

**LIST OF NORTH
AMERICAN
CICINDELIDAE IN
THE HARRIS COLLECTION**

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List of North American Cicindelidae in the Harris Collection by Edward Doubleday Harris

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EDWARD DOUBLEDAY HARRIS

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AMERICAN
CICINDELIDAE IN
THE HARRIS COLLECTION**

°
E. D. Harris

LIST

OF

NORTH AMERICAN

CICINDELIDÆ

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HARRIS COLLECTION

1911

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London

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INTRODUCTION

The chief purpose in this compilation has been to place before students of the group, as well as those interested in the general subject of distribution, a reliable index, as specific as possible, of localities known to be inhabited by the several forms represented in the Collection.

The formation of the Collection of which this List is a part, was commenced in the year 1892, and has been continued without interruption to the present time. The forms included in the List are those inhabiting the North American continent north of Honduras, so far as they are now represented in the Collection. The aim has been the accumulation of series in each species over its geographical range, that such divergencies from the type, if any, as have appeared, may be studied in relation to the localities where they have occurred.

The larger portion of the Cicindelidae in the cabinet of Mr. C. H. Roberts was added to this Collection in 1904, and through this channel came most of the specimens bearing the Julich label. The native and exotic Cicindelidae of Mr. August Luetgens were added in 1908; these included a large number from the Schaupp cabinet, as well as many Mexican forms from Hoege and Bates. The smaller collections of Messrs. D. E. Lantz and G. H. Pilate have been more recently acquired, the latter too late for enumeration herein except of such forms as occur in their sequence in the latter pages of the List.

The arrangement adopted follows, in the main, that of Dr. Walther Horn's *Systematischer Index* (Berlin, Feb. 1905), with such departures therefrom as have been suggested by studies of long series in connection with their distribution. The separation of species into sub-species,

varieties, and aberrant forms, has been induced in some measure by consideration of the geographical distribution of the species in question so far as they are represented in the material of the Collection. The introduction of new varietal names has been generally avoided, but in the few cases where the rule has been deviated from, it has been for convenience in designating local races that it seemed desirable to separate. A few of our northern forms of the check-lists, as *striga*, *nevadica* and *viridisticta* in *Cicindela*, and *submetallicus* and *ambiguus* in *Omus*, with a number of Mexican forms indicated in the Horn Index, are unfortunately missing from the Collection; on the other hand, its long series in many of the species undoubtedly include variant forms that will in time be recognized as races, and bear distinctive designations.

Many of the older specimens coming into the Collection from cabinets of well known entomologists of an earlier generation, and consequently possessing some historic interest, unfortunately lack place-labels other than of the State, and are without dates of capture, faults, it is needless to say, collectors of the present day most happily avoid.

When known, the name of the field collector is given in the right-hand column of the List; in other instances the source from which the specimens were derived is substituted. The mark * is used to indicate such field captures as have been made by the writer in person.

It is to be understood that the matter of the foot-notes relates only to the material of the Collection.

The sign || used in connection with the nomenclature indicates pre-occupation, and † erroneous citation.

EDWARD DOUBLEDAY HARRIS.

Yonkers, N. Y.

Feb. 1911.

CICINDELA, L.

| | | | |
|--------------------|------------------------|-----------|----------------|
| <i>formosa</i> Say | | | |
| Iowa | Council Bluffs | May-July | Shoemaker |
| Nebraska | Sand Hills | May | Wolcott |
| | | July | Luetgens Coll. |
| | Lincoln | April | Wolcott |
| | Dewey Lake, Cherry co. | June | Wolcott |
| | Benkelman | June | Lantz |
| Kansas | | | Sherman |
| | | | Luetgens Coll. |
| | Medora | May, June | Knaus |
| | Topeka | Sept. | Wickham |
| | Manhattan | June | Lantz |
| | Ellis co. | Sept. | Lantz |
| | Dodge City | Sept. | Lantz |
| | Grainfield | Sept. | Lantz |
| | Lakin | June | Lantz |
| | Oakley | Sept. | Lantz |
| Texas | | | Julich Coll. |
| | | | Leng |
| Idaho | | | Roberts Coll. |
| Colorado | | | Roberts Coll. |
| | | | Luetgens Coll. |
| | Denver | June | Wickham |
| | Berkeley | | Oslar |
| | Salida | July | Wickham |
| | Canon City | | Wickham |
| | Clear Creek | | Oslar |

Formosa specimens, in color, are extremely constant, varying but slightly in intensity of coppery hue, the only exception being in an occasional individual where head and thorax are suffused with green. In character and extent of maculation there are divergencies, apparently not influenced by local conditions. Frequently the middle band is only slightly sinuate, almost transverse. In the other extreme the band is deflected squarely at the middle, thence extended laterally and sharply hamate at the extremity, very broad through its entirety, in all respects identical with that of the broadly marked form of *generosa*, with which such specimens would naturally be placed, save for the fact that their occurrence is frequent with the type, and not confined to any locality.

