasyrphus | sp. | White spruce | 1 | L | |
| | | lapponicus Zett. | Douglas fir | 2 | L | P |
| | | | White spruce | 5 | L | P A |
| | | | Lodgepole pine | 1 | | P |
| | Scaeva | pyrastris Linn. | Lodgepole pine | 1 | L | P |
| | | | Douglas fir | 1 | L | |
| | | | Alder | 1 | | P |
| | | | White spruce | 2 | L | P |

HEMIPTERA

| Family | Genus | Species | Host | Number of Collections | Stage Collected |
|--------------|-----------------|------------------|----------------|-----------------------|-----------------|
| MIRIDAE | | | | | |
| | Deraeocoris sp. | | Douglas fir | 2 | A |
| | | | Willow | 1 | A |
| | | barberi Kngt. | White spruce | 1 | A |
| | | kennicotti Kngt. | Willow | 1 | A |
| | | laricicola Kngt. | Lodgepole pine | 1 | A |
| | Lygus | rubidus Kngt. | Lodgepole pine | 1 | A |
| | Platylygus sp. | | Lodgepole pine | 1 | A |
| | | luridus Reut. | | | |
| PENTATOMIDAE | | | | | |
| | Elasmostethus | cruciatus Say | Misc. | 1 | A |
| | Meadorus | lateralis Say | White birch | 1 | A |

HOMOPTERA

| Family Genus | Species | Host | Number of Collections | Stage Collected | | |
|-----------------|--------------------|-----------------|--------------------------|--------------------|-----|---|
| ACHILIDAE | | | | | | |
| Eiptera sp. | | Black spruce | 1 | | A | |
| | | Spruce | 1 | | A | |
| | | Alpine fir | 1 | | A | |
| | pallida Say | White spruce | 1 | | A | |
| ADELGIDAE | | | | | | |
| Adelges sp. | | Lodgepole pine | 4 | | A | |
| | | Alder | 1 | | A | |
| | | Douglas fir | 2 | | A | |
| | | Alpine fir | 1 | | A | |
| | | White spruce | 3 | | A | |
| | abietis Linn. | | Willow | 1 | | A |
| | | | White spruce | 1 | | |
| | cooleyi Gill. | | White spruce | 51 | E | L |
| | | | Douglas fir | 12 | | L |
| | | | Engelmann spruce | 3 | | A |
| | | | Black spruce | 1 | | |
| | lariciatus Patch | | White spruce | 3 | | |
| | | | Black spruce | 1 | | A |
| Pineus | pinifoliae Fitch | White spruce | 8 | | | |
| | | Black spruce | 1 | | | |
| | similis Gill | White spruce | 1 | | | |
| APHIDIDAE | | | | | | |
| Aphis sp. | | Misc. | 1 | | L A | |
| Asiphum sp. | | Trembling aspen | 1 | | | |
| | sacculi Gillette | Trembling aspen | 1 | | A | |
| Chaitophorus | populicola Thos. | Balsam poplar | 1 | | L A | |
| | populifoliae Oest. | Poplar | 1 | | L A | |
| Cinara sp. | | Lodgepole pine | 5 | E | L A | |
| | | Douglas fir | 1 | | L A | |
| | | White spruce | 1 | | L A | |

HOMOPTERA

| | | | | | |
|----------------------|-------------------------|----------------|---|---|---|
| | fornacula H. | White spruce | 1 | L | |
| | medispinosa G.& P. | Douglas fir | 1 | | A |
| Eriosoma | americanum Riley | White elm | 2 | L | |
| Macrosiphum sp. | | Misc. | 1 | L | |
| Pemphigus sp. | | Balsam poplar | 3 | | |
| Periphyllus | negundinis Thos. | Manitoba maple | 3 | L | |
| Schizolachnus sp. | | Lodgepole pine | 1 | | A |
| Thecabius | populi-monilis Riley | Balsam poplar | 1 | | |
| Wahlgreniella | crataegi Monell | Caragana | 5 | L | A |
| CERCOPIDAE | | | | | |
| Aphrophora sp. | | Lodgepole pine | 5 | L | A |
| | | Spruce | 1 | | A |
| | | Douglas fir | 1 | | A |
| | permutata Uhl. | Lodgepole pine | 2 | | A |
| CICADELLIDAE | | | | | |
| Idiocerus sp. | | Spruce | 1 | | A |
| COCCIDAE | | | | | |
| Physokermes | piceae (Schr.) | White spruce | 1 | | |
| MEMBRACIDAE | | | | | |
| Stictocephala sp. | | Willow | 1 | | A |

