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THE OTTAWA NATURALIST

VOL. XXV.

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No. 3

SOME CANADIAN ANTENNARIAS.—IV.

BY EDWARD L. GREENE.

The collections of this genus made by Mr. James M. Macoun in the Hudson Bay region in the summer and autumn of 1910 having been submitted to me for determination, I find the specimens of such deep interest as to call for a detailed account of them, two out of the four numbers seeming to represent species hitherto unknown to science. Another illustrates a type first published by me some fourteen years ago, namely:

ANTENNARIA ANGUSTATA, Greene, Pittonia III., 284 (1898). The material on which this as a species was based came from the coast of Hudson Strait, where it had been collected by Dr. Bell, in 1884. It was obtained by Dr. Bell again in 1897 at two stations, both of them in Baffin Land, and these two collections are numbered 18744 and 18745 in the herbarium of the Geological Survey. Mr. Macoun, in 1910, found it at Port Burwell, Hudson Strait, the specimens having been gathered on July 18th; an early date for it, the stems little more than an inch high, though quite in flower. They bear the Geological Survey number 79271. The species holds in all the collections its characters of a narrow foliage, very narrow and acute involucre bracts, and these of a much darker color than those of any phase of *A. alpina*. The stems are also almost invariably monocephalous. There is a good representation of the species in specimens gathered in the northern extremity of Labrador by Mr. A. P. Low, July 21st, 1897; yet this is no great extension of its range, since it is a part of the Hudson Strait region; yet I see reason to apprehend that at least a part of the so-called *A. alpina* of Greenland may be referable to *A. angustata* rather, though the plant is larger, and the heads always several at the summit of the stem. There appears as yet no trace of the male plant of this species.

ANTENNARIA ISOLEPIS sp. nov. Plant somewhat loosely cespitose, the matted leafy branches rather rigid and suffrutescent, the stolons or surculi of the season an inch long: leaves $\frac{1}{2}$ inch long or somewhat more, oblanceolate, acute, not very firm, above thinly yet permanently tomentose, the indu-

ment denser and whiter beneath: flowering stems 5 inches high, very slender, rather conspicuously leafy; heads about 4 or 5 and pedicellate; involucre not small, broadly campanulate, of 3 or more series of bracts of almost equal length as to their strongly developed scarious part, this of a pale brown, oblong-oval, obtuse or merely acutish, delicately and almost fimbriately serrate under a lens, in maturity more or less spreading.

Cape Eskimo, Hudson Bay, August 26th, 1910, J. M. Macoun, Geological Survey number 79270. I suspect that the plant here described is a male. The width, as well as the spreading character of the scarious part of the bracts would seem to indicate as much. Of the same import is the decidedly short pappus, which does not equal in length the involucre; but the pappus is capillary, without trace of dilatation at tip, and this fact militates against the supposition that the plant is a male; for, habitally at least, and also ever by the characters of the involucre the species allies itself with that group of northern Rocky Mountain species of which *A. parviflora*, Nutt., and *A. umbrinella*, Rydb., are typical; and in all this group as far as known the male pappus is wide at tip. But, of whatever group, the species is a well marked new one.

ANTENNARIA NITENS sp. nov. Apparently densely matted, the crowded basal leaves on very short scarcely stalked offsets, less than $\frac{1}{2}$ inch long, spatulately oblanceolate, acute, of a vivid green and altogether glabrous above, underneath sparsely silky-hairy, both faces polished and shining though also minutely punctulate; stems slender, brownish and wiry, rigidly erect, sparsely scabrous under a lens, otherwise glabrous, 2 to 4 inches high, bearing rather approximate and suberect oblong leaves and mostly a solitary head; involucre large for the plant, open campanulate, the bracts with but a trace of woolly hairs below the middle, their scarious tips of a dull brown, broadly ovate, acute, serrulate not as long as the chartaceous body of the bract; bristles of pappus firm, not dilated, but strongly barbellate from below the middle to near the summit.

Wager Inlet, an arm of the western part of Hudson Bay, latitude $65^{\circ} 15'$, collected by Mr. J. M. Macoun, September 8th, 1910, number 79269. The plants were quite past flowering at that date and had even shed most of their pappus, enough of which had remained, however, to show their very marked character of being almost plumose in the middle and upper portion. All the specimens seen by me are monocephalous except one, and that has two heads, the properly terminal one being far surpassed by the one lateral which is borne on a very slender pedicel. I can hardly doubt that the plants are all staminate. The

appearance of the involucre seem to indicate this, as well as the subplumose pappus.

