

## Rare Insects found in Pinery

### **ARCHAEOGNATHA**

Machilidae - Jumping Bristletails

*Species uncertain* - 18.ix.1994 - Burley Campground, on bark of fallen tree in first campground loop - J. Skevington - Notes: Only one species is known to occur in Ontario. The specimen from Pinery is likely the same species as is found elsewhere in Ontario. This rare Ontario species is new for Pinery and is a range extension for the family in Ontario. Pinery represents the north boundary of this Carolinian species range. Other Ontario records are for Pelee Island, Wheatley and Wilson Tract (Norfolk County). Specimen is in the University of Guelph collection.

### **ODONATA**

Caenagrionidae - Damselflies

*Enallagma basidens* Calvert - July 9, 1991 - Pinery - I. Carmichael. Notes: New for Lambton. This species has recently arrived in Ontario from the south. The Pinery record represents a new northern range record for the species. It is still rare in Lambton. Voucher specimen in the Pinery collection. Verified by R.A. Cannings, 1992.

*Enallagma spp.* - date?? - Pinery - I. Carmichael.

{Identified as *Enallagma traviatum* Westfalli by Dr. Donnelly, New York - GV/96}

Notes: New for Canada. A male and female of this species has been deposited in the Canadian National Collection. It is unidentifiable to Canadian experts and will be examined by American experts in the future.

\*\*NOTE: This family has been well studied in Pinery between 1991 and 1994 by Ian and Neva Carmichael. 36 species are now known for the park.\*\*

### **ORTHOPTERA**

Tettigoniidae - Long-horned Grasshoppers and Katydid

Several species in this family have been examined and appear to be new to Ontario. More research on this family will follow in 1995.

Gryllotalpidae - Mole Crickets

*Gryllotalpa hexadactyla* Perty (Northern Mole Cricket) - July to

September, 1994 - Ipperwash Army Base - A. Rider \*\* site record only, no voucher collected\*\* - Notes: A new northward range extension for the species. This Carolinian species is common in the south, but is restricted to southernmost Canada. Its known range in Ontario extended from the shore of Lake Erie, inland as far north as Lake St. Clair. It is only common at Point Pelee in Ontario.

## **HOMOPTERA**

### Cicadidae - Cicadas

*Tibiclen auletes* (Scissor Grinder) - July 23, 1991 and Aug. 4, 1991 (Pinery, J. Skevington); July 24, 1992 (Pinery, D. Weigand; Aug. 10, 1994 (Pinery, G. Vogg). Notes: This species is previously known in Ontario from 3 specimens taken in the early 1900's near Turkey Point. The Turkey Point population has apparently been extirpated and Pinery now represents the only location for this species in Ontario. Specimens with the aforementioned data are found in the Pinery collection. Other specimens have been deposited in the University of Guelph collection and in the Canadian National Collection. Identification verified by Andy Hamilton (CNC). Although unknown from Pinery until 1991, this species is fairly common here. Adults can be heard singing on most warm evenings from mid-July to mid-September.

### Cercopidae - Spittlebugs or Froghoppers

*Clastoptera hyperici* Gibson - This species is rare and local in Ontario. It is known in Canada only from Pinery (Hamilton, 1982). In the USA it is known from Maryland, Virginia, Massachusetts and the shore of Lake Erie. Adults feed on Shrubby St. John's-wort (*Hypericum prolificum*) and other native species of the same genus.

*Clastoptera aborina* Ball (Red Cedar Spittlebug) - This species has a very restricted range in Ontario, but is abundant where its food plant (Red Cedar) occurs along the southern shore of Lake Huron (including Pinery), at a few sites along Lake Erie and at one site on eastern Lake Ontario (Hamilton, 1982). In the USA it occurs west to Iowa and south to North Carolina.

