

7. Posterior end of body extended to form a tail (Fig. 7 A).....
.....(Eristalis tenax) RAT-TAILED MAGGOT

Body swollen or tapered posteriorly, but never extended into a tail like process (Fig. 7 B).. 8

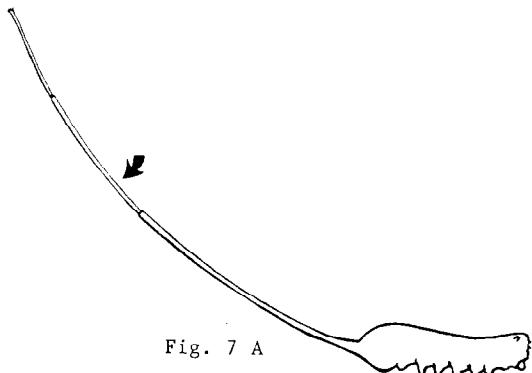


Fig. 7 A

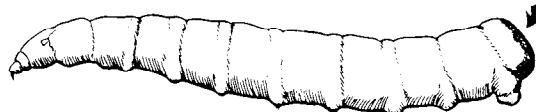


Fig. 7 B

8. Peritreme present, with 3 distinct slits (Fig. 8 A)..... 9

Peritreme absent; or if present without 3 distinct slits (Fig. 8 B & C)..... 23

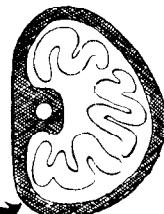


Fig. 8 A

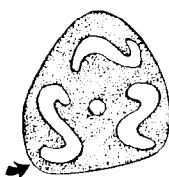


Fig. 8 B

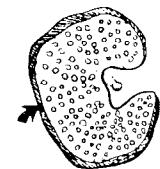


Fig. 8 C

9. Slits of posterior spiracles straight (Fig. 9 A)..... 10

Slits of posterior spiracles strongly sinuous (Fig. 9 B)..... 22

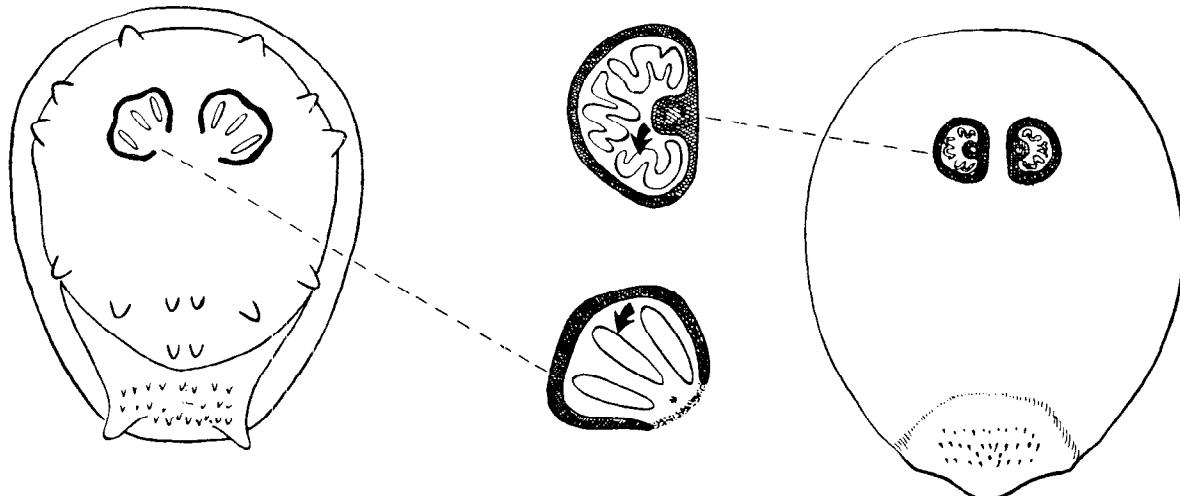


Fig. 9 A



Fig. 9 B

10. Dorsal and ventral arms of cephaloskeleton almost equal (Fig. 10 A); peritreme with two non-sclerotized areas away from the button (Fig. 10 B)..... (Genus Ophvra) DUMP FLY

