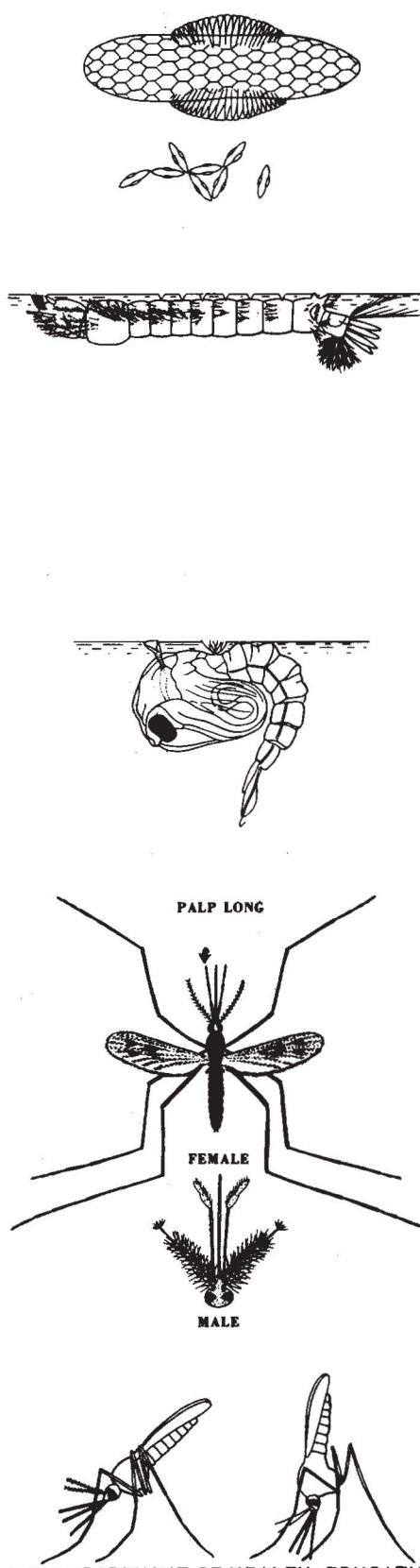
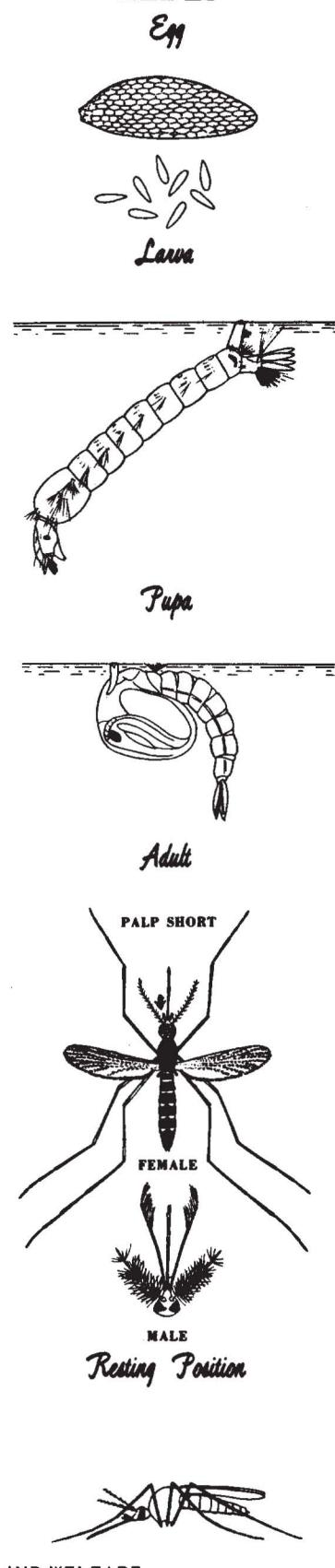


MOSQUITOES: CHARACTERISTICS OF ANOPHELINES AND CULICINES  
Kent S. Littig and Chester J. Stojanovich

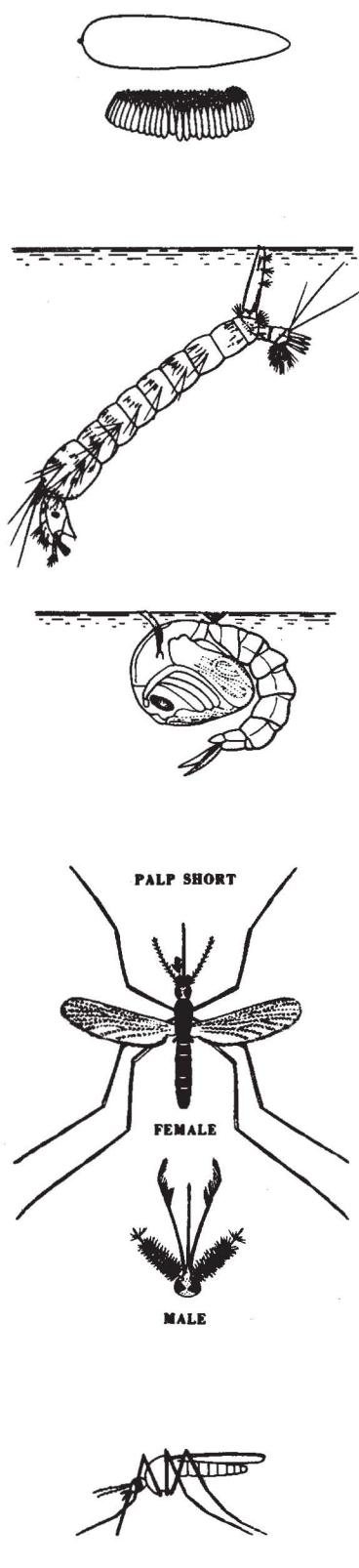
ANOPHELES



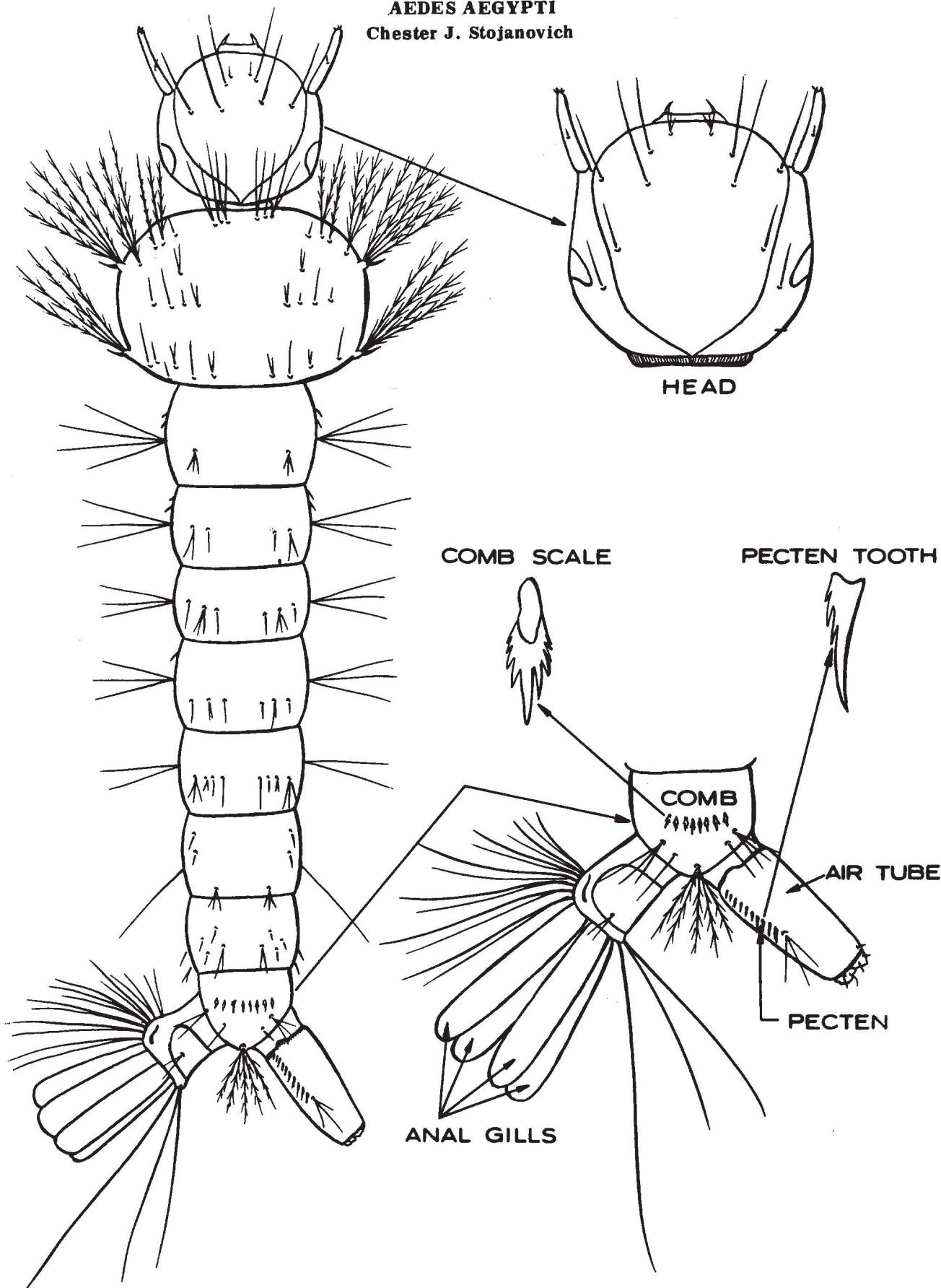
AEDES



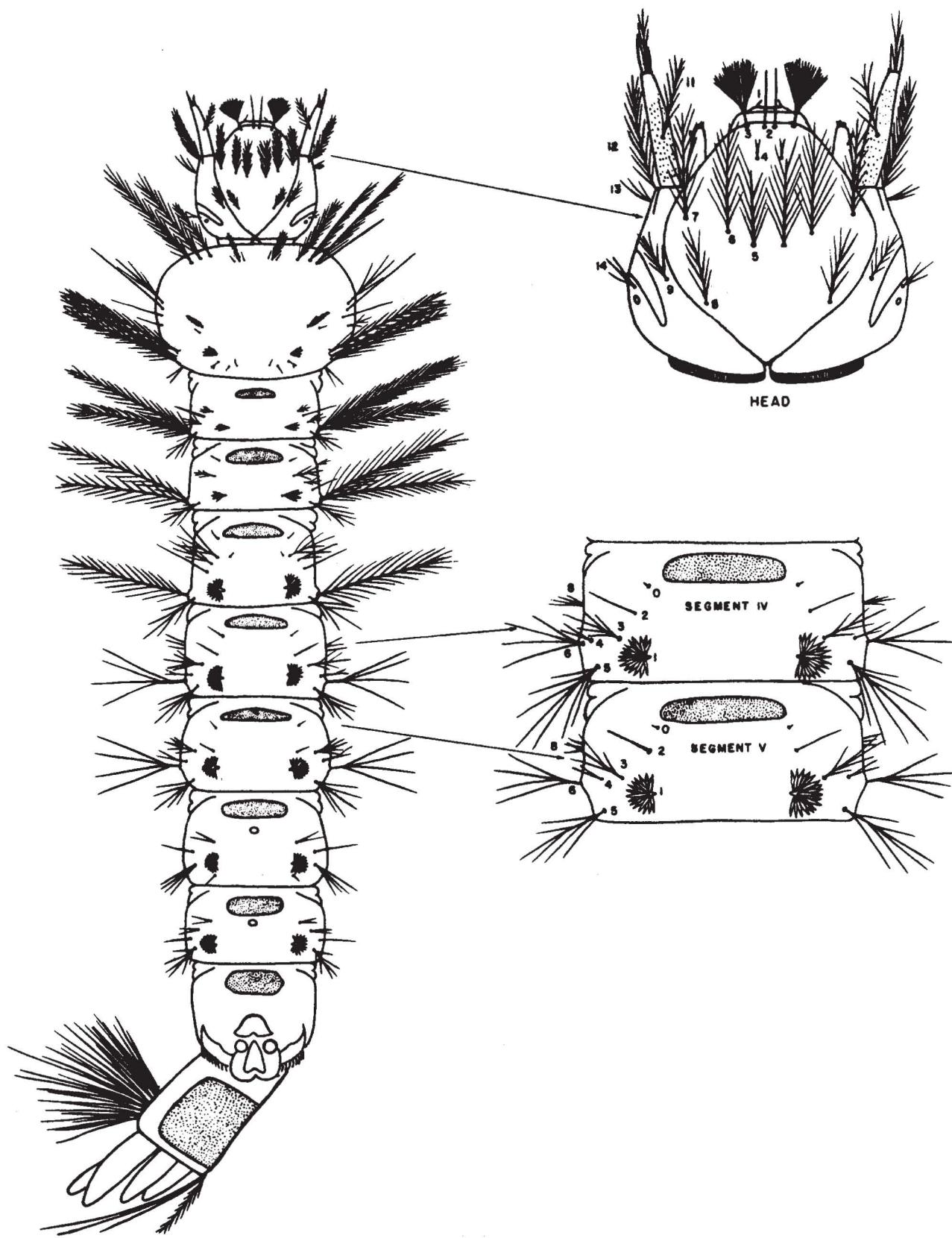
CULEX



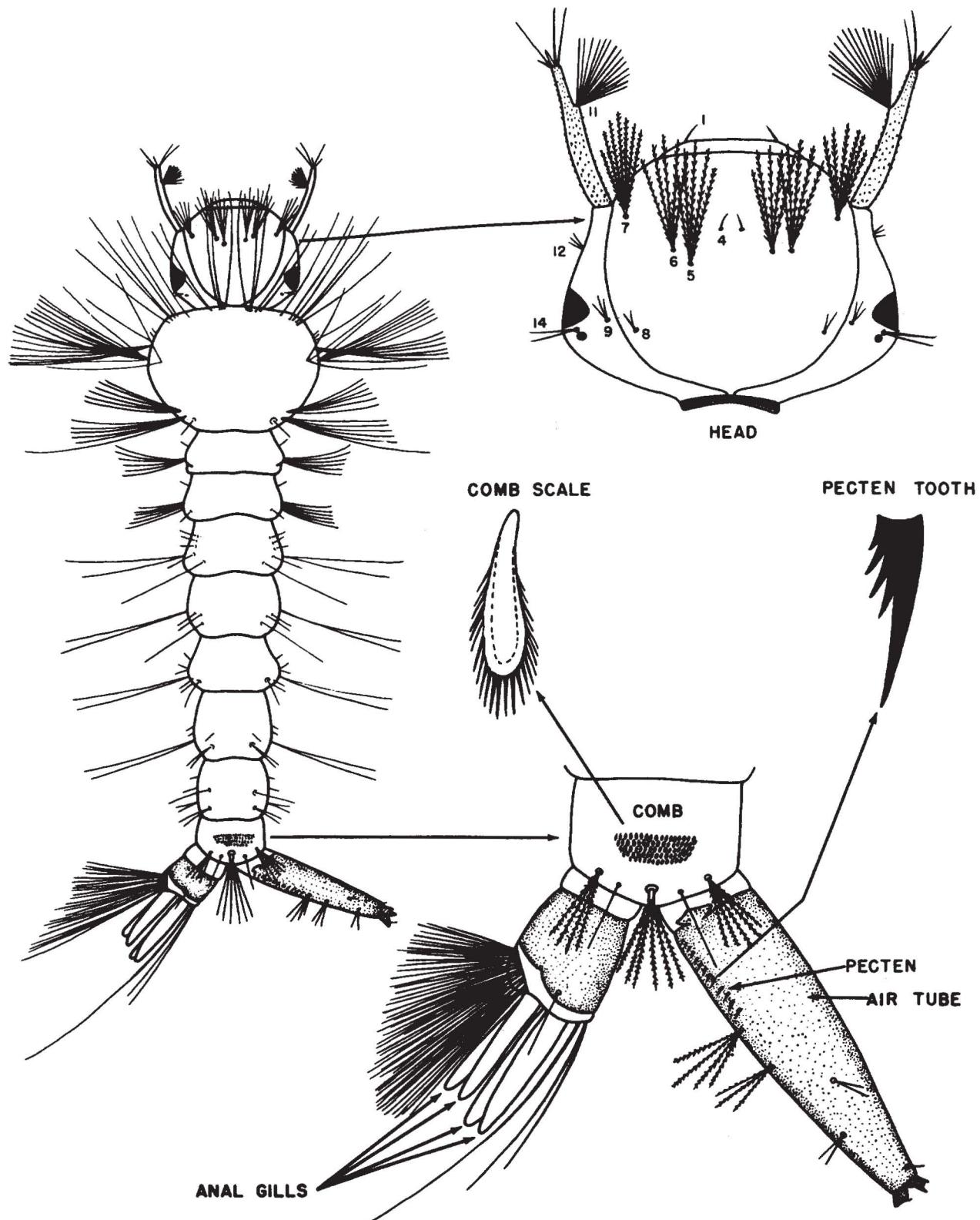
**AEDES AEGYPTI**  
Chester J. Stojanovich