Number 79268, also from Wager Inlet, and of the same date of September 8th, seems to represent another undescribed species, but one which can not be well described from the material. It is a gray-tomentose plant, and not by any vegetative characters to be distinguished from *A. angustata*, but the involucre are very widely different from those of that species or of *A. alpina*. The plant is not only past flowering, but all its achenes and pappus are gone. The bracts of the involucre, while not those of *A. isolepis*, yet show more likeness to them than to those of any other.

THE SPRING MIGRATION OF BIRDS AT FISHERMANS ISLAND, TORONTO, 1910.

By J. A. MUNRO.

(Continued from page 31).

RED-BACKED SANDPIPER.—May 10th, one seen. They were plentiful from May 19th until May 31st, and a few remained until June 8th. The last record was made on June 18th when a single bird appeared in company with a Turnstone and a Semipalmated Sandpiper.

SEMI-PALMATED SANDPIPER.—Plentiful from May 27th until June 7th. A few remained until June 18th.

SANDERLING.—A few seen between May 20th and 29th. They became plentiful on May 30th when flocks of fifty and sixty appeared and remained on the beach until June 5th.

GREATER YELLOWLEGS.—A few single birds seen from April 14th until May 20th.

YELLOWLEGS.—A single bird seen on April 19th and May 16th. The first fall record made on June 17th.

SPOTTED SANDPIPER.—The first record made on May 1st. They were numerous a week later and commenced nesting about May 27th. Eleven nests containing eggs were found from May 27th to July 8th.

HUDSONIAN CURLEW.—The flight took place on May 24th, 25th and 26th. A single bird remained until June 2nd, feeding along the edge of the "Beach Pond". On June 5th two birds were seen flying down the lake against a strong east wind. A careful record was kept of the flight of which the following data is the result: May 24th, 6.30 a.m., a flock of twelve came in from the lake, circled the beach several times and then flew down the lake; 7.30 a.m., sixteen flew down the lake close to shore; 8.00

a.m., a flock of twelve alighted on the beach for a few minutes and then flew north; 8.10 a.m., a flock of forty-eight came in from the lake and remained until 11 a.m., flying up and down the beach. Several times they alighted on the sandbar beside the Herring Gulls, who repeatedly drove them away; 10.20 a.m., two flew up the beach; 11.20 a.m., a flock of 500 crossed the beach flying in a north-westerly direction, sometimes in a long straggling line and again closing up into a compact flock; between 11.30 and 11.40 a flock of ten, one of five and one of six flew over; 11.40 a.m., a flock of seven crossed the beach; 11.50 a.m., a flock of forty alighted on the beach and remained in the vicinity until 2.30 p.m. No more were seen until 7.30 p.m., when a flock of thirty flew over. May 25th, 8.45 a.m., a flock of eleven crossed the beach; 4.30 p.m., a flock of twenty-three alighted on the beach beside the Herring Gulls. May 26th, 1.00 p.m., a long line about 300 in all crossed the beach. Another flock of twenty followed close behind.

BLACK-BELLIED PLOVER.—Single birds and flocks of three and four seen from May 7th until June 16th. They were observed more frequently between May 24th and June 5th.

KILLDEER.—The first record made on March 19th. They breed on the city dump north of the sandbar.

SEMIPALMATED PLOVER.—A few seen between May 21st and June 8th in flocks of five and six and generally accompanied by Semipalmated Sandpipers.

BELTED PIPING PLOVER.—One seen on April 22nd, May 5th and 8th. Three pairs arrived on May 10th and began nesting a few days later. One set of eggs was found on May 29th. They were laid on the open pebbly beach without any attempt at concealment. The eggs harmonized perfectly with the neutral colored sand and gravel and were very hard to locate.

RUDDY TURNSTONE.—The first record made on May 10th. Only a few stragglers were seen until May 27th, when flocks of twenty to forty began to arrive. The flight lasted until June 8th. The last record was taken on June 19th, when a single bird was seen.

MARSH HAWK.—Single birds seen from March 20th to May 8th.

SHARP-SHINNED HAWK.—April 28th, one flew down the beach.

PIGEON HAWK.—One seen on the north shore of Ashbridges Bay.

SPARROW HAWK.—March 20th, one seen. May 16th, one seen.

BELTED KINGFISHER.—First record made on April 1st. A common summer resident.

SHORT-EARED OWL.—A single bird remained in the marsh from April 10th to May 13th and helped to thin the ranks of the small migrants.

SNOWY OWL.—January 4th, one seen standing on an ice hummock in Toronto Bay. January 8th, one seen. March 1st, one seen standing on a muskrat house in the marsh. This bird remained in the vicinity until April 6th. On April 2nd it was accompanied by a darker plumaged bird.

DOWNY WOODPECKER.—April 20th, one seen.

YELLOW-BELLIED WOODPECKER.—One in the willows by the breakwater.

