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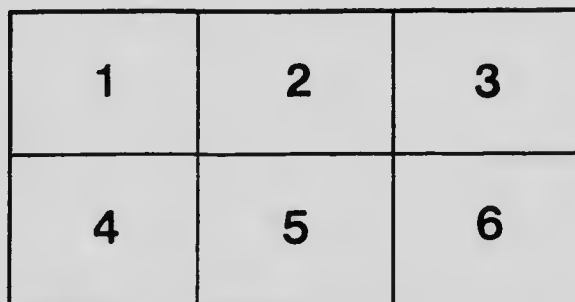
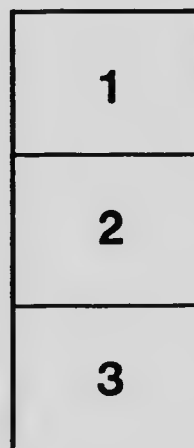
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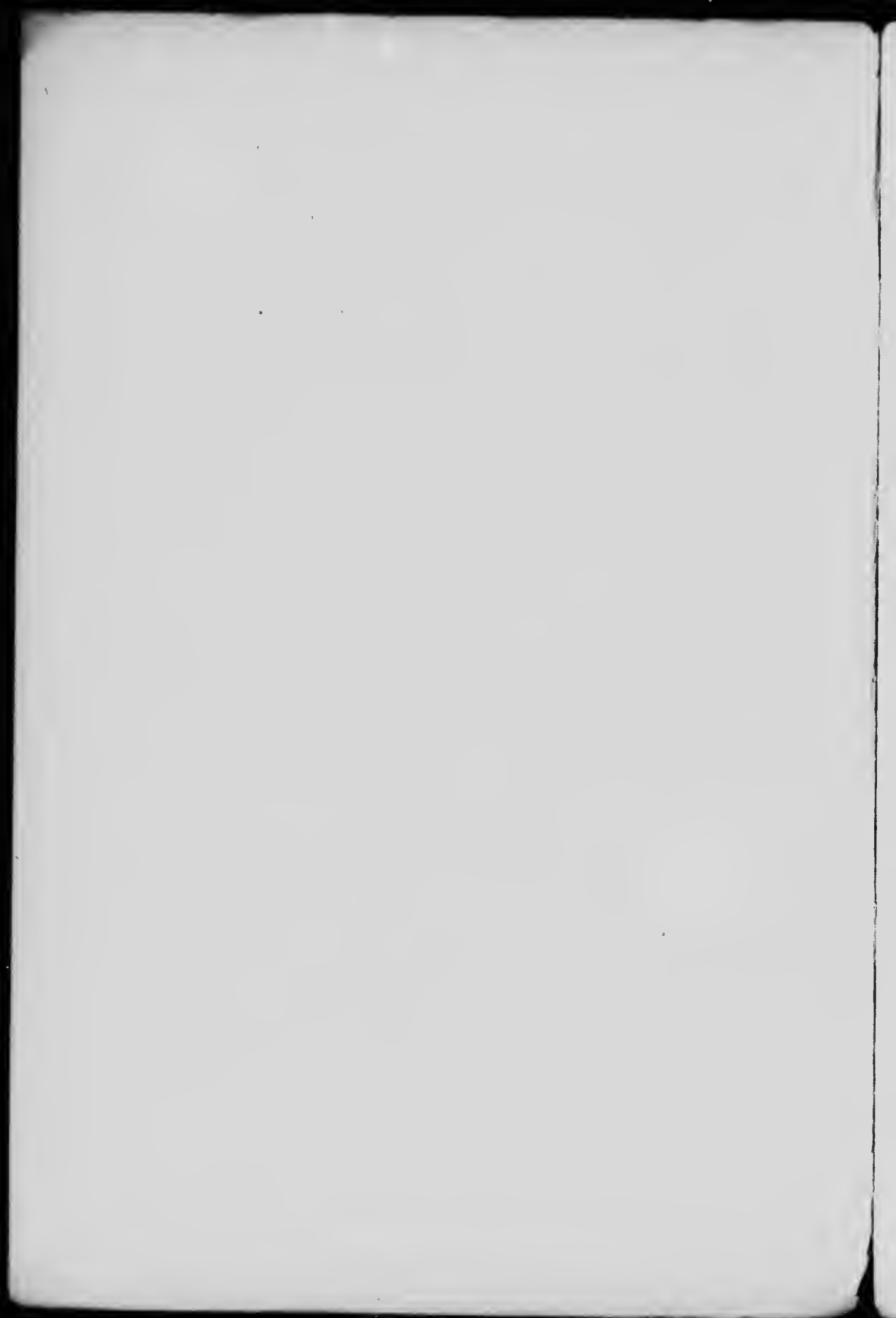
The  
Entomological Record  
for 1911.

BY  
ARTHUR GIBSON,  
*Chief Assistant Entomologist.*

*Reprinted from "The Forty-Second Annual Report of the Entomological Society  
of Ontario, 1911."*

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## THE ENTOMOLOGICAL RECORD, 1911.

ARTHUR GIBSON, CHIEF ASSISTANT ENTOMOLOGIST, C. E. F., OTTAWA.

In *The Entomological Record*, which has been published every year since 1901, students of the several orders of insects have, in a readily accessible form, considerable information on the distribution, etc., of many species occurring in Canada. This information will be of special value now in view of the List of the Insects of Canada and Newfoundland which is being prepared by members of our Society. In the *Record* for this year I have endeavoured to include all references to new species described from Canada in 1911, in the literature to which I have had access.

The season of 1911 in Canada was a favourable one for the collection of insects. Although some collectors have reported the season to have been a poor one in their particular districts, on the whole, I judge that in most localities much material was present, and large collections were made by some students. During the night of June 28th, 470 moths were caught in a lantern trap at Trenton, Ont. This number represented many different species, and Mr. J. D. Evans informed me that he never had such success before. Large catches were made on many other nights.

We have again to gratefully acknowledge the invaluable help received from recognized authorities in the United States and elsewhere. Particular acknowledgment is due to Dr. L. O. Howard and his expert associates, Dr. Dyar, Dr. Banks, Messrs. Busck, Viereck, Rohwer, and Crawford; Dr. J. B. Smith, of New Brunswick, N. J.; Sir George Hampson, of the British Museum; Mr. W. D. Kearfott, of Montclair, N. J.; Prof. H. F. Wickham, of Iowa City, Iowa; Mr. E. P. Van Duzee, of Buffalo, N.Y.; Mr. W. Beutenmuller and Mr. J. A. Grossbeck, of New York, N.Y.; Dr. Henry Skinner, of Philadelphia, Pa.; Dr. E. M. Walker, of Toronto, Ont.; Col. Thos. L. Casey, of Washington, D.C.; Mr. Chas. Liebeck, of Philadelphia, Pa.; Mr. J. D. Evans, of Trenton, Ont.; Mr. F. H. Wolley-Dod, of Millarville, Alta., and Prof. Cockerell, of Boulder, Col.

### LITERATURE

Among the many valuable publications which have been received during the past year, and which are of interest to Canadian students, mention may be made of the following:—

BEUTENMULLER, WM. The North American species of *Dryophanta* and their Galls: American Museum of Natural History, New York, separates issued December 30, 1911. This paper is the tenth instalment of a series of articles on North American Cynipidæ and their galls. Six beautiful plates accompany the article, five of which are from the drawings of Mrs. Beutenmuller.

CASEY, THOS. L. *Memoirs on the Coleoptera*, II; New Era Printing Co., Lancaster, Pa.; issued Aug. 15, 1911. In 1910, we were glad to receive Memoir No. 1, and now Memoir No. 2 has recently appeared. This latter is a larger contribution than Memoir 1, being of 259 pages. It also is divided into 2 parts, viz.—I. New American Species of Aleocharinæ and Myllaeninae; II. Notes on the Coccinellidæ with some General Remarks and Synonymy. Of the 397 species described as new, in part I. 50 are from Canada; 36 of these are from British Columbia, (mostly collected by Rev. J. H. Keen); 10 from Manitoba, (N. Criddle), and 4 from Ontario, 3 of which were collected at Ottawa, (W. H. Harrington).

GAHAN, A. B. Aphidiinae of North America: Bulletin No. 152, Maryland Agricultural Experiment Station, College Park, Md., March 11, 1911, pp. 147-200. The study of parasitic insects is every year becoming more important and such results as are published in the above Bulletin are extremely useful. The author treats of 48 species of this subfamily of the Braconidae. Five new species are described and in order to point out characters, correct errors in former descriptions, obviate the confusion in certain cases resulting from the numerous descriptions of the same species under different names, as well as to bring the descriptions all together in a convenient form for reference, a redescription is included of all the established species of which authentic specimens could be obtained. Eight species are stated to occur in Canada.

HAMPSON, SIR GEORGE F. (Bart.). Catalogue of the Lepidoptera Phalaenae in the British Museum, Vol. X, Noctuidae. 1910, 829 pp., plates CXLVIII—CLXXIII; volume received 27th January, 1911, plates received 7th June, 1911. In this large volume 1,222 species belonging to 136 genera of the subfamily Erastrianae, are classified. "The subfamily is homogeneous in appearance but is not very well defined structurally, being intermediate in characters between the Trifid and Quadrifid sections of the Noctuidae, and having very close affinities on the one hand with the Aeronectinae, and on the other hand with the Acontianae, Noctuinae, and Hypeninae." The moths of the subfamily Erastrianae are confined, to a large extent, to the tropical and warmer temperate regions. Records of only sixteen species which occur in Canada are given, but in the volume are several other species which are to be found within the Dominion. The beautiful plates which accompany this volume are of the usual high character.

HOPKINS, A. D. Contributions Toward a Monograph of the Bark-weevils of the genus *Pissodes*; U. S. Dept. Agric., Bureau of Entomology, Technical Series, No. 20, Part I; issued January 7, 1911. This further contribution to our knowledge of forest insects is very welcome. These bark-weevils are important enemies of pine, spruce, and fir trees, and such information as is given in this part is of much economic value. The results of the anatomical studies, as given in detail, are of much interest. Thirty species are recognized from North America: twenty-three of these are described as new, six of which are from Canada.

MOULTON, DUDLEY. Synopsis, Catalogue and Bibliography of North American Thysanoptera, with descriptions of new species; Technical Series No. 21, U. S. Dept. of Agriculture, Bureau of Entomology, pp. 56; issued June 13, 1911. His synopsis and catalogue of the Thysanoptera will be found of much value to students of these insects; 118 species are listed, 10 of which are described as new. Six full page plates appear in the Bulletin.

SKINNER, HENRY. The Larger Boreal American Hesperidae, including *Eudamus*, *Erycides*, *Pyrrhopyge*, and *Megathymus*. Reprint from Transactions of the American Entomological Society; Vol. XXXVII, No. 3, issued August 18, 1911; pp. 169-209, with one colour plate. This most useful paper will be much consulted by students of diurnal lepidoptera. The original description of each species is given, together with notes on distribution, etc., and where known, the food plants of the larvæ, descriptions of caterpillar and chrysalis, together with critical notes which will help the student to determine the species. Canadian records are included of three of the species. An interesting note at the end of the paper is that referring to *Eudamus electra* Lint., which was described from a specimen collected at Hamilton, Ont. It now seems as if this specimen of *electra* is the male of



*Ephyriades zephodes*, which has also been placed in the genus *Nisoniades*. The plate in colours accompanying the paper is an exceptionally good one. We hope to see many more such contributions from this well-known authority.