HYMENOPTERA

| Family Genus | Species | Host | Number of Collections | Stage Collected | |
|-----------------|------------------|------------------|--------------------------|--------------------|---|
| ARGIDAE | | | | | |
| Arge sp. | | Alder | 5 | L P | |
| | | Willow | 1 | L | |
| | | Dwarf birch | 1 | L | |
| | clavicornis F. | Alder | 2 | L | |
| CIMBICIDAE | | | | | |
| Cimbex | americana Leach | Alder | 7 | L | |
| | | Willow | 1 | L | |
| Trichiosoma sp. | | Alder | 3 | L | |
| | | Willow | 7 | L | |
| DIPRIONIDAE | | | | | |
| Neodiprion sp. | | Lodgepole pine | 46 | L P | |
| | | White spruce | 39 | L P | |
| | | Douglas fir | 5 | L P | |
| | | Black spruce | 1 | L | |
| | | Spruce | 1 | L | |
| | | Engelmann spruce | 1 | L | |
| | | abietis Harr. | White spruce | 18 | L |
| | Engelmann spruce | | 1 | L | |
| | Douglas fir | | 6 | L | |
| | rileyi Cress | Black spruce | 3 | L | |
| | | Lodgepole pine | 1 | L | |
| | PAMPILIIDAE | | | | |
| | Acantholyda sp. | | Lodgepole pine | 26 | L |
| | | | White spruce | 17 | L |
| TENTHREDINIDAE | | | | | |
| Anoplonyx sp. | | Tamarack | 8 | L | |
| Fenusa sp. | | Tamarack | 1 | L | |
| Hemichroa | crocea Four. | Tamarack | 1 | L | |
| Nematus sp. | | Dwarf birch | 2 | L P | |
| | | Willow | 6 | L | |

HYMENOPTERA

| | | | | | |
|------------------|-----------------|------------------|-----|---|-----|
| Pikonema sp. | | Lodgepole pine | 6 | L | P |
| | | White spruce | 2 | L | P |
| alaskensis Roh. | | White spruce | 150 | L | P |
| | | Engelmann spruce | 2 | L | |
| | | Black spruce | 4 | L | |
| | | Spruce | 3 | L | |
| dimmockii Cress. | | White spruce | 279 | L | P |
| | | Lodgepole pine | 3 | L | |
| | | Black spruce | 6 | L | |
| | | Spruce | 5 | L | |
| | | Engelmann spruce | 2 | L | |
| | | Douglas fir | 2 | L | |
| Pristiphora | erichsonii Htg. | Tamarack | 14 | L | P A |
| | | Larch | 2 | L | |
| Tenthredo sp. | | Larch | 1 | L | |
| XYELIDAE | | | | | |
| Pleroneura | borealis Felt | Alpine fir | 4 | L | |