RED-HEADED WOODPECKER.—One flew over the beach

FLICKER.—Common summer resident. First record made on March 24th.

WHIP-POOR-WILL.—May 24th, one heard in the willows by the breakwater, the first record taken at Fishermans Island in many years.

NIGHTHAWK.—June 3rd, numerous, flying over the marsh, in the dusk.

CHIMNEY SWIFT.—May 16th, one seen; May 19th, numerous, flying up and down the beach in company with countless swallows.

KINGBIRD.—First arrival noted on May 23rd. A pair nested in one of the tall willows near the breakwater.

PHOEBE.—April 1st, one seen in the willows.

WOOD PEWEE.—June 6th, one seen in the willows.

LEAST FLYCATCHER.—A few seen between May 16th and 23rd.

PRAIRIE HORNED LARK.—A common resident, breeds on the main island. February 20th, two seen. A young bird fully feathered was collected on May 19th.

AMERICAN CROW.—Five or six visited the island every morning during the summer in search of stranded Suckers or Gaspereau.

BOBOLINK.—Numerous from May 16th to 19th.

COWBIRD.—March 31st, a flock of ten flew over the marsh. April 2nd, a flock of twenty and a flock of eight crossed the beach.

RED-WINGED BLACKBIRD.—A single bird seen on February 28th. A flock of eleven arrived on March 11th and a few were seen daily until March 26th, when they became numerous. The first nest, containing three eggs and two newly-hatched young, was found on May 15th. Between May 15th and June 10th twelve nests were found. On May 24th, four young, well able to fly, were seen.

MEADOWLARK.—March 29th, two seen; March 31st, one seen.

BALTIMORE ORIOLE.—May 21st, one seen in the willows. A pair nested in the willows by the breakwater.

BRONZED GRACKLE.—May 20th a pair flew over the marsh. June 18th, three broods of young, feeding at the edge of the marsh.

SNOWFLAKE.—January 19th, a single bird on the beach. February 20th, a flock of thirty seen.

VESPER SPARROW.—Three seen on April 3rd. They were numerous from April 10th to 16th; a pair seen on May 1st.

SAVANNAH SPARROW.—May 15th, two seen; May 16th, fifteen seen in company with a large flock of White-throats and White-crowns. A few were seen until May 19th. They breed on the main island but no records were made of them breeding on Fishermans Island.

WHITE-CROWNED SPARROW.—One seen on April 26th; numerous from May 8th to 22nd.

WHITE-THROATED SPARROW.—April 16th, five seen. Small flocks appeared on the beach from April 26th to May 15th. On May 16th and 17th, there was a large flight, three or four hundred were seen. A single bird remained until May 22nd.

CHIPPING SPARROW.—May 7th, four seen.

SLATE-COLORED JUNCO.—Small flocks seen from March 28th to May 16th.

SONG SPARROW.—March 9th, three seen. By March 24th they were numerous. The first nest with eggs was found on May 12th.

SWAMP SPARROW.—April 12th, two seen. Numerous on April 15th. One nest containing egg shells was found on the ground in a dry meadow close to the marsh.

FOX SPARROW.—A single bird seen from April 1st to 5th. On April 6th there was a flock of six, scratching among the dead leaves under the willows. Single birds were seen on April 7th, 15th and 29th.

TOWHEE.—Single birds seen frequently from April 1st to May 9th.

ROSE-BREASTED GROSBEAK.—May 15th, one male seen.

SCARLET TANAGER.—One male seen from May 25th to 28th.

PURPLE MARTIN.—Two pairs arrived on April 18th. They nested in a bird house beside one of the cottages.

CLIFF SWALLOW.—April 25th, six seen flying over the marsh. May 19th, a stiff north-west gale was blowing and large flocks of Cliff, Bank and Barn Swallows were huddled together on the sand in the lee of the breakwater.

BARN SWALLOW.—April 22nd, ten seen flying over the marsh; numerous on April 26th. A large flight took place on May 27th.

TREE SWALLOW.—A single bird seen from April 5th to 13th. A flock of seven arrived on April 14th. A bird box was placed on the verandah of one of the cottages and on May 4th a pair started nest building. The work was carried on in a desultory fashion and the nest was not completed until May 21st. It was a loose bundle of hay with a deep cavity in one corner, well lined with white hen feathers. The first egg was laid on May 25th and one was laid daily until May 30th. The nest and eggs were taken and the birds began immediately to build another. The second nest was identical in appearance with the first and was completed on June 7th. By June 14th the complement of eggs was laid; June 26th, four eggs were hatched and the remaining two on the following day. July 8th, the young were almost full fledged and had left the feather-lined cavity and were huddled together in a corner of the box. The nest was as clean as before the eggs were laid.