Dorsal arm of cephaloskeleton longer than ventral arm (Fig. 10 C); peritreme complete or with one weakly sclerotized area (Fig. 10 D & E)..... 11

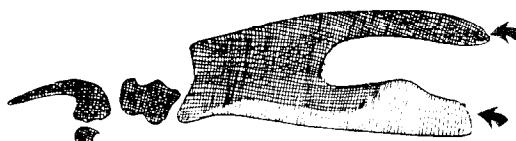


Fig. 10 A

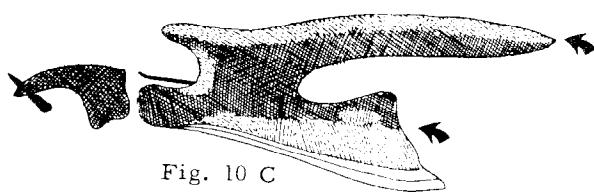


Fig. 10 C

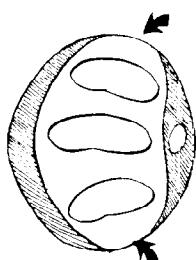


Fig. 10 B

Fig. 10 D

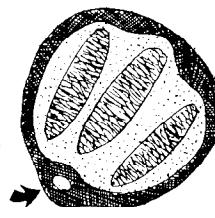


Fig. 10 E



11. Posterior spiracles with peritreme complete, sometimes weak in area of button (Fig. 11 A)..... 12

Posterior spiracles with peritreme incomplete, not enclosing a sometimes ill-defined button (Fig. 11 B)..... 16

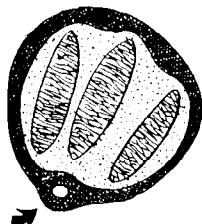


Fig. 11 A

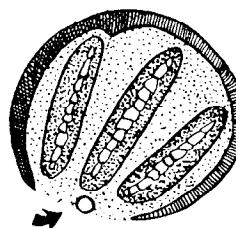


Fig. 11 B

12. Spiracular plate and button heavily sclerotized; accessory oral sclerite present (Fig. 12 A & B)..... 13

Spiracular plate and button not heavily sclerotized; accessory oral sclerite absent (Fig. 12 C & D)..... 14