THEOBALD, F. V. A Monograph of the Culicidæ, or Mosquitoes, Vol. V; British Museum, 1910; received Feb. 24, 1911; pp. 646; plates I to VI. Since the previous volume was published, 392 species have been described, or old descriptions found. Of these the author is responsible for 106, 80 of which are described in this volume. Synoptic tables of the genera and the species in each genus in the Anophelinæ, Megarhininæ, Culicinæ, Heptaplebomyinæ and Uranotaeninae have been worked out. Numerous text figures occur throughout the volume.

WHEELER, W. M. A List of the Type Species of the Genera and Subgenera of Formicidæ: *Annals of the New York Academy of Sciences*, Vol. xxi, pp. 157-175; separates dated 17th October, 1911. This contribution from such a high authority will be most welcome to students of the Formicidæ. The list includes the genera and the subgenera, both living and fossil, up till June, 1911.

The following is a list of the names and addresses of collectors heard from during 1911:—

- Anderson, E. M., Provincial Museum, Victoria, B.C.  
 Baird, Thomas, High River, Alta.  
 Baldwin, J. W., 74 Besserer Street, Ottawa.  
 Beaulieu, G., Experimental Farm, Ottawa.  
 Beaulne, J. I., Experimental Farm, Ottawa.  
 Bethune, Rev. Prof., O. A. C., Guelph.  
 Bolton, A. R. M., Quebec, Que.  
 Brittain, W., Seed Branch, Dept. of Agr., Ottawa.  
 Bush, A. H., 1105 Ninth Ave., Vancouver, B.C.  
 Carr, F. S., Edmonton, Alta.  
 Chagnon, Gus., Box 521, Montreal.  
 Chagnon, W., St. John's, Que.  
 Coekle, J. W., Kaslo, B.C.  
 Crew, R. J., 561 Carlaw Ave., Toronto.  
 Criddle, Norman, Treesbank, Man.  
 Dawson, Horace, Hymers, Ont.  
 Day, G. O., Duncans, B.C.  
 Dod, F. H., Wolley, Millarville, Alta.  
 Evans, J. D., Trenton, Ont.  
 Fyles, Rev. T. W., Hull, Que.  
 Gibson, Arthur, Experimental Farm, Ottawa.  
 Hahn, Paul, 433 Indian Road, Toronto.  
 Haight, D. H., Sudbury, Ont.  
 Hanham, A. W., Duncans, B.C.  
 Harris, J. F., Treesbank, Man.  
 Harrington, W. H., P.O. Department, Ottawa.  
 Heath, E. F., Cartwright, Man.  
 Hewitt, Dr. C. Gordon, Experimental Farm, Ottawa.  
 Hudson, A. F., Millarville, Alta.  
 Keen, Rev. J. H., Metlakatla, B.C.  
 Leavitt, A. G., St. John, N.B.

- Lyman, H. H., 74 McTavish Street, Montreal.  
 McIntosh, W., St. John, N.B.  
 Metcalfe, W., 20 Lisgar St., Ottawa.  
 Moore, G. A., 250 St. Hubert St., Montreal.  
 Moore, W. H., Scotch Lake, N.B.  
 Metcalfe, W., 284 Lisgar St., Ottawa.  
 Nelles, Douglas H., Dept. Interior, Ottawa.  
 Nicholls, Arch., Sault Ste. Marie, Ont.  
 Perrin, Jos., McNab's Island, Halifax, N.S.  
 Rowland, Alton, Windsor Mills, Que.  
 Sanders, G. E., Experimental Farm, Ottawa  
 Sanson, N. B., Banff, Alta.  
 Simpson, W., Dominion Observatory, Ottawa.  
 Southee, G. R., Sherbrooke, Que.  
 Swaine, J. M., Experimental Farm, Ottawa.  
 Taylor, Rev. G. W., Departure Bay, B.C.  
 Tothill, J. D., Experimental Farm, Ottawa.  
 Treherne, R. C., Vancouver, B.C.  
 Walker, Dr. E. M., Biological Department, University of Toronto.  
 Wallis, J. B., Machray St., Winnipeg, Man.  
 Willing, Prof. T. N., Saskatoon, Sask.  
 Winn, A. F., 32 Springfield Ave., Westmount, Que.  
 Young, C. H., Geological Survey, Ottawa.

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#### NOTES OF CAPTURES.

(Species described during 1911 are preceded by an asterisk.)

#### LEPIDOPTERA.

(Arranged according to Dyar's List of North American Lepidoptera, U.S. N.M. Bull. No. 52).

(Dyar's number).

65. *Eurymus eurytheme* Bdv. Mayo, Que., Aug. 26, (A. E. Richard).  
 92. *Euptoieta claudia* Cram. Toronto, Sept. 10, 1910, (P. Hahn). The third specimen taken at Toronto.  
 112. *Argynnis behrensii* Edw. Victoria, B.C., (Taylor).  
 113. *Argynnis halcyone* Edw. Peachland, B.C., July 18, 1907, (Wallis).  
 \* *Argynnis sakuntala* Skinner. Ainsworth, B.C., Aug. 13, 1903, (Rev. G. H. Findlay); Kaslo, B.C., July 7, 1890, (Cockle); Laggan, Alta., (T. E. Bean); Entomological News, March, 1911, p. 108.  
 198. *Brenthis freija* Thunb. Mer Bleue near Ottawa, June 6, (Young). The first record for the Ottawa district.  
 207. *Polygonia satyrus* Edw. Hymers, Ont., May 9, (Dawson).  
 216. *Eugonia californica* Bdv. Saskatoon, Sask., Oct. 7. Only record I know of for the Province (Willing).  
 223. *Junonia coenia* Hbn. London, Ont., Sept. 21. (Morden); Sudbury, Ont., (Haight).

268. *Erebia discoidalis* Kirby. Roland, Man., June, 1909, (Reared and sent by Mr. Wallis).
270. *Erebia disa* Thunb. s. *a. mancinus* D. & H., Hymers, Ont., (Dawson).
345. *Thecla edwardsii* Saund. Treesbank, Man., July 18, 1910, (Wallis).
378. *Incisalia nippon* Hbn. Hymers, Ont., May 6, (Dawson).
419. *Nemiades couperii* Grt. Hymers, Ont., May 9, (Dawson).
463. *Amblyscirtes samoset* Scudd. Stony Mountain, Man., June 11, 1910, (Wallis).
- 529a. *Euphyes vestris* Bdv., s. *metacomet* Harr. Husavick, Man., July 3, 1910, (Wallis).
602. *Thorybes electra* Lint. In a letter dated July 27, 1911, Dr. Henry Skinner says: "I have discovered that *Eudamus electra* Lint., described many years ago, and taken at Hamilton, Ont., is an exotic species. It probably came to Canada as larva or pupa on fruit. See also Trans. Amer. Ent. Soc. Vol xxxvii., p. 208."
657. *Lepisesia avofasciata* Walk. Meach Lake, Que., May 27, flying in bright sunshine, (Young).
678. *Pholus pandorus* Hbn. Toronto, (Cape Island Breakwater), July 30, (P. Hahn).
699. *Phlegethontius convolvuli* L. s. *cingulata* Fab. Hull, Que., fresh specimen, Sept. 1, (Fyles).
708. *Sphinx pinastri* L. A specimen taken at Waghorn, Alta., is in the collection of Dr. William Barnes. (Psyché xvii., 197, 1910).
817. *Clemensia albata* Pack. East Bolton, Que., on tree trunks in maple grove, July, (Winn).
943. *Androloma mac-cullochii* Kirby. St. Johns, Que., June 21, on lilae bloom, (W. Chagnon).
- \* *Demas electa* Sm. Winnipeg, Man., May 31, 1909, (Wallis); Jour. N.Y. Ent. Soc., Sept., 1911, p. 134.
981. *Apatele cretata* Sm. Winnipeg, Man., June 14, (Wallis).
- \* *Acronycta tristis* Sm. "Canada, viii., 5"; Ent. News, July, 1911, p. 316.
1047. *Aphareta pyralis* Sm. Banff, Alta., July 14, Aug. 28, 29, (Sansou); Cranbrook, B.C. Oct., 10, 1903, (C. G. Garrett). The latter is a new record for British Columbia. The date seems very late, if correct, (Dod).
1050. *Merolonche lupin* Grt. Banff, Alta., June 12, 1910, (Sansou). New to Alberta. (Dod).
- Bryophila avirida* Sm. Humbolt, Sask., June 13, 1910, (E. Androchovitz).
- Moma pumicata* Sm. Winnipeg, Man., June 10, 1910, (Wallis).
- Hadenetia subjuncta* Sm. Saskatoon, Sask., July 13, (Willing).
- Hadena commoda* Walk. (Hampson, vii., p. 199). Hymers, Ont., June 21-28, 1910 and 1911, (Dawson). The name should be used as prior to *alberta* Sm. *Satina* Streck. is probably the same species. I have three from Hymers, all of which are like specimens from Calgary; also one from Sudbury, Ont., (Dod).
- Hadena bonilla* Barnes. This was recorded last year from Met'akatla, B.C. The name is merely a manuscript one, chosen years ago but never published. I believe it to be the same as *multicolor* Dyar, described from Victoria, B.C., though specimens stand under both names in the Washington Museum. It is an ally of *vultuosa*, (Dod).
1151. *Hadena violacea* Grt. Banff, Alta. Sept. 20, 1909, (Sansou); new to Alberta (Dod).

1223. *Hadena morna* Streck. The record of this species from Duncans, B. C., is probably an error due to a misunderstanding of a note given by me. I have never seen genuine *morna* from anywhere but Colorado, and very few from there, (Dod).
- Hadena albiserrata* Sm. Duncans, B.C., Sept. and part of October, abundant; usually a rare species, (Hanham).
- \* *Polia hanhami* Barnes and McDunnough. Duncans, B.C., (Hanham). Jour. N.Y. Ent. Soc., Sept., 1911, p. 155.
1281. *Hyppa brunneicrista* Sm. Banff, Alta., June 5-9, (Sanson).  
*Feralia columbiana* Sm. Winnipeg, Man., May 28, 1909, (Wallis).  
*Setagrotis dolens* Sm. Banff, Alta., July 25, (Sanson); rather more reddish than any hitherto seen. *Euroa quinta* Smith appears to me to be the same species, (Dod).  
*Setagrotis filiis* Sm. Banff, Alta., Aug. 14, Sept. 11, about a dozen specimens, (Sanson). Apparently not the same as *infirmatis* Grt., as I suggested in last year's Record, though I rather expect to find another prior name for it, (Dod).
1455. *Agrotis geniculata* G. & R. Aweme, Man., (Criddle); Trenton, Ont., Aug. 22, (Evans).
1464. *Peridroma astricta* Morr. Stony Mountain, Man., July, 1910, (Wallis).
1506. *Noctua substrigata* Sm. Cartwright, Man., July 18, (Heath).
1541. *Feltia pectinicornis* Sm. Trenton, Ont., Aug. 3, 22, (Evans).  
*Porosagrotis delorata* Sm. High River, Alta., Sept. 1, (Baird). The type was from Mr. Baird. I received it seven years ago from Regina, Sask. It is very likely a dark form of *orthogonia*, which is not uncommon in Colorado and Utah, (Dod). The larvae of this moth were abundant at Lethbridge, Monareh, and other places in Southern Alberta during the past season, causing serious damage to fodder plants, etc. Moths emerged at Ottawa on Aug 14 and 20, (A.G.).
1693. *Paragrotis mollis* Walk. Banff, Alta., July 8, (Sanson).  
*Euroa cocklei* Sm. Dawson, Y.T., 1909, (Day).  
 \* *Euroa rubiata* Sm. Calgary, Aug. 29, (Dod); Trans. Amer. Ent. Soc. xxxvi., 255.  
 \* *Euroa cervinea* Sm. Vancouver, B.C., July 16; Banff, Alta., Aug. 10; Calgary, Alta., Aug. 30. Trans. Amer. Ent. Soc., xxxvi., 262.  
 \* *Euroa indensa* Sm. Cartwright, Man., Aug. 19, (Heath); Brandon, Man., July 14, (Hanham); Trans. Amer. Ent. Soc., xxxvi., 263.  
*Mamestra carbonifera* Hamp. Banff, Alta., July 25, 2 males, (Sanson). Described from 2 females taken in the Alberta Rockies, by Mrs. Niehoff. I have a female taken here (Pine Creek) on July 4, 1904. It is a broad-winged species nearest *imbriifera*, of which I, at first, thought it might be a melanic form. Sir George Hampson described it as *Miselia carbonifera*, though the genus is not in his catalogue, (Dod).
1795. *Mamestra nevadae* Grt. Saskatoon, Sask., June 21, (Willing).  
*Mamestra morana* Sm. Banff, Aug. 18, one male, (Sanson). This is "*trifolii* var. *oregonica*" of both Alberta and Kootenai lists and its description as new appears to have been quite justified. It also occurs in Colorado, Wyoming and Washington, (Dod).  
 \* *Mamestra chunka* Sm. Aweme, Man., May 13, 20, 22, (Criddle); Trans. Amer. Ent. Soc. xxxvi., p. 265. High River, Alta., May 4, 1910, (Baird). This is a close ally of *crotchii* Grt., and bears some resemblance to *obesula* and *farnhami*, (Dod).

