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LIST OF HYMENOPTERA TAKEN AT SUDBURY, ONT.

BY JOHN D. EVANS, TRENTON, ONT.

In the following list 283 species are enumerated, 34 not determined specifically, and there are 8 species unknown, making a total of 325 species. I am much indebted to Mr. W. H. Harrington for his very great kindness and valued assistance in identifying these insects.

Collecting was also done in some of the other orders, viz.: Diptera, Orthoptera, and Neuroptera; more especially in the first mentioned, in which many fine specimens were taken, and await determination:—

Cimbex americana, <i>Leach.</i>	Strongylogaster longulus, <i>Nort.</i>
=var. 10-maculata, <i>Leach.</i>	" pinguis, <i>Nort.</i>
Trichiosoma triangulum, <i>Kirby.</i>	" soriculatus, <i>Prov.</i>
Hylotoma clavicornis, <i>Fab.</i>	" terminalis, <i>Say.</i>
" McLeayi, <i>Leach.</i>	Pecelostoma albosecta, <i>Prov.</i>
" scapularis, <i>Klug.</i>	Tenthredo mutans, <i>Nort.</i>
Priophorus æqualis, <i>Nort.</i>	" rufipes, <i>Say.</i>
Nematus aureopectus, <i>Nort.</i>	" semirubra, <i>Nort.</i>
" inquilinus, <i>Walsh.</i>	" signata, <i>Nort.</i>
" lateralis, <i>Nort.</i>	" verticalis, <i>Say.</i>
" luteotergum, <i>Nort.</i>	Tenthredopsis delta, <i>Prov.</i>
" malacus, <i>Nort.</i>	" Evansii, <i>Hargtn.</i>
" placentus, <i>Nort.</i>	Lophyrus abietis, <i>Harr.</i>
" rufocinctus, <i>Hargtn.</i>	" Lecontei, <i>Fitch.</i>
" ventricosus, <i>Klug.</i>	Lyda fascipennis, <i>Cress.</i>
" violaceipennis, <i>Nort.</i>	" pallimacula, <i>Nort.</i>
Harpiphorus maculatus, <i>Nort.</i>	Oryssus Sayi, var. affinis, <i>Harr.</i>
Dolerus aprilus, <i>Nort.</i>	Xiphydria Provencheri, <i>Cress.</i>
" arvensis, <i>Say.</i>	Urocerus albicornis, <i>Fab.</i>
" bicolor, <i>Beauv.</i>	" caudatus, <i>Cress.</i>
" sericeus, <i>Say.</i>	" cyaneus, <i>Fabr.</i>
Monophadnus rubi, <i>Harr.</i>	" flavicornis, <i>Fabr.</i>
Macrophya albomaculata, <i>Nort.</i>	" nigricornis, <i>Fabr.</i>
" epinota, <i>Say.</i>	Figites impatiens, <i>Say.</i>
" flavicoxæ, <i>Nort.</i>	Aulacus rufitarsis, <i>Cress.</i>
" trisyllaba, <i>Nort.</i>	Fœnus incertus, <i>Cress.</i>
Pachyprotasis omega, <i>Nort.</i>	" tarsatorius, <i>Say.</i>
Taxonus, <i>Sp.</i>	Ichneumon brevipennis, <i>Cress.</i>