*Prosapia ignipectus* (Fitch) (Black Spittlebug) - A specimen collected by K. Barber at Pinery on 19.viii.1980 and 1992 and 1993 specimens collected by J. Skevington are in the University of Guelph collection. 1994 specimens include: 29.vii.1994, Visitor Centre, J. Skevington (3 specimens); 3.viii.1994, Riverside Trail, J. Skevington; 8.viii.1994 and 14.viii.1994 (Pinery, A. Rider); 16-17.viii.1994, Visitor Centre, J. Skevington. Notes: This species is known previously from Walpole Island and Pinery (Hamilton, 1982). Recent observations confirm

that it is fairly common here in late summer. Nymphs feed only on subterranean parts of Little Bluestem (*Schizachyrium scoparium*). This species range outside of Ontario extends from New England south to Pennsylvania.

*Lepyronia gibbosa* Ball - The only Ontario specimen of this species was collected in a malaise off Cedar Trail on 13-17.vii.1992 by J. Skevington. Notes: This species was previously known from sandy areas of the Great Plains and the northeastern USA. In Canada, it is known only from Manitoba and Saskatchewan. More specimens of this species appear to have been collected in 1994, but their identification must be confirmed. Adults feed on prairie grasses. Five specimens collected at the Visitor Centre on 6.vii.1994 by J. Skevington and 2 collected at the Visitor Centre on 20.vii.1994 by A. Rider appear to be of this species.

*Philaenarcys killa* Hamilton - This species was described by Hamilton in 1979 from specimens taken in Pinery. It is known from only its type locality. Observations between 1992 and 1994 indicate that this species is common here in mid to late summer. Adults feed on *Calamovilfa longifolia*. Specimens are deposited in the Canadian National Collection, the University of Guelph collection (12.vii.1992, Cedar Trail, J. Skevington) and the Pinery collection. Pinery collection data follows: 6.vii.1994, Visitor Centre, J. Skevington (6 specimens); 12.vii.1992, Pinery, J. Skevington; 20.viii.1994, Park Store, J. Skevington; 20.vii.1994, Visitor Centre, A.Rider; 18.ix.1994, Burley Campground, J. Skevington.

\*\*NOTE: Fairly extensive, although somewhat preliminary work has been done on most of this family in Pinery. Jeff Skevington has identified most known specimens in the Guelph and Pinery collections from this family but further collecting is required to get a complete list of species for the park (*Clastoptera* has not yet been examined).\*\*

#### Membracidae - Treehoppers

Several species in this family appear to be new for Ontario or only known from 1 other site. Further research into this family would be rewarding.

### NEUROPTERA

#### Myrmeliontidae - Antlions

Species unknown - possibly *Dendroleon obsoletum* (Say). A specimen with black spotted wings was collected on 27.ix.1992 in Pinery by G. Vogg. Several species look like this and all are very rare in Ontario. However, identification is difficult and keys are not

very accessible. An attempt to identify this species and discover more about it will be made in the future.

#### Ascalaphidae - Owlflies

*Species unknown* - A collecting expedition from the Royal Ontario Museum to Pinery in 1981 discovered this species presence. Only 5 records exist for Ontario. Specimens are known from ????. On the basis of these records this species was thought to be a vagrant to Ontario and was not believed to breed here. Our discovery of 3 specimens in 1994 do not support this hypothesis and suggest that Pinery is one of few sites, or possibly the only site in Ontario for this spectacular southern insect. Specimen data: 20.vii.1994 and 21.vii.1994, Pinery Visitor Centre, J. Skevington (3 specimens). Two specimens are in the Pinery collection and 1 is in the University of Guelph collection.

### COLEOPTERA

#### Cicindelidae - Tiger beetles

*Cicindela patrulea* Dejean - This globally rare species (G2 ranking) was known in Ontario from only 1 location (Wasaga Beach). The Wasaga population is believed to be extirpated. In 1992, a collecting group from the University of Guelph led by J. Skevington discovered 2 specimens of this species in Pinery. In 1994, 1 more specimen was collected and the species was photographed by I. Carmichael. The latter reported that the species was fairly common in the north end of the park. Dates on his observations will be obtained. Collection data for 3 of the 4 specimens follows: 24.vi.1993, Hickory or Wilderness Trail area, G. Vogg (Pinery collection); 7.vii.1992, Pinery, R. Burgess (Guelph Collection); 21.ix.1994, Wilderness Trail, J. Skevington (Pinery collection). Another specimen is in the University of Guelph collection.