1920. *Ulolonche orbiculata* Sm. Aweme, Man., May 3, 1910. one female, (Criddle). I believe this to be a small obscure form of this species, which seems rather common in Colorado and Utah, though it may prove distinct. I know of no previous record for Canada, (Dod).
2024. *Graphiphora furfurata* Grt. Trenton, Ont., July 6, (Evans).  
 \* *Stretchia algula* Sm. "Arrow Lake, Brit. Col." Jour. N.Y. Ent. Soc., Sept., 1911, p. 148.  
 \* *Fishia instruta* Sm. De Clair, Man., Sept. 3-15, Trans. Amer. Ent. Soc., xxxvi., 264. Regarding this species Mr. Dod writes: "I have not identified it with certainty, but it appears to be very like the species wrongly listed as *yosemitæ* in the Alberta list."
2083. *Xylinia longior* Sm. Cartwright, Man., Oct. 12. one specimen, first taken here, (Heath).
2123. *Cucullia montana* Grt. Aweme, Man., July 20. (Criddle): Regina, Sask., July 3, 1910, (Willing).
- \* *Papaipema moeseri* Bird. Montreal, Quc., Can. Ent., Feb'y, 1911, p. 42.
2200. *Xanthia pulchella* Sm. Duncans, B.C., not uncommon in Sept. and Oct., (Hanham).
2205. *Conservula anodonta* Gn. Trenton, Ont., July 12, not taken here previously, (Evans).
2231. *Orthosia lutosa* Andrews. Aweme, Man., June 24, (Criddle).  
*Agroperina lineosa* Sm. Described from thirty specimens from Calgary, Alta., and several localities in Manitoba. It is the "*Orthosia conradi*" of my Alberta list, and may really be a race of that species. It has often been, quite erroneously, confused with *Hadena morna* Strk., (Dod).  
*Agroperina pendina* Smith. Has the same range as *lineosa* and has already been looked upon by me as a red variety of it, to which opinion I shall adhere, though slight genitalia differences are claimed, (Dod).
2280. *Pippona bimatrix* Harvey. Aweme, Man., July 20, 1910, (Criddle). Previously taken by the late Dr. Fletcher at Aweme.
2289. *Copablepharon grandis* Streck. Aweme, Man., July 4-14. (Criddle). Previously recorded as *absidum*. This latter has not been taken here, according to Dod.
2290. *Copablepharon longipenne* Grt. Aweme, Man., Aug. 19. 1910, one female, (Criddle). This specimen now in my collection agrees with Hampson's figure and my notes on the type. New record for Canada, (Dod).
2492. *Autographa californica* Speyer. Cartwright, Man., May 23, for the first time, at currant bloom; was previously recorded from Winnipeg by Hanham, (Heath).
2493. *Autographa ou* Gn. Aweme, Man., Sept. 27, 1909, one female, (Criddle). I believe this to be the first record for Canada. The species closely resembles *californica* but is darker and less brightly marked. There are slight, though constant, differences in markings. Structurally *ou* has hind tibiae strongly spined, whilst *californica* has not, (Dod).
2494. *Autographa rubidus* Ottol. Aweme, Man., June 15, 1910. (Criddle).
2555. *Alabama argillacea* Hbn. Conspicuous flights of this southern Cotton Moth occurred in Western Ontario in Sept., 1911. At Sarnia and St. Thomas they were extremely abundant. (See Ottawa Naturalist xxv., Dec., 1911, p. 129). Mr. Winn has also reported that the moths were abundant "at light" in Montreal, in the middle of September, (A. G.).
2730. *Melanomma auricinctaria* Grt. Montreal, June, (Chagnon).

2799. *Syneda hudsonica* G & R. Aweme, Man., July 4, 1907, (Criddle).
2847. *Catorola semirelictica* Grt. Hymers, Ont., (Dawson). This specimen was compared with type in British Museum by Sir George Hampson and Mr. H. H. Lyman.
2948. *Anticarsia gemmatilis* Hbn. Winnipeg, Man., Oct. 5, 1909, (Wallis).
3010. *Epizeuxis nigellus* Streck. St. Johns, Que., July, (Chagnon).
3064. *Bomolocha manalis* Walk. Trenton, Ont., 2 sp., July 20, 29; new record for district, (Evans).
3151. *Schizura unicornis* S. & A. High River, Alta., July 29, (Baird).
3181. *Euthyatira semicircularis* Grt. Duncans, B.C., (Hanham).  
*Bombycia fasciata* Barnes & McDonnough. Described in 1910 from Duncans, V.I., (Hanham). It is the species figured by Holland on Plate XL., fig. 27, as *tearlui* Hy. Edw.; *provisu* Hy. Edw. is a third species. (Dod).
- \* *Olene styx* Barnes and McDunnough. Duncans, B.C., (Hanham); Psyche, Oct., 1911, p. 159.
3272. *Eupithecia palpata* Pack. Hudson, Que., June 11, (Chagnon). A rare species and wrongly placed as a synonym of *luteata* Pack. (L. W. Swett).
3276. *Eupithecia ornata* Hulst. "Ottawa, April 24, May 4, 1906, (Young)". *Ottawa Naturalist*, xxv., p. 106. Regarding this record, Mr. Grossbeck says: "I doubt the occurrence of this species in Eastern Canada; more likely the specimens are worn examples of *E. palpata* Pack." These specimens of Mr. Young's were named *ornata* by the Rev. G. W. Taylor, and as far as I can remember were fresh and therefore in good condition, (A.G.).
3281. *Euchoeca inornata* Hulst. Sherbrooke, Que., July 1, 1910, (Chagnon).
- \* *Eupithecia chagnoni* Swett. Montreal, Que., June 22, 1907. *Can. Ent.*, July, 1911, p. 255.
3288. *Eupithecia plumbaria* Hulst. "Ottawa, May 24, 1906, (Taylor)," *Ottawa Naturalist* xxv., p. 106. Pearsall makes this a synonym of *E. miserulata* Grt., (J. A. G.).
3295. *Eupithecia fumosa* Hulst. Described from Brockport, N.Y., and S. Abington, Mass. Pearsall says the latter is *coagulata* Gn. "and so the name must be dropped from our lists." The Brockport type still remains to be discovered, however, and until this is examined the name must remain in our catalogue. (J. A. G.). A specimen taken at Ottawa, June 3, 1904, was named *fumosa?* by Rev. G. W. Taylor, (A. G.).
3319. *Eupithecia ravenestaliata* Pack. Trenton, Ont., May 8, (Evans).  
*Eupithecia merula* Pears. Trenton, Ont., Aug. 1-23, (Evans).  
*Eupithecia youngata* Tayl. Bancroft, Ont., June 11, 1906, (Evans).
3353. *Eustroma nubilata* Pack. St. Johns, Que., July 15, (Chagnon).
3494. *Xystrota hepaticaria* Gn. Trenton, Ont., 2 sp., Aug. 1, 3, (Evans).
3657. *Sciagraphia neptaria* Gn. Saskatoon, Sask., July 3, (Willing).
3662. *Sciagraphia continuata* Walk. Mt. St. Hilaire, Que., May 29, 1910, (Chagnon).
3671. *Macaria labradoriata* Moesch. Ottawa, Aug. 12, 1904, (Fletcher). See *Ottawa Naturalist*, Oct.-Nov., 1911.
3689. *Cymatophora virginalis* Hulst. Trenton, Ont., July 21, (Evans).  
*Caripeta crinosa* Swett. Hymers, Ont., July 2, (Dawson).
3782. *Nepytia phantasmaria* Streck. Duncans, B.C., Oct. 9, only specimen taken, (Hanham).