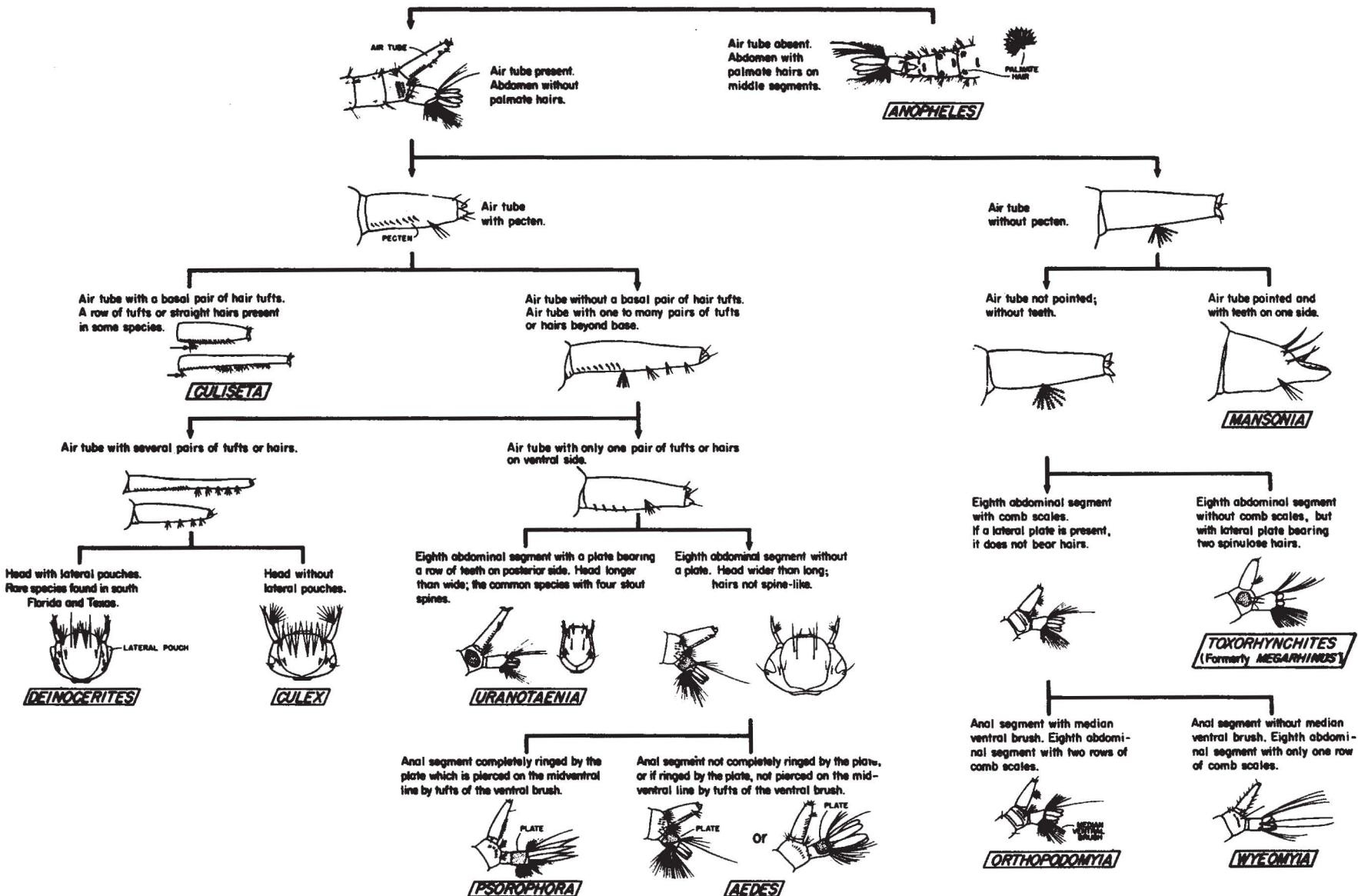
**ANOPHELES QUADRIMACULATUS**  
Harry D. Pratt



CULEX QUINQUEFASCIATUS  
Harry D. Pratt

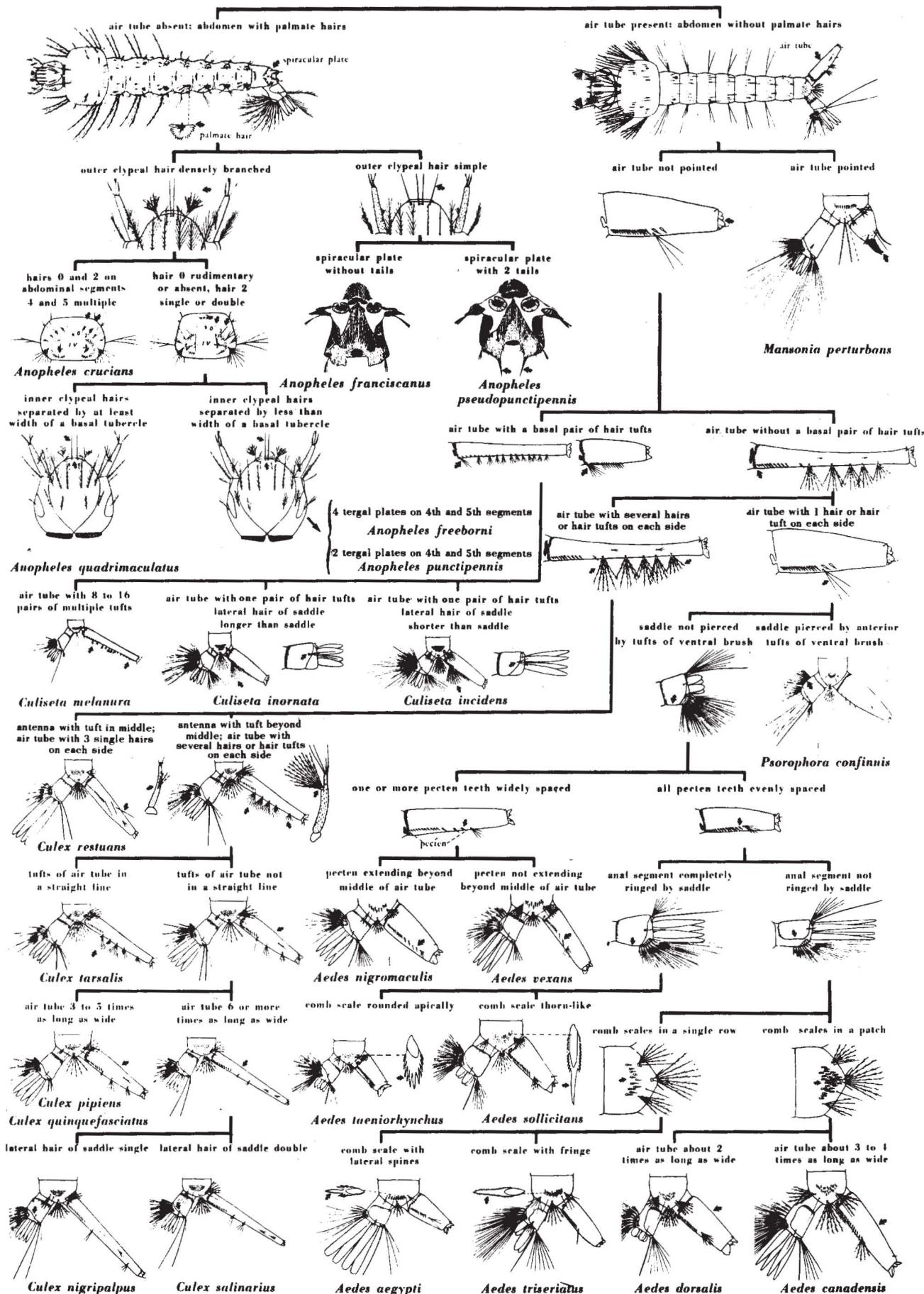


MOSQUITOES: PICTORIAL KEY TO U.S. GENERA OF LARVAE  
Harry D. Pratt

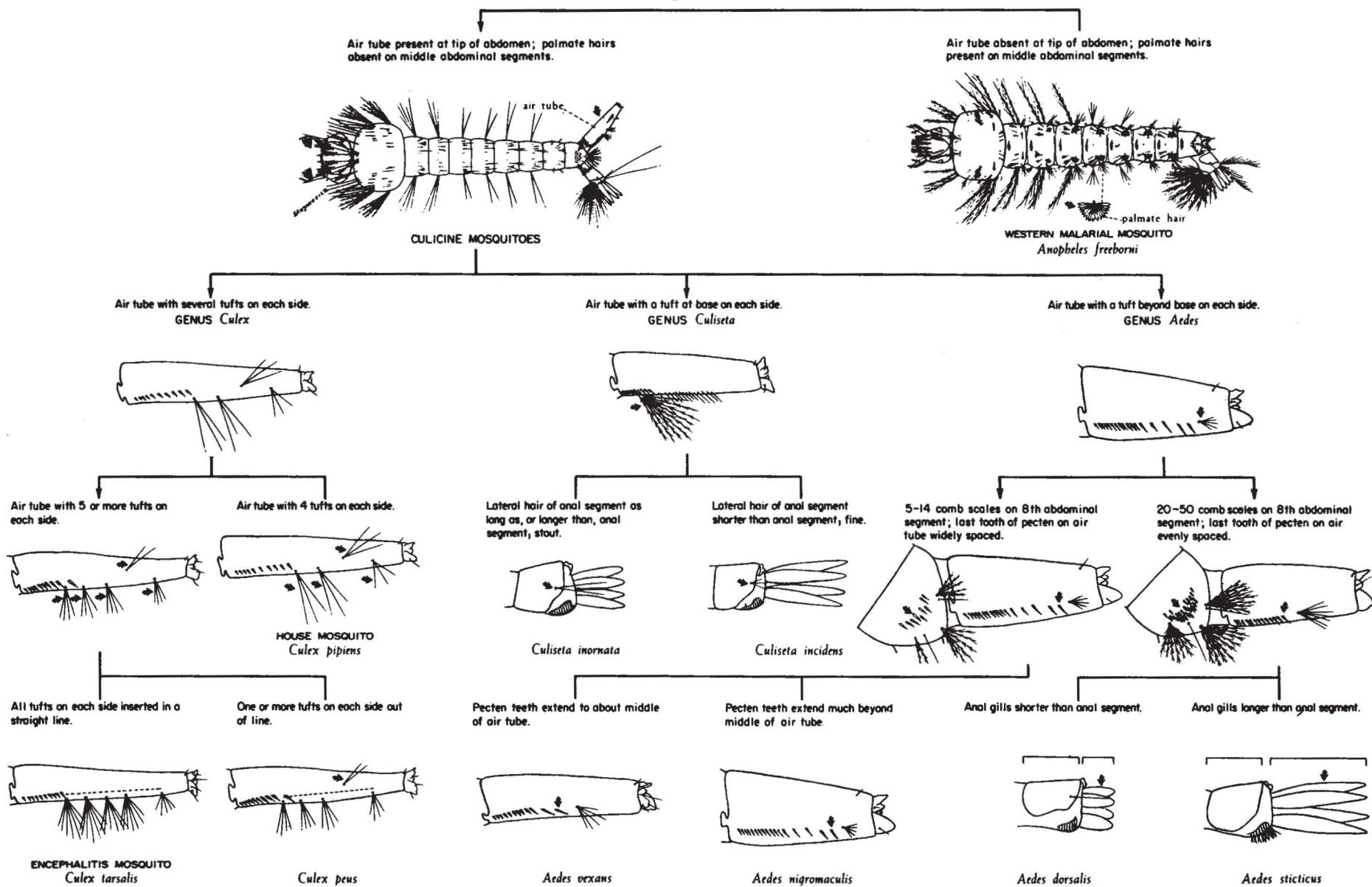


## MOSQUITOES: PICTORIAL KEY TO SOME COMMON LARVAE OF THE UNITED STATES

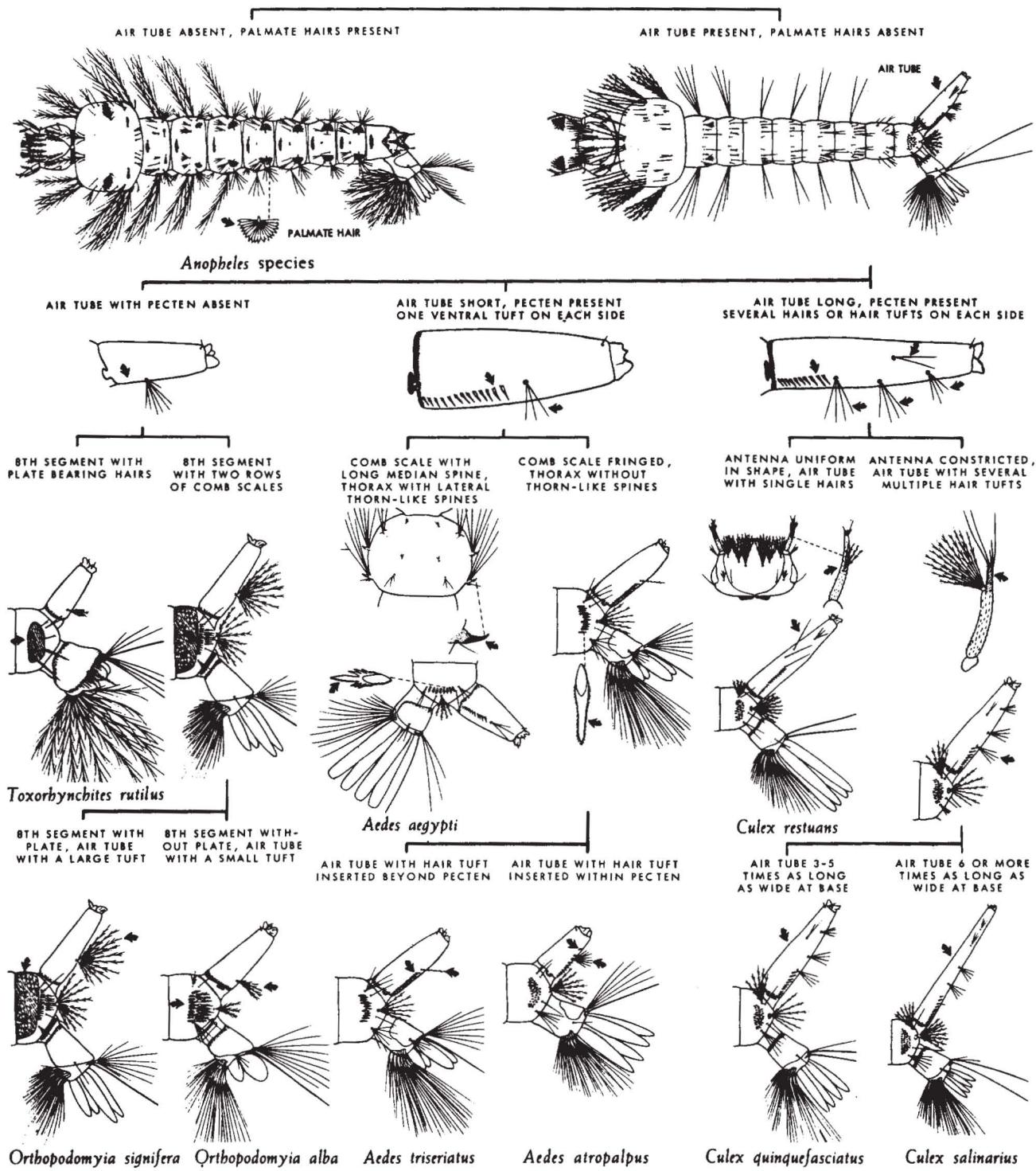
Chester J. Stojanovich and Harry D. Pratt