BANK SWALLOW.—April 22nd, a great number were flying over the marsh.

CEDAR WAXWING.—Four were seen perched on the telephone wires beside the breakwater, on June 29th.

NORTHERN SHRIKE.—March 5th, one was seen hunting house sparrows in the willows. He imitated the robin's call and the chatter of a house sparrow quite distinctly.

MIGRANT SHRIKE.—March 29th, one seen in the willows.

BLACK AND WHITE WARBLER.—May 7th, five seen.

YELLOW WARBLER.—First record on May 16th. A nest containing five eggs was found in the willows on June 4th.

MYRTLE WARBLER.—May 5th, one seen; May 7th, seven seen; May 22nd, one seen.

MAGNOLIA WARBLER.—One seen on May 21st and 23rd.

CHESTNUT-SIDED WARBLER.—One seen on May 21st and 22nd.

BAY-BREASTED WARBLER.—One seen in the willows on May 22nd.

BLACKBURNIAN WARBLER.—One seen on May 20th and 24th.

BLACK-THROATED GREEN WARBLER.—May 7th, one seen.

PALM WARBLER.—Two seen in the low willows on the beach.

OVEN BIRD.—One seen from May 16th to 22nd.

NORTHERN YELLOW THROAT.—A few single birds seen from May 8th to 23rd.

CANADIAN WARBLER.—May 26th, one seen.

AMERICAN REDSTART.—Two seen on May 21st and 22nd.

CATBIRD.—May 21st, one seen.

BROWN THRASHER.—One arrived on May 2nd, and remained in the willows on the beach until May 16th.

HOUSE WREN.—April 16th, one seen. A pair seen on May 13th were probably nesting.

LONG-BILLED MARSH WREN.—First record taken on April 30th. They were not numerous until May 11th. Several new nests were found on May 15th, but none were found containing eggs until May 29th.

BROWN CREEPER.—One seen on April 7th and 10th.

GOLDEN-CROWNED KINGLET.—April 7th, one seen; April 15th, a flock of about thirty-five was in the willows.

RUBY-CROWNED KINGLET.—April 30th, two seen in the willows. On May 7th, a flock of twelve arrived and remained two days. May 19th, one seen.

WOOD THRUSH.—May 4th, two seen on the beach. May 16th, two were seen in the willows.

WILSON'S THRUSH.—There were two flights, the first between April 26th and 30th and the second on May 21st and 22nd.

HERMIT THRUSH.—May 7th, two seen; May 22nd, one seen.

AMERICAN ROBIN.—March 24th, two seen. They were numerous in the city a week earlier. The first nest with eggs was found on May 7th.

BLUEBIRD.—April 5th, a pair seen.

COLEOPTERA COLLECTED IN NORTHERN ONTARIO.

BY H. A. AND H. W. WENZEL, PHILADELPHIA, PA.

The following list of species were collected, by the writers, under somewhat unfavorable conditions; a great deal of rain made collecting difficult, especially among the conifers.

The districts visited were: North Bay on Lake Nipissing, a district not favorable for collecting on account of vicinity having been cleared of all timber; Callander, a few miles south on above lake, which has a growth of small pines and other conifers with the usual growth of birches (a good district, especially for Buprestidæ); Scotia Junction and vicinity, which is of interest owing to a variable flora found there and which should give good results at the proper season; Huntsville, and the portage on Lake of Bays. The district back of the steamer landing, North Portage, if collected at the right season, should yield some interesting material. The flora is very variable and of a luxurious growth, more so than at any other place visited.

The data are as follows: North Bay, July 18th; Callander, July 19th and 20th; Scotia Junction, July 21st to 25th, July 28th to 30; Huntsville, July 26th and 27th. C.=Callander; S. Jc.=Scotia Junction; H.=Huntsville.

CICINDELIDÆ.

<i>Cicindela vulgaris</i> Say.....	S. Jc.
" 12-guttata Dej.....	S. Jc.

CARABIDÆ.