#### Scarabaeidae - Scarab beetles

*Xyloryctes jamaicensis* - (Rhinoceros Beetle) - collected near the north boundary of Pinery on 16.vi.1994 by B. Kilburn. This species was represented in Canada by one specimen (collected in Pinery by G. Umphrey), but the specimen was accidentally destroyed. The 1994 specimen thus represents the only substantiated occurrence of this southern species in Canada.

*Catalpa lanigera* - Goldsmith Beetle - This Carolinian species is common in Pinery from late May to mid-June. It apparently is rare elsewhere in Ontario but further research is necessary to confirm this.

#### Buprestidae

*Acmaeodera variegata* Lac. - In Ontario this species is known only from Pinery area, Walpole Island and London. Specimens in the Pinery collection have the following data: 3.vii.1994, Ipperwash Army Base, A. Rider; 8.vii.1994, Pinery, A. Rider; 29.vii.1994, Visitor Centre, J. Skevington and A. Rider (5 specimens). Specimens in the Guelph collection have the following data: Pinery, 13.vii.1979, 17.vii.1979, 25.viii.1983, 19.viii.1984; Walpole Island, 12.vii.1979; London, 21.viii.1990. The London specimen may be mislabeled. It is from a student collection.

#### Phengodidae - Glowworms

*Phengodes plumosa* (Oliv.) - This Carolinian species is apparently rare in Ontario. In Pinery it is fairly common. Data for specimens in the Pinery collection follows: 01.vi.1990, 01.vi.1991, 02.vi.1991, Cedar Trail malaise, J. Skevington (4 specimens); 15.vi.1994, North Boundary of Pinery, B. Kilburn; 15-20.vi.1994, 22-26.vi.1994, Cedar Trail malaise, J. Skevington (8 specimens). Other specimens are deposited in the University of Guelph collection.

#### Coccinellidae -Lady Bird Beetles

A variety of specimens from this family were collected in 1994 in Pinery. Many of them are unfamiliar to J. Skevington and may be rare in Ontario. These specimens will be identified this winter and further examination of this family will continue in 1995.

#### Brentidae - Primitive Weevil

*Arrhenodes minutus* (Drury) - This species appears to be rare and local in Ontario, but may be undercollected since it is best seen at night. In Pinery it is common, but rarely seen. Specimens are deposited in the University of Guelph collection and the Pinery collection. Pinery collection data follows: Cedar Trail, late June-early July 1994, J. Skevington (10 specimens)

### **DIPTERA**

#### Tabanidae

*Tabanus americanus* Forster - This species is known in Canada from only a few collections in southern Ontario. The Ontario population is disjunct from the rest of the species which occurs mainly in the southeastern United States. Collection dates are from early to mid-July (Teskey, 1990). The Pinery specimen is in the Canadian National Collection.

#### Curtonotidae

*Curtonotum helvum* (Loew) - This Carolinian species is common in Pinery and area but is not known from anywhere else in Canada. It occurs in grassy areas in the dunes. Pinery collection data follows: 01.ix.1994 - Port Franks, Richmond subdivision and Ipperwash Army Base, J. Skevington (6 specimens). Specimens from Pinery are in the University of Guelph collection.

#### Tachinidae

*Belvosia* spp. - Most members of this genus are rare. One specimen exists for Pinery and must be identified. The specimen will be sent to Norm Woodley in the American Museum of Natural History for identification. Collection data: 20.vii.1994, Lookout Trail parking lot, J. Skevington.

#### Asilidae - Robber Flies

*Holcocephala* spp. - This Carolinian species is fairly common in southern Ontario but is at the northern extent of its range in Pinery. Specimen data from the Pinery collection includes: 19.viii.1994, Port Franks, Richmond Park, J. Skevington; 20.viii.1994, Port Franks, Richmond Park, J. Skevington (50 specimens); 18.ix.1994, Burley Campground, wet meadows, J. Skevington (30+ specimens).