LEPIDOPTERA

| Family | Genus | Species | Host | Number of Collections | Stage Collected | | |
|--------------------|--------------|---------------------|-----------------|-----------------------|-----------------|---|---|
| AEGERIIDAE | | | | | | | |
| | Vespa | sp. | Douglas fir | 1 | L | | |
| | | | White spruce | 1 | | | A |
| ARCTIIDAE | | | | | | | |
| | Halisidota | maculata Harr. | Willow | 2 | L | | |
| | | | Alder | 5 | L | P | |
| | | | Lodgepole pine | 1 | L | | |
| | Lexis | bicolor Grt. | Douglas fir | 7 | L | P | A |
| | | | Lodgepole pine | 14 | L | P | A |
| | | | White spruce | 7 | L | P | |
| | Parasemia | parthenos Harr. | Lodgepole pine | 1 | L | | |
| | | | Willow | 1 | E | | A |
| DREPANIDAE | | | | | | | |
| | Oreta | sp. | Douglas fir | 1 | | P | |
| GELECHIIDAE | | | | | | | |
| | Compsolechia | niveopulvella Cham. | Trembling aspen | 9 | L | | |
| | Eucordylea | sp. | White spruce | 2 | L | | |
| | | canusella Free. | Lodgepole pine | 27 | L | | |
| | | | Lodgepole pine | 21 | L | P | A |
| | Evagora | sp. | starki Free. | 73 | E | L | |
| GEOMETRIDAE | | | | | | | |
| | Aethalura | anticaria Wlk. | Alder | 1 | L | | |
| | Anagoga | occiduaria Wlk. | Alder | 5 | L | | |
| | | | Dwarf birch | 1 | L | | |
| | Biston | cognataria Gn. | Alder | 8 | L | | |
| | | | White spruce | 1 | L | | |
| | | | Lodgepole pine | 1 | L | | |
| | | | Douglas fir | 1 | L | | |
| | | | White birch | 1 | L | | |

LEPIDOPTERA

| | | | | | |
|-------------------|--------------------------------|------------------------------------|----------------|---|---|
| | | Willow | 2 | L | |
| | | Dwarf birch | 1 | L | |
| | | Misc. | 3 | L | |
| Brephos | infans Moesch. | Alder | 1 | L | |
| Campaea | perlata Gn. | Alder | 10 | L | |
| | | Dwarf birch | 2 | L | |
| | | Willow | 2 | L | |
| | | Lodgepole pine | 1 | L | |
| | | Misc. | 2 | L | |
| Caripeta | aequaliaria Grt. | Lodgepole pine | 1 | L | |
| | | | | | |
| | angustiorata Wlk. | Lodgepole pine | 211 | L | |
| | | Black spruce | 1 | L | |
| | divisata Wlk. | Douglas fir | 19 | L | |
| | | White spruce | 5 | L | |
| Lodgepole pine | | 1 | L | | |
| Cosymbia | pendulinaria Gn. | Alder | 1 | P | |
| Deilinia sp. | | Willow | 3 | L | |
| | erythemaria erythemaria Gn. | Willow | 2 | L | |
| Dysstroma sp. | | Misc. | 1 | L | |
| | | Alder | 1 | L | |
| | | | | | |
| | | citrata Linn. | Alder | 1 | L |
| | | hersiliata cervini- fascia Wlk. | Misc. | 1 | L |
| | | truncata Hufn. | Spruce | 1 | L |
| | | | Common juniper | 1 | L |
| | | | Misc. | 4 | L |
| | | truncata walkerata Pears. | Misc. | 1 | L |
| | Enypia sp. | | Douglas fir | 1 | L |
| moillieti Blkmre. | | Douglas fir | 7 | L | |
| | | White spruce | 1 | L | |
| Epirrita | autumnata omissa Harr. | White spruce | 1 | L | |

LEPIDOPTERA

| | | | | | | |
|--------------------------------|----------------|--------------------|--------------|---|---|--|
| Eufidonia | notataria Wlk. | Lodgepole pine | 77 | L | P | |
| | | White spruce | 1 | L | | |
| | | Willow | 1 | L | | |
| Eupithecia sp. | | Alder | 2 | L | | |
| | | Douglas fir | 1 | L | | |
| | | White spruce | 4 | L | | |
| | | Lodgepole pine | 1 | L | | |
| | | Poplar | 1 | L | | |
| | | Misc. | 2 | L | | |
| | | albicapitata Pack. | White spruce | 1 | | |
| | | annulata Hlst. | White spruce | 2 | L | |
| arceuthata Frey. | Common juniper | 1 | L | | | |
| filmata Pears. | | White spruce | 53 | L | P | |
| | | Lodgepole pine | 1 | L | | |
| | | Douglas fir | 1 | L | | |
| luteata Pack. | | White spruce | 34 | L | | |
| | | Douglas fir | 36 | L | | |
| | | Lodgepole pine | 2 | L | | |
| | | Alpine fir | 1 | L | | |
| niphadophilata Dyar | Common juniper | 6 | L | | | |
| ornata Hlst. | | Lodgepole pine | 13 | L | | |
| | | Douglas fir | 4 | L | | |
| palpata Pack. | | Douglas fir | 3 | L | | |
| | | Lodgepole pine | 2 | L | | |
| | | Pine | 1 | L | | |
| perfusca Hlst. | White spruce | 1 | L | | | |
| perfusca alberta Tayl. | | Alder | 8 | | | |
| | | Dwarf birch | 1 | | | |
| | | Willow | 2 | | | |
| perfusca kootena- iata Dyar | Alder | 1 | L | | | |
| pseudotsugata Mack. | | Douglas fir | 12 | L | | |
| | | Lodgepole pine | 1 | L | | |
| ravocostaliata Pack. | Willow | 1 | L | | | |