3793. *Alcis guttata* Hulst. Ottawa, June 20, 1894, (Fletcher). See *Ottawa Naturist*, Oct.-Nov., 1911, p. 110.
3804. *Spodolepis substriataria* Hulst. Hymers, Ont., April 28, July 9, (Dawson).  
\* *Selidosema manitoba* Grossbeck. Winnipeg, Man., May 25 to June 2, 1909, (Wallis). *Can. Ent.*, July, 1911, p. 225.
3855. *Cleora larvaria* Gn. Windsor Mills, Que., June 10, (Rowland); Saskatoon, Sask., June 23, (Willing).
3942. *Gonodontis warneri* Harv. Humbolt, Sask., (E. Androchovitz).
4043. *Callizzia amorata* Pack. East Bolton, Que., July 20, (Winn).
4175. *Memythrus tricinctus* Harr. Ottawa, larvæ found in willow, April 23, 2 moths emerged, June 2, 8, (Beaulne).
4556. *Raphiptera argillaceella* Pack. Trenton, Ont., July 11, 12, (Evans).
4583. *Crambus myellus* Hbn. Peachland, B.C., Aug. 21, (Wallis).
4599. *Crambus oregonicus* Grt. Peachland, B.C., Aug. 19, (Wallis).  
*Crambus dorsipunctellus* Kearf. Penticton, B.C., Aug. 11, (Wallis).
- \* *Dioryctria xanthanobares* Dyar. Kaslo, B.C., Aug. 20, 1905, (Cockle); *Proc. Wash. Ent. Soc.*, xiii., 81.
4723. *Glyptocera consobrinella* Zell. Mt. St. Hilaire, Que., June, (Chagnon).
4767. *Salebria basilaris* Zell. St. Johns, Que., July, (Chagnon).
4835. *Euzophera ochrifrontella* Zell. Mt. St. Hilaire, Que., July, (Chagnon).
4838. *Vitula edmandsii* Pack. Mt. St. Hilaire, Que., July, (Chagnon).
4843. *Canarsia ulmiarrosorella* Clem. Mt. St. Hilaire, Que., July, (Chagnon); Montreal, July, (Winn).
4849. *Hulstea undulatella* Clem. Montreal, July, (Winn).
4940. *Platyptilia edwardsii* Fish. Mt. St. Hilaire, Que., May, (Winn).
4964. *Pterophorus elliottii* Fern. Montreal, July, (Winn).
4983. *Pterophorus eupatorii* Fern. Montreal, July, (Winn).
5023. *Exartema exoletum* Zell. Montreal, June 30, 1909, (Winn).
5073. *Olethreutes impudens* Wlsm. Montreal, July 1, 1909, (Winn).  
*Eucosma confuana* Kearf. Montreal, July 4, 1908, (Winn).  
*Eucosma bilinearia* Kearf. Cartwright, Man., June 25, (Heath).  
*Eucosma pergandeanana* Fern. Trenton, Ont., June 3, 12, (Evans).
5222. *Epinotia lagopana* Wlsm. Mt. St. Hilaire, Que., May 20, 1910, (Winn).  
*Peronea manitobara* Kearf. Winnipeg, Man., Oct. 5, (Wallis).  
*Peronea chalybeana* Fern. Winnipeg, Man., Oct. 1, (Wallis).  
*Peronea heindelana* Fern. Montreal, June, (Chagnon).  
*Sparganothis vocaridorsana* Fearf. Lethbridge, Alta., July 3, (Wallis).  
*Pandemis canadana* Kearf. Cartwright, Man., June 23, (Heath).
- \* *Gnorimoschema septentrionella* Fyles. North Wakefield, Que., (Miss Fyles); *Can. Ent.*, Dec. 1911, p. 422.
5671. *Trichotaphe fernaldella* Busck. Peachland, B.C., Aug. 17, (Wallis).  
*Gelechia alternatella* Kearf. Peachland, B.C., Aug. 17, (Wallis).
5894. *Semioscopsis allenella* Wlsm. Montreal, June, (Chagnon); McNab's Island, Halifax, N.S., July 19, (Perrin).  
*Holococera nigristriata* Wlsm. Penticton, B.C., Aug. 18, (Wallis)
6166. *Mompha subiridescens* Wlsm. Montreal, June 30, 1909, (Winn).
6372. *Gracilaria alchimiella* Scop. Montreal, July 10, 1909, (Winn).

## COLEOPTERA.

(Arranged according to Henshaw's List of the Coleoptera of America, North of Mexico).

- 25b. *Cicindela graminea* Schaupp. Calgary, Alta., April 16, (Criddle).  
 25e. *Cicindela limbata* Lec. Calgary, Alta., April 16, (Criddle).  
 106. *Cychrus tuberculatus* Harr. Duncans, B.C., rare, (Hanham).  
 109. *Cychrus angulatus* Harr. Duncans, B.C., rare, (Hanham).  
 122. *Carabus limbatus* Say. Edmonton, Alta., June 30, 1910, (Carr).  
 123. *Carabus vinctus* Web. Edmonton, Alta., (Carr).  
 224. *Dyschirius integer* Lec. Toronto, 1 specimen, Oct. 1, 1908; somewhat smaller but otherwise identical with specimens which I have from Texas, (Crew).  
 232. *Dyschirius globulosus* Say. Bannockburn, Ont., June 20, (Evans).  
 271. *Clivina cordata* Putz. Trenton, Ont., July 10; not taken heretofore, (Evans).  
 320. *Bembidium chalconeum* Dej. Treesbank, Man., July 29, 1910, (Wallis).  
 330. *Bembidium complanatum* Mann. Peachland, B.C., July 27, 1909, (Wallis).  
 364. *Bembidium dyschirinum* Lec. Winnipeg, Man., April 9, 1909, (Wallis).  
 366. *Bembidium cordatum* Lec. Toronto, Nov. 9, 1908, (Crew).  
 413. *Bembidium cautum* Lec. Trenton, Ont., 2 specimens, May 21, 23; not taken here previously, (Evans).  
 483. *Trechus chalybeus* Mann. Toronto, April 3, 1908, (Crew).  
 545. *Pterostichus coracinus* Newm. Treesbank, Man., July 26, 1910, (Wallis).  
 674. *Amara obesa* Say. Treesbank, Man., July 28, 1910, (Wallis).  
 784. *Platynus pusillus* Lec. Winnipeg, Man., May 5, 1910, (Wallis).  
 822. *Platynus quadripunctatus* De G. Winnipeg, Man., April 7, 1910, (Wallis).  
 836. *Platynus nigriceps* Lec. Aweme, Man., June 9, 1910, (Criddle).  
 889. *Lebia ornata* Say. Winnipeg, Man., June 17, 1910, (Wallis).  
 941. *Cymindis planipennis* Lec. Treesbank, Man., Aug. 3, 1910, (Wallis).  
 1061. *Agonoderus pallipes* Fab., var. Winnipeg, Man., April 13, 1909, (Wallis).  
 1104. *Harpalus rufimanus* Lec. Winnipeg, Man., May 18, 1909, (Wallis).  
 1110. *Harpalus funestus* Lec. Winnipeg, Man., May 20, 1909, (Wallis).  
 1145. *Stenolophus cchropezus* Say. Winnipeg, Man., May 8, 1909, (Wallis).  
 1150. *Acupalpus carus* Lec. Winnipeg, Man., April 15, 1909, (Wallis).  
 1181. *Anisodactylus carbonarius* Say. Trenton, Ont., May 29, (Evans).  
 1198. *Anisodactylus verticalis* Lec. Winnipeg, Man., May 7, 1910, (Wallis).  
 1222. *Halipus borealis* Lec. Selkirk, Man., May 5; Winnipeg, Man., Oct. 14, (Wallis).  
 1447. *Agabus gagates* Aubc. Edmonton, Alta., May 24, (Carr).  
 1490. *Dytiscus dauricus* Gobl. Alaska; found at the crossing of the Old Crow River by the 141st meridian, July 20, (F. Lambert).  
 1675. *Cercyon pratextatum* Say. Winnipeg, Man., April 13, 1909, (Wallis).  
 1699. *Necrophorus obscurus* Kirby. Edmonton, Alta., April 15, 1910, (Carr).  
 1786. *Liodes obsoleta* Horn. Toronto, Oct. 9, 1908, (Crew).  
*Scydmanus clavipes* Say. Toronto, March and April, (Crew).  
 1820. *Scydmanus perforatus* Schaum. Toronto, 2 specimens found under stones, March and April, (Crew).  
*Pilopius saginatus* Casey. Port Credit, Ont., Nov. 5, 1908, (Crew).  
 1889. *Decarthron longulum* Brend. Toronto, April 23, 1907, (Crew).  
 2304. *Stenus colon* Say. Toronto, on wet sand along bank of stream, June 6, 1908, (Crew).  
 \* *Baryodma rubricalis* Csy. Metlakatla, B.C., (Keen).  
 \* *Baryodma concurrens* Csy. Metlakatla, B.C., (Keen).



- \* *Emplenota longiceps* Csy. Metlakatla, B.C., (Keen).
- \* *Oxygoda demissa* Csy. "Canada, (probably southern Ontario)."
- \* *Oxygoda manitobæ* Csy. Aweme, Man., (Criddle).
- \* *Oxygoda hiemalis* Csy. Ottawa, Ont., (Harrington).
- \* *Oxygoda activa* Csy. Victoria, B.C.
- \* *Oxygoda lassula* Csy. Stikine River, B.C., (Wiekham).
- \* *Oxygoda egestosa* Csy. Victoria, B.C., (Wiekham).
- \* *Oxygoda famula* Csy. Massett, Q. C. I., (Keen).
- \* *Oxygoda regressa* Csy. Victoria, B.C., (Wiekham).
- \* *Myrmedonia criddlei* Csy. Aweme, Man., (Criddle).
- \* *Trichiusa columbica* Csy. Metlakatla, B.C., (Keen).
- \* *Atheta manitoba* Csy. Aweme, Man., (Criddle).
- \* *Atheta achromata* Csy. Metlakatla, B.C., (Keen).
- \* *Atheta profecta* Csy. Metlakatla, B.C., (Keen).
- \* *Atheta concessa* Csy. Metlakatla, B.C., (Keen).
- \* *Atheta postulans* Csy. Metlakatla, B.C., (Keen).
- \* *Atheta appositæ* Csy. Metlakatla, B.C., (Keen).
- \* *Atheta sumpta* Csy. Metlakatla, B.C., (Keen).
- \* *Atheta relicta* Csy. Metlakatla, B.C., (Keen).
- \* *Atheta districta* Csy. Metlakatla, B.C., (Keen).
- \* *Atheta rurigena* Csy. Yale, B.C., (Wiekham).
- \* *Atheta mordax* Csy. Stikine River, B.C., (Wiekham).
- \* *Atheta tenuicula* Csy. Aweme, Man., (Criddle).
- \* *Metaryia awemeana* Csy. Aweme, Man., (Criddle).
- \* *Metaryia prognata* Csy. Metlakatla, B.C., (Keen).
- \* *Metaryia erudita* Csy. Aweme, Man., (Criddle).
- \* *Metaryia sarrufa* Csy. Aweme, Man., (Criddle).
- \* *Metaryia varula* Csy. Aweme, Man., (Criddle).
- \* *Metaryia criddlei* Csy. Aweme, Man., (Criddle).
- \* *Pseudota vana* Csy. Massett, Q. C. I., (Keen).
- \* *Pseudota cornicula* Csy. Metlakatla, B.C., (Keen).
- \* *Pseudota nanulina* Csy. Metlakatla, B.C., (Keen).
- \* *Pseudota formalis* Csy. Metlakatla, B.C., (Keen).
- \* *Moluciba grandipennis* Csy. Metlakatla, B.C., (Keen).
- \* *Pontomalota luctuosa* Csy. Massett, Q. C. I., (Keen).
- \* *Autolia truncatula* Csy. Massett, Q. C. I., (Keen).
- \* *Autolia brevicornis* Csy. Metlakatla, B.C., (Keen).
- \* *Stirtalia carlottæ* Csy. Massett, Q. C. I., (Keen).
- \* *Gyrophana criddlei* Csy. Aweme, Man., (Criddle).
- \* *Gyrophana keeni* Csy. Metlakatla, B.C., (Keen).
- \* *Placusa turbata* Csy. Metlakatla, B.C., (Keen).
- \* *Amblopusa pallida* Csy. Victoria, B.C., (Wiekham).
- \* *Thinusa divergens* Csy. Metlakatla, B.C., (Keen).
- \* *Thinusa nigra* Csy. Metlakatla, B.C., (Keen).
- \* *Thinusa robustula* Csy. Metlakatla, B.C., (Keen).
- \* *Deinopsis harringtoni* Csy. Ottawa, Ont., (Harrington).
- \* *Myllæna immunda* Csy. Ottawa, Ont., (Harrington).
- \* *Myllæna scobinella* Csy. Metlakatla, B.C., (Keen).

The above new species of Meocharinæ and Myllæninae were described in Memoirs on the Coleoptera, II., by Thos. L. Casey, issued Aug. 15, 1911.