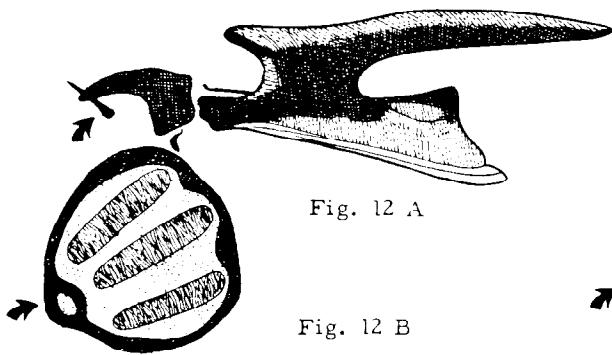


Fig. 12 A

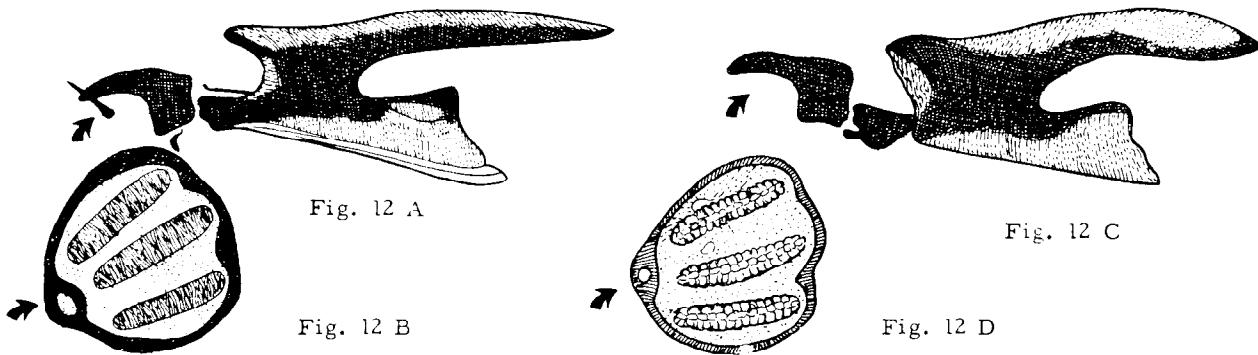


Fig. 12 B

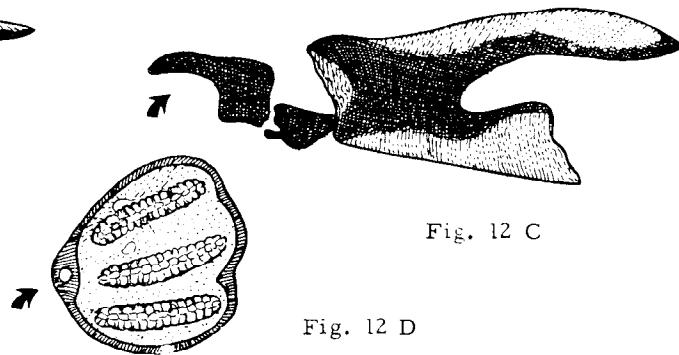


Fig. 12 C

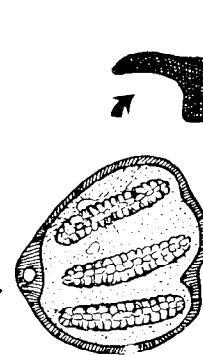
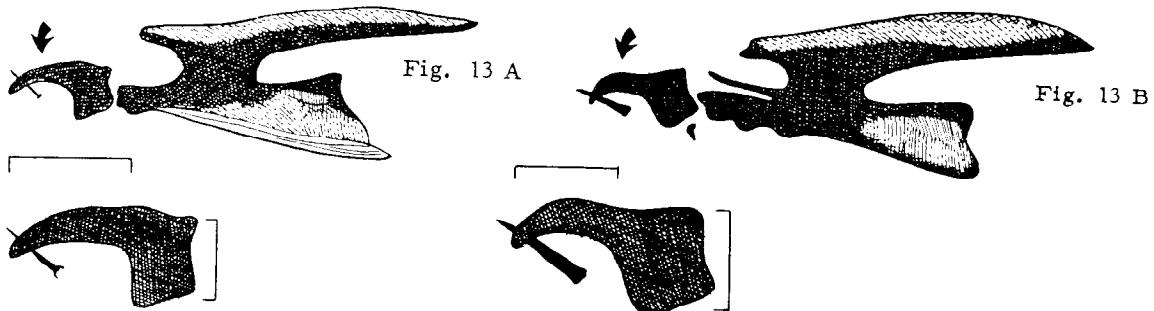


Fig. 12 D

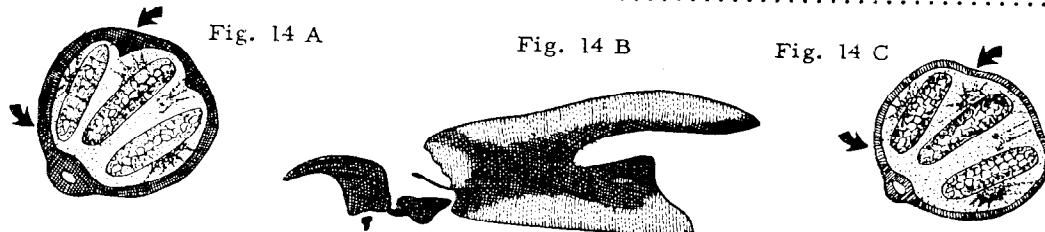
13. Mandibular sclerite with tooth longer than greatest width of basal portion (Fig. 13 A).....
(Calliphora vicina) A BLUE BOTTLE FLY

