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# SYNOPSIS OF THE AMERICAN SPECIES OF VOLUCELLA (SYRPHIDAE; DIPTERA)

### By C. H. CURRAN

#### PART I.—TABLE OF SPECIES

The genus Volucella Geoffroy is particularly rich in species in the Neotropical region and almost every collection of Syrphidae from the region contains new forms. Since the publication of the key in 1934<sup>1</sup> a number of new species have been described, some previously described species have been identified and many new ones have been received. As a result of the many additions to the Museum collection it has been possible to revise certain species groups which were previously ignored because of lack of material.

Some of the species groups are fairly well differentiated from the remaining species in the genus but there does not seem to be any way of definitely separating them on a generic basis. The presence or absence of scutellar depressions is not a satisfactory character since certain species occur which show traces of a depression while others that normally have a well-marked depression may show only a weak one in certain individuals The picta group is rather well marked, having the marginal cell bulbous apically and usually with a characteristic wing pattern, but this condition is approached by a number of species that obviously do not belong with picta. This group also has the lower rays of the arista much shorter than the upper.

In two or three species groups, including a large number of the smaller species, there exists a condition that is liable to cause a great deal of confusion. This has to do with the pale coloration. In life many of these species have greenish (not metallic) pale markings and their appearance is quite different from old specimens. The green color usually disappears in time,

<sup>1</sup> Bull. Amer. Mus. Nat. History, LXVI, p. 379.

being replaced by reddish or yellowish, so that specimens described as having green face or other markings may eventually be found to have reddish or yellowish markings. The same variation exists in life, freshly hatched specimens being quite green, while older ones may show the reddish or yellow color that is typical of specimens that have been kept in collections for many years. The metallic green colors do not fade.

In the preparation of the key it has been necessary to omit almost all species not represented by specimens in the collection, due to the fact that the descriptions often omit characters essential in the preparation of a key.

The Museum is indebted to all who have contributed specimens of *Volucella*, and especially to Drs. C. L. Fluke and Harvey Bassler for the large amount of material donated. The types are all in the Museum collection.

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TABLE OF SPECIES
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Coxae black piloseruralis, new species.	

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.. pressed roughened areas......23.

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44.—Cheeks wholly reddish	Mesonotum usually mostly greenis
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	abdominal segment usually yellow wit
<u> </u>	black apex and median vitta; if prescu
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whole length; the apical veins broadly	
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inconsistens, new species.	reddish
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Mesonotum yellow, broadly black in front	Wings rather yellowish, with a conspicu
and in the middle. corumbensis Curran.	ous brown spot on the apical fourth if front and the veins clouded wit
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Without clearly differentiated pair of	62.—Pleura almost all pale pilose
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Legs reddishspinigera Wiedemann.	ferentiated; pleura wholly black pilos
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	The second secon
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pognicinos usuant targety yenem	

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= -	· · · · · · · · · · · · · · · · · · ·

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