Ichneumon canadensis, <i>Cress.</i>	Phygadeuon rotundiceps, <i>Prov.</i>
" cincticornis, <i>Cress.</i>	" rubrocinctus, <i>Prov.</i>
" cœruleus, <i>Cress.</i>	" sp.
" comes, <i>Cress.</i>	" sp.
" comptus, <i>Say.</i>	Cryptus extrematis, <i>Cress.</i>
" duplicatus, <i>Say.</i>	" robustus, <i>Cress.</i>
" grandis, <i>Brullé.</i>	" rufoannulatus, <i>Prov.</i>
" Grotei, <i>Cress.</i>	" n. sp.
" inconstans, <i>Cress.</i>	Linoceras Cloutieri, <i>Prov.</i>
" instabilis, <i>Cress.</i>	Hemiteles mandibularis, <i>Prov.</i>
" munificus, <i>Cress.</i>	Ophion bilineatum, <i>Say.</i>
" navus, <i>Say.</i>	" macrurum, <i>Linn.</i>
" nunciatus, <i>Cress.</i>	" purgatum, <i>Say.</i>
" parvus, <i>Cress.</i>	Exochilum nigrum, <i>Prov.</i>
" rubicundus, <i>Cress.</i>	" occidentale, <i>Cress.</i>
" rufiventris, <i>Brullé.</i>	Anomalon anale, <i>Say.</i>
" similaris, <i>Prov.</i>	" semirufum, <i>Nort.</i>
" subcyaneus, <i>Cress.</i>	Opheltes glaucopterus, <i>Linn.</i>
" trizonatus, <i>Prov.</i>	Paniscus albovariegatus, <i>Prov.</i>
" vecors, <i>Cress.</i>	" geminatus, <i>Say.</i>
" versabilis, <i>Cress.</i>	Campoplex diversus, <i>Nort.</i>
" sp.	" laticinctus, <i>Cress.</i>
" n. sp.	" vicinus, <i>Prov.</i>
Amblyteles expunctus, <i>Cress.</i>	" alius, <i>Nort.</i>
" nubivagus, <i>Cress.</i>	" sp.
" ormenus, <i>Cress.</i>	Limneria Guignardi, <i>Prov.</i>
" stadaconensis, <i>Prov.</i>	" parva, <i>Prov.</i>
" subrufus, <i>Cress.</i>	" rufipes, <i>Irov.</i>
" suturalis, <i>Say.</i>	" sp.
Phæogemes orbis, <i>Prov.</i>	" sp.
" tuberculifer, <i>Prov.</i>	" sp.
Ischnocerus? sp.	" n. sp.
Nematopodius, sp.	Pyracmon macrocephalum, <i>Prov.</i>
Phygadeuon acaudus, <i>Prov.</i>	Mesochorus, sp.
" indistinctus, <i>Prov.</i>	Exetastes rufofemoratus, <i>Prov.</i>
" fusiformis, <i>Prov.</i>	" sp.
" jocosus, <i>Prov.</i>	Banchus borealis, <i>Cress.</i>
" nitidulus, <i>Prov.</i>	" canadensis, <i>Cress.</i>

Banchus flavescens, <i>Cress.</i>	Lampronota americana, <i>Cress.</i>
" flavovariegatus, <i>Prov.</i>	" parva, <i>Cress.</i>
Mesoleptus canaliculatus, <i>Prov.</i>	" punctulata, <i>Cress.</i>
" sp.	" varia, <i>Cress.</i>
" sp.	" sp.
Megastylus, n. sp.	Meniscus scutellaris, <i>Cress.</i>
Mesoleius submarginatus, <i>Cress.</i>	Phytodietus vulgaris, <i>Cress.</i>
" sp.	Euxorides americanus, <i>Cress.</i>
Tryphon americanus, <i>Cress.</i>	Xylonomus stigmapterus, <i>Say.</i>
" pediculatus, <i>Prov.</i>	" canadensis, <i>Hargtn.</i>
" seminiger, <i>Cress.</i>	Odontomerus mellipes, <i>Say.</i>
Euceros Couperii, <i>Cr.</i>	" canadensis, <i>Prov.</i>
Polyblastus annulipes, <i>Cress.</i>	" n. sp.
Cteniscus clypeatus, <i>Cress.</i>	Echthrus abdominalis, <i>Cress.</i>
Exyston clavatus, <i>Cress.</i>	" niger, <i>Cress.</i>
Exochoides borealis, <i>Cress.</i>	" rufopedibus, <i>Hargtn.</i>
Exochus atrocoxalis, <i>Cress.</i>	Bracon dissitus, <i>Cress.</i>
" lævis, <i>Cress.</i>	" obliquus, <i>Prov.</i>
Bassus orbitalis, <i>Cress.</i>	" n. sp.
" pulchripes, <i>Prov.</i>	Rhogas abdominalis, <i>Cress.</i>
Coleocentrus Pettitii, <i>Cress.</i>	" terminalis, <i>Cress.</i>
Arotes formosus, <i>Cress.</i> var.	Apanteles cinctus, <i>Prov.</i>
Rhyssa persuasoria, <i>Linn.</i>	Agathis liberator, <i>Brullé.</i>
Thalessa atrata, <i>Fab.</i>	Microdus annulipes, <i>Cress.</i>
Ephialtes gigas, <i>Walsh.</i>	Meteorus vulgaris, <i>Cress.</i>
" pygmæus, <i>Walsh.</i>	Gymnoscelus pedalis, <i>Cress.</i>
" tuberculatus, <i>Four.</i>	Macrocentrus mellipes, <i>Prov.</i>
Pimpla conquisitor, <i>Say.</i>	Leucospis affinis, <i>Say.</i>
" 4-cingulata, <i>Prov.</i>	Eurytoma auriceps, <i>Walsh.</i>
" inquisitor, <i>Say.</i>	Isosoma, sp.
" novita, <i>Cress.</i>	Monodontomerus montivagus,
" Ontario, <i>Cress.</i>	<i>Ashm.</i>
" pedalis, <i>Cress.</i>	Perisemus prolongatus, <i>Prov.</i>
" tenuicornis, <i>Cress.</i>	Proctotrypes rufigaster, <i>Prov.</i>
" sp.	" longiceps, <i>Ashm.</i>
Polysphincta texana, <i>Cress.</i>	Pteromalina, sp.
" sp.	Platygaster aphidis, <i>Ashm.</i>
Cylloceria occidentalis, <i>Cress.</i>	Cleptes insperata, <i>Aaron.</i>