Mandibular sclerite with tooth only as long as greatest width of basal portion (Fig. 13 B)..
(Cynomyopsis cadaverina) A BLUE BOTTLE FLY



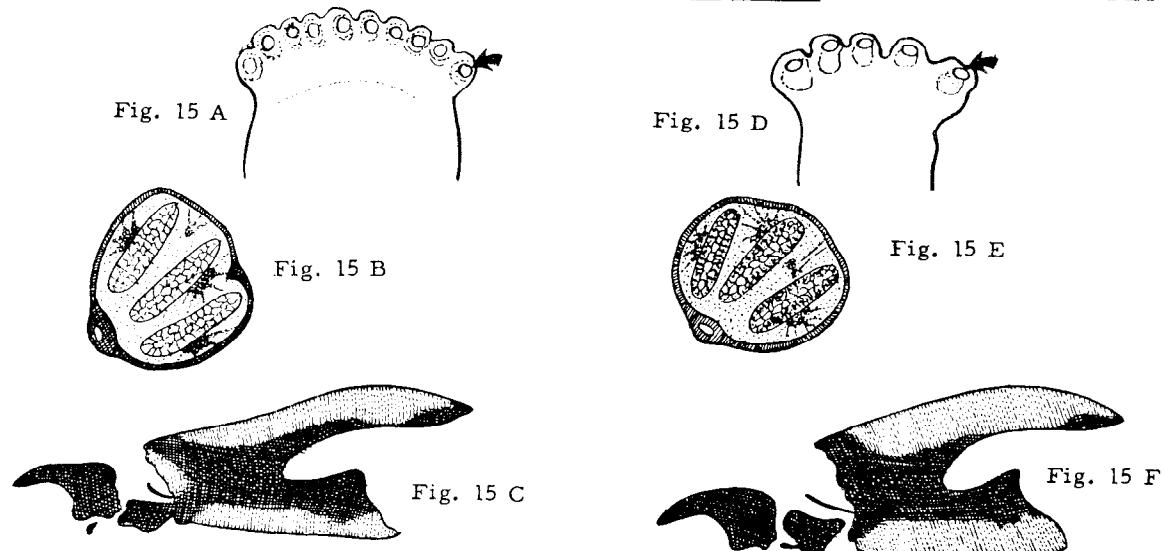
14. Peritreme thick with rounded or sharp projections which extend inward toward spiracular slits (Fig. 14 A); cephaloskeleton as in figure 14 B.....
(Phaenicia caeruleiviridis) A GREEN BOTTLE FLY

Peritreme thin, usually with no projections or if present only slightly sclerotized (Fig. 14 C).....15



15. At least one of the prothoracic spiracles with 8 or more openings (Fig. 15 A); peritreme and cephaloskeleton as in figures 15 B & C..
(Phaenicia sericata) A GREEN BOTTLE FLY

At least one of the prothoracic spiracles with 6 or less openings (Fig. 15 D); peritreme and cephaloskeleton as in figures 15 E & F.....
(Syn. *P. pallescens*).....
(Phaenicia cuprina) A BRONZE BOTTLE FLY



16. Spiracular slits not pointing toward opening in peritreme (Fig. 16 A).....17
 Spiracular slits pointing toward opening in peritreme (Fig. 16 B).....18

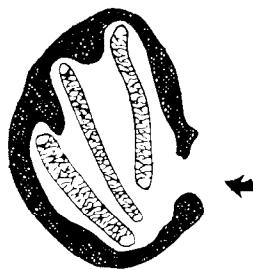


Fig. 16 A

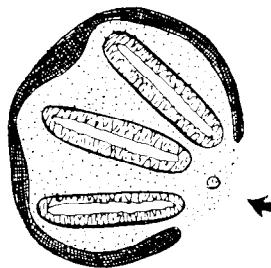


Fig. 16 B

17. Very large size, about 20 mm. long; mandibular sclerite as in figure 17 A.....
(Sarcophaga clitellivora or S. bullata) A FLESH FLY
 Smaller size, about 10 mm. long; mandibular sclerite as in figure 17 B.....
(Sarcophaga haemorrhoidalis) A FLESH FLY