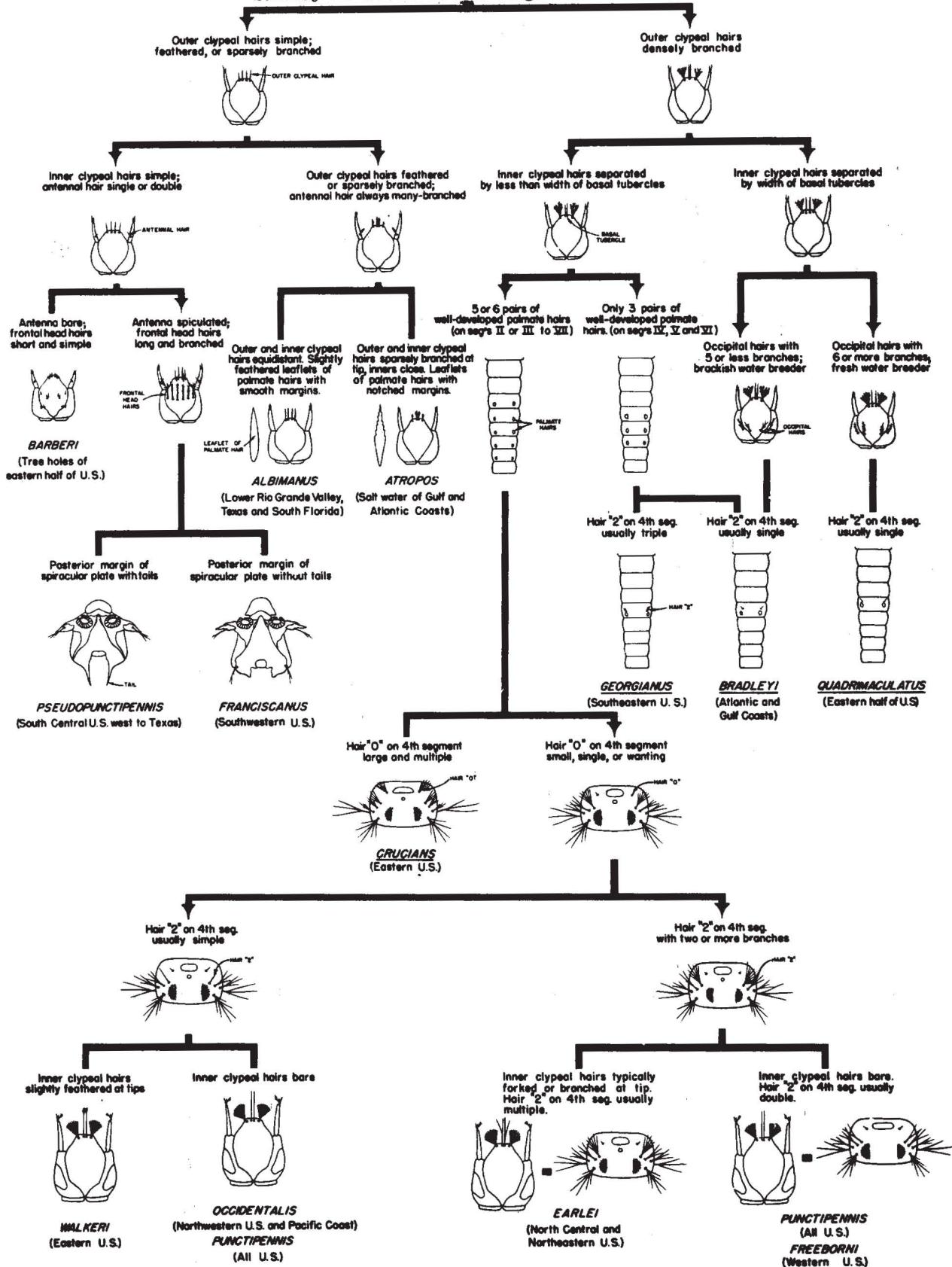
MOSQUITOES: PICTORIAL KEY TO SOME COMMON LARVAE OF WESTERN UNITED STATES  
Harry D. Pratt



MOSQUITOES: PICTORIAL KEY TO SOME LARVAE  
COMMONLY FOUND IN ARTIFICIAL CONTAINERS  
Harry D. Pratt and Chester J. Stojanovich



**MOSQUITOES: PICTORIAL KEY TO ANOPHELINE LARVAE OF THE UNITED STATES**  
Stanley B. Freeborn and Eugene J. Gerberg

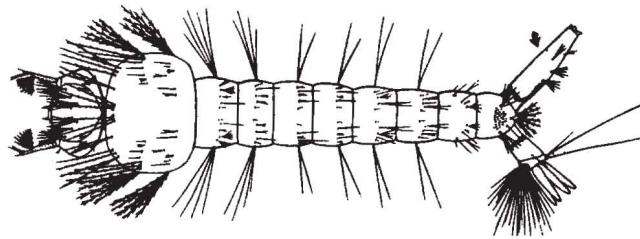
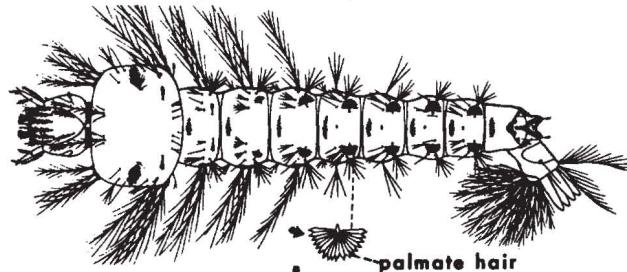


MOSQUITOES: PICTORIAL KEY TO SOME LARVAE OF FLORIDA  
COMMONLY FOUND IN CONTAINERS  
Chester J. Stojanovich and Harry D. Pratt

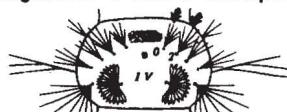
air tube absent; abdomen with palmate hairs

PART I

air tube present; abdomen without palmate hairs

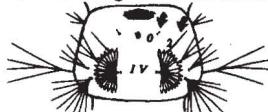


hairs 0 and 2 on abdominal  
segments 4 and 5 multiple

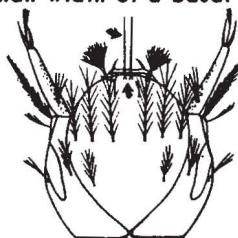


*Anopheles crucians*

hair 0 rudimentary or absent,  
hair 2 single or double

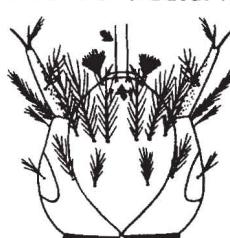


inner clypeal hairs separated by  
less than width of a basal tubercle



*Anopheles punctipennis*

inner clypeal hairs separated by  
at least width of a basal tubercle

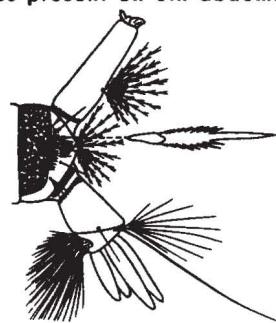


*Anopheles quadrimaculatus*

air tube without pecten



comb scales present on 8th abdominal segment



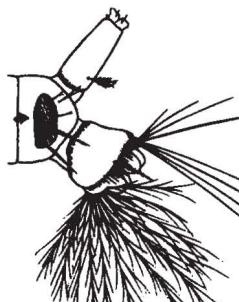
*Orthopodomyia signifera*

air tube with pecten



SEE PART II

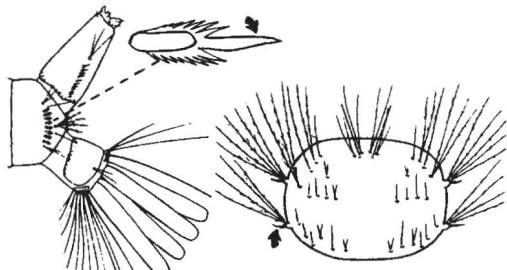
comb scales absent on 8th abdominal segment



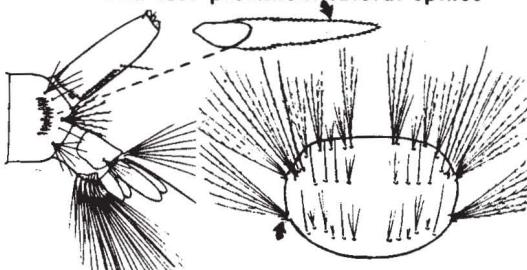
*Toxorhynchites rutilus*

## PART II

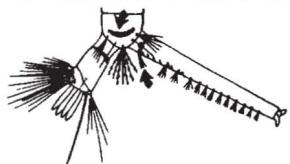
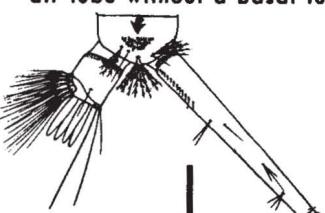
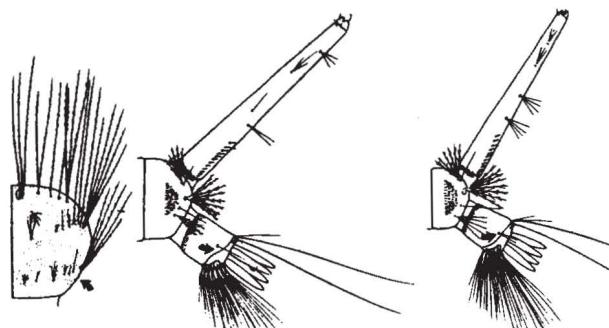
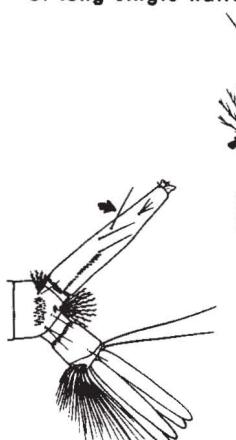
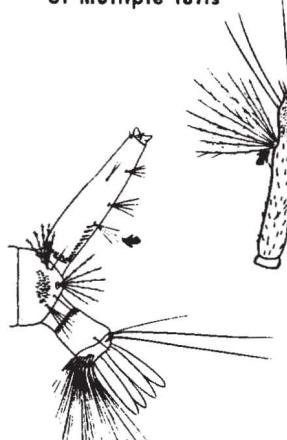
air tube with one hair or tuft on each side

comb scales with a strong median spine,  
thorax with prominent lateral spines*Aedes aegypti*

air tube with several hairs or tufts on each side

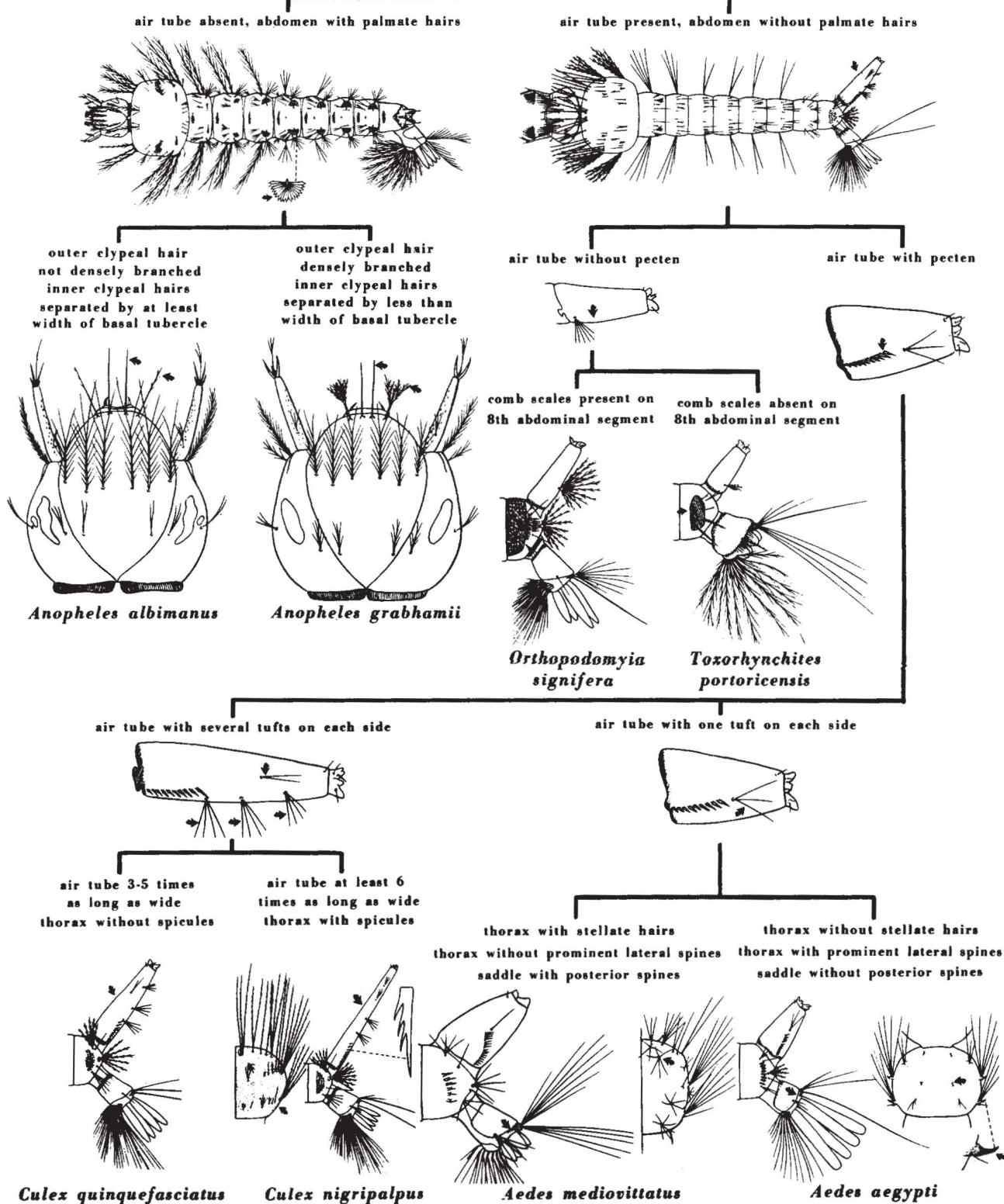
comb scales with a fringe, thorax  
with less prominent lateral spines*Aedes triseriatus*