LEPIDOPTERA

| | | | | |
|----------------|-----------------------|-----------------|----|-----|
| | satyrata Hbn. | Alder | 1 | L |
| | | Misc. | 1 | L |
| | transcanadata Mack. | White spruce | 3 | L |
| | | Black spruce | 2 | L |
| | | Douglas fir | 12 | L |
| Hydriomena sp. | | Douglas fir | 3 | L |
| | | Lodgepole pine | 1 | L |
| | | Alder | 1 | L |
| | albimontanata McD. | Lodgepole pine | 1 | L |
| | | White spruce | 1 | L |
| | divisaria Wlk. | White spruce | 1 | L |
| | furcata Thun. | Willow | 7 | L |
| | | White spruce | 1 | L |
| | macdunnoughi Swett | Willow | 1 | L |
| | renunciata Wlk. | Alder | 6 | L |
| Hypagyrtis | piniata Pack. | Lodgepole pine | 3 | L |
| | | White spruce | 2 | L |
| Hyperetis | amicaria H.S. | Alder | 1 | L |
| Iridopsis | larvaria Gn. | Alder | 2 | L P |
| Itame sp. | | Alder | 1 | L |
| | bitactata Wlk. | Alder | 2 | L |
| | | Misc. | 3 | L |
| | denticulodes Hlst. | Misc. | 1 | L |
| | loricaria Evers. | Trembling aspen | 2 | L |
| | | White spruce | 1 | L |
| | | Misc. | 2 | L |
| | loricaria julia Hlst. | Trembling aspen | 1 | L |
| Leucobrephos | brephoides Wlk. | Alder | 1 | L |
| Lobophora sp. | | Willow | 1 | L |
| | nivigerata Wlk. | Willow | 4 | L |

LEPIDOPTERA

| | | | | |
|--------------|-------------------------------------|-----------------|--------|--------|
| Lycia | rachelae Hlst. | Alder | 1 | L |
| | ursaria Wlk. | Alder | 1 | L |
| Lygris sp. | | Willow | 1 | P |
| | propulsata Wlk. | Misc. | 3 | L |
| | xylina speciosa Hlst. | Willow Misc. | 1 2 | L L |
| Mesothea | viridipennata Hlst. | Misc. | 1 | L |
| Metanema sp. | | White spruce | 1 | L |
| Nyctobia | limitaria Wlk. | White spruce | 21 | L |
| | | Black spruce | 1 | L |
| | | Douglas fir | 1 | L |
| Operophtera | bruceata Hlst. | Alder | 2 | L |
| | | Willow | 1 | L |
| | | Balsam poplar | 1 | L |
| | | Trembling aspen | 2 | L |
| Pero | behrensarius Pack. | Douglas fir | 3 | L |
| | | White spruce | 1 | L |
| | morrisonarius Hy. Edw. | Douglas fir | 1 | L |
| Plagodis sp. | | Alder | 1 | L |
| | phlogosaria approximaria Dyar | Alder | 4 | L |
| | | Willow | 1 | L |
| | | White birch | 1 | L |
| | | Dwarf birch | 1 | L |
| Plemyria | georgii Hlst. | Alder | 4 | L |
| | | White spruce | 1 | L |
| | | Birch | 1 | L |
| | | Misc. | 1 | L |
| Protitame | virginalis Hlst. | Trembling aspen | 1 | L |
| Protoarmia | porcelaria indica- taria Wlk. | White spruce | 2 | L |
| | | Douglas fir | 1 | L |
| Rheumaptera | hastata Linn. | Alder | 6 | L P |