- 2559 *Lithocharis corticina* Grav. Trenton, Ont., May 23, (Evans).  
 2719. *Bledius fumatus* Lec. Trenton, Ont., June 20, (Evans).  
 2736. *Bledius tau* Lec. Trenton, Ont., May 23; not taken heretofore, (Evans).  
 3069. *Harmonia picta* Rand. Aweme, Man., June 10, 1909, (Criddle).  
*Hyperaspis binotata* Say. Aweme, Man., July, 6., 1905, (Criddle).  
 3156. *Scymnus tenebrosus* Muls. Toronto, under mullein leaves, March and April, (Crew).  
 3198. *Endomychus biguttatus* Say. Westbourne, Man., Aug. 27, 1908, (Wallis).  
 3353. *Telephorus velox* Hald. Port Credit, Ont., Nov. 9. 1908, (Crew).  
*Cryptophagus laticlavus* Casey. Trenton. Ont., Sept. 1; not taken heretofore, (Evans).  
 3381. *Atomaria distincta* Casey. Winnipeg, Man., May 15, 1909, (Wallis).  
 Described from District of Columbia.  
 3477. *Hister harrisii* Kirby. Edmonton, Alta, (Carr).  
 3520. *Hister lecontei* Mars. Aweme, Man., June 20, (Criddle).  
 3678. *Carpophilus niger* Say. Aweme, Man., June 9, 1910 (Criddle).  
 3689b. *Colastus limbatus* Lec. Aweme, Man., June, 9, 1910, (Criddle).  
 3728. *Omositâ discoidea* Fab. Winnipeg, Man., May 18, 1910, (Wallis).  
 3746. *Cyllodes biplagiatus* Lec. Aweme, Man., July 4, 1910, (Criddle).  
 3772. *Rhizophagus remotus* Lec. Aweme, Man., June 9, 1910, (Criddle).  
 4234. *Elater luctuosus* Lec. Near Shelburne, N.S., July 12, (Gibson).  
 4384. *Athous brightwelli* Kirby. Near Shelburne, N.S., July 12, (Gibson).  
 4385. *Athous acanthus* Say. Trenton, Ont., 2 specimens, June 27, July 30, (Evans).  
 4486. *Corymbites aripennis* Kirby. Near Shelburne, N.S., July 12, (Gibson).  
 4494. *Corymbites arditus* Lec. Near Shelburne, N.S., July 12, (Gibson).  
 4583. *Dicerca tenebrosa* Kirby. Aweme, Man., Aug. 11, 1903, (Criddle).  
 4620. *Melanophila atropurpurea* Say. Winnipeg, Man., June 20, 1909, (Wallis).  
 4630. *Anthaxia viridifrons* Lap. Aweme, Man., June 21, 1909, (Criddle).  
*Chrysobothris mali* Horn. Aweme, Man., June 22, 1910, (Criddle).  
 4639b. *Chrysobothris 4-impressa* Lap. & Gory. Aweme, Man., July 2, 28, 1910. (Criddle).  
 4699. *Acmaeodera pulchella* Hbst. Aweme, Man., July 10, 1910, (Criddle).  
 4755. *Taphrocerus gracilis* Say. Aweme, Man., July 22, 1910, (Criddle).  
 4762. *Brachys aruginosa* Gory. Aweme, Man., Aug. 10, 1908, (Criddle).  
 4780. *Caenia dimidiata* Fab. Winnipeg Beach, Man. July 11, 1910, (Wallis).  
 4810. *Lucidota atra* Fab. Aweme, Man., June 19, 1905, (Criddle).  
 4815. *Ellychina corrusca* L., var. *lacustris* Lec. Winnipeg, Man., May 21, 1909, (Wallis).  
 4829. *Photinus ardens* Lec. Winnipeg Beach, Man., July 2, 1910, (Wallis).  
*Telephorus impressus* Lec. Trenton, Ont., June 4, not taken heretofore, (Evans).  
 4947. *Telephorus rotundicollis* Say. Near Shelburne, N.S., July 12, (Gibson).  
 4966. *Polemium laticornis* Say. Trenton, Ont., May 29, (Evans).  
 5022. *Malachius aeneus* L. Trenton, Ont., June 9, not taken heretofore, (Evans).  
 5185. *Thanasimus undulatus* Say. Winnipeg, Man., June 10, 1909, (Wallis).  
 5206. *Hydnocera longicollis* Ziegl. Aweme, Man., Aug. 3, 1903, (Criddle).  
 5493. *Atenius stercorator* Fab. Trenton, Ont., 3 specimens, May 21-23, (Evans).  
 5600. *Geotrupes egeriei* Germ. Ste Therese, Que., (Mignault).  
 5627. *Trox aequalis* Say. Aweme, Man., April 25, 1910, (Criddle).  
 5630. *Trox atrox* Lec. Aweme, Man., May 8, 1908, (Criddle).

5699. *Diplotaxis sordida* Say. Trenton, Ont., May 27, (Evans).  
 5767. *Lachnosterna fraterna* Harr. Trenton, Ont., May 6, June 5; not taken heretofore, (Evans).  
 5774. *Lachnosterna rugosa* Melsh. Trenton, Ont., May 2-June 9, not taken heretofore, (Evans).  
 5982. *Tetropium cinnamopterum* Kirby. Winnipeg, Man., June 5, 1909, (Wallis).  
 5992. *Hylotropes ligneus* Fab. Winnipeg, Man., May 4, 1910, (Wallis).  
 6279. *Bellamira scalaris* Say. Winnipeg Beach, Man., July 6, 1910, (Wallis).  
 6354. *Leptura pubera* Say. Winnipeg, June 25, 1910, (Wallis).  
 6389. *Monohammus marmorator* Kirby. Ste Therese, Que., (Mignault); Ste. Anne de Bellevue, Que., (Chagnon and Swaine).  
 6418. *Leptostr'us biustus* Lec. Trenton, Ont., July 9, (Evans).  
 6424. *Liopus variegatus* Hald. Trenton, Ont., July 4, (Evans).  
 6480. *Saperda candida* Fab. Edmonton, Alta., June 17, (Carr).  
 6485. *Saperda tridentata* Oliv. Edmonton, Alta., June, 1910, (Carr).  
 6532. *Donacia hirticollis* Kirby. Winnipeg Beach, Man., Aug. 13, 1910, (Wallis).  
 6534. *Donacia proxima* Kirby. Aweme, Man., July 27, 1910, (Criddle).  
 6549. *Hononia nigricornis* Kirby. Selkirk, Man., May 24, (Wallis).  
 6697. *Pachybrachys hepaticus* Melsh. Aweme, Man., Aug. 2, 1909, (Criddle).  
 6720. *Xanthonia 10-notata* Say. Aweme, Man., May 26; Aug. 31, 1910, (Criddle).  
 6747b. *Paria 4-notata* Say. Aweme, Man., June 10, 1909, (Criddle).  
 6786. *Prasocuris vittata* Oliv. Winnipeg, Man., May 15, 1909, (Wallis).  
*Chrysomela staphylea* Linné. McNab's Island, Halifax, N.S., (Perrin). See Entomological News, July, 1911, p. 306.  
 6832. *Gastroidea cyanea* Melsh. Edmonton, Alta., May 12, July 1, 1910, (Carr).  
 6848. *Phyllobrotica discoidea* Fab., rare form, Trenton, Ont., June 25, (Evans).  
 6895. *Trirhabda convergens* Lec. Aweme, Man., June 25; Aug. 2, 1909, (Criddle).  
 6932a. *Oedionychis scripticollis* Say. Edmonton, Alta., May 29, 1910, (Carr).  
 6933. *Oedionychis lugens* Lec. Aweme, Man., May 14; Oct. 6, 1904, (Criddle).  
 6948. *Disonycha alternata* Ill. Edmonton, Alta., Aug. 23, 1909, (Carr).  
 7042. *Chaetocnema protensa* Lec. Aweme, Man., April 20, 1905, (Criddle).  
 7102. *Coptocyclus aurichalcea* Fab. Winnipeg, Man., Sept. 4, 1909, (Wallis).  
*Coptocyclus bicolor* Fab. Edmonton, Alta., May 29, (Carr).  
 7401. *Upis ceramoides* Linn. Rampart House, at the crossing of the Porcupine River by the 141st Meridian; elevation 1400 ft., July 20, (Nelles). A very northern record.  
 7528. *Scaphidema aneolum* Lec. Aweme, Man., June 7, 1909, (Criddle).  
 7651. *Synchroa punctata* Newm. Near Shelburne, N. S., July 12, (Gibson).  
*Eustrophus repandus* Horn. Aweme, Man., June 20, 1910, (Criddle).  
 7710. *Pytho americanus* Kirby. Winnipeg, Man., June 9, 1910, (Wallis).  
 7757. *Cephaloon lepturides* Newm. Near Shelburne, N.S., July 12, (Gibson).  
 7886. *Corphyra elegans* Hentz. Winnipeg, Man., June 17, 1910, (Wallis).  
 7970. *Anthicus pubescens* Lec. Trenton, Ont., May 1. Not taken here previously, (Evans).  
 7997. *Dendroides ephemeroides* Mann. Winnipeg Beach, July 6, 1910, (Wallis).  
 8079. *Epicauta trichus* Pall. Aweme, Man., June 19, 21, 1910, (Criddle).  
 8236. *Barynotus schænherri* Zett. Near Shelburne, N.S., July 12, (Gibson). Only Canadian record that I know of.

8487. *Lexius rubellus* Rand. Bannockburn, Ont., June 20; never took it before, (Evans).
8563. *Phyllostox nubifer* Lec. Aweme, Man., June 2, 1908. (Criddle).  
*Cryptorhynchus lapathi* L. Trenton, Ont., Aug. 27; never taken here previously, (Evans). Mr. John Dearness, of London, Ont., reported that he had received a specimen from New Brunswick.
- \* *Pissodes utahensis* Hopk. British Columbia, Bear Lake. (London Hill Mine); Tech. Series, 20, part 1, p. 45, U. S. Bureau of Entomology.
  - \* *Pissodes approximatus* Hopk. Guelph, Ont.; Tech. Series 20, part 1, p. 49, U. S. Bureau of Entomology.
  - \* *Pissodes schwarzi* Hopk. Banff, Alta.; Tech. series 20, part 1, p. 50, U. S. Bureau of Entomology.
  - \* *Pissodes canadensis* Hopk. Winnipeg, Man., (Hanham); Tech. series 20, part 1, p. 51, U. S. Bureau of Entomology.
  - \* *Pissodes piperi* Hopk. Glacier, B.C., Tech. series 20, part 1, p. 62, U. S. Bureau of Entomology.
  - \* *Pissodes curriei* Hopk. Kaslo, B.C., (R. P. Currie); Tech. series 20, part 1, p. 65, U. S. Bureau of Entomology.
9071. *Pityophthorus cariniceps* Lec. Ste. Anne de Bellevue, Que.; Ste. Hilaire, Que.; Howiek, Que., (Swaine).
9087. *Pityophthorus opaculus* Lec. Hudson, Que., Ste. Anne de Bellevue, Que., Lake Durnford, Que., in *Pinus, Picea* and *Larix*, (Swaine).  
 \* *Trypodendron betulae* Swaine. Ste. Anne de Bellevue, Que.; Can. Ent., July, 1911, p. 216.
9092. *Trypodendron retusum* Lec. Isle Perrot, Que., (Swaine); Aweme, Man., (Criddle).
9099. *Cryphalus striatulus* Mann. Ste. Anne de Bellevue, Que.; Hudson, Que., Memphramagog, Que., (Swaine); Montebello, Que., (Brittain). In *Abies*, (J. M. S.).  
*Dryocates eichhoffi* Hopk. St. Anne de Bellevue, Que., in *Betula lutea*, (Swaine); St. Anthony, Newfoundland, (C. M. Spenceer).  
*Eccoptogaster piceae* Swaine. Ste. Anne de Bellevue, Que.; in *Abies balsamea*, (Swaine).
- \* *Phlaeotribus piceae* Swaine. Ste. Anne de Bellevue, Que.; Can. Ent. July, 1911, p. 220.
9159. *Phlaeotribus liminaris* Harr. Isle Perrot, Que.; found only in wild cherry, (Swaine).  
 \* *Ips borealis* Swaine. St. Anthony, Nfd., (C. M. Spenceer); Can. Ent., July, 1911, p. 213.  
*Crypturgus pusillus* Gyll. Hudson, Que. (Swaine); Weymouth, N.S. (Treherne and Sanders); in *Pinus, Picea, Abies* (J. M. S.).  
*Dendroctonus englemanni* Hopk. Edmonton, Alta., (Carr).
9204. *Eurymycter fasciatus* Oliv. Stony Mountain, Man., June 11, 1910, (Wallis).