air tube at least 6 times as long as wide

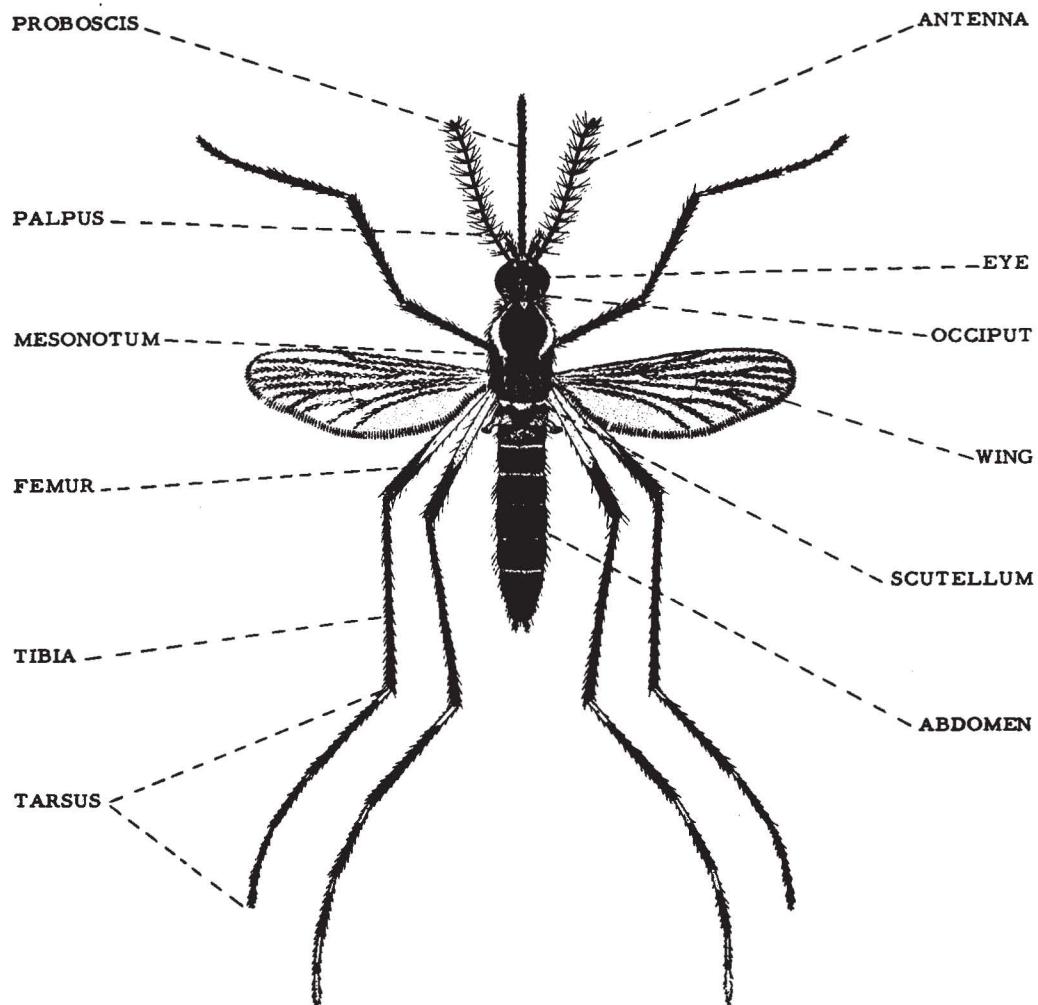
comb scales in a single row  
air tube with a basal tuft*Culiseta melanura*comb scales in a patch,  
air tube without a basal tuftthorax with spicules,  
lateral hair of saddle singlethorax without spicules,  
lateral hair of saddle double*Culex nigripalpus**Culex salinarius*antenna with tuft  
inserted at middle  
air tube with 3 pairs  
of long single hairs*Culex restuans*antenna with tuft  
inserted beyond middle  
air tube with 4 pairs  
of multiple tufts*Culex quinquefasciatus*

MOSQUITOES: PICTORIAL KEY TO SOME COMMON LARVAE OF PUERTO RICO  
FOUND IN CONTAINERS

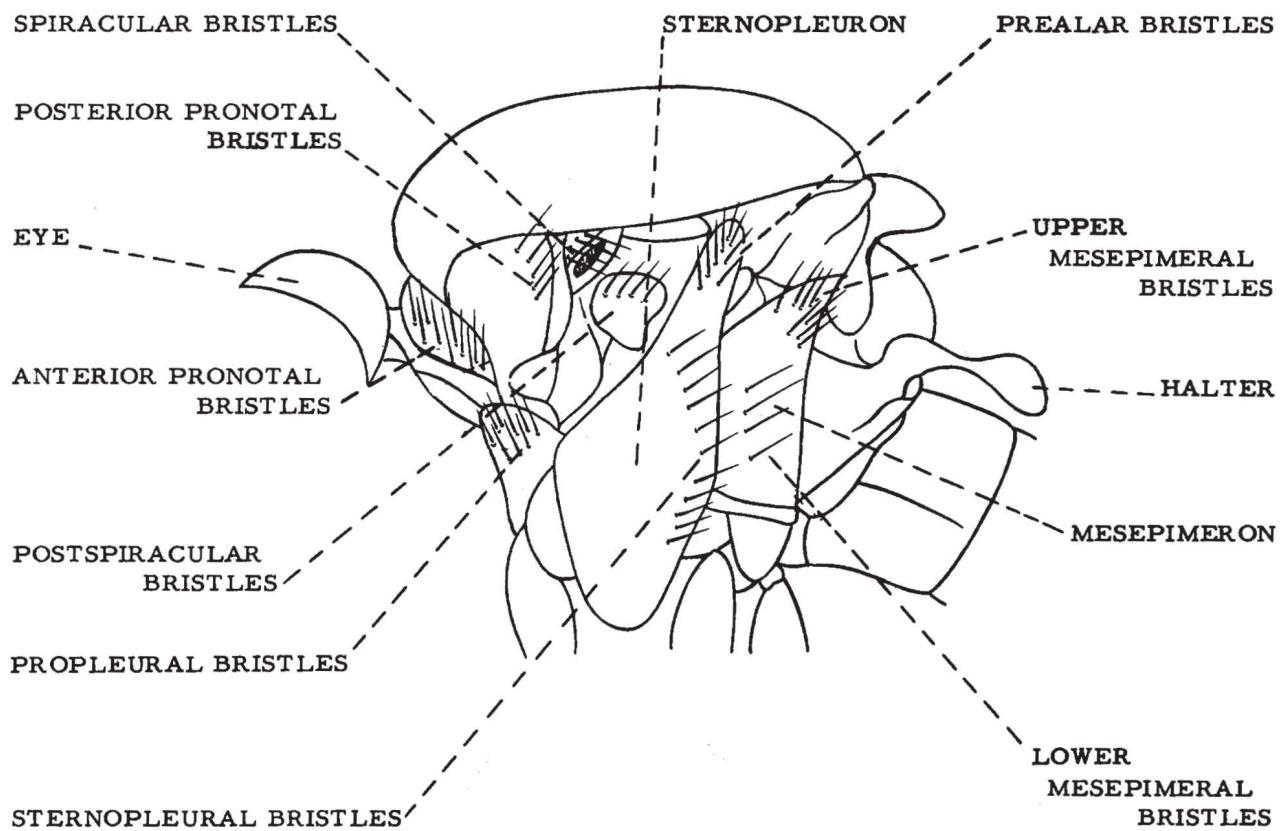
Harry D. Pratt and Chester J. Stojanovich



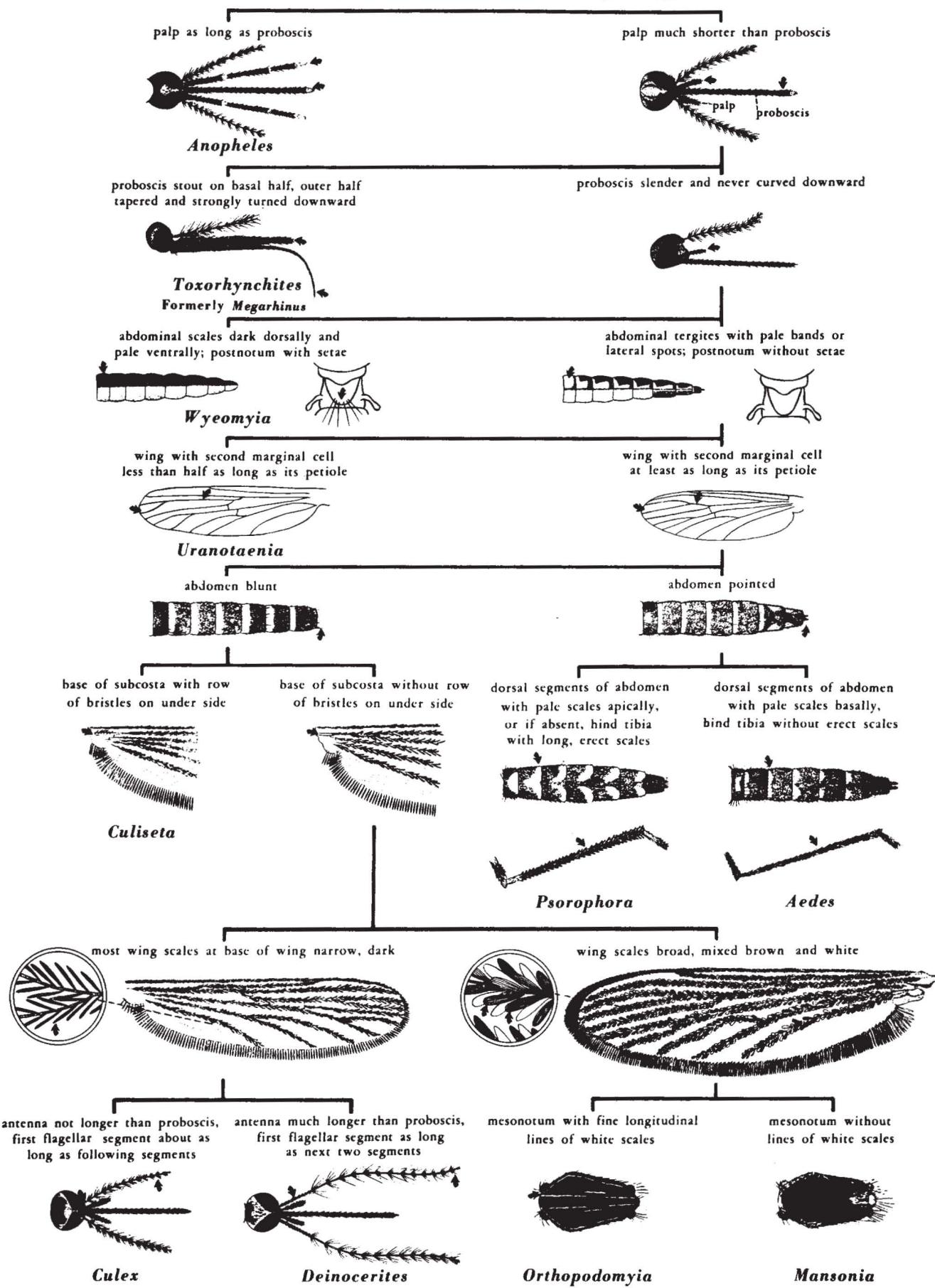
MOSQUITO DIAGRAM – ADULT FEMALE AEDES  
Chester J. Stojanovich and Harold George Scott