<i>Bembidium nitidum</i> Dej.....	S. Jc.
" <i>carinula</i> Chd.....	S. Jc.
" <i>nigrum</i> Say.....	S. Jc.
" <i>ustulatum</i> Linn.....	S. Jc.
" <i>variegatum</i> Say.....	S. Jc.
" <i>quadrimaculatum</i> Linn.....	S. Jc.
<i>Patrobus longicornis</i> Say.....	S. Jc.
<i>Pterostichus adoxus</i> Say.....	H.
<i>Amara arenaria</i> Lec. (?).....	S. Jc.
" <i>pallipes</i> Kirby.....	S. Jc.
" <i>apricarius</i> Payk.....	S. Jc.
" <i>impuncticollis</i> Say.....	S. Jc.
" <i>obesa</i> Say.....	S. Jc.
<i>Calathus impunctata</i> Say.....	S. Jc.
<i>Platynus sinuatus</i> Dej.....	S. Jc.
" <i>atratus</i> Lec.....	S. Jc.
" <i>fraterculus</i> Lec.....	S. Jc.
" <i>metallescens</i> Lec.....	S. Jc.
" <i>cupripennis</i> Say.....	S. Jc.
" <i>placidus</i> Say.....	S. Jc.
" <i>obsoletus</i> Say.....	S. Jc., H.
" <i>ruficornis</i> Lec.....	H.
<i>Metabletus americanus</i> Dej.....	S. Jc.
<i>Pinacodera platicollis</i> Say.....	S. Jc.
<i>Cymindis unicolor</i> Kirby.....	S. Jc.
" <i>borealis</i> Lec.....	S. Jc.
<i>Chlœnius sericeus</i> Forst.....	S. Jc.
<i>Harpalus herbivagus</i> Say.....	S. Jc.
" <i>rufimanus</i> Lec.....	S. Jc.
<i>Stenolophus con-unctus</i> Say.....	S. Jc.

HALIPLIDÆ.

<i>Haliplus cribrarius</i> Lec.....	S. Jc.
" <i>ruficollis</i> De G.....	S. Jc.
" <i>longulus</i> Lec.....	S. Jc.

DYTISCIDÆ.

<i>Bidessus lacustris</i> Say.....	S. Jc.
<i>Coelambus inæqualis</i> Fab.....	S. Jc.
" <i>dissimilis</i> Harr.....	S. Jc.
<i>Hydroporus undulatus</i> Say.....	S. Jc.
" <i>tristis</i> Payk.....	S. Jc.
" <i>striatopunctatus</i> Melsh.....	S. Jc.
" <i>dijformis</i> Lec.....	S. Jc.
" <i>modestus</i> Aubé.....	S. Jc.
" sp.....	S. Jc.
" sp.....	S. Jc.
<i>Ilybius pleuriticus</i> Lec.....	C., S. Jc.
" <i>angustior</i> Gyll.....	C., S. Jc.
" <i>discedens</i> Sharp.....	C., S. Jc.
<i>Agabus semipunctatus</i> Kirby.....	S. Jc.
" <i>anthracina</i> Mann.....	C., S. Jc.
" <i>morosus</i> Lec. (?).....	S. Jc.
" <i>reticulata</i> Kirby.....	S. Jc.
" <i>erichsoni</i> G. & H.....	S. Jc.
" <i>gagatus</i> Aubé.....	S. Jc.
" <i>confinis</i> Gyll.....	S. Jc.
" sp.....	S. Jc.
<i>Rhantus binotatus</i> Harr.....	C., S. Jc.
<i>Colymbetes sculptilis</i> Harr.....	C., S. Jc.
<i>Hydaticus stagnalis</i> Fab.....	S. Jc.
<i>Dytiscus</i> sp. (female).....	S. Jc.
<i>Acilius fraternus</i> Harr.....	C., S. Jc.
" <i>mediatus</i> Say.....	C., S. Jc.

GYRINIDÆ.

<i>Gyrinus borealis</i> Aubé.....	C.
" <i>picipes</i> Aubé.....	C., S. Jc.
" sp.....	C.

HYDROPHILIDÆ.

<i>Helophorus inquinatus</i> Mann.....	S. Jc.
<i>Hydrochus squamifer</i> Lec.....	S. Jc.
<i>Hydrophilus mixtus</i> Lec.....	S. Jc.
<i>Hydrocharis obtusatus</i> Say.....	S. Jc.
<i>Berosus striatus</i> Say.....	S. Jc.
<i>Philhydrus hamiltoni</i> Horn.....	S. Jc.
<i>Helochares lacustris</i> Lec.....	S. Jc.
" <i>fimbriatus</i> Melsh.....	S. Jc.
<i>Helocombus bifidus</i> Lec.....	C.
<i>Creniphilus digestus</i> Lec.....	S. Jc.
" <i>subcupreus</i> Say.....	S. Jc.
<i>Cercyon hamorrhoidalis</i> Fab.....	S. Jc.

STAPHYLINIDÆ.

<i>Aleochara bimaculata</i> Grav.....	S. Jc.
<i>Quedius peregrinus</i> Grav.....	S. Jc.
<i>Staphylinus violaceus</i> Grav.....	S. Jc.
<i>Stenus croceatus</i> Casey.....	S. Jc.
<i>Tachyporus chrysomelinus</i> Linn.....	S. Jc.