LEPIDOPTERA

GRACILLARIIDAE

| | | | | | |
|-------------------|------------------|-----------------|----|---|-----|
| Gracillaria sp. | | Alder | 6 | L | P |
| Phyllocnistis sp. | | Poplar | 1 | L | P |
| Phyllocnistis | populiella Cham. | Trembling aspen | 62 | L | P A |
| | | Balsam poplar | 4 | | P A |

LASIOCAMPIDAE

| | | | | | |
|-------------|-----------------|-----------------|---|---|---|
| Epicnaptera | americana Harr. | Willow | 6 | L | P |
| | | Lodgepole pine | 1 | L | |
| | | Dwarf birch | 1 | L | |
| | | White spruce | 1 | L | |
| | | Balsam poplar | 1 | L | |
| | | Alder | 2 | L | |
| Malacosoma | disstria Hbn. | Trembling aspen | 2 | L | |
| | californicum | Willow | 1 | L | |
| | pluviale (Dyar) | | | | |

LYCAENIDAE

| | | | | | |
|---------------|--|----------------|---|---|--|
| Incisalia sp. | | Lodgepole pine | 2 | L | |
|---------------|--|----------------|---|---|--|

LYMANTRIIDAE

| | | | | | |
|---------------|---------------|----------------|---|---|--|
| Parorgyia sp. | | White spruce | 3 | L | |
| | plagiata Wlk. | Willow | 1 | L | |
| | | Lodgepole pine | 1 | L | |
| | | White spruce | 2 | L | |
| | | Douglas fir | 1 | L | |

NOCTUIDAE

| | | | | | |
|----------------|---------------|-----------------|---|---|--|
| Acronicta | distans Grt. | White spruce | 1 | L | |
| | grisea Wlk. | Alder | 6 | L | |
| | | Willow | 1 | L | |
| | | White spruce | 1 | L | |
| Andropolia sp. | | Alder | 1 | L | |
| | contacta Wlk. | Trembling aspen | 1 | L | |
| | | Misc. | 1 | L | |

LEPIDOPTERA

| | | | | | |
|----------------|------------------------------|-----------------|----------------|----|-----|
| Anomogyna | elimata Gn. | Lodgepole pine | 1 | L | |
| | | White spruce | 1 | L | |
| Autographa sp. | | Misc. | 1 | L | |
| Bombycia | algens Grt. | Misc. | 1 | L | |
| Catocala sp. | | White spruce | 3 | L | |
| Eurois | occulta Linn. | Alder | 1 | L | |
| Feralia sp. | | Douglas fir | 1 | L | |
| | | White spruce | 4 | L | |
| | | jocosa Gn. | White spruce | 26 | L |
| | | Lodgepole pine | 4 | L | |
| Fishia | enthea Grt. | Misc. | 2 | L | |
| Hillia | maida Dyar. | Misc. | 1 | L | |
| Homoglaea sp. | | Trembling aspen | 5 | L | |
| | | Willow | 1 | L | |
| Ipimorpha | pleonectusa Grt. | Trembling aspen | 2 | L | |
| Lithomoia | solidaginis germana Morr. | Misc. | 1 | L | |
| Lithophane sp. | | Douglas fir | 1 | L | |
| | | georgii Grt. | Willow | 3 | L |
| | | | Misc. | 1 | L |
| | | innominata Sm. | Common juniper | 1 | L |
| Orthosia sp. | | White spruce | 1 | L | |
| | | Alder | 1 | L | |
| | | hibisci Gn. | Dwarf birch | 1 | L |
| | | | White birch | 1 | L |
| | revicta Morr. | Douglas fir | 1 | L | |
| Panthea | acronyctoides Wlk. | White spruce | 4 | L | |
| | | Douglas fir | 3 | L | |
| | | furcilla Pack. | Lodgepole pine | 35 | L P |
| Polia | cristifera Wlk. | Willow | 1 | L | |
| | | Alder | 1 | L | |