Fig. 17 A



Fig. 17 B

18. At least one of the prothoracic spiracles with 9 or less openings (Fig. 18 A).....19
 At least one of the prothoracic spiracles with 10 or more openings (Fig. 18 B).....20



Fig. 18 A



Fig. 18 B

19. Mandibular sclerite with tooth longer than width of basal portion (Fig. 19 A).....
(Wohlfahrtia opaca) A FLESH FLY
 Mandibular sclerite with tooth only as long as greatest width of basal portion (Fig. 19 B)..
(Wohlfahrtia vigil) A FLESH FLY

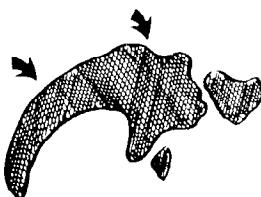


Fig. 19 A

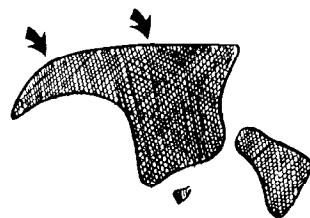


Fig. 19 B

20. Button is distinct or absent; walls of slits with lateral swellings (Fig. 20 A)..... 21
 Button present, walls of slits without lateral swellings (Fig. 20 B).....
 Phormia regina BLACK BLOW FLY



Fig. 20 A

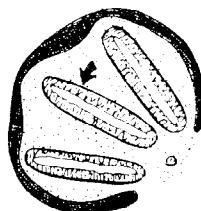


Fig. 20 B

21. Tracheal trunks pigmented (Fig. 21 A).....
 (Cochliomyia hominivorax) PRIMARY SCREW-WORM
 Tracheal trunks not pigmented (Fig. 21 B).....
 (Cochliomyia macellaria) SECONDARY SCREW-WORM

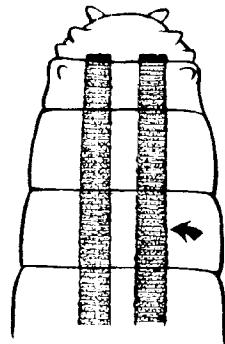


Fig. 21 A

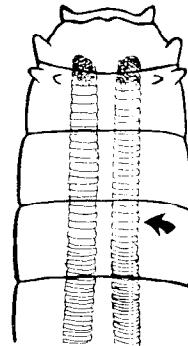


Fig. 21 B

22. Peritreme thick (Fig. 22 A)..... (Musca domestica) HOUSE FLY
 Peritreme thin (Fig. 22 B)..... (Haematobia irritans) HORN FLY

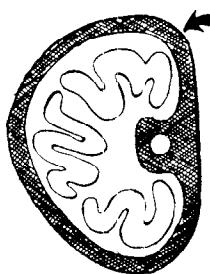


Fig. 22 A

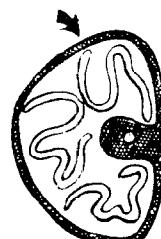


Fig. 22 B

23. Small or slender, round larvae, usually less than 13 mm. long, tapering anteriorly (Fig. 23 A)..... 24
 Large, robust larvae, over 15 mm long, with very stout spines (Fig. 23 B)..... 26

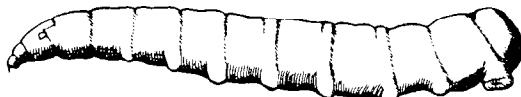


Fig. 23 A

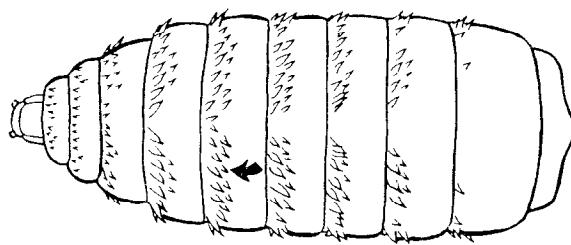


Fig. 23 B

24. Button centrally located (Fig. 24 A)..... (Stomoxys calcitrans) STABLE FLY
 Button not centrally located (Fig. 24 B)..... 25