CORYLOPHIDÆ.

<i>Sacium obscurum</i> Lec.....	S. Jc.
<i>Stilbus</i> sp.....	S. Jc. 3

COCCINELLIDÆ.

* <i>Anisosticta strigata</i> Thunb.....	S. Jc.
<i>Hippodamia 13-punctata</i> Linn.....	S. Jc.
" <i>parenthesis</i> Say.....	S. Jc.
<i>Coccinella trifasciata</i> Linn.....	S. Jc., H.
" <i>9-notata</i> Hbst.....	S. Jc., H.
" <i>transversoguttata</i> Fab.....	S. Jc., H.
" <i>monticola</i> Muls.....	S. Jc., H.
<i>Adalia frigida</i> Schn.....	S. Jc., H.
" <i>bipunctata</i> Linn.....	C. S. J., H.
<i>Harmonia hudsonica</i> Cas. (?).....	S. Jc., H.
<i>Anatis ocellata</i> Linn.....	S. Jc.
<i>Hyperaspis bigeminata</i> Rand.....	S. Jc.
" <i>undulata</i> Say.....	S. Jc., H.

COLYDIDÆ.

<i>Cerylon castaneum</i> Say.....	S. Jc.
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CUCUJIDÆ.

<i>Pediacus fuscus</i> Er.....	H.
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CRYPTOPHAGIDÆ.

<i>Antherophagus convexulus</i> Lec.....	S. Jc.
<i>Henobicus serratus</i> Gyll.....	H.
" sp.....	H.

DERMESTIDÆ.

<i>Anthrenus musæorum</i> Linn.....	S. Jc.
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HISTERIDÆ.

<i>Hister depurator</i> Say.....	S. Jc.
" <i>abbreviatus</i> Fab.....	S. Jc.
" <i>sede-omstriatus</i> Say.....	S. Jc.
<i>Saprinus distinguenotus</i> Mars.....	S. Jc.

NITIDULIDÆ.

<i>Epurea truncatella</i> Mann.....	S. Jc.
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LATRIDIIDÆ.

<i>Corticaria dentiger</i> Lec.....	S. Jc.
" <i>villosa</i> Zimm.....	S. Jc.
<i>Melanophthalma distinguenda</i> Com.....	H.

DASCYLLIDÆ.

<i>Prionocyphon discoideus</i> Say.....	S. Jc.
<i>Scirtes tibialis</i> Guer.....	S. Jc.
<i>Cyphon ruficollis</i> Say.....	S. Jc.
" <i>variabilis</i> Thunb.....	S. Jc.
" <i>padi</i> Linn.....	S. Jc.

ELATERIDÆ.

<i>Deltometopus amœnicornis</i> Say.....	C., S. Jc., H.
<i>Dromæolus cylindricollis</i> Say.....	C.
<i>Adelocera obiecta</i> Say. (?).....	C.
" <i>aurorata</i> Lec.....	C.
<i>Cardiophorus</i> sp.....	C.
<i>Cryptohypnus nocturnus</i> Esch.....	S. Jc.
<i>Elater pedalis</i> Germ.....	C., S. Jc.
" <i>mixtus</i> Hbs.....	S. Jc.
" <i>pullus</i> Lec.....	C., S. Jc.
" <i>luctuosus</i> Lec.....	C., H.
" <i>rubricus</i> Say.....	S. Jc.
<i>Megapenthus stigmaticus</i> Lec.....	C., H.
<i>Agriotes limosus</i> Lec.....	S. Jc.
<i>Dolopius lateralis</i> Esch.....	S. Jc., H.
<i>Melanotus</i> sp.....	C.
<i>Limonius æger</i> Lec.....	C.
<i>Athous brightwelli</i> Kirby.....	H.
<i>Corymbites triundulatus</i> Rand.....	C., S. Jc., H.
" <i>propola</i> Lec.....	C.
" <i>hieroglyphicus</i> Say.....	S. Jc.
" <i>nigricornis</i> Panz.....	S. Jc.

BUPRESTIDÆ.

<i>Dicerca prolongata</i> Lec.....	C.
" <i>caudata</i> Lec.....	C.
" <i>tenebrosa</i> Kirby.....	C.
" <i>lugubris</i> Lec.....	C.
<i>Poecilonota cyanipes</i> Say.....	C.
<i>Buprestis maculiventris</i> Say.....	C., S. Jc.
" <i>fasciatus</i> Fab.....	H.
" <i>sulcicollis</i> Lec.....	C.
<i>Melanophita longipes</i> Say.....	H., C., S. Jc.
<i>Chrysobothris trinervia</i> Kirby.....	C.