## DIPTERA.

(Arranged according to a Catalogue of North American Diptera, by J. M. A. Irish, Smithsonian Misc. Coll. XLVI, No. 1, 144. The numbers refer to the pages in the catalogue.)

Recently I have had an opportunity of examining a portion of the collection of diptera made at Montreal by Mr. G. Beaulieu, and as there are a number of the

species which have not as yet been recorded from Quebec province, I am including here those of which I have notes. Some of these are well known species, but it is thought well to include them, as they are new additions to the Quebec list. During the past year, as far as I know, no extensive collections of diptera were made in any part of Canada, but a number of specimens collected in previous years have been studied in 1911, and records of some of these are also given.

112. *Chironomus dorsalis* Meign. Rigaud, Que., June 25, 1906, (Beaulieu).  
New to Quebec province list.
127. *Culex canadensis* Theob. East Bolton, Que., July 22, (Winn). The only  
Canadian record given by Aldrich is "Lake Simcoe, Ont."  
\* *Dasyneura gibsoni* Felt. Ottawa, reared from flower heads of Canada thistle,  
(Gibson); Jour. Econ. Ent., Oct. 1911, p. 479.
164. *Plecia heteroptera* Say. Regina, Sask., Sept. 3-10, 1905, (Willing).
190. *Nemotelus unicolor* Loew. Montreal, June 3, 1906, (Beaulieu). New to  
Quebec province list.
196. *Chrysops cuclux* Whitney. Rigaud, Que., June 26, 1906, (Beaulieu). Not  
previously recorded from Quebec province.
198. *Chrysops sackeni* Hine. Montreal, June 24, 1905, (Beaulieu). New to  
Quebec province list.
217. *Symphoromyia pachyceras* Will. Lake House, Alta., July 15, (Record re-  
ceived from Mr. C. W. Johnson).
247. *Psilocephala melanoprocta* Loew. Aweme, Man., June 1, (Criddle).
247. *Psilocephala platancala* Loew. Aweme, Man., June 24, (Criddle). The  
only locality record given in Aldrich's catalogue is Texas.
254. *Leptogaster favillaceus* Loew. Rigaud, Que., June, 1906, (Beaulieu). New  
to Quebec province list.
259. *Cyrtopogon dasyllis* Will. Kaslo, B.C., Sept. 1, 1907, (Cockle). Recorded  
from Colorado.
259. *Cyrtopogon dasylloides* Will. Kaslo, B.C., Sept. 1, 1907, (Cockle). Re-  
corded from Washington State.
261. *Holopogon guttula* Wied. Rigaud, Que., June 25, 1906, (Beaulieu). New  
to Quebec province list.
272. *Laphyria aatus* Walk. Montreal, June 7, (Beaulieu). New to Quebec  
province list.
284. *Psilopodinus caudatus* Wied. Rigaud, Que., June 25, 1906, (Beaulieu).  
New to Quebec province list.
286. *Psilopodinus scobinator* Loew. Montreal, July 16, 1906, (Beaulieu). New  
to Quebec province list.
289. *Chrysotus obliquus* Loew. Montreal, July 16, 1906, (Beaulieu). New to  
Quebec province list.
290. *Chrysotus wisconsinensis* Wheeler. Montreal, July 16, 1906, (Beaulieu).  
New to Quebec province list.
290. *Campsicnemus hirtipes* Loew. Montreal, July 22, 1906, (Beaulieu). New  
to Quebec province list.
291. *Argyra calceata* Loew. Montreal, July 7, 1906, (Beaulieu). New to  
Quebec province list.
293. *Sympycnus lineatus* Loew. Montreal, July 10, 1906, (Beaulieu). New  
to Quebec province list.  
\* *Hydrophorus phoca* Aldrich. Corfield, Vanc. Island, B.C., Aug. 7, 1896,  
(Rev. Mr. Livingston); Psyche, April, 1911, p. 63.

- \* *Hydrophorus extrarius* Aldrich. St. Johns, Que., Aug. 8, 1901, (Beaulieu); *Psyche*, April, 1911, p. 66.
- 300. *Dolichopus brevismanus* Loew. Montreal, July 16, 1906, (Beaulieu). New to Quebec province list.
- 301. *Dolichopus dakotensis* Aldrich. Montreal, June 14, 1906, (Beaulieu). New to Quebec province list.
- 301. *Dolichopus detersus* Loew. Montreal, July 22, 1906, (Beaulieu). New to Quebec province list.
- 302. *Dolichopus latipes* Loew. Montreal, Aug. 14, 1906, (Beaulieu). New to Quebec province list.
- 303. *Dolichopus ovatus* Loew. Montreal, July 10, 1906, (Beaulieu). New to Quebec province list.
- 305. *Gymnopternus barbatulus* Loew. Montreal, July 7, 1906, (Beaulieu). New to Quebec province list.
- 305. *Gymnopternus crassicauda* Loew. Montreal, July 7, 1906, (Beaulieu). New to Quebec province list.
- 305. *Gymnopternus difficilis* Loew. Montreal, July 7, 1906, (Beaulieu). New to Quebec province list.
- 306. *Gymnopternus ventralis* Loew. Montreal, July 7, 1906, (Beaulieu). New to Quebec province list.
- 309. *Pelastoneurus vagans* Loew. Montreal, July 22, 1906, (Beaulieu). New to Quebec province list.
- 311. *Platypalpus aqualis* Loew. Montreal, July 16, 1906, (Beaulieu). New to Quebec province list.
- 312. *Platypalpus crassifemoris* Fitch. Montreal, June 17, 1906, (Beaulieu). New to Quebec province list.
- 312. *Platypalpus hastatus* Melander. Montreal, June 17, 1906, (Beaulieu). New to Quebec province list.
- 312. *Platypalpus trivialis* Loew. Montreal, Aug. 18, 1906, (Beaulieu). New to Quebec province list.
- 318. *Syndyas polita* Loew. Montreal, July 7, 1906, (Beaulieu). New to Quebec province list.
- 319. *Hybos slossonæ* Coq. St. Johns, Que., Aug. 1, (Beaulieu). New to Quebec province list.
- 319. *Leptozepe compta* Coq. Montreal, July 14, 1906, (Beaulieu). New to Quebec province list.
- 325. *Hilara femorata* Loew. Rigaud, Que., June, 1906, (Beaulieu). New to Quebec province list.
- 326. *Hilara tristis* Loew. St. Johns, Que., July 1, (Beaulieu). New to Quebec province list.
- 329. *Cyrtoma longipes* Loew. Montreal, July 7, 1906, (Beaulieu). New to Quebec province list.
- 331. *Rhamphomyia longicauda* Loew. Montreal, June 7, 1906, (Beaulieu). New to Quebec province list.
- 332. *Rhamphomyia mutabilis* Loew. Montreal, June 10, 1906, (Beaulieu). New to Quebec province list.
- 350. *Pipiza calcarata* Loew. Montreal, June 3, 1906, (Beaulieu). New to Quebec province list.
- 350. *Pipiza pulchella* Will. Rigaud, Que., June 27, 1906, (Beaulieu). New to Quebec province list.

358. *Pyrophana granditarsus* Forst. Ottawa, June 2, 1908, (J. A. Letourneau).
359. *Platychirus chatopodus* Will. Montreal, (Beaulieu); Mr. Chagnon has also seen the species from Sherbrooke, Que. New to Quebec province list.
359. *Platychirus peltatus* Meig. Montreal, June 17, 1906 (Beaulieu); Rigaud, Que., (Record sent by Mr. Chagnon). New to Quebec province list.
362. *Eupeodes volucris* O. S. High River, Alta., (Baird); Regina, Sask., Sept. 2, 1907, (Willing).
369. *Xanthogramma emarginata* Say. Montreal, July 16, 1906, (Beaulieu). New to Quebec province list.
373. *Sphaerophoria scripta* Linne. Montreal, Aug. 16, 1906, (Beaulieu). Mr. Chagnon informs me that the species which he has recorded as *cylindrica* is probably *scripta*, (A. G.).
383. *Pyritis montigena* Hunter. Innisfail, Alta., April 16, 1905, (Willing).
394. *Helophilus porcus* Walk. Montreal, June 10, 1906, (Beaulieu). New to Quebec province list.
401. *Brachypalpus rileyi* Will. St. Hilaire, Que., May 24, 1906. (Beaulieu). New to Quebec province list.
412. *Oncomyia loraria* Loew. Montreal, Aug. 19, 1906, (Beaulieu). New to Quebec province list.
423. *Alophora diversa* Coq. Montreal, Sept. 16, 1906, (Beaulieu). New to Quebec province list.
- Alophora magnipennis* John. St. Hilaire, Que., May 24, 1906, (Beaulieu). New to Quebec province list.
451. *Ocyptera dosiades* Walk. Aweme, Man., Aug. 17, (Criddle).
- \* *Linnæmyia anthracina* Thomp. Hymers, Ont., reared at Ottawa from larvæ of *Hyphoraia parthenos*, received from Mr. H. Dawson, (Gibson); Can. Ent., Aug., 1911, p. 266.
452. *Linnæmyia picta* Meig. Rigaud, Que., June 25, 1906, (Beaulieu). New to Quebec province list.
465. *Sturmia nigrita* Townsend. Rigaud, Que., June 25, 1906, (Beaulieu). New to Quebec province list.
484. *Peleteria aenea* Stæger. Calgary, Alta., July 10, 1903, (Willing).
488. *Echinomyia decisa* Walk. Saskatoon, Sask., Sept. 3. (Willing).
507. *Thelaira leucozona* Panzer. Montreal, Aug. 19, 1906, (Beaulieu). New to Quebec province list.
538. *Homalomyia flavibasis* Stein. Montreal, July 7, 1906, (Beaulieu). New to Quebec province list.
538. *Homalomyia incisurata* Zett. Montreal, Aug. 16, 1906. (Beaulieu). New to Quebec province list.
540. *Hyetodesia deleta* Stein. East Bolton, Que., July 28, (Winn). New to Quebec province list.
545. *Spilogaster obscurinervis* Stein. Montreal, June 14, 1906, (Beaulieu). New to Quebec province list.
549. *Anthomyia latitarsus* Zett. Montreal, Aug. 10, 1906, (Beaulieu). New to Quebec province list.
553. *Eustalomyia brixia* Walk. Montreal, (Beaulieu). New to Quebec province list.
553. *Eustalomyia vittipes* Zett. Montreal, June 3, 1906, (Beaulieu). New to Quebec province list.

