SYNOPSIS OF NORTH AMERICAN CICADIDAE.

BY CHARLES WILLIAM WOODWORTH, CAMBRIDGE, MASS.

The following synopsis will enable one to easily distinguish our North American species.

GENER

A. Second abdominal segment of the male expanded and partly or wholly concealing the tympanum.

B. Side margins of the thorax expanded horizontally. Zammara.

BB. Side margins of the thorax not horizontal; hardly expanded.

C. First apical crossvein oblique.

D. Basal cell of anterior wing less than twice as long as broad. Cicada.

DD. Basal cell of anterior wing twice as long as broad. Tetligia.

CC. First apical crossvein forming right angles with the principal veins. Proarna.

AA. Second abdominal segment of the male not expanded. Tympanum free or wanting.

E. Ulnar veins separate and distinct at base.

F. Tympanum present Tibicen.

FF. Tympanum wanting, wings rather shorter and broader than usual, cells wide.—Platypedia.

EE. Ulnar veins united at base. Melampsalta.

SPECIES.

Zammara Am. & Serv.

smaragdina Walker.

angulosa Walker.

San Diego, California; also Mexico.

Cicada Linn.

a. Opercles rounded behind in both sexes.

b. Wings unclouded except at the crossveins.

c. A median dorsal row of white spots on the abdomen above. dorsata.

c. No dorsal white spots on the abdomen.

d. Male genitals broad, median dorsal spine generally short, blunt, or wanting. Anterior prothoracic spots generally separated from the others. marginata.

dd. Male genitals narrow, median dorsal spine generally large and acute. Anterior prothoracic spots always united with the others. All generally forming a broad V-shaped spot. tibicen.
bb. Wings clouded at their tips, body green marked with black. _superba._

_aa._ Opercles white, pointed behind in both sexes. _albipennis._

dorsata Say.
_robertsoni_ Fitch.
On the prairies, Illinois to Texas.
_marginata_ Say.

_aurifera_ Say.
_aulectes_ Germar.
_resh_ Haldeman.
_bicostata_ Walker.
New Jersey to Utah, and southward to Mexico.

_tibicen_ Linn.
_opercularis_ Olivier.
_pruinosa_ Say.
_lyricen_ DeGeer.
_canicularis_ Harris.
All the United States east of the Rocky Mountains, and also southward to Brazil.

_superba_ Fitch.
Arkansas, Indian Territory.

_albipennis_ Say.
Arizona.

_Tettigia_ Kol.

_hieroglyphica_ Say.
_characteria_ Germ.
_johannis_ Walk.
osexquitata_ Walk.
New Jersey southward to Mexico.

_Proarna_ Stål.

_championi_ Distant.
Texas, Mexico.

_Tibicen_ Latr.

_a._ Head much narrower than the thorax.

_b._ Expanse of wings 40 mm., markings yellow. _synodica._

_bb._ Expanse of wings 60-70 mm., markings brown or brownish yellow. _rimosa._

_aa._ Head nearly as wide as the prothorax. _septendecim._

_synodica_ Say.
Illinois, Colorado.

_rimosa_ Say.
_hesperina_ Uhler.
_striatapes_ Hald.
_noveboracensis_ Emmons.
_occidentalis_ Walker.
All the northern part of the United States, and in Canada.

_septendecim_ Linn.
_cassini_ Fisher.
_tredecim_ Riley.
Eastern part of U. S. as far north as New York and Michigan, and west to Colorado.

_Platypedia_ Uhler.

_areolata_ Uhler.
_putnami_ Uhler.
Colorado to California.

_Melampsalta_ Kol.

_parvula_ Say
_pallescens_ Germ.
Southern states, as far north as Ga., Ill. and Kansas.