LEPIDOPTERA

| | | | | | |
|---------------|---|-----------------------|-------|---|---|
| | <i>ingravis</i> Sm. | Lodgepole pine | 1 | L | |
| | <i>lutra</i> Gn. | Alder | 1 | L | |
| | <i>segregata</i> Sm. | Misc. | 1 | L | |
| Scoliopteryx | <i>libatrix</i> Linn. | Willow | 3 | L | A |
| | | Lodgepole pine | 1 | | P |
| Spaelotis | <i>clandestina</i> Harr. | White spruce | 1 | L | |
| Synedoida | <i>hudsonica</i> G. and R. | Misc. | 2 | L | |
| | | Lodgepole pine | 1 | L | |
| | | White spruce | 1 | L | |
| Syngrapha sp. | | Douglas fir | 2 | L | |
| | | White spruce | 4 | L | |
| | | Lodgepole pine | 1 | L | |
| | <i>alias</i> Ottol. | White spruce | 15 | L | P |
| | | Douglas fir | 1 | L | |
| | | Lodgepole pine | 1 | L | |
| | <i>selecta</i> Wlk. | White spruce | 5 | L | |
| Ufeus | <i>satyricus</i> Grt. | Trembling aspen | 1 | L | |
| Xylena sp. | | No host | 1 | | A |
| | | <i>cineritia</i> Grt. | Misc. | 2 | L |
| Xylomyges | <i>dolosa</i> Grt. | Misc. | 1 | L | |
| Xylotype sp. | | White spruce | 1 | L | |
| Zale | <i>duplicata largera</i> Sm. | Lodgepole pine | 2 | L | |
| | | White spruce | 1 | L | |
| NOTODONIDAE | | | | | |
| | <i>Cerura</i> sp. | Willow | 1 | L | |
| | <i>Ichthyura</i> sp. | Willow | 1 | L | |
| | <i>Schizura</i> <i>unicornis</i> J.E. Smith | Willow | 1 | L | |
| NYMPHALIDAE | | | | | |
| | <i>Nymphalis</i> sp. | Lodgepole pine | 1 | | P |

LEPIDOPTERA

| | | | | | |
|-----------------|--------------------------------|-----------------|----|---|-----|
| | <i>antiopa</i> L. | Willow | 14 | L | P |
| | | Trembling aspen | 5 | L | P |
| | | Balsam poplar | 2 | L | |
| Polygonia | <i>faunus</i> Edw. | Willow | 1 | L | |
| OLETHREUTIDAE | | | | | |
| Badebecia | <i>urticana</i> Hbn. | Alder | 1 | L | |
| | | Trembling aspen | 3 | L | |
| Epinotia sp. | | Willow | 1 | L | |
| | <i>criddleana</i> Kft. | Trembling aspen | 1 | L | |
| | <i>nisella criddleana</i> Kft. | Trembling aspen | 2 | L | |
| | <i>solandriana</i> Linn. | Alder | 2 | L | |
| | | Balsam poplar | 2 | L | |
| | <i>solicitana</i> Wlk. | Alder | 1 | L | |
| Griselda | <i>radicana</i> Wlshm. | White spruce | 97 | L | P A |
| | | Lodgepole pine | 1 | L | |
| | | Douglas fir | 1 | L | |
| | | Spruce | 2 | L | |
| Hedia | <i>ochroleucana</i> Hbn. | Misc. | 1 | L | P |
| Laspeyresia sp. | | White spruce | 2 | | |
| | <i>youngana</i> Kft. | White spruce | 1 | | |
| Paralobesia | <i>piceana</i> Free | White spruce | 4 | L | |
| Petrova sp. | | Lodgepole pine | 14 | L | |
| | <i>albicapitana</i> Busck. | Lodgepole pine | 8 | L | P |
| | <i>metallica</i> Busck. | Lodgepole pine | 5 | L | P |
| Pseudexentera | <i>oregonana</i> Wlshm. | Trembling aspen | 1 | L | |
| Taniva | <i>albolineana</i> Kft. | White spruce | 1 | | P |
| Zeiraphera sp. | | Lodgepole pine | 1 | L | |
| | | White spruce | 2 | L | |
| | <i>fortunana</i> Kft. | White spruce | 20 | L | P |
| | | Black spruce | 2 | L | |