### LEPIDOPTERA

\*\*NOTE: Many of these species are in need of confirmation by experts. If voucher specimens are not available or if experts have not confirmed the identification, records should be considered uncertain. Ultimately, specimens of all of these species will hopefully be deposited in the Pinery collection, the University of Guelph or the Canadian National Collection. If there is ever any insecurity about the maintenance of the Pinery collection, specimens will be deposited in 1 of the other aforementioned collections.\*\*

#### Hesperiidae - Skippers

*Erynnis martialis* (Scudder) (Mottled Dusky Wing) - This Carolinian species is rare in Canada and is found only in a few sites in southern Ontario. Its foodplant is New Jersey Tea. Pinery collection data: 21.v.1985, Pinery staff house, B. Kulon and J. Clements.

*Erynnis horatius* - Also a Carolinian species, Horace's Dusky Wing is very rare in Ontario. It is recorded only from Pinery, St. Williams, Point Pelee and Northumberland County. Data for the specimens in the Pinery collection follows: 05.v.1985, Pinery staffhouse, B.Kulon; 01.vi.1986, Pinery, B. Kulon. Larvae feed on various species of oak.

*Atrytonopsis hianna* (Scudder) (Dusted Skipper) - In Ontario this

species only occurs in the Pinery and St. Williams areas. The species range extends from Manitoba south to Texas and east to Florida and Vermont but it is uncommon and highly localized throughout its range. It feeds on big and little bluestem. Specimens in the Pinery collection have the following data: 19.v.1985, Pinery office, B. Kulon; 30.v.1990, Burley Campground, wet meadow, J. Skevington; 27.vi.1994, Visitor Centre, J. Skevington. A voucher specimen is also in the University of Guelph collection (30.v.1990, Burley, J. Skevington).

#### Lycaenidae

*Incisalia irus* (Godart) (Frosted Elfin) - In Ontario, this species is only known from Pinery and St. Williams. It is thought to be extirpated in the province. Its food plants include lupine and possibly wild indigo. In the USA, the species occurs from Maine to southern Michigan, south along the Atlantic coast and Appalachians to northern Alabama and Georgia. According to Holmes *et al.* (1991), this species was recorded in Pinery but has not been seen here since the 1930's. Voucher specimens may be in the Royal Ontario Museum.

*Lycaeides melissa samuelis* Nabokov (Karner Blue) - In Ontario this species is known from Pinery area, St. Williams area and High Park in Toronto. It is now extirpated in the province with the last Pinery records occurring in 1988 and perhaps 1989. It feeds only on lupine. There are fewer than 12 remaining populations of this species, all in the northeastern USA. The Karner Blue is considered a subspecies of the Melissa Blue by many authors, but its different flight times and food plants suggest that this is unlikely. Voucher specimens in the Pinery collection bear the following data: 19.v.1985, Port Franks (Gratton Property, *ie.* Karner Blue Site - "the bowl"), B. Kulon (male); 25.v.1985, Gratton Property, B. Kulon (female).

#### Nymphalidae - Brush-footed Butterflies

*Asterocampa clyton* (Boisduval & LeConte) (Tawny Emperor) - The Tawny Emperor is rare and local in Ontario with the exception of Point Pelee where it is common and Pinery where it is fairly common. This species is found in the eastern USA south to northeast Mexico and feeds only on Hackberry and Dwarf Hackberry. Specimen data for specimens in the Pinery collection follows: 24.vi.1991, Main Gate, Pinery, J. Skevington (2 specimens); 07.vii.1991, Pinery, J. Skevington; 10.vii.1994, Lookout Trail parking lot, T. Groh; 16.vii.1990, Port Franks, Karner Blue Preserve, J. Skevington; 25.vii.1992, Pinery, T. Groh; 28.vii.1992, Pinery, B. Williams; 30.vii.1994, Park Store parking lot, J. Skevington.