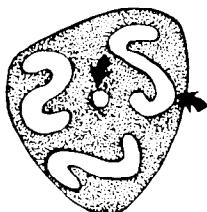


Fig. 24 A

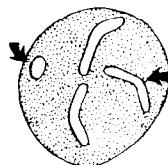


Fig. 24 B

25. Slits of posterior spiracles strongly sinuous (Fig. 25 A).... (Musca autumnalis) FACE FLY
 Slits of posterior spiracles not strongly sinuous (Fig. 25 B)..... (Genus Mucina) FALSE STABLE FLY

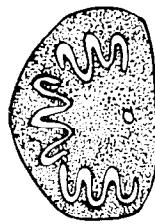


Fig. 25 A

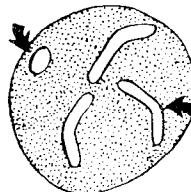


Fig. 25 B

26. Posterior spiracles with 3 distinct slits (Fig. 26 A)..... 27
 Posterior spiracles without 3 distinct slits (Fig. 26 B)..... 28

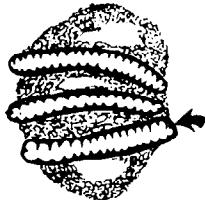


Fig. 26 A

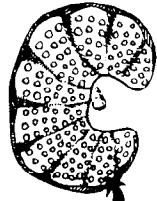


Fig. 26 B

27. Spiracular slits straight and sunken in deep cavity (Fig. 27 A); body shape as in figure 27 B. (Genus Dermatobia) HUMAN BOT FLY

Spiracular slits curved and at most in shallow cavity (Fig. 27 C); body shape as in figure 27 D. (Genus Gasterophilus) HORSE BOT FLY