<i>Omalus læviventris</i> , <i>Cress.</i>	<i>Crabro interruptus</i> , <i>St. Farg.</i>
<i>Hedychrum violaceum</i> , <i>Brullé.</i>	" <i>maculipennis</i> , <i>Fabr.</i>
<i>Chrysis hilaris</i> , <i>Dahlb.</i>	" <i>oblongus</i> , <i>Pack</i>
<i>Camponotus herculeus</i> , <i>Linn.</i> ,	" <i>producticollis</i> , <i>Pack.</i>
<i>var. pictus</i> , <i>Foul.</i>	" <i>sex-maculatus</i> , <i>Say.</i>
<i>Camponotus marginatus</i> , <i>Latr.</i>	" <i>villosifrons</i> , <i>Pack.</i>
<i>Formica sanguinea</i> , <i>Latr.</i>	" <i>sp.</i>
<i>Myrmica</i> , <i>sp.</i>	<i>Thyreopus advenus</i> , <i>Smith.</i>
<i>Sapyga maculata</i> , <i>Prov.</i>	" <i>coloradensis</i> , <i>Pack.</i>
" <i>Martini</i> , <i>Smith.</i>	" <i>latipes</i> , <i>Smith.</i>
<i>Pompilus albosignatus</i> , <i>Prov.</i>	<i>Eumenes fraternus</i> , <i>Say.</i>
" <i>cylindricus</i> , <i>Cress.</i>	<i>Odynerus albomarginatus</i> , <i>Sauss.</i>
" <i>hyacinthinus</i> , <i>Cress.</i>	" <i>albophaleratus</i> , <i>Sauss.</i>
" <i>marginatus</i> , <i>Say.</i>	" <i>canadensis</i> , <i>Sauss.</i>
" <i>maurus</i> , <i>Cress.</i>	" <i>capra</i> , <i>Sauss.</i>
" <i>philadelphicus</i> , <i>Cress.</i>	" <i>catskillensis</i> , <i>Sauss.</i>
" <i>virginiensis</i> , <i>Cress.</i>	" <i>debilis</i> , <i>Sauss.</i>
" <i>sp.</i>	" <i>leucomelas</i> , <i>Sauss.</i>
<i>Agenia pulchripennis</i> , <i>Cress.</i>	" <i>philadelphiae</i> , <i>Sauss.</i>
<i>Priocnemis alienatus</i> , <i>Smith.</i>	<i>Polistes pallipes</i> , <i>Lepell.</i>
<i>Ceropales fraterna</i> , <i>Smith.</i>	<i>Vespa maculata</i> , <i>Fab.</i>
<i>Ammophila communis</i> , <i>Cress.</i>	" <i>scelesta</i> , <i>McFarland.</i>
" <i>luctuosa</i> , <i>Smith.</i>	" <i>vulgaris</i> , <i>Linn.</i>
" <i>vulgaris</i> , <i>Cress.</i>	" <i>sp.</i>
<i>Sphex apicalis</i> , <i>Harr.</i>	<i>Colletes americana</i> , <i>Cress.</i>
<i>Astata unicolor</i> , <i>Say.</i>	<i>Prosopis affinis</i> , <i>Smith.</i>
<i>Hoplilus atricornis</i> , <i>Pack.</i>	" <i>basalis</i> , <i>Smith.</i>
" <i>ephippiatus</i> , <i>Pack.</i>	<i>Sphecodes dichroa</i> , <i>Smith.</i>
" <i>phaleratus</i> , <i>Say.</i>	" <i>falcifer</i> , <i>Patton.</i>
<i>Cerceris nigrescens</i> , <i>Smith.</i>	<i>Halictus albitarsis</i> , <i>Cress.</i>
<i>Mimesa basirufa</i> , <i>Pack.</i>	" <i>constrictus</i> , <i>Prov.</i>
<i>Cemonus inornatus</i> , <i>Say.</i>	" <i>coriaceus</i> , <i>Smith.</i>
<i>Pemphredon concolor</i> , <i>Say.</i>	" <i>ligatus</i> , <i>Say.</i>
<i>Passalæcus mandibularis</i> , <i>Cress.</i>	" <i>pilosus</i> , <i>Smith.</i>
<i>Trypoxylon frigidum</i> , <i>Smith.</i>	" <i>scabrosus</i> , <i>Prov.</i>
<i>Crabro ater</i> , <i>Cress.</i>	" <i>sp.</i>
" <i>chrysarginus</i> , <i>St. Farg.</i>	" <i>sp.</i>
" <i>cubiceps</i> , <i>Pack.</i>	" <i>sp.</i>