<i>Chrysobothris scabripennis</i> Lap. & Gory.....	C., S. Jc.
" <i>pusilla</i> Lap. & Gory.....	C.
<i>Agrius olivius</i> Say.....	H.
" <i>anxius</i> Gory.....	C.
" <i>politus</i> Say.....	H.

LAMPYRIDÆ.

<i>Caenia dimidiata</i> Fab.....	S. Jc.
<i>Pyractomena angulata</i> Say.....	S. Jc.
<i>Photuris pennsylvanica</i> De G.....	S. Jc.
<i>Eros canaliculatus</i> Say.....	H., C., S. Jc.
" sp.....	C.
<i>Podabrus diadema</i> Fab.....	C.
" sp.....	C.
<i>Telephorus fraxini</i> Say.....	H., S. Jc.
" <i>rotundicollis</i> Say.....	C.
" <i>rectus</i> Melsh.....	H., S. Jc.
" <i>scitulus</i> Say.....	H., S. Jc.
<i>Lucidota atra</i> Fab.....	S. Jc.

MALACHIDÆ.

<i>Collops tricolor</i> Say.....	S. Jc.
" <i>vittatus</i> Say.....	S. Jc.

CLERIDÆ.

<i>Trichodes nuttali</i> Kirby.....	C., H., S. Jc.
<i>Hydnocera pallipennis</i> Say.....	S. Jc.

PTINIDÆ.

<i>Petalium seriatum</i> Fall.....	H.
<i>Dorcatoma dresdensis</i> Herbst.....	S. Jc.

SCARABÆIDÆ.

<i>Onthophagus hecate</i> Panz.....	C., S. Jc., H.
<i>Aphodius fossor</i> Linn.....	H.
" <i>fimetarius</i> Linn.....	S. Jc.
" <i>ruricola</i> Melsh.....	S. Jc., H.
" <i>granarius</i> Linn.....	S. Jc., H.
" <i>vittatus</i> Say.....	S. Jc., H.
" <i>lentus</i> Horn.....	S. Jc.
" <i>leopardus</i> Horn.....	S. Jc.
<i>Dichelonycha elongata</i> Fab.....	C.
" <i>subvittata</i> Lec.....	H.
<i>Trichius piger</i> Fab.....	S. Jc.

CERAMBYCIDÆ.

<i>Tragosoma harrisii</i> Lec.....	C.
<i>Asemum atrum</i> Esch.....	C.

<i>Clytanthus ruricola</i> Oliv.....	C., S. Jc.
<i>Typocerus sparsus</i> Lec.....	C.
" <i>velutinus</i> Oliv.....	S. Jc.
<i>Leptura subhamata</i> Rand.....	S. Jc.
" <i>nigrella</i> Say.....	S. Jc.
" <i>canadensis</i> Fab.....	S. Jc.
" <i>vagans</i> Oliv.....	S. Jc.
" <i>chrysocoma</i> Kirby.....	S. Jc.
" <i>proxima</i> Say.....	S. Jc.
" <i>vittata</i> Germ.....	S. Jc.
<i>Monohammus scutellatus</i> Say.....	C.
<i>Graphisurus pusillus</i> Kirby.....	C.
<i>Pogonocherus mixtus</i> Hald.....	C.
" <i>penicellatus</i> Lec.....	C.
<i>Saperda mæsta</i> Lec.....	C.
<i>Acmæops proteus</i> Kirby.....	C.
" <i>pratensis</i> Laich.....	C.

CHRYSOMELIDÆ.

<i>Zeugophora varians</i> Cr.....	C.
<i>Bassareus mammifer</i> var. <i>sellatus</i> Suffr.....	S. Jc.
<i>Cryptocephalus quadruplex</i> Newm.....	S. Jc.
<i>Monachus saponatus</i> Fab.....	S. Jc.
<i>Diachus auratus</i> Fab.....	S. Jc.
<i>Pachybrachys atomarius</i> Melsh.....	S. Jc.
" <i>hepaticus</i> Melsh.....	S. Jc.
<i>Adoxus obscurus</i> var. <i>vitis</i> Linn.....	C.
<i>Phyllodecta vulgatissima</i> Linn.....	C.
<i>Galerucella tuberculata</i> Say.....	H.
<i>Haltica bimarginatus</i> Say.....	S. Jc.
<i>Crepidodera helvines</i> Linn.....	H.
<i>Systema frontalis</i> Fab.....	S. Jc.
<i>Odontota rubra</i> Web.....	S. Jc.
<i>Charistena nigrita</i> Oliv.....	C.
<i>Chrysochus auratus</i> Fab.....	S. Jc.
<i>Chrysomela bigsbyana</i> Kirby.....	H.

TENEBRIONIDÆ.