| | | | |
|---|--------------------|-----------------|----------------|
| subsp. generosa Dej., latecincta Lec. Dej. i. l. | | | |
| New Hmp. | Fitzwilliam | July | * |
| Mass. | Ballardvale | May | Frost |
| | Lexington | May | Frost |
| Conn't | Washington | Aug. | * |
| | Wallingford | Sept. | * |
| New York | | June | Luetgens Coll. |
| | Aqueduct, L. I. | June, Sept. | * |
| | Springfield, L. I. | Sept. | * |
| | Quogue, L. I. | Sept. | * |
| | New York City | | Julich Coll. |
| | Yonkers | July | * |
| | Staten Is. | May, Aug. | W. T. Davis |
| | Ballston | June | * |
| | Hoosick | June | * |
| | Elizabethtown | Aug. | * |
| | Bloody Pond | Sept. | * |
| New Jersey | | | Schaupp Coll. |
| | | | Luetgens Coll. |
| | Lakewood | June | * |
| | Manchester | Apr-June, Sept. | * |
| | Point Pleasant | Sept. | * |
| | Brookville | Sept. | * |
| | East Plains | Sept. | * |
| Ohio | Cincinnati | June | Dury |
| aber. with interrupted markings | | | |
| New Jersey | Lakewood | June | * |
| | Manchester | May | * |
| form with broad markings approaching formosa | | | |
| W. Virginia | Pineville | Sept. | Leng |
| Iowa | Iowa City | May, Sept. | Wickham |
| Kansas | Topeka | May, Sept. | Smyth |
| var. manitoba Leng | | | |
| Manitoba, Dominion of Canada | | | |
| | Aweme | June-Sept. | Criddle |

Generosa is separable readily into three geographical races. The first of these is the form generally occurring in the North-eastern States. The middle band is inclined forward from the margin (not at right angles with it), rectangularly bent at the middle of the elytron width, prolonged laterally, and usually sharply hamate at the posterior extremity. The second, occurring in the North-middle States, has the middle band connected by a right angle with the margin (not inclined forward as in the first), more obtusely bent at the middle and less prolonged than in the first, and all the markings broader. Many specimens of this form are hardly to be separated in the character of the maculation from *formosa*, while its marked tendency towards the *manitoba* variety, in a series, is obvious. It is apparent that both of these forms were intended to be covered by Dejean's description, and by the text and figures in Le Conte's Revision (1856). No mention is made in the text of either writer of the difference in the directional line of the entering portion of the middle band between *formosa* and the eastern form of *generosa*, but Le Conte's figures of the two make the difference plain. Leng's figure (Revision, 1902) is of the North-eastern form of *generosa*, and the forward

Lengi W. Horn, venusta || Lec.

| | | | |
|-----------------------|----------------|------------|--------------------------------|
| Manitoba, Dom. Canada | Aweme | Apr.-Oct. | Criddle |
| Dakota | | | Schaupp Coll. |
| Nebraska | Benkelman | May, June | Lantz Julich Coll. |
| Kansas | Medora | May | Knaus |
| | Hamilton co. | May | Knaus |
| | Grainfield | May, Sept. | Lantz |
| | Ellis co. | Oct. | Lantz |
| Colorado | | | Julich Coll. Luetgens Coll. |
| | Denver | June | Wickham |
| | Berkeley | Apr. | Knaus |
| | Clear Creek | | Oslar |
| | Grand Junction | | Julich Coll. |
| New Mex. | | | Schaupp Coll. |

limbata Say., limbigera Gem. et Har.

| | | | |
|---------------------|-------------------|-----------|-----------------------|
| Manitoba, Dom. Can. | Douglas | June | Hanham |
| | Aweme | June-Aug. | Criddle |
| Nebraska | Box Butte | Sept. | Luetgens Col. |
| | Chase co. | May | Knaus |
| | | June | Wickham |
| | Imperial | May | Knaus |
| | Frenchman's River | May | Wickham |
| | Halsey | July | Shoemaker |
| | Benkelman | June | Lantz |
| Colorado | Wray | May, June | Julich Coll. Lantz |

hyperborea Lec.

Dom. Can. James Bay Skinner

inclination of the middle band is given its proper value. Schaupp (Synopsis, 1884) figures both forms, emphasizing the difference in the middle band.

An aberrant form of *generosa* with interrupted markings has been very rarely taken in the pine barren district of New Jersey in company with the type. The markings are a slender humeral lunule, the middle band represented by its marginal limb and hamate posterior extremity, and full apical lunule. The marginal line is interrupted, not reaching either humeral or apical lunule. This form simply illustrates a tendency towards an immaculate, which thus far has not been reported.

Manitoba, the third race, reported, as yet, only from Aweme, represented by series, the extremely marked individuals on the one hand with maculation so broad and confluent that more than half of the elytra is white, and on the other hand strongly suggestive of a close affinity, both with *formosa* and the broadly-marked race last described.

Limbata from Manitoba are of dull cupreous brown, the white markings so extended and confluent that nothing remains of the elytron color but the sutural line, wider towards the front, and with a curved post-middle dash. In the Nebraska specimens the color is bright cupreous or green and blue in all shades, the white markings not as extended as in the Manitoba, frequently a broad apical lunule being fully recognizable.