MOSQUITO DIAGRAM – LATERAL ASPECT OF MOSQUITO THORAX  
Chester J. Stojanovich

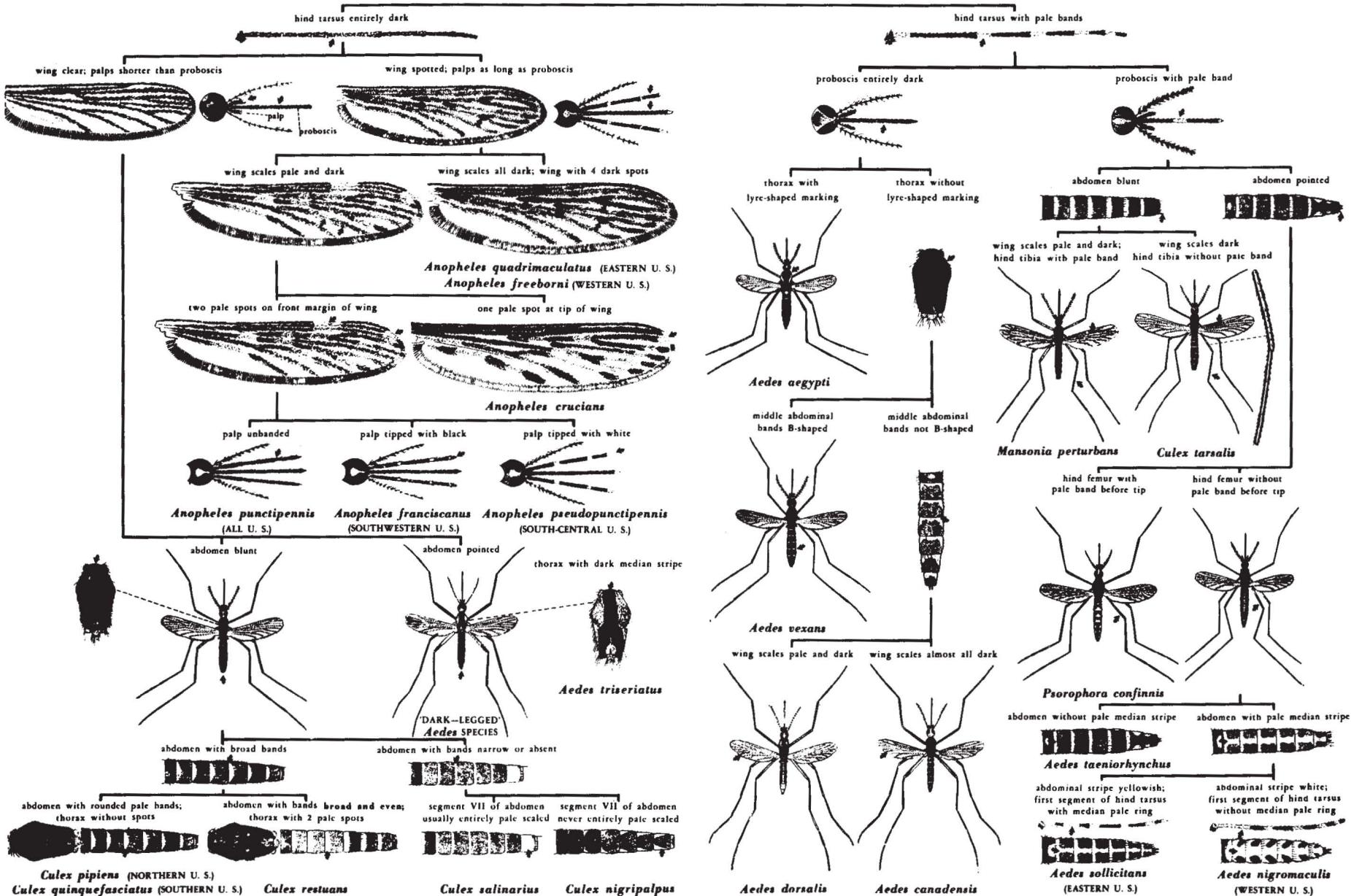


**MOSQUITOES: PICTORIAL KEY TO UNITED STATES GENERA OF ADULTS (FEMALE)**  
**Harry D. Pratt and Chester J. Stojanovich**



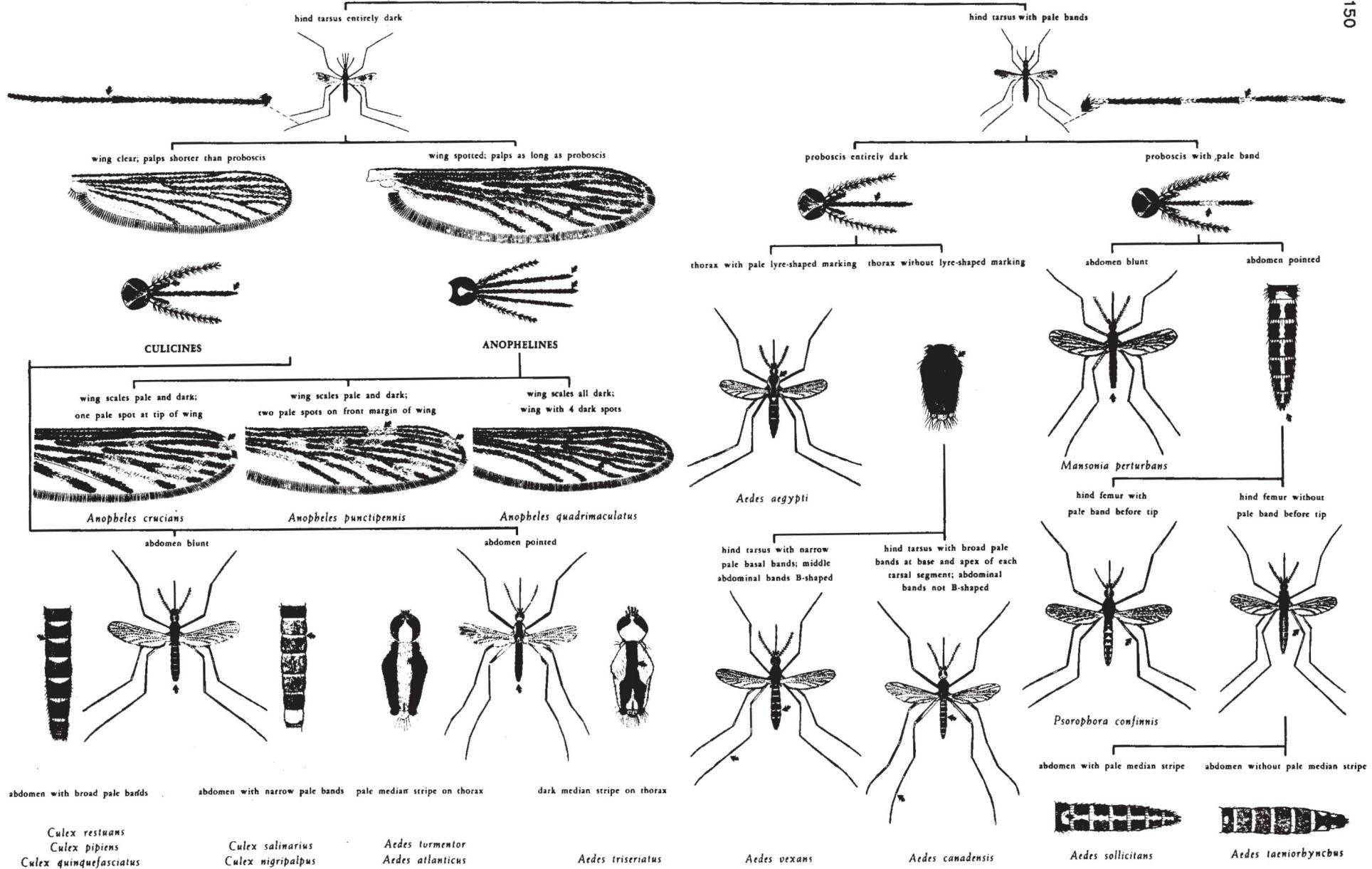
## MOSQUITOES: PICTORIAL KEY TO SOME COMMON ADULTS (FEMALE) OF THE UNITED STATES

Harry D. Pratt and Chester J. Stojanovich

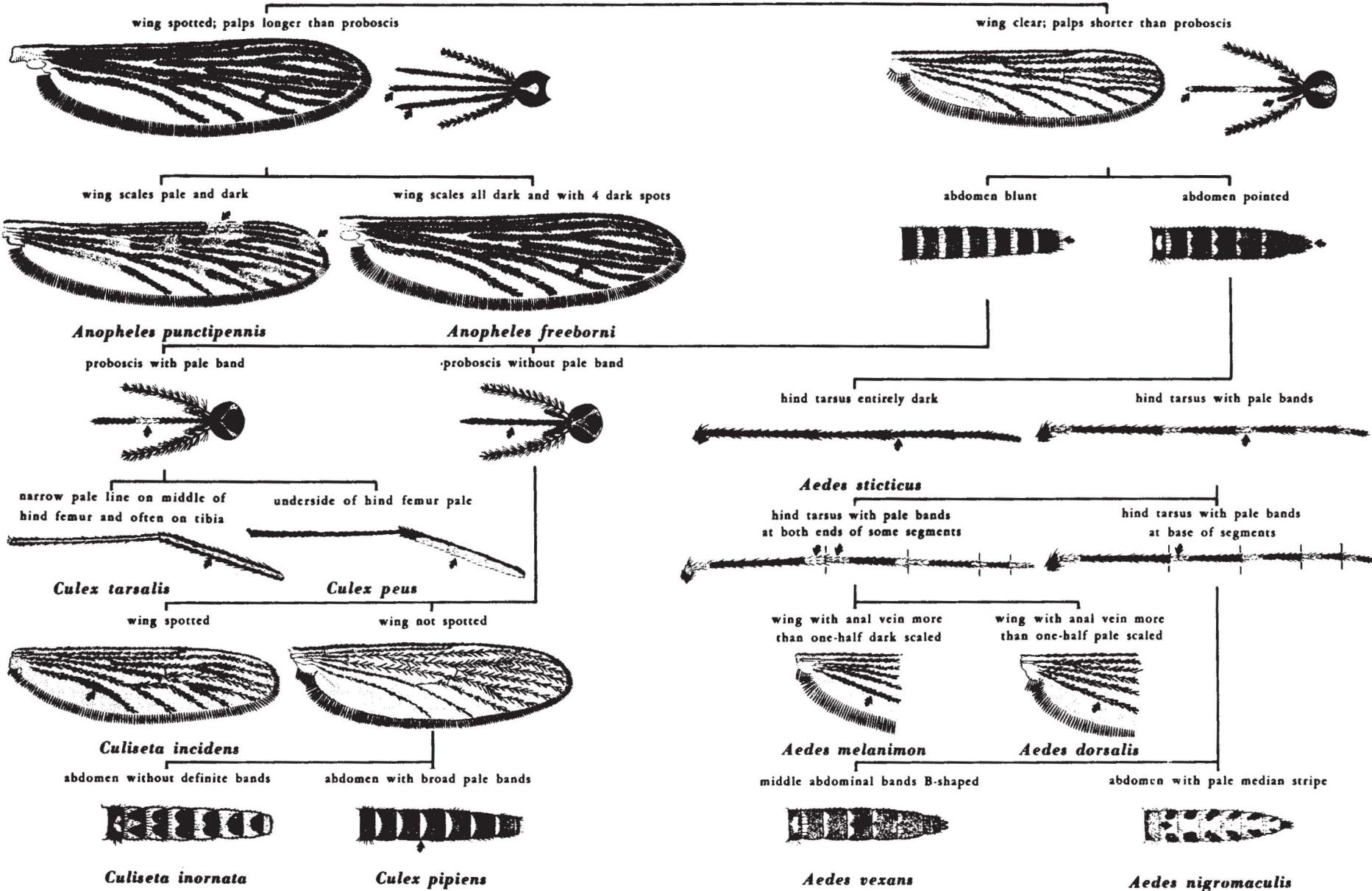


MOSQUITOES: PICTORIAL KEY TO SOME ADULTS (FEMALE) IN EASTERN UNITED STATES  
Harry D. Pratt and Chester J. Stojanovich

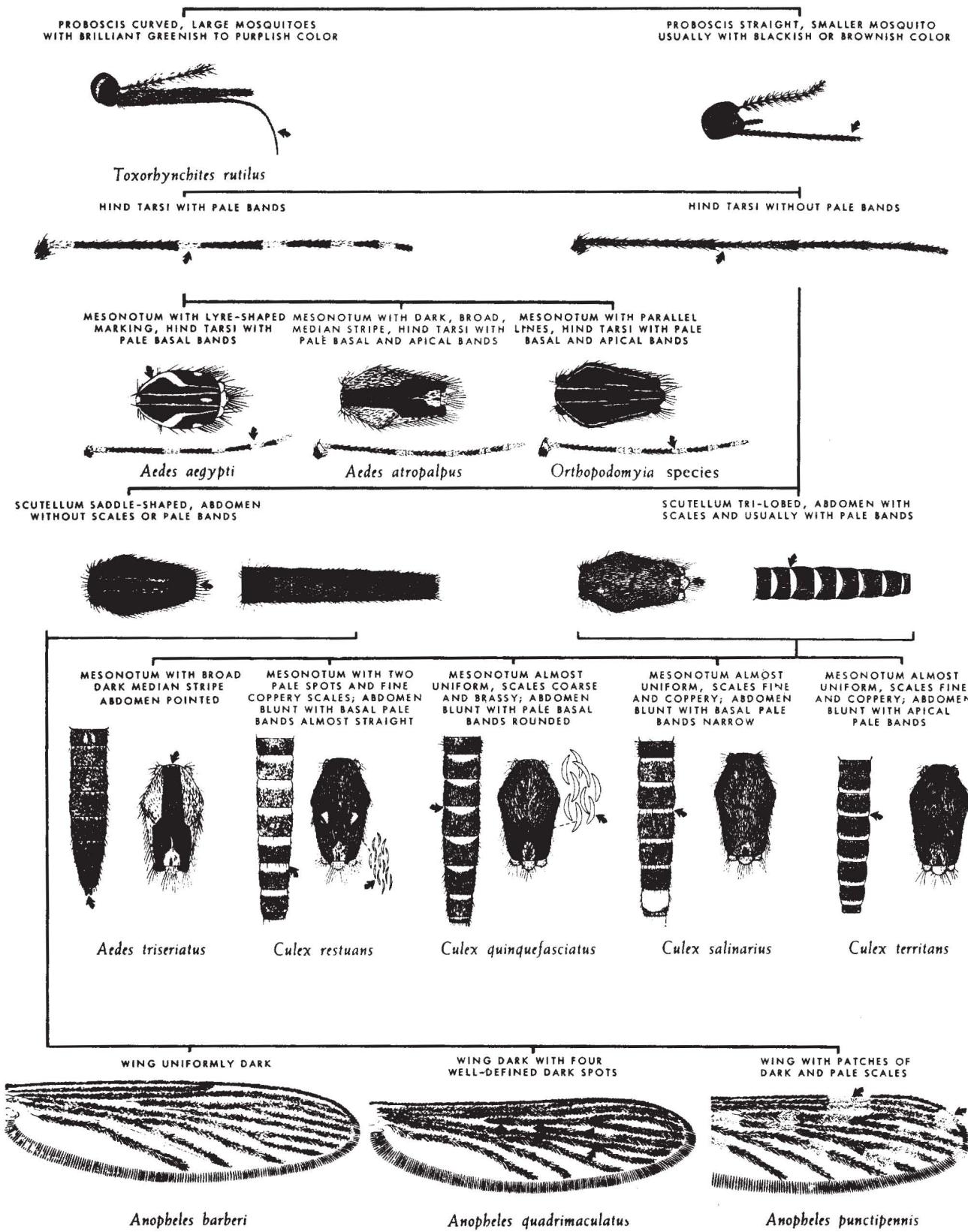
• 150



MOSQUITOES: PICTORIAL KEY TO SOME COMMON ADULTS (FEMALE) OF WESTERN UNITED STATES  
Harry D. Pratt and Chester J. Stojanovich



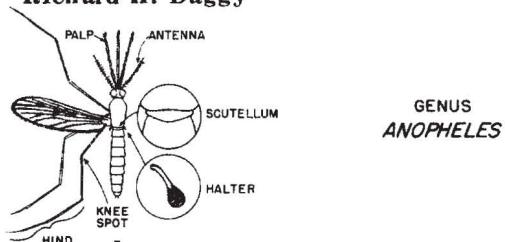
**MOSQUITOES: PICTORIAL KEY TO SOME ADULTS  
COMMONLY ASSOCIATED WITH AEDES AEGYPTI**  
Harry D. Pratt and Chester J. Stojanovich



## MOSQUITOES: PICTORIAL KEY TO ADULT FEMALE ANOPHELINES OF UNITED STATES

Richard H. Dugay

Palps as long as proboscis  
Scutellum evenly rounded  
Wings usually spotted

GENUS  
*ANOPHELES*

wings with areas of white or yellow scales



two pale areas on front margin of wing



one pale area on front margin of wing at tip



wings entirely dark-scaled



wings clear -unspotted



wings spotted more or less distinctly by clumping of dark scales

*CRUCIANUS*  
*GEORGIANUS*  
*BRADLEYI*

These three species are indistinguishable as adults. See "Pictorial Key to Anopheline Larvae" for separation in that stage.

thoracic bristles long -about one-third the width of thorax

*BARBERI*  
(Eastern U.S.)

thoracic bristles normal -shorter than one-third the width of thorax

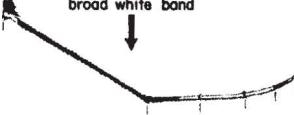
*ATROPOS*  
(Atlantic and Gulf Coasts)

Some specimens of *atropos* have faintly spotted wings. These are distinguished from other anophelines by the absence of light knee spots.

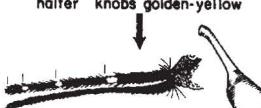
hind tarsus entirely dark-scaled



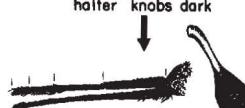
hind tarsus with broad white band

*ALBIMANUS*  
(Lower Rio Grande valley of Texas)

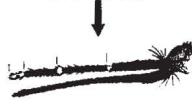
palp with narrow white bands halter knobs golden-yellow

*WALKERI*  
(Eastern U.S.)

palps unbanded halter knobs dark



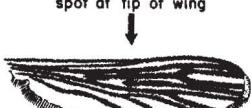
palp banded



palp unbanded

*PUNCTIPENNIS*  
(All of U.S.)

coppery-colored fringe spot at tip of wing

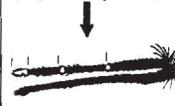


no fringe spot

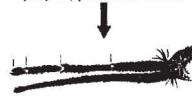
*OCCIDENTALIS*

(Pacific Coast)  
*EARLEI*  
(Northern U.S.  
East of Rockies)

terminal segment of palp entirely white



terminal segment of palp tipped with black

*PSEUDOPUNCTIPENNIS*  
(Southwestern U.S.)*FRANCISCANUS*  
(South-central and Western U.S.)