Pyralidae - Snout Moths

*Scirpophaga perstrialis* (Hubner) - July 27, Aug. 18, 1993, Port Franks, K. Stead - 1 previous record for Canada (Chatham, Ontario) - specimen presently in personal collection of K. Stead - verified by J.D. Lafontaine

*Prionapteryx nebulifera* Stephens - July 17, 1993, Port Franks, K. Stead - only other Ontario record is for Grand Bend (likely Pinery), 1936 - verified by B. Landry

*Thaumatopsis solutella* (Zeller) - Oct. 6, 1993, Port Franks (Karner Blue Sanctuary), K. Stead - first Canadian record - verified by B. Landry and retained in Canadian National Collection

*Herculia infimbrialis* Dyar - Aug. 9, 1993, Pinery, K. Zufelt - Previously reported in Ontario only from Simcoe - specimen in Pinery collection

Thyatiridae

*Habrosyne gloriosa* (Guenee) (Glorious Habrosyne) - July 20, 1993, Port Franks, K. Stead - new to Lake Huron region of Ontario - this species is known from only a few specimens - specimen in collection of K. Stead, needs verification

Geometridae - Geometer/Inchworm Moths

*Semiothisa aequiferaria* (Walker) (Woody Angle) - July 17, 1993, Port Franks, K. Stead - new for Ontario and likely for Canada (southern species) - needs verification - in collection of K. Stead.

*Semiothisa continuata* (Walker) (Curve-lined Angle) - Aug. 1, 1993 (then nightly throughout period), Port Franks, K. Stead - new to Ontario and possibly Canada - specimen needs verification - in collection of K. Stead

*Semiothisa eremiata* (Walker) (Three-lined Angle) - Aug. 4, 1993, Port Franks, K. Stead - new for Ontario and Canada - needs verification - in collection of K. Stead (noted as "doubtful" in Ken Stead's report)

*Euchlaena pectinaria* (D.&S.) (Forked Euchlaena) - May 21, 1993, Port Franks, K. Stead - possibly new for Ontario and Canada - specimen in K. Stead collection - verification necessary

*Homochlodes discoverta* (Walker) (Dark Homochlodes) - July 2, 1993, Port Franks, K. Stead - verification needed - in collection of K. Stead - possibly new for Canada and Ontario

*Plagodis fervidaria* (Herrich-Schaffer) (Fervid Plagodis) - July 17, 1993, Port Franks, K. Stead - Rare - previously reported only from Peterborough and Toronto in Ontario - in K. Stead collection

*Idaea violaceraria* (Walker) - July 12, 1993, Port Franks, K. Stead - known in Canada only from here and from specimens collected in Pinery in 1984 by D. Schweitzer - verified by B. Landry - specimen in collection of K. Stead

*Xanthorhoe munitata* (Hubner) - July 12, 1993, Port Franks, K. Stead - not previously reported south of Thunder Bay - verified by K.B. Bolte - in collection of K. Stead

#### Epiplemidae

*Calledapteryx dryopterata* Grote (Brown Scoopwing) - July 17, 1993, Port Franks, K. Stead - Very rare - known only from Hamilton, Ottawa and Grand Bend in Ontario (Grand Bend record likely refers to Pinery) - in collection of K. Stead

#### Lasiocampidae

*Tolype notialis* Franclemont (Small Tolype) - Aug. 25, 1993, Port Franks, K. Stead - in Ontario, only known previously from Rondeau Provincial Park (2 specimens) - verification necessary - specimen in collection of K. Stead

#### Arctiidae - Tiger Moths

*Noctua peronuba* - Large Yellow Underwing - introduced into Halifax in 1977 - The Pinery record is a new westward range expansion - in Pinery collection

*Haploa clymene* (Brown) (Clymene Moth) - July 20, 1993, Port Franks, K. Stead - Rare - new to Lake Huron area - in K. Stead collection - verified J.D. Lafontaine

*Haploa reversa* (Stretch) (Reversed Haploa) - July 5, 1993, Port Franks, K. Stead; July 12, 1993, Pinery, K. Stead - Rare in Ontario - in K. Stead collection

*Haploa colona* (Hubner) (Colona Haploa) - July 26, 1993, Port Franks, K. Stead - rare, 1 other Ontario specimen - in K. Stead collection - confirmed by J.D. Lafontaine