560. *Canoia calopyga* Loew. East Bolton, Que., July 22, (Winn). New to Quebec province list.
563. *Schoenomyza chryostoma* Loew. Montreal, July 7, 1906, (Beaulieu). New to Quebec province list.
570. *Heteroneura melanostoma* Loew. Montreal, June 14, 1906, (Beaulieu). New to Quebec province list.
578. *Sciomyza obtusa* Fallen. Montreal, Aug. 18, 1906, (Beaulieu). New to Quebec province list.
581. *Sepedon fuscipennis* Loew. Montreal, July 22, 1906, (Beaulieu). New to Quebec province list.
581. *Sepedon puillus* Loew. Montreal, April, 1906, (Beaulieu). New to Quebec province list.
582. *Lonchæa rufitarsus* Macq. Montreal, June 7, 1906, (Beaulieu). New to Quebec province list.
582. *Paloptera jucunda* Loew. Kaslo, B.C., Oct. 27, 1906; (Cockle).
585. *Sapromyza fraterna* Loew. Montreal, Aug. 16, 1906, (Beaulieu). New to Quebec province list.
585. *Sapromyza lupulina* Fab. Montreal, July 20, 1906, (Beaulieu). New to Quebec province list.
587. *Sapromyza vulgaris* Fitch. Montreal, July 16, 1906, (Beaulieu). New to Quebec province list.
597. *Chatopsis anea* Wied. Aveme, Man., June 27-July 9, (Criddle).
616. *Calobata antennipes* Say. St. Johns, Que., July 1, 1907. (Beaulieu). New to Quebec province list.
619. *Nemopoda minuta* Wied. Montreal, Aug. 21, 1906, (Beaulieu). New to Quebec province list.
621. *Lozocera collaris* Loew. Montreal, Aug 14, 1906, (Beaulieu). New to Quebec province list.
632. *Chlorops (Anthracophaga) sanguinolenta* Loew. Rouville, Que., May 24, 1906, (Beaulieu). New to Quebec province list.
633. *Chlorops melanocera* Loew. Montreal, July 7, 1906, (Beaulieu). New to Quebec province list.
635. *Eurina exilis* Coq. Montreal, July 14, 1906, (Beaulieu). New to Quebec province list.
637. *Oscinis decipiens* Loew. Kaslo, B.C., Sept. 1, 1907, (Cockle). The only locality record in Aldrich's catalogue is Sitka.
640. *Phortica leucostoma* Loew. Montreal, July 7, 1906, (Beaulieu). New to Quebec province list.
641. *Drosophila amana* Loew. Montreal, Aug. 5, 1906, (Beaulieu). New to Quebec province list.
642. *Drosophila funebris* Fab. Montreal, Oct. 1, 1905, (Beaulieu). New to Quebec province list.
643. *Drosophila quinaria* Loew. Rigaud, Que., June 27, 1906, (Beaulieu). New to Quebec province list.
651. *Mitichia indecora* Loew. Rigaud, Que., June 25, 1906, (Beaulieu). New to Quebec province list.
656. *Pseudofersia maculata* Coq. St. Therese, Que., (Mignault). New to Quebec province list.



## HYMENOPTERA.

In this Order, unfortunately, little definite work seems to have been done in Canada in 1911. Small collections made in previous years have been determined, and data regarding some of these are now included here. Dr. Wheeler has determined a number of different species of ants, records of some of which are also given.

- Spalangera nigra* Latr. Ottawa, Sept. 23, (Sanders).  
*Stenamma brevicorne* Mayr. Weymouth, N.S., (Sanders).  
*Lepto thoran curvispinosus* Mayr. Weymouth, N.S., (Sanders).  
*Polichoderus plagiata* Mayr. Grand Manan, N.B., (Sanders); Aweme, Man., 1907, (J. Fletcher).  
*Brachymyrmex heeri depilis* Emery. Weymouth, N.S., (Sanders).  
*Lasius niger* L., var. *neoniger* Emery. Grand Manan, N.B.; Ottawa, (Sanders).  
*Lasius brevicornis* Emery. Ottawa, (Sanders).  
*Lasius umtatus* Nyl., subsp. *mixtus* Nyl. var. *aphidicola* Walsh. Ottawa, (Sanders).  
*Lasius umbratus* Nyl., subsp. *subumbratus* Viereck. Beaver Lake and Olds, Alta., 1907, (Willing).  
*Formica sanguinea* Latr. subsp. *subintegra* Emery. St. Stephen, N.B.; Ottawa, (Sanders).  
*Formica fusca* L. var. *subsericea* Say. St. Stephen, N.B.; Ottawa, (Sanders).  
*Formica fusca* L. var. *neoclara* Emery. Chilliwack Valley, B.C., (J. Macoun).  
*Formica lasioides* Emery, var. *picea* Emery. Ottawa, (Sanders).  
*Formica subpulita* Mayr. var. *neogagates* Emery. Ottawa, (Sanders).  
*Tiphia relativa* Vier. Peachland, B.C., Aug. 2, 1909, (Wallis).  
*Speco'es arroyanus* Ckll. Lethbridge, Alta., (Wallis). Known from New Mexico and Colorado, (T.D.C.).
- *Tetralonia medicata* Ckll. Medicine Hat, Alta., May 30, 1904, (Willing); Can. Ent., Jan. 1911, p. 34.
  - *Anthrophora bombooides willingi* Ckll., n. subsp. Prince Albert, Sask., June 18, 1905, (Willing)
  - *Prosopis potens* Metz Montreal, June 10, 1906; Trans. Amer. Ent. Soc. xxxvii, 104.
- Osmia coloradensis* Cress. Peachland, B.C., Aug. 2, 6, 1909, (Wallis).  
*Atanycolus monivagus* Cress. Penticton, B.C., Aug. 12, 1909, (Wallis).  
 • *Pterochilus leucotaenius* Rohwer. Lethbridge, Alta., July 4, 9, 1909, (Wallis); Proc. U. S. N. M., vol. 40, p. 554.  
 • *Diodontus bidentatus* Rohwer. Nerepis, N.B., Aug. 20, (Leavitt). Proc. U. S. N. M., vol. 40, p. 561.  
 • *Hoplocampa xantha* Rohwer. Ottawa; Tech. series No. 20, part IV., U. S. Bureau of Entomology, p. 144.  
 • *Dimorphopteryx abnormis* Rohwer. Ottawa, 1900; Proc. U. S. N. M., vol. 41, p. 406.  
*Parnopes hageni* Vier. Peachland, B.C., Aug. 23, 1909, (Wallis).  
*Bombus occidentalis* Green. Fort Selkirk, Y.T., 1908, (Miss Seymour).  
*Psithyrus ashtoni* Cress. Kenora, Ont., Sept. 9, 1909.

- \* *Psithyrus fernaldæ* Franklin. Kaslo, B.C.; Metlakatla.; Trans. Amer. Ent. Soc., xxxvii, 165.
- \* *Psithyrus tricolor* Franklin. Banff, Alta.; Metlakatla, B.C., (Keen); Weymouth, N.S., (P. G. Bolster); Trans. Amer. Ent. Soc. xxxvii, 167.

## ORDER HEMIPTERA.

Unfortunately, as yet, we have few workers in Canada in this order. During the year Mr. J. B. Wallis, of Winnipeg, Man., and Mr. J. D. Evans, of Trenton, Ont., have had collections determined by Mr. Van Duzee, and some of these, together with some interesting species taken at Danville, Que., between July 20 to 30, 1911, and at North Hatley, Que., between July 17 to 24, 1909, by Mr. G. A. Moore, are included here. Miss Edith Patch, of the Agricultural Experiment Station, Orono, Maine, is now working on Psyllidæ and would be glad to receive any material from Canada. Below are also included definite records of a few of these latter insects which have been determined by Miss Patch.

- Stictocephala inermis* Fab. Treesbank, Man., July 18, 1910, (Wallis).  
*Telamona ampelopsidis* Harr. Danville, Que., July, (Moore).  
*Cyrtobolus maculifrontis* Emmons. Co. Hastings, Ont., July 2, (Evans).  
*Publilia modesta* Uhler. Westbourne, Man., Sept. 4, 1910, (Wallis).  
*Cirius basalis* Van D. Trenton, Ont., July 13, (Evans).  
*Laccocera vittipennis* Van D. Danville, Que., July, (Moore).  
*Bruchomorpha tristis* Stal. Treesbank, Man., July 21, 1910, (Wallis).  
*Aphelonema simplex* Uhler. Treesbank, Man., July 21, 1910, (Wallis).  
*Pissonotus marginatus* Van D. Danville, Que., July, (Moore).  
*Pissonotus ater* Van D. Ottawa, July 17, 1904, (Metcalfe).  
*Liburnia campestris* Van D. Danville, Que., July, (Moore).  
*Liburnia pellucida* Fabr. Trenton, Ont., June 6; Aug. 6, (Evans).  
*Lepyronia gibbosa* Ball. Treesbank, Man., July 21, 1910, (Wallis).  
*Aphrophora signoretti* Fitch. Treesbank, Man., July 20, 1910, (Wallis);  
 Meach Lake, Que., July 20, 1905, (Gibson).  
*Philaronia bilineata* Say. Lethbridge, Alta., July 5, 1909; Treesbank, July 20, 1910, (Wallis).  
*Proconia costalis* Fab. Treesbank, Man., April 17, 1908; Winnipeg, Man., May 18, 1909, (Wallis).  
*Draculacephala manitobiana* Ball. Husavick, Aug. 23, 1910, (Wallis).  
*Gypona cana* Burm. Peachland, B.C., July 26, 1909, (Wallis).  
*Pediopsis basalis* Van D. Co. Hastings, Ont., June 20, (Evans).  
*Idiocerus snowi* G. & B. Treesbank, Man., July 21, 1910 (Wallis).  
*Athysanus lineola* Fall. Trenton, Ont., June 20, (Evans).  
*Phlepsius nebulosus* Van D. Husavick, Man., July 6, 1910, (Wallis).  
*Phlepsius decorus* O. & B. Husavick, Man., Aug. 27, 1910, (Wallis).  
*Cicadula lineatifrons* Stal. Husavick, Man., Aug. 23, 1910, (Wallis).  
*Empoasca atrolabes* Gill. Co. Hastings, Ont., June 20, (Evans).  
*Livia vernalis* Fitch. Aylmer, Que., May 31, 1903, (Metcalfe).  
*Livia maculipennis* Fitch. Brockville, Ont., Sept. 20, 1903, (Metcalfe).  
*Aphalara metzaria* Crawford. Aylmer, Que., May 31, 1903, (Metcalfe).  
*Aphalara veaziei* Patch. Hull, Que., July 26, 1903, (Metcalfe).  
*Psylla floccosa* Patch. Ottawa, July 12, 1903; Hull, Que., Aug. 1, 1904, (Metcalfe).