West of the Rockies (102° W. Longitude)

*FREEBORNI*

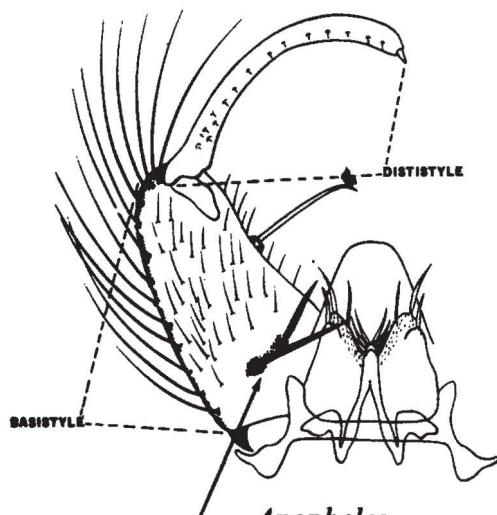
East of the Rockies

*QUADRIMACULATUS*  
(Eastern U.S.)

these two species are indistinguishable as adults

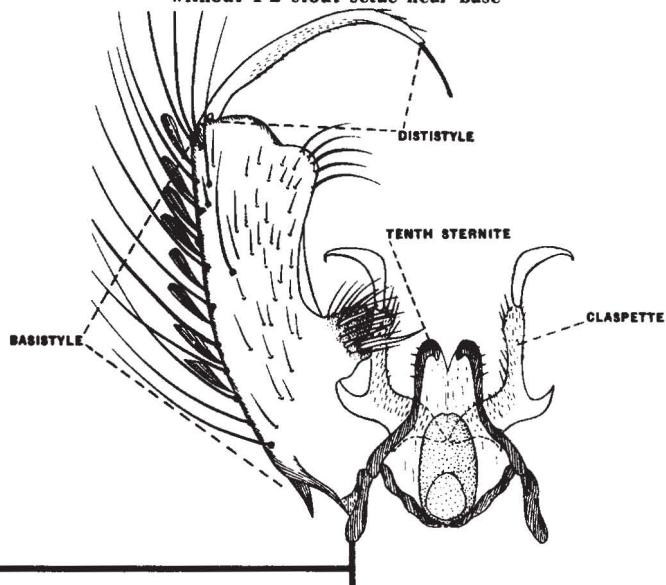
**MOSQUITOES: PICTORIAL KEY TO UNITED STATES GENERA  
BASED ON MALE GENITALIA**  
**PART I**  
**Chester J. Stojanovich**

basiestyle about equal in length to dististyle  
and with 1-2 stout setae near base

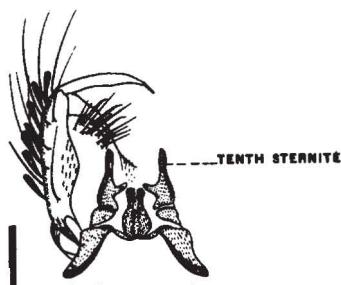
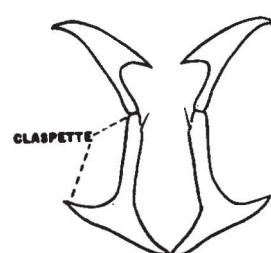


*Anopheles*

basiestyle usually much shorter than dististyle,  
without 1-2 stout setae near base

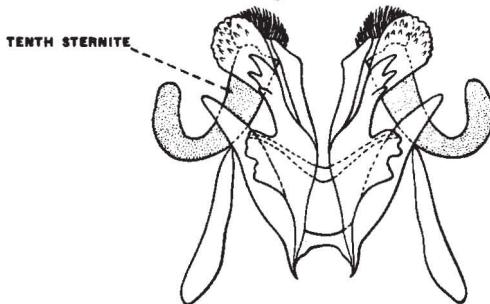


claspettes present 'absent only in *Aedes aegypti* as shown below'



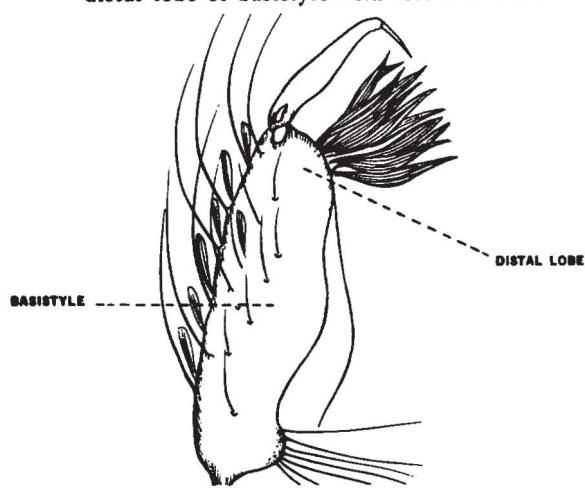
*Aedes aegypti*

claspette absent



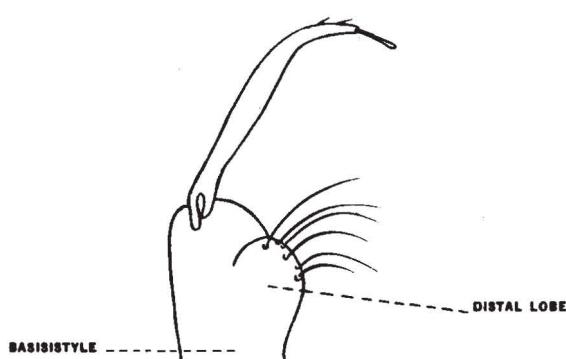
SEE PART II SECTION II

distal lobe of basistyle with leaf-like scales



*Haemagogus*

distal lobe when present without leaf-like scales

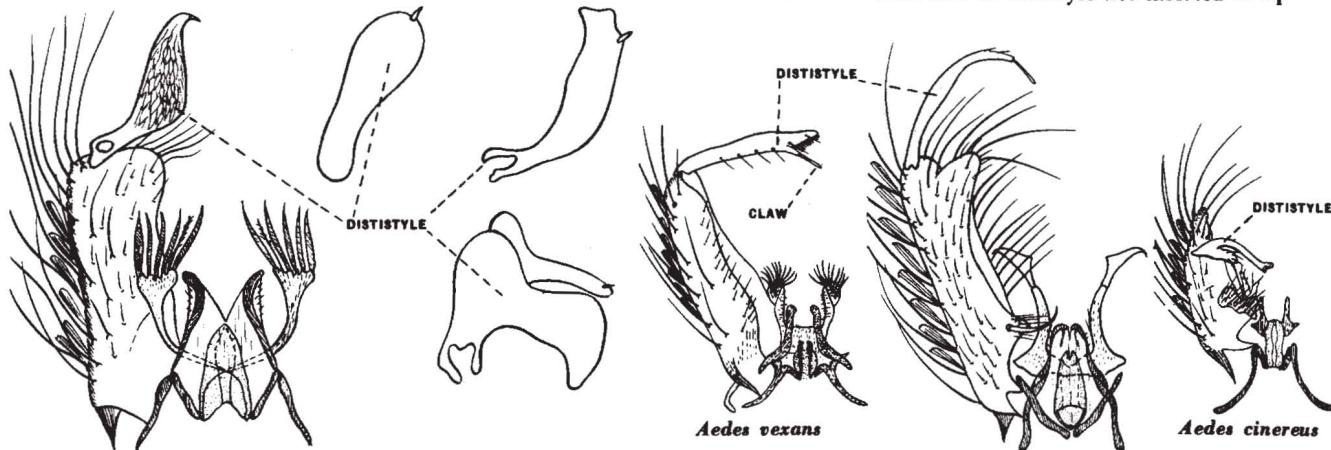


SEE PART II SECTION I

**PART II****PART II SECTION I**

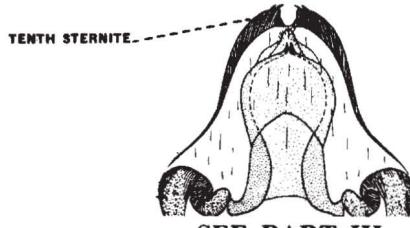
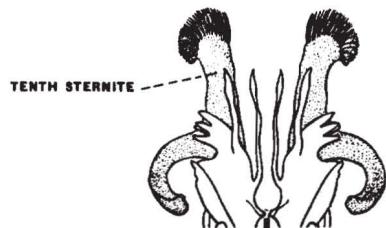
dististyle not slender but variously shaped as shown below

dististyle slender 'exceptions being  
*Aedes cinereus* with dististyle furcate at base and  
*Aedes vexans* with claw of dististyle not inserted at tip

***Psorophora******Aedes*****PART II SECTION II**

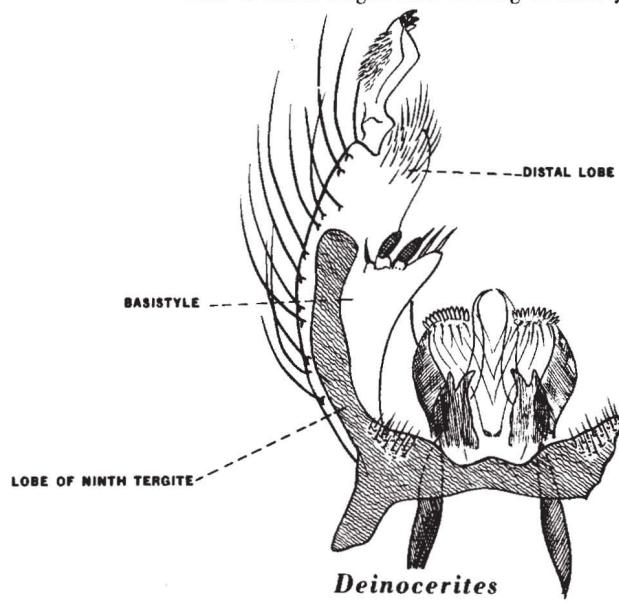
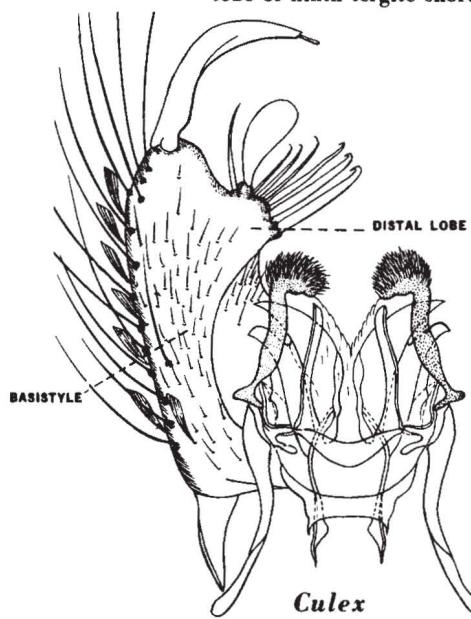
tenth sternite crowned with teeth or tuft of spines

tenth sternite simple or with few teeth

**SEE PART III**

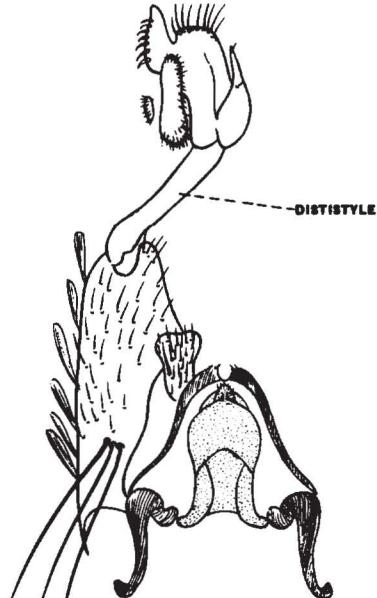
distal lobe of basistyle with leaf-like scales or rods  
 lobe of ninth tergite short

distal lobe of basistyle without leaf-like scales or rods  
 lobe of ninth tergite half as long as basistyle