LEPIDOPTERA

| | | | | | | |
|------------------|------------------------------|------------------|-----|---|---|---|
| | | Colorado spruce | 1 | | | |
| | | Douglas fir | 1 | | | |
| | canadensis Mut. | White spruce | 1 | L | | |
| | Free. | Spruce | 1 | | | A |
| PAPILIONIDAE | | | | | | |
| Papilio | glaucus canadensis R. and J. | Alder | 1 | L | | |
| PYRALIDAE | | | | | | |
| Dioryctria | abietivorella Grt. | Lodgepole pine | 1 | L | | |
| Nephoteryx | termitalis Hlst. | Willow | 1 | L | | |
| Udea | inquinatalis Zell. | Misc. | 1 | L | | |
| TORTRICIDAE | | | | | | |
| Acleris sp. | | Alder | 1 | L | | |
| | variana Ferm. | White spruce | 228 | L | P | A |
| | | Black spruce | 1 | L | | |
| | | Lodgepole pine | 3 | L | P | |
| | | Douglas fir | 1 | L | P | |
| | | Alpine fir | 2 | L | | |
| | | Engelmann spruce | 2 | L | P | |
| Archippus | packardianus Ferm. | White spruce | 2 | L | | |
| Archips sp. | | Black spruce | 1 | L | | |
| | | Juniper | 1 | L | | |
| | argyrospilus Wlk. | Misc. | 1 | L | | |
| Argyrotaenia sp. | | Lodgepole pine | 4 | L | | |
| | occultana Free. | Lodgepole pine | 55 | L | | |
| | | Douglas fir | 4 | L | | |
| | | White spruce | 13 | L | P | |
| | | Spruce | 1 | L | | |
| | pinatubana Kft. | Lodgepole pine | 3 | L | | |
| | tabulana Free. | Lodgepole pine | 4 | L | P | |
| | velutinana Wlk. | White spruce | | | | |
| Choristoneura | conflictana Wlk. | White spruce | 2 | L | | |

LEPIDOPTERA

| | | | | | |
|-----------------|---------------------|-----------------|----|---|---|
| | | Trembling aspen | 3 | L | P |
| | fumiferanae Clem. | White spruce | 33 | L | P |
| | rosaceana Harr. | Trembling aspen | 2 | L | |
| Clepsis | persicana Fitch | Trembling aspen | 4 | L | |
| | | White spruce | 2 | L | P |
| | | Douglas fir | 1 | | P |
| | | Willow | 1 | | P |
| | | Misc. | 2 | L | P |
| Pandemis | canadana Kft. | Birch | 1 | L | |
| | | Trembling aspen | 1 | L | |
| Tortrix | wellingtoniana Kft. | Lodgepole pine | 1 | L | |
| YPONOMEUTIDAE | | | | | |
| Argyresthia sp. | | White spruce | 1 | | |

NEUROPTERA

| Family | Genus | Species | Host | Number of Collections | Stage Collected |
|--------------|------------|-----------------------------|----------------|-----------------------|-----------------|
| HEMEROBIIDAE | | | | | |
| Hemerobius | | conhenctus conjunctus Fitch | White spruce | 3 | L |
| | | | Douglas fir | 1 | L |
| | | humulinus Linn. | Alder | 1 | L |
| | | | Alpine fir | 1 | A |
| | | stigmaterus Fitch | Douglas fir | 2 | A |
| | | | Lodgepole pine | 1 | A |
| Kimminsia | | disjuncta Bks. | White spruce | 1 | A |
| Wesmaelius | | longifrons Wlk. | Douglas fir | 4 | A |
| RAPHIDIIDAE | | | | | |
| | Agulla sp. | | Lodgepole pine | 1 | A |