<i>Augochlora purus</i> , <i>Say.</i>	<i>Megachile consimilis</i> , <i>Cress. ?</i>
<i>Andrena frigida</i> , <i>Smith.</i>	" <i>grandis</i> , <i>Cress.</i>
" <i>hirticeps</i> , <i>Smith.</i>	" <i>melanophæa</i> , <i>Smith.</i>
" <i>nivalis</i> , <i>Smith.</i>	" <i>optiva</i> , <i>Cress.</i>
" <i>vicina</i> , <i>Smith.</i>	" <i>pugnata</i> , <i>Say.</i>
" <i>sp.</i>	" <i>simplex</i> , <i>Prov.</i>
<i>Calliopsis æstivalis</i> , <i>Prov.</i>	<i>Melissodes rustica</i> , <i>Say.</i>
<i>Nomada americana</i> , <i>Kirby.</i>	<i>Anthophora bomboidea</i> , <i>Kirby.</i>
<i>Epeolus mercatus</i> , <i>Fab.</i>	<i>Clisodon terminalis</i> , <i>Cress.</i>
<i>Cœlioxys alternata</i> , <i>Say. ?</i>	<i>Apathus Ashtoni</i> , <i>Cress.</i>
" <i>tristis</i> , <i>Cress. ?</i>	<i>Bombus borealis</i> , <i>Kirby.</i>
<i>Osmia buconis</i> , <i>Say.</i>	" <i>consimilis</i> , <i>Cress.</i>
" <i>bucephala</i> , <i>Cress.</i>	" <i>fervidus</i> , <i>Fab.</i>
" <i>frigida</i> , <i>Smith.</i>	" <i>lacustris</i> , <i>Cress. ?</i>
" <i>lignaria</i> , <i>Say.</i>	" <i>ternarius</i> , <i>Say.</i>
" <i>simillima</i> , <i>Smith.</i>	" <i>terricola</i> , <i>Kirby.</i>
<i>Monumetha borealis</i> , <i>Cress.</i>	" <i>virginicus</i> , <i>Linn.</i>
<i>Anthidium simile</i> , <i>Cress.</i>	

THE MEDITERRANEAN FLOUR MOTH, EPHESTIA
KUEHNIELLA, ZELLER, STILL IN CANADA.

The determined and energetic fight carried on by the miller, the entomologist, and the Local Government in 1889, to stamp out this destructive mill pest in Ontario, is too fresh in the memory of those who witnessed that outbreak to warrant a repetition of the particulars. Suffice it to say that the flour moth is still very abundant in certain Canadian mills. I have received it recently in flour sent me direct from a milling firm in Valleyfield, Quebec, with an urgent appeal for help. The mill has been obliged to shut down several times during the present year to clean out the enormous accumulations of matted flour and webs in the spouts and elevator legs. The mill is a new one and has been running a very short time. It is said the pest came from a neighboring firm. My experience with this moth in California and other places convinces me that it is the worst pest millers have to combat, and this note should be a signal warning to all those interested in the milling business. I have also recently discovered the same pest in Southwestern New York State, where it has done considerable mischief this year, and is still spreading. It has occasioned much loss on the Pacific Coast also the present season. If something is not done to arrest and destroy this advancing enemy in the United States and Canada, I predict very serious results to the milling industries of both countries.

W. G. JOHNSON.

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