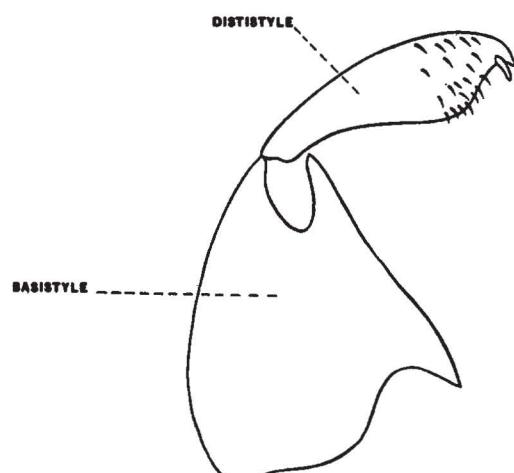


PART III

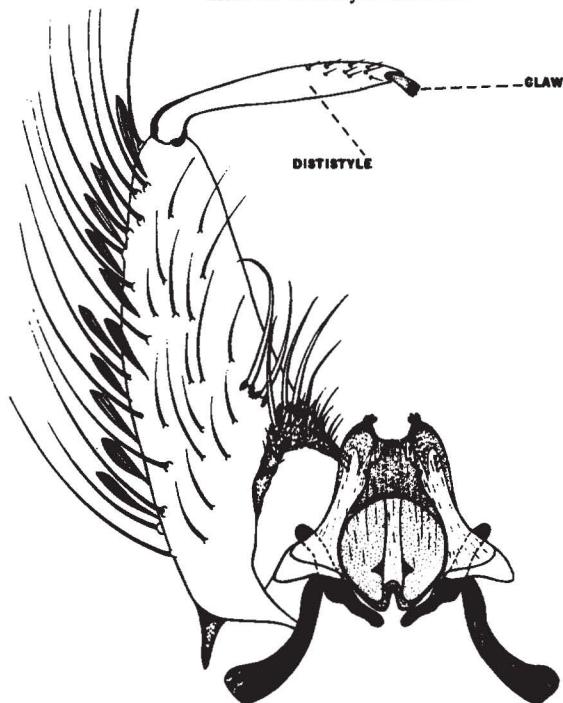
dististyle greatly modified at apex



dististyle not greatly modified at apex

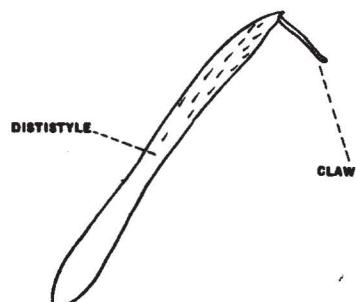


claw of dististyle comb-like



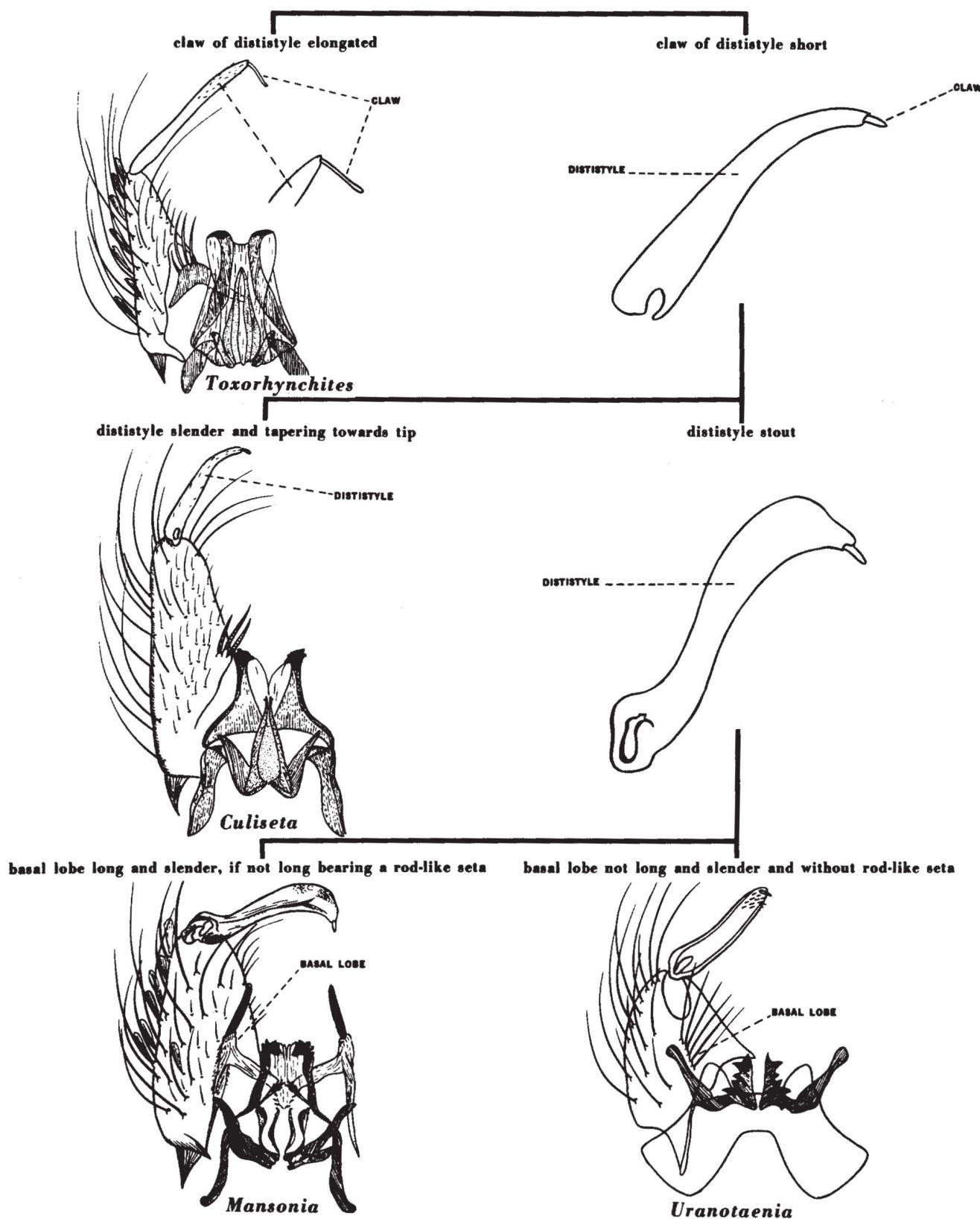
*Orthopodomyia*

claw of dististyle not comb-like

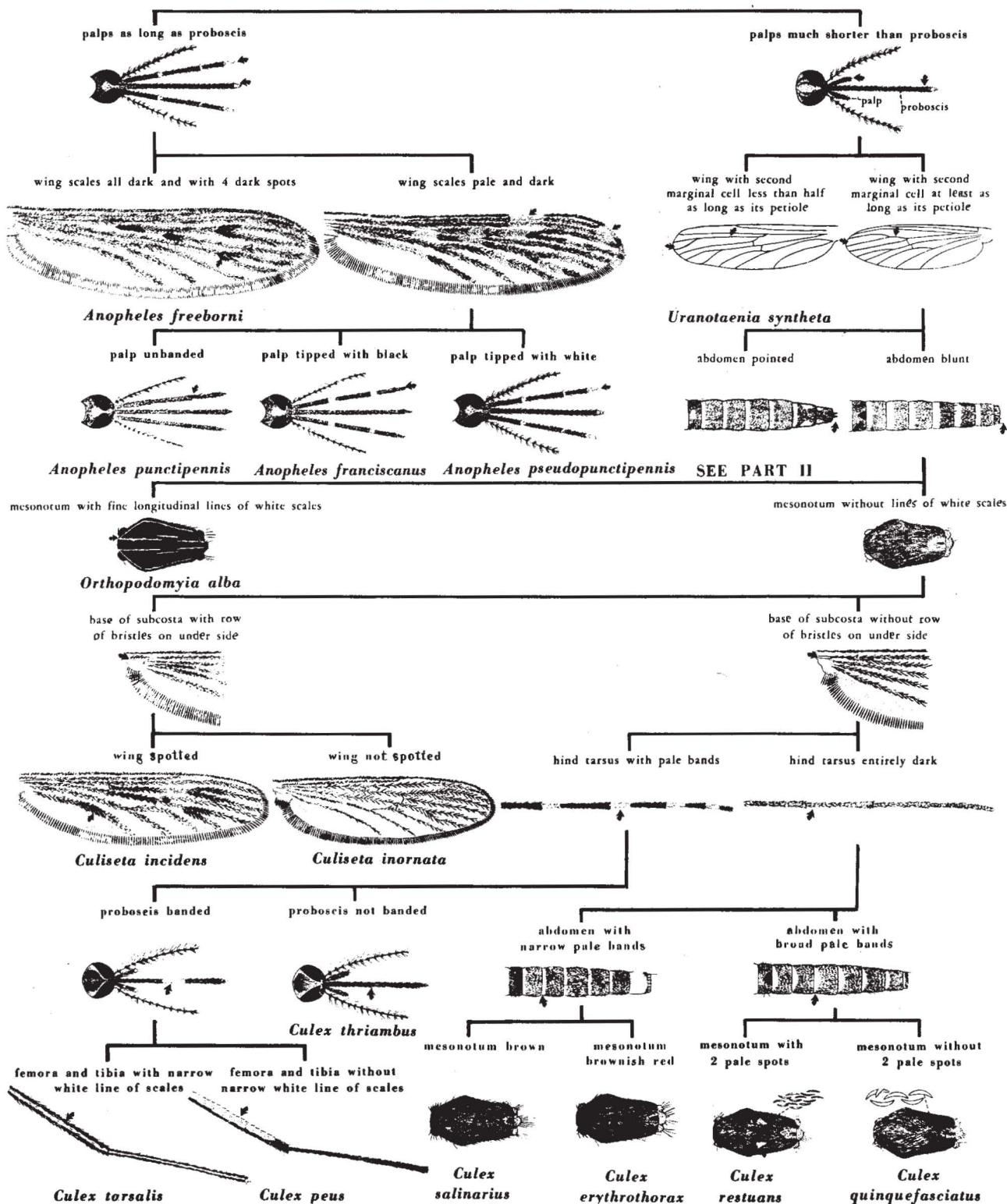


SEE PART IV

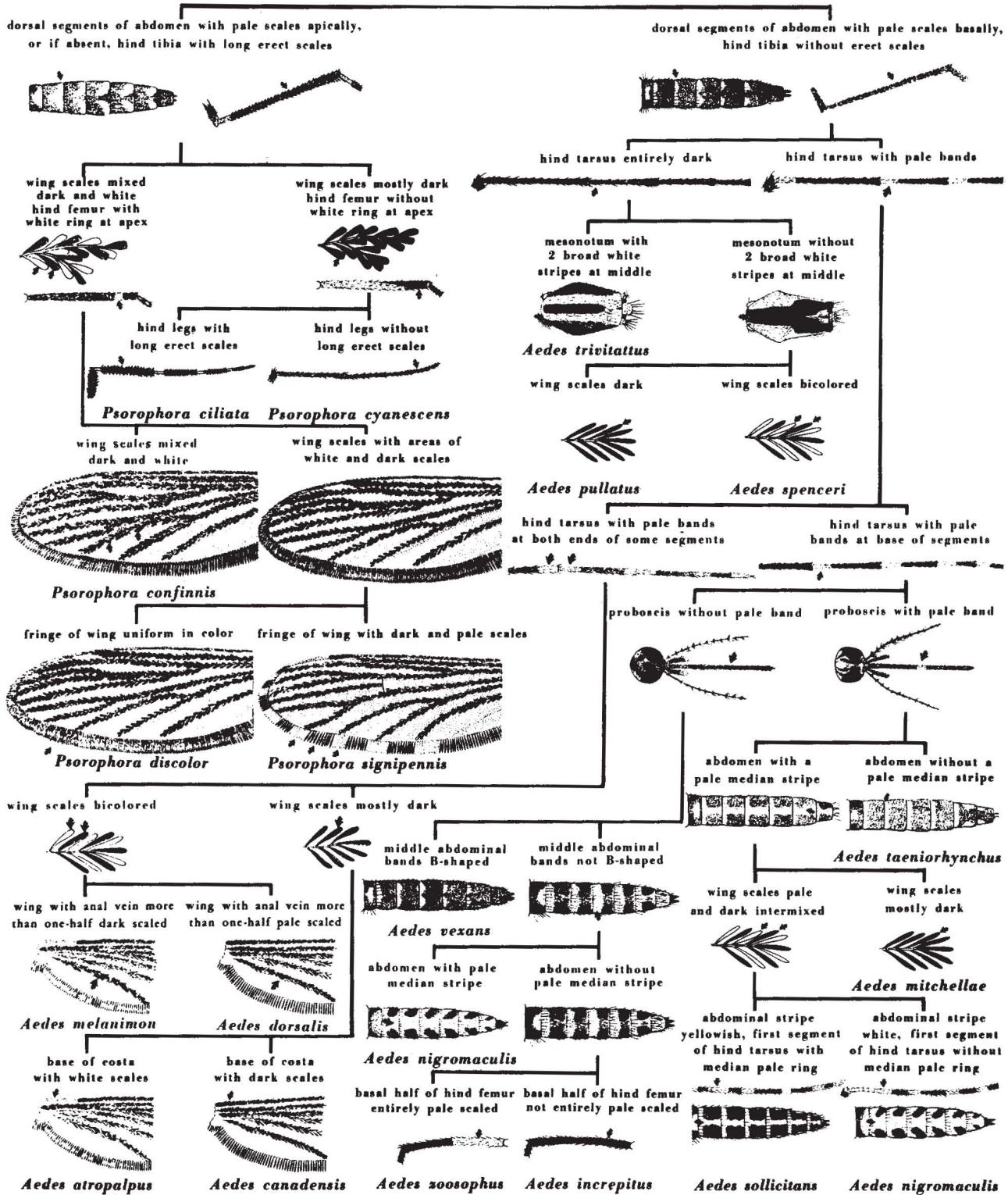
## PART IV



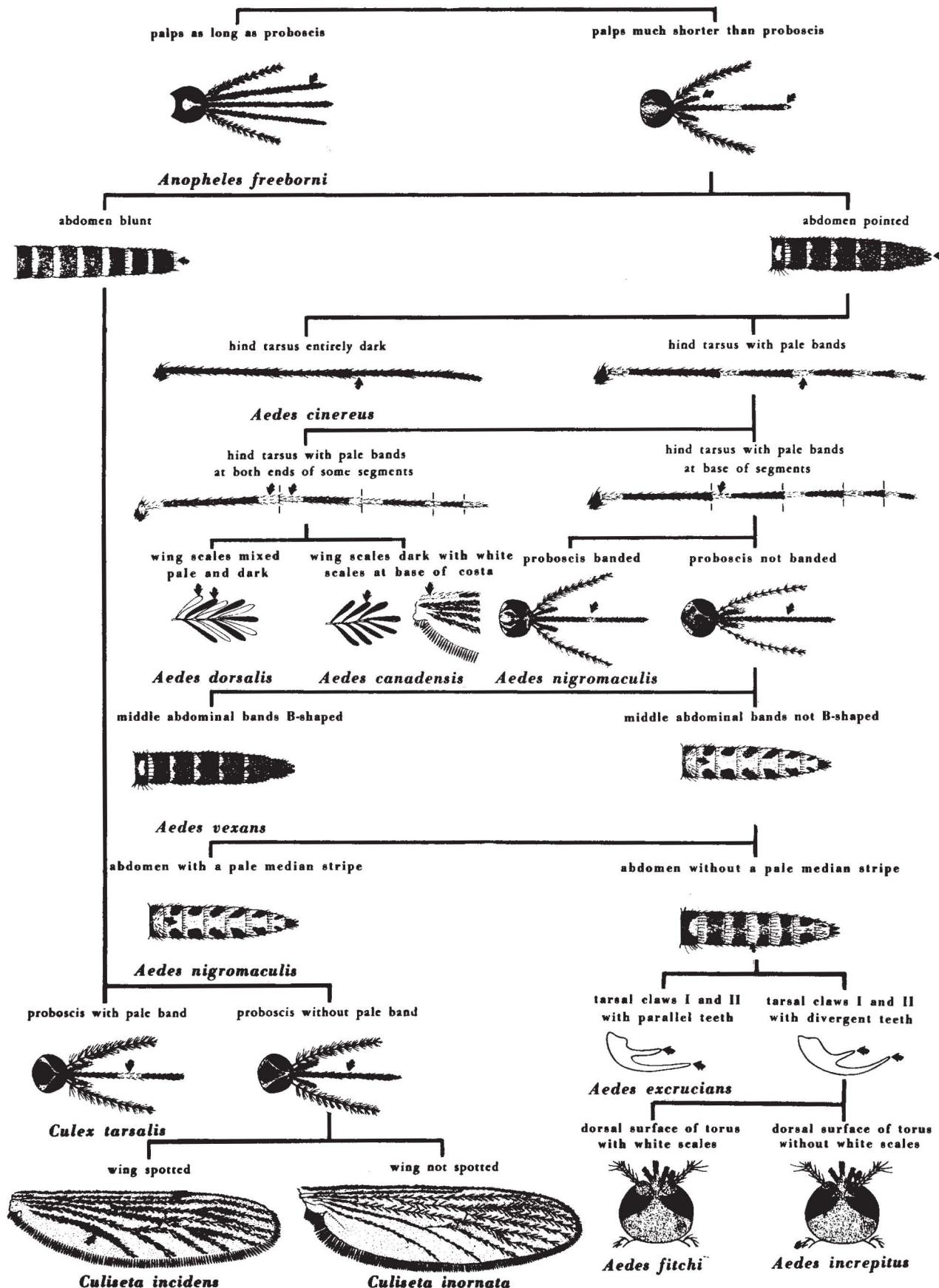
**MOSQUITOES: PICTORIAL KEY TO MOST ADULTS (FEMALE) OF NEW MEXICO  
PART I**  
Chester J. Stojanovich