*Grammia figurata* (Drury) (Figured Tiger Moth) - June 22, 1993, Pinery, G. Vogg - Very rare, new to Lambton and southern Ontario - in Pinery collection

*Grammia phyllira* (Drury) (Phyllira Tiger Moth) - July 27 - Aug. 26,

1993, Pinery and Port Franks - common here but rare in Ontario - in Pinery collection and K. Stead collection

Noctuidae - Owlet Moths

*Cissua spadix* (Cramer) (Black-dotted Brown) - May 7, 1993, Port Franks, K. Stead - Rare - new to Lambton - specimen in K. Stead collection - verified by J.D. Lafontaine

*Bomolocha bijugalis* (Walker) (Dimorphia Bomolocha) - July 3, Aug. 1993, Port Franks, K. Stead; also from Pinery in 1984 - previously only known from near Ottawa in Ontario

*Phytometra ernestinana* (Blanchard) (Ernestine's Moth) - July 10, 1993, Pinery, K. Zufelt - voucher in Canadian National Collection - very rare - rarely strays out of southern USA - new for Canada

*Catocala amica* (Hubner) (The Girlfriend) - Aug. 18-28, 1993, Port Franks and Pinery, K. Stead - specimens in the Pinery collection and K. Stead collection - Schweitzer collected it in 1984 and states that it is "rare elsewhere" but is common in Pinery

*Ctenoplusia oxygramma* (Geyer) (Sharp-stigma Looper Moth) - Sept. 17, 1993, Pinery, K. Stead - Rare southern straggler - in K. Stead collection

*Cobubatha dividua* (Grote) - July 24, 1993, Port Franks, K. Stead - confirmed by J.D. Lafontaine and retained in Canadian National Collection - found only in southern Texas in scrub oak areas; 1 specimen from Arkansas - new to Canada and northern USA - extremely significant record

*Acrionicta tristis* Smith - July 11, 1993, Port Franks, K. Stead - only known in Ontario from this area (old specimens in Canadian National Collection labeled Grand Bend are likely Pinery)

*Oligia bridghami* (Grote & Robinson) (Bridgham's Brocade) - Aug. 9, 1993, Pinery; Aug. 17 and 19, 1993, Port Franks, K. Stead - considered rare in Ohio and designated as a special interest species (habitat indicator)

*Oligia obtusa* (Smith) - July 24, Aug. 9, 1993, Pinery, K. Zufelt - in Pinery collection? - only previously reported in Ontario from Port Colborne

*Parastichtis suspecta* (Hubner) - August 19, 29, 1993, Port Franks, K. Stead - Rare, likely at southern edge of range - specimen in K. Stead collection

*Chortodes enervata* (Guenee) - Aug. 1, 1993, Pinery, K. Stead -

feeds on freshwater cordgrass, rare inland - new for Canada - verified by D.F. Schweitzer - in K. Stead collection?

*Papaipema leucostigma* (Harris) (Columbine Borer Moth) - Sept. 3, 1993, Pinery - Pinery collection - verified by J.D. Lafontaine - Rare - habitat indicator

*Papaipema pterisii* Bird (Bracken Borer Moth) - Aug. 27 - Sept. 25, 1993 - nightly - verified by J.D. Lafontaine - specimens in K. Stead collection? - our most common *Papaipema*, Ohio lists this species as rare with special concern, distributed in sandy oak openings

*Papaipema rigida* (Grote) (Rigid Sunflower Borer Moth) - Oct. 9, 1993, Port Franks, K. Stead - new to Ontario - in K. Stead collection

*Chytonix rupertii* Franclemont - verified by D. Schweitzer and J.D. Lafontaine - specimens reported as Grand Bend are likely from Pinery - the Nature Conservancy suggests that this area is a global stronghold for this species - found nowhere else in Canada

*Phosphila miselioides* (Guenee) (Spotted Phosphila) - Aug. 19, 1993, Port Franks, K. Stead - new to Lambton, northern edge of range - only 2 other Ontario records

*Caradrina (Platyperigea) meralis* Morrison - Aug. 18, 1993, Pinery, B. Curry - rare in Ontario, only known from 2 other locations - a western species - location of voucher specimen uncertain, validity of record therefore uncertain

*Lithomoia germana* (Morrison) - Sept. 17, 1993, Pinery - a central Ontario species never before reported in southern Ontario - feeds on blueberry and labrador tea - voucher in Pinery collection?