- Psylla galeaformis* Patch. Ottawa, July 12, 1903; Aug. 2, 24, 1904; June 26, 1904; Hull, Que., Aug. 1, 1904, (Metcalf).
- Psylla striata* Patch. Ottawa, on ironwood, Aug. 25, 1907; on basswood, July 1, 1904; Hull, Que., on maple, Aug. 1, 1904, (Metcalf).
- Trioza obtusa* Patch. Brockville, Ont., Oct. 11. 25, 1903, (Metcalf).
- Banasa sordida* Uhler. Co. Hastings, Ont., Aug. 27, (Evans).
- Thyreocoris nitiduloides* Wolff. North Hatley, Que., July, 1909, (Moore).
- Aradus quadrilineatus* Say. Winnipeg, Man., May 18, 1909, (Wallis).
- Sphragisticus nebulosus* Fall. Winnipeg, Man., May 17, 1909, (Wallis).
- Emblethis vicarius* Horv. Treesbank, Man., July 26, 1910 (Wallis).
- Scolopostethus atlanticus* Horv. Winnipeg, Man., May 13, 1909, (Wallis).
- Corynocoris distinctus* Dallas. Grimsby, Ont., Sept. 16, 1894, (Metcalf).
- Megalotomus quinquespinosus* Say. Aylmer, Que., Aug. 21, 1910, (Metcalf).
- Corizus crassicornis* L. Treesbank, Man., July 21, 1910, (Wallis).
- Leptopypha mutica* Say. North Hatley, Que., July, 1909, (Moore).
- Pagasa fusca* Stein. Winnipeg Beach, Man., Aug. 25, 1910, (Wallis).
- Reduviolus propinquus* Rent. Husaviek, Man., July 11, 1910, (Wallis).
- Naogeus burmeisteri* L. & S. Treesbank, Man., July 25, 1910. (Wallis).
- Mesovelia mulsanti* White. Husaviek, Man., July 12, 1910, (Wallis).
- Triphleps tristicolor* B. White. Peachland, B.C., July 24, 1909, (Wallis).
- Anthocoris borealis* Dallas. North Hatley, Que., July, (Moore).
- Anthocoris melanocerus* Reut. Peachland, B.C., July 24, 1909, (Wallis).
- Anthocoris musculus* Say. Danville, Que., July, (Moore).
- Orthotylus congrex* Uhler. Co. Hastings, Ont., June 14, 20, (Evans).
- Orthotylus marginatus* Uhler. Co. Hastings, Ont., June 20, (Evans).
- Dicyphus californicus* Stal. Trenton, Ont., Aug. 20, (Evans).
- Fulvius brunneus* Prov. Trenton, Aug. 10. (Evans).
- Stenotus binotatus* Fabr. Trenton, Ont., June 26, (Evans).
- Hadronema picta* Uhler. Lethbridge, Alta., June 6, 1909, (Wallis).
- Resthenia insignis* Say. Danville, Que., July, (Moore).
- Dichroscytus suspectus* Rent. Husaviek, Man., July 10, 1910, (Wallis).
- Lygus plagiatus* Uhler. Winnipeg, Man., Sept. 4, 1909, (Wallis).
- Tropidostepes commissuralis* Reut. Hull, Que., Aug. 11, 1904. (Metcalf)
- Tropidostepes amamus* Uhler. Husaviek, Man., July 11, 1910, (Wallis).
- Camptobrochis validus* Rent. Peachland, B.C., Aug. 5, 1909, (Wallis).
- Horcias dislocatus* Say, var. *affinis* Reut. Ottawa, May 13, (Metcalf).
- Mimiceps gracilis* Uhler. Carlsbad Springs, Ont., June 26, 1904, macropterous form, (Metcalf).
- Salda interstitialis* Say. Winnipeg, Man., May 20, 1910, (Wallis); North Hatley, Que., July, 1909, (Moore).
- Salda littoralis* L. Husaviek, Man., July 3, 1910, (Wallis).

#### NEUROPTEROID INSECTS (EXCEPT ODONATA).

(Arranged according to a catalogue of the Neuropteroid Insects, (Except Odonata), of the United States, by Nathan Banks; American Entomological Society, 1907. The numbers refer to the pages of the catalogue).

All of the species mentioned below have been determined by Dr. Banks. Some, it will be noticed, are of not uncommon occurrence and even widespread distribution.

but it has been thought advisable to include them all here as our knowledge of the distribution of these neuropteroid insects is very limited and almost any definite record is of value. With but few exceptions none of the species here mentioned have been recorded in the RECORD. The few previously mentioned are from widely separated localities.

## ORDER ARCHIPTERA.

13. *Isoperla bilineata* Say. Winnipeg, Man., May 29, 1908, (Wallis).
16. *Ephemera decora* Walk. Husavick, Man., July 10, 1910, (Wallis).
16. *Ephemera simulans* Walk. Go Home Bay, Ont., late June and early July. (Walker).
17. *Canis dimuta* Walk. Go Home Bay, Ont., July 4—Aug. 10, 1908, (Walker).
18. *Callibaetis ferrugineus* Walsh. Husavick, Man., Aug. 16, 1910, (Wallis).
20. *Heptagenia canadensis* Walk. Husavick, Man., July 2, 1910, (Wallis).
20. *Heptagenia flavescens* Walsh. Peachland, B.C., Aug. 23, 1909, (Wallis).
20. *Heptagenia interpunctata* Say. Go Home Bay, Ont., June 29, 1908, (Walker).
20. *Heptagenia luridipennis* Burm. Go Home Bay, Ont., June 26—Aug., 1908, (Walker).
20. *Furcisca obesa* Say. Go Home Bay, Ont., June 27, 1907, (Walker).

## ORDER NEUROPTERA.

21. *Chauliodes serricornis* Say. Ottawa, Aug. 1910, (Bro. Germain).
27. *Chrysopa majuscula* Banks. Penticton, B.C., Aug. 12, 1909, (Wallis).
27. *Chrysopa nigricornis* Burm. Husavick, Man., Aug. 16, 1910, (Wallis).
28. *Chrysopa ypsilon* Fitch. Winnipeg, Man., June 10, 1910, (Wallis).
- \* *Chrysopa canadensis* Banks. Go Home Bay, Ont., July 12, (Walker); Trans. Amer. Ent. Soc., xxxvii, 340.
30. *Brachynemurus abdominalis* Say. Aweme, Man., July 18, 1910, (Wallis); Go Home Bay, Ont., July 31, 1907, (Walker).
31. *Brachynemurus brunneus* Currie. Aweme, Man., July 20, 1910, (Wallis).
31. *Brachynemurus nigrilabris* Hagen. Aweme, Man., July 20, 1910, (Wallis).
32. *Cyrtoleon nebulosum* Oliv. Giant's Tomb Island, Georgian Bay, July 7-30, 1907, (Walker).

## ORDER TRICHOPTERA.

35. *Phryganea cinerea* Walk. Go Home Bay, Ont., (Walker)
35. *Neuronia postica* Walk. Go Home Bay, Ont., (Walker).
35. *Neuronia pardalis* Walk. Hymers, Ont., June 16, 1910, (Dawson).
35. *Agrypnia straminea* Hagen. Winnipeg, Man., June 1, 1908, (Wallis).
36. *Limnephilus externus* Hagen. Winnipeg, Man., Sept. 13, 1910, (Wallis).
36. *Limnephilus indivisus* Walk. Temagami, Sept. 14, 1908, (Walker).
- \* *Rhyacophila grandis* Banks. Vernon, B.C., and Bon Accord, B.C., June 14, (Russell); Trans. Amer. Ent. Soc., xxxvii, 351.
42. *Brachycentrus incanus* Hagen. Winnipeg, Man., May 31, 1910, (Wallis).
43. *Helicopsyche borealis* Hagen. Husavick, Man., Aug. 4, 1910, (Wallis).
- Lepidostoma wisconsinensis* Vorhies. Husavick, Man., July 2, 1910, (Wallis).

45. *Molanna cinerea* Hagen. Go Home Bay, Ont., June 28-July 12, 1908, (Walker).
45. *Molanna rufa* Hagen. Husaviek, Man., July 2, 1910, (Wallis).
45. *Leptocerus resurgens* Walk. Go Home Bay, Ont., July 4, 12, 1907, (Walker).
45. *Trianodes borealis* Banks. Husaviek, Man., July 2, 1910, (Wallis).
45. *Trianodes ignita* Walk. Treesbank, Man., July 29, 1910, (Wallis).
45. *Leptocella albida* Walk. Winnipeg, Man., June 29, 1909, (Wallis).
46. *Leptocella uwarowii* Kolen. Husaviek, Man., Aug. 23, 1910, (Wallis).
46. *Ecetina incerta* Walk. Husaviek, Man., July 4, 1910, (Wallis); Go Home Bay, Ont., July 12, 22, 1908, (Walker).
47. *Macronema zebrata* Hagen. Sandy Gray Falls, Musquash River, Ont., July 24, 1907, (Walker).
47. *Hydropsyche alternans* Walk. Winnipeg, Man., June 3, 1910, (Wallis).
47. *Plectrocnemia confusus* Hagen. Go Home Bay, Ont., June 27-July 5, 1907, (Walker).
- \*. *Polycentropus remotus* Banks. Peachland, B.C., July 23, (Wallis); Trans. Amer. Ent. Soc. xxxvii, 359.
48. *Nyctiophylax affinis* Banks. Go Home Bay, Ont., July 5-22, 1907. (Walker).
- \*. *Nyctiophylax moestus* Banks. Peachland, B.C., Aug. 19, (Wallis); Trans. Amer. Ent. Soc., xxxvii, 359.

## ODONATA.

Dr. E. M. Walker of Toronto, has sent to me the following interesting records which I am glad to include.

- Amphiagrion saucium* Burm. Aweme, Man., June, 1911. 1 female, teneral, (Wallis). First Manitoba record.
- Hagenius brevistylus* Selys. Mississauga River, Parry Sound Dist., Aug. 2, 1911, 1 male, (Hahn).
- Ophiogomphus rupinsulensis* Walsh. Shawniga River, Parry Sound Dist., Ont., Aug. 10, 1910, (Hahn). At the same locality Mr. Hahn also obtained a number of exuviae of an *Ophiogomphus*, probably belonging to the same species.
- Ophiogomphus severus* Hag. Aweme, Man., July 19, 1910, (Wallis). Two females, probably of this species.
- Gomphus externus* Hag. Winnipeg, Man., June 25, 1910, 3 males, 1 female, (Wallis).
- Gomphus lividus* Selys. Shawniga River, Parry Sound Dist., Aug. 10, 1910. A number of exuviae, (Hahn).
- Gomphus scudderi* Selys. Mississauga River, Parry Sound Dist., Aug. 2, 1911. 1 male, (Hahn).
- Dromogomphus spinosus* Selys. Mississauga River, Parry Sound Dist., Aug. 2, 1911, 1 male, (Hahn).
- Basiaeschna jauata* Say. Shawniga River, Parry Sound Dist., Aug. 10, 1911. Several exuviae, (Hahn).
- Boyeria vinosa* Say. Shawniga River, Aug. 10, 1911, 1 male, 1 female, (Hahn).

- A number of *Boyeria exuviae* were also taken at this locality, and are separable into two slightly differing forms, one of which is identical with the exuvia of *B. grafiana*, so that the other doubtless belongs to *vinosa*.
- Aeshna eremita* Seudd. Shawniga River, Aug. 10, 1911, 2 exuviae, (Hahn).
- Aeshna interrupta* Walk. Mississauga River, Aug. 2, 1911, 3 males, 1 female, (Hahn).
- Neurocordulia yamaskanensis* Prov. Shawniga River, Aug. 10, 1911, numerous exuviae, (Hahn).
- Helocordulia uhleri* Selys. Shawniga River, Aug. 10, 1911, 1 exuvia, (Hahn).
- Somatochlora macrotona* Wmsn. Winnipeg. June 10-19, 1910; 3 males, 2 females; Husavick, Man., Aug. 17, 1910, 1 female, (Wallis).
- Libellula pulchella* Drury. Husavick, Man., July 11, 1910, (Wallis). Most northwesterly record.
- Pantala hymenaea* Say. Husavick, Man., July 11, 1910, 1 male, (Wallis). First Canadian Record.
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