<i>Blapstinus metallicus</i> Fab.....	H.
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CISTELIDÆ.

<i>Hymenorus niger</i> Melsh.....	C., H., S. Jc.
<i>Isomira</i> sp.....	C., H., S. Jc.
<i>Androchirus erythropus</i> Kirby.....	S. Jc.

LAGRIIDÆ.

<i>Arthromacra ænea</i> Say.....	H.
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MELANDRYIDÆ.

<i>Synchroa punctata</i> Newm.....	C.
<i>Scotochroa basalis</i> Lec.....	C., H., S. Je.
<i>Serropalpus barbatus</i> Schall.....	S. Je.
<i>Symphora rugosa</i> Hald.....	C.
<i>Canifa plagiata</i> Melsh.....	H.
" <i>pusilla</i> Hald.....	H.

PYTHIDÆ.

<i>Salpingus virescens</i> Lec.....	C., H., S. Je.
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MORDELLIDÆ.

<i>Anaspis rufa</i> Say.....	S. Je.
<i>Mordella metæna</i> Germ.....	S. Je.
" <i>marginata</i> Melsh.....	S. Je.
" <i>lunulata</i> Helm.....	S. Je.
<i>Mordellistena ptyptera</i> Lec.....	S. Je.

ANTHICIDÆ.

<i>Notoxus anchora</i> Hentz.....	S. Je.
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PYROCHROIDÆ.

<i>Dendroides canadensis</i> Lat.....	C.
" <i>concolor</i> Newm.....	C.

MELOIDÆ.

<i>Macrobasis unicolor</i> Kirby.....	S. Je.
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RHYNCHITIDÆ.

<i>Rhynchites cyanellus</i> Lec.....	H.
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OTIORHYNCHIDÆ.

<i>Otiorhynchus ovatus</i> Linn.....	S. Je.
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CURCULIONIDÆ.

<i>Apion walshii</i> Smith.....	S. Je., H.
<i>Phytonomus nigrirostris</i> Fab.....	C.
<i>Lepyryus colon</i> Linn.....	C.
<i>Macrops</i> sp.....	C., S. Je.
<i>Pissodes strobi</i> Peck.....	C.
" <i>affinis</i> Rand.....	C.
" <i>dubius</i> Rand.....	S. Je.
" sp.....	C., S. Je.
<i>Hylobius confusus</i> Kirby.....	C.
<i>Hypomolyx pincti</i> Fab.....	H., S. Je.
<i>Dorytomus laticollis</i> Lec.....	C.
" <i>brevicollis</i> Lec.....	C.

<i>Magdalis lecontei</i> Horn.....	C.
" <i>barbita</i> Say.....	S. Jc.
" <i>hispidoides</i> Lec.....	S. Jc., H.
" <i>inconspicua</i> Horn.....	H.
" <i>pallida</i> Say.....	C.
" sp.....	S. Jc.
<i>Anthonomus scutellatus</i> Gyll.....	C.
" <i>signatus</i> Say.....	H.
" <i>corvulus</i> Lec.....	C.
<i>Orchestes pallicornis</i> Say.....	C.
" <i>parvicollis</i> Lec.....	C.
" <i>niger</i> Horn.....	H.
" <i>ephippiatus</i> Say.....	C.
<i>Elleschus bipunctatus</i> Linn.....	H.
<i>Encalus decepiens</i> Lec.....	C.
<i>Acanthoselles acephalus</i> Say.....	S. Jc.
" <i>epilobii</i> Payk.....	S. Jc.
<i>Rhinoncus pyrrhopus</i> Lec.....	S. Jc.
<i>Limnobaris rectirostris</i> Lec.....	C.
<i>Balaninus obtusus</i> Blanch.....	H.

CALANDRIDÆ.

<i>Rhyncholus</i> sp.....	S. Jc.
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SCOLYTIDÆ.

<i>Gnathotrichus materiarius</i> Fitch.....	C.
<i>Ptyophthorus cariniceps</i> Lec.....	C., S. Jc.
" sp.....	S. Jc.
<i>Xyloterus bincatus</i> Oliv.....	C.
<i>Xylocleptes decepiens</i> Lec.....	C.
<i>Tomicus caelatus</i> Eich.....	C.
" <i>pini</i> Say.....	C.
<i>Dryocoetes septentrionis</i> Mann.....	S. Jc.
<i>Scolytus</i> sp.....	C.
<i>Polygraphus rufipennis</i> Kirby.....	S. Jc.
<i>Phloeosinus</i> sp.....	S. Jc.
<i>Hylurgops glabratus</i> Zett.....	C.

ANTHRIBIDÆ.

<i>Hormiscus saltator</i> Lec.....	S. Jc.
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