*Lithophane fagina* Morrison - Sept. 25, 1993, Port Franks, K. Stead - Rare - in K. Stead collection

*Epiglaea decliva* (Grote) (Slopping Sallow) - Sept. 17, 1993, Pinery; Oct. 7, 9, 1993, Port Franks, K. Stead - specimens in K. Stead and Pinery collections - rare, only 2 other locations in Ontario

*Chaetoglaea tremula* (Harvey) (Trembling Sallow) - Oct. 2, 7, 9, 18, 1993 - common throughout local area including on Ipperwash Army Base and in Karner Blue Sanctuary - Atlantic coastal plain species - in K. Stead collection

*Sutyna privata* (Walker) - Aug. 23, Pinery (in Pinery collection); Sept. 5 & 7, 1993, Pinery (in K. Stead collection) - "Rare - habitat indicator"

*Plusia balluca* - June 19, 1993, Port Franks, K. Stead - new for

Ontario and possibly Canada - needs verification - specimen in K. Stead collection

*Paectes oculatrix* (Eyed Paectes) - July 3, 1993, Port Franks, K. Stead - known in Ontario only from Welland and Brantford - no voucher saved, record cannot be verified

*Lithacodia synochitis* (Black-dotted Lithacodia) - June 26, 1993, Port Franks, K. Stead - new for Ontario and Canada (possible record reported for Brantford in 1993) - voucher may be lost, record cannot be verified unless found

*Oncocnemis riparia* Morrison - June 24-July 17, 1993, Port Franks, K. Stead - in Ontario, only recorded previously at Grand Bend and Port Colborne (Grand Bend likely refers to Pinery) - Rare - Specimen in K. Stead collection

*Psaphida resumens* (Walker) (Figure-eight Sallow) - May 29, 1993, Port Franks, K. Stead - new for Ontario and possibly Canada - specimen may be lost, record cannot be verified

*Polia ingravis* - June 16, 1993, Port Franks, K. Stead - new for Ontario and possibly Canada - specimen may be lost, record cannot be verified

*Polia leutra* - June 22, 1993, Port Franks, K. Zufelt - new for Ontario and possibly Canada - specimen may be lost, record cannot be verified

*Polia segregata* - April 30 & May 7, 1993, Port Franks, K. Stead - only previous eastern records for this western species is for Ottawa and adjacent areas of Quebec - verified by J.D. Lafontaine - specimen in K. Stead collection

*Lacinopolia vicina* (Grote) - July 24, 1993, Port Franks, K. Stead - in K. Stead collection - common from Manitoba west - only other eastern records are: 1 from Quebec, 1 from Ohio and 2 from Ontario

*Protorthodes incincta* - Aug. 18, 1993, Pinery, B. Curry - Second Ontario record for this western species (at extreme eastern edge of range) - no voucher specimen? - can not confirm record without voucher

*Orthodes obscura* (Smith) - May 17, 1993, Port Franks, K. Stead - identified by J.D. Lafontaine - specimen in K. Stead collection? - normal range in central Ontario - rare

*Agrostis mollis* Walker - July 24, 1993, Port Franks; Aug. 28, 1993, Karner Blue Sanctuary - in K. Stead collection - northern species

never before recorded in southern Ontario

*Eucoptocnemis fimbriaris* (Guenee) (Fringed Dart) - Sept. 9 & 17, 1993, Pinery, K. Zufelt - in Pinery collection? - New for Canada

*Xestia dilucida* (Morrison) - September 17, 1994, Pinery, K. Zufelt - First Canadian Record? - specimen in Pinery collection?