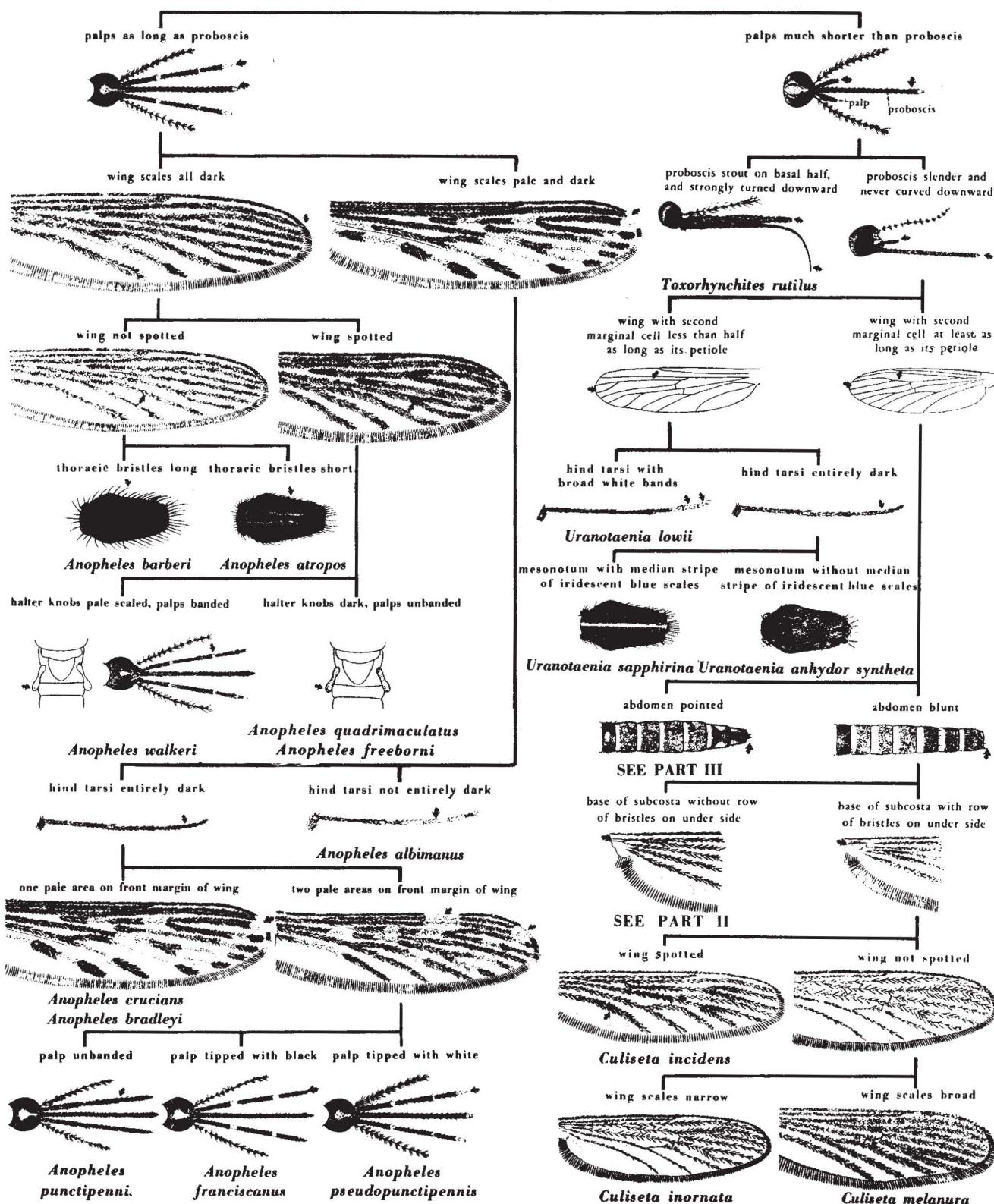
## PART II



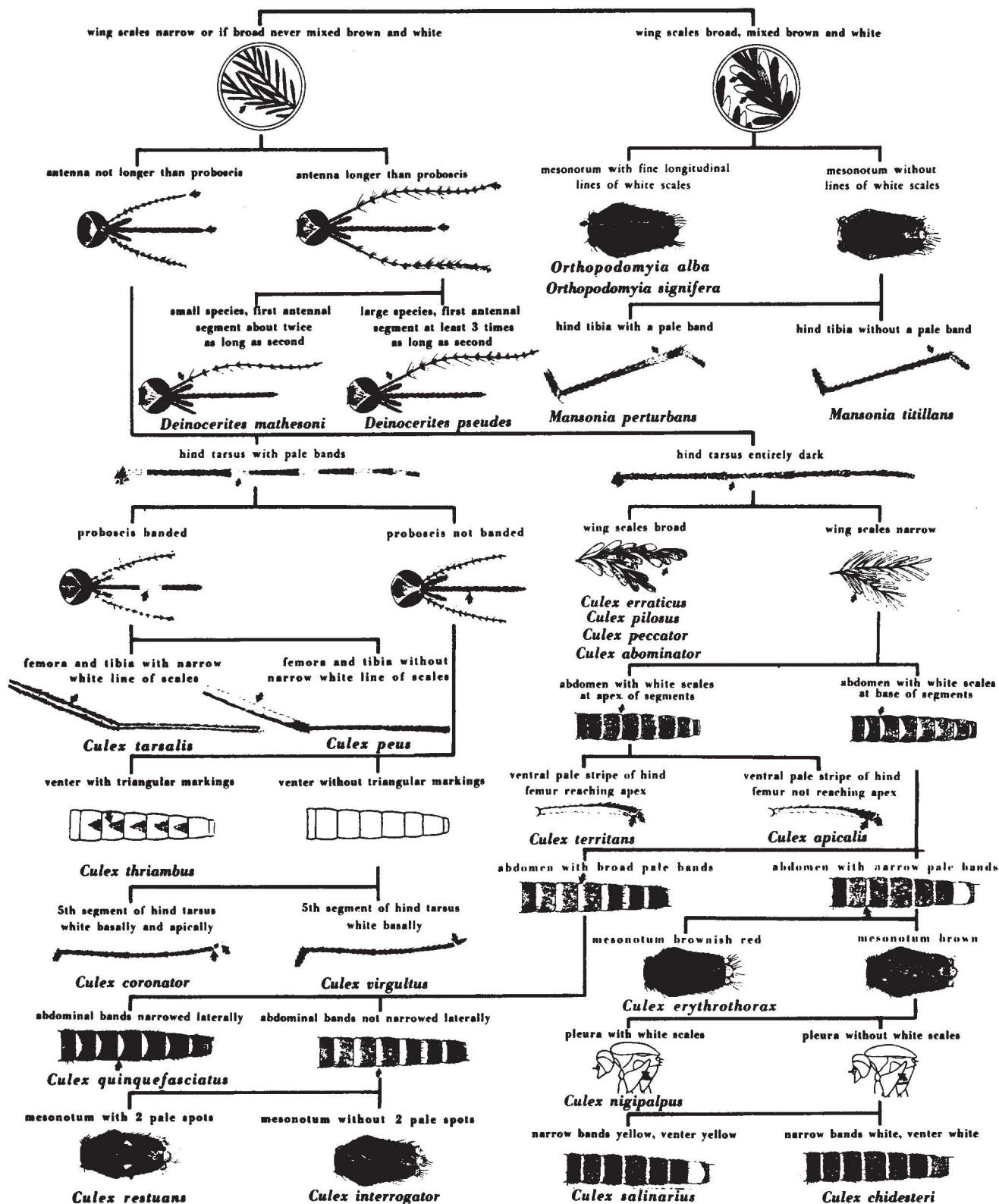
MOSQUITOES: PICTORIAL KEY TO SOME COMMON ADULTS (FEMALE) OF IDAHO  
Chester J. Stojanovich



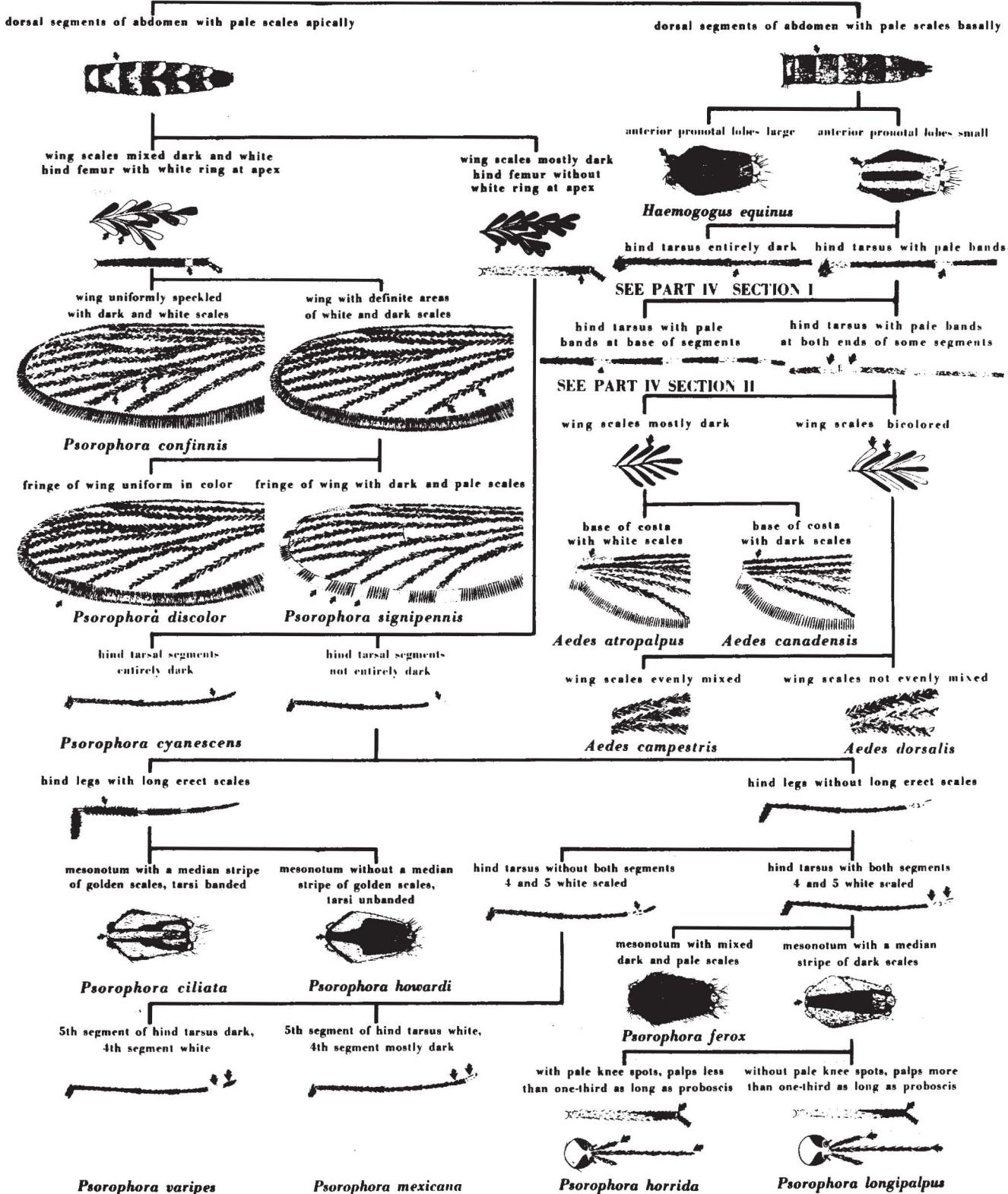
MOSQUITOES: PICTORIAL KEY TO ALL ADULTS (FEMALE) OF TEXAS  
PART I  
Chester J. Stojanovich



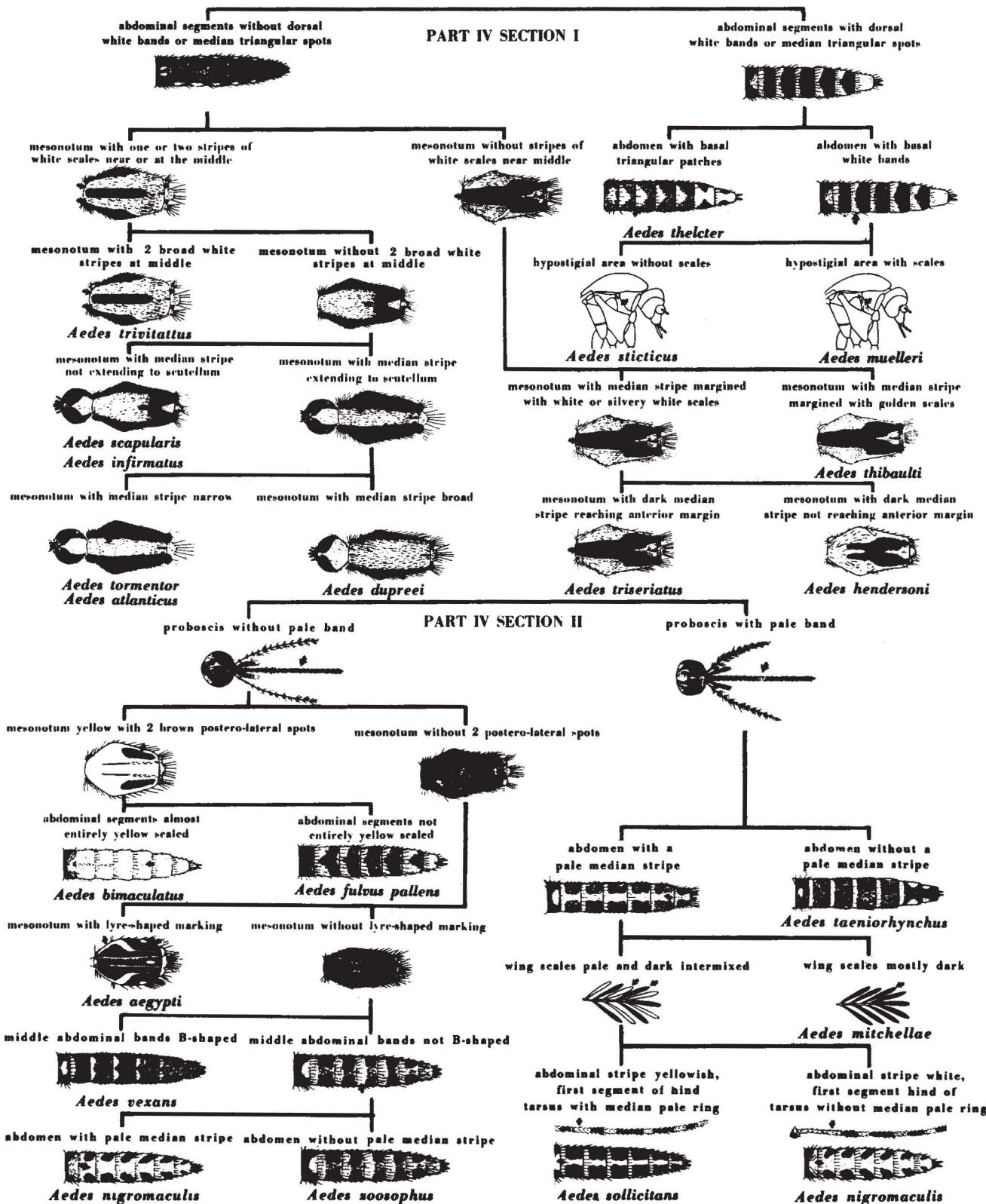
## PART II



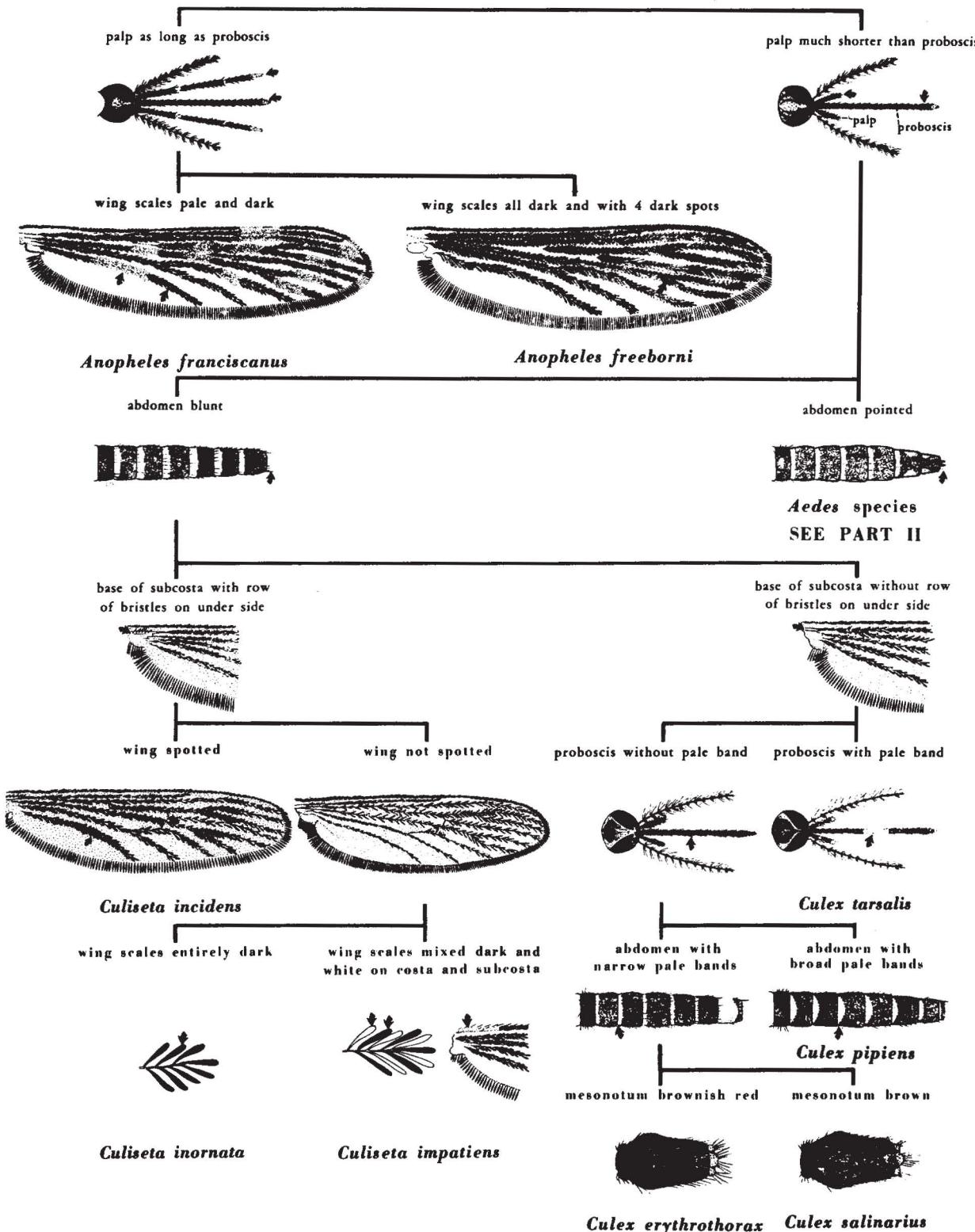
## PART III



## PART IV



**MOSQUITOES: PICTORIAL KEY TO SOME COMMON ADULTS (FEMALE) OF UTAH**  
**PART I**  
**Chester J. Stojanovich**



## PART II