*Protolampra rufipectus* (Morrison) - Aug. 29 & 30, 1993, Port Franks, K. Stead - new to southern Ontario - specimen in K. Stead collection

*Rhynchagrotis cupida* (Grote) - Oct. 6 (Ipperwash Army Base); Oct. 10, Port Franks, K. Stead - rare in southern Ontario - verified by J.D. Lafontaine - in K. Stead collection

*Schinia nundina* (Drury) (Goldenrod Flower Moth) - July 27, 1993, Port Franks, K. Stead - Rare - only known previously in Ontario from Chatham - in K. Stead collection

*Schinia gloriosa* (Strecker) - Glorious Flower Moth - July 31, Aug. 2, Aug. 3, 1993, Port Franks, K. Stead - collected from Pinery as early as 1984 (D. Schweitzer) (photographed by A. Rider in 1982, no verification) - specimens in K. Stead collection and Pinery collection - Very rare in Ontario

*Grammia figurata* (Drury) (Figured Tiger Moth) - Very Rare - new to southern Ontario - June 22, 1993, Pinery, G. Vogg - specimen in Pinery collection

## **HYMENOPTERA**

### Eucharytidae

*Pseudomittagia barberi* - This species was described from a single female found at Pinery. No other specimens of this species have been discovered despite considerable effort. It may be rare or simply able to avoid normal collection methods. The species is described in the Proceedings of the Entomological Society of Ontario.

### Formicidae - Ants

#### Myrmicinae

*Myrmica pinetorum* - New for Ontario. First collected in 1994, G. Umphrey. In collection of G. Umphrey, vouchers will be deposited in Pinery collection.

*Formicoxenus hirticornis* - Only found at Pinery in Ontario. Occur in *Formica obscuripes* mounds. In collection of G. Umphrey,

vouchers will be deposited in Pinery collection.

*Formicoxenus provancheri* - Only found at Pinery in Ontario. One worker collected at Pinery in 1994. In collection of G. Umphrey, vouchers will be deposited in Pinery collection.

*Leptothorax texanus* - Has been recorded only at Thunder Bay and Pinery in Ontario. In collection of G. Umphrey, vouchers will be deposited in Pinery collection.

*Aphaenogaster treatae* - Common in Pinery but found nowhere else in Ontario. In collection of G. Umphrey, vouchers will be deposited in Pinery collection.

*Monomorium minimum* - Rare in Ontario. One worker collected in Pinery in 1994 by G. Umphrey. In collection of G. Umphrey, vouchers will be deposited in Pinery collection.

#### Dolichoderinae

*Conomyrma grandula* - Rare in Ontario, but common in Pinery in open grasslands.

#### Formicinae

*Formica obscuripes* - Rare in Ontario, but common in Pinery. Many large mounds present from this species. Associated with the Karner Blue. In collection of G. Umphrey, vouchers will be deposited in Pinery collection.

*Paratrechina parvula* - Rare in Ontario but fairly common in Pinery. In collection of G. Umphrey, vouchers will be deposited in Pinery collection.

#### Sphecidae - Solitary Wasps

*Sphecius speciosus* (Drury) (Cicada-killer) - Rare in Ontario, formerly common in Pinery. This species may be extirpated from the park due to an active attempt to eradicate colonies. It has not been seen since the last known colony was destroyed in 1992 although considerable effort was extended to find this species in 1993 and 1994.

\* this species was observed in both 1998 and 1999 by B. Steinberg.

\* other park staff have also reported seeing this species in various locations throughout the park. (Main gate, visitor center)

*Tachysphex pechumani* (Krombein) { data entered  
G.Vogg/96}

This rare sphecid wasp, known from pine barrens, was found in Pinery by Dr. Frank Kurczewski of New York along the hydroline behind the Pinery Meeting Centre on June 26, 1996. This wasp was also identified from the south end of the "L" Lake Conservation Area along Outer Drive adjacent the former Ipperwash Army Base (now Stoney Pt. First Nation Property) near Port Franks, Ont. The habitat here was an abandoned aggregate extraction site beside the bush access road.

### **ARACHNIDA**

*Latrodectus variolus* - (Northern Black Widow) - July 5, 1993 - Cedar Trail near river platform - D. Cochran - Notes: Other Ontario records are from London and the Bruce Peninsula (rare in Ontario). - determined by J. Redner (dissected) and deposited in the Canadian National Collection