Fig. 27 A

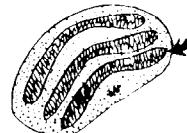


Fig. 27 C

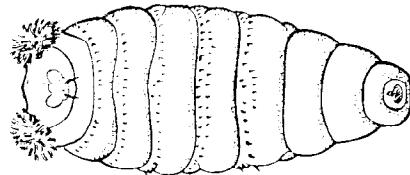


Fig. 27 B

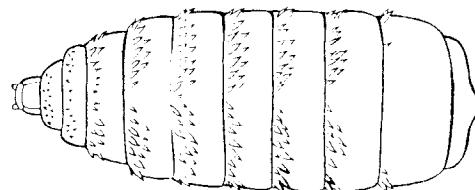


Fig. 27 D

28. Each spiracle divided into several plates (Fig. 28 A).....
..... (Genus Cuterebra) RABBIT AND RODENT BOT FLY

Each spiracle not divided into several plates (Fig. 28 B)..... 29

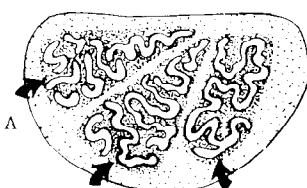


Fig. 28 A

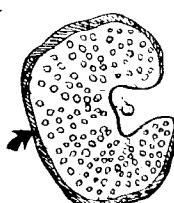


Fig. 28 B

29. Button centrally located (Fig. 29 A)..... (Oestrus ovis) SHEEP BOT FLY

Button not centrally located (Fig. 29 B)..... 30

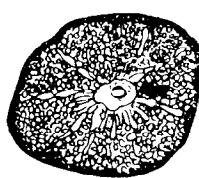


Fig. 29 A

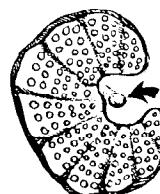


Fig. 29 B

30. Opening toward button narrow (Fig. 30 A).... (Hypoderma bovis) NORTHERN CATTLE GRUB

Opening toward button wide (Fig. 30 B)..... (Hypoderma lineatum) CATTLE GRUB



Fig. 30 A

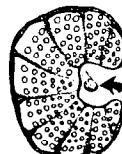
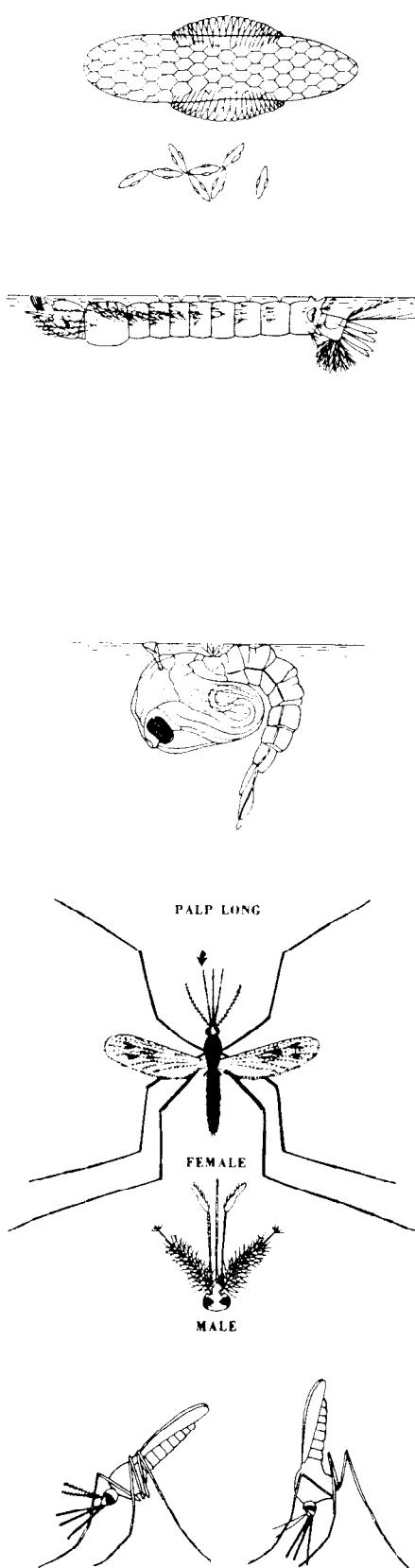


Fig. 30 B

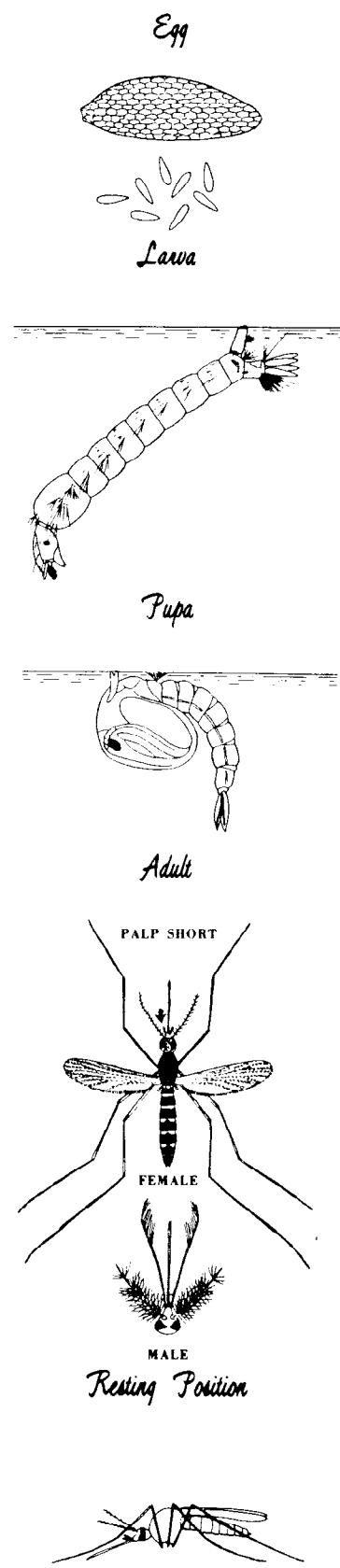
MOSQUITOES: CHARACTERISTICS OF ANOPHELINES AND CULICINES

Kent S. Littig and Chester J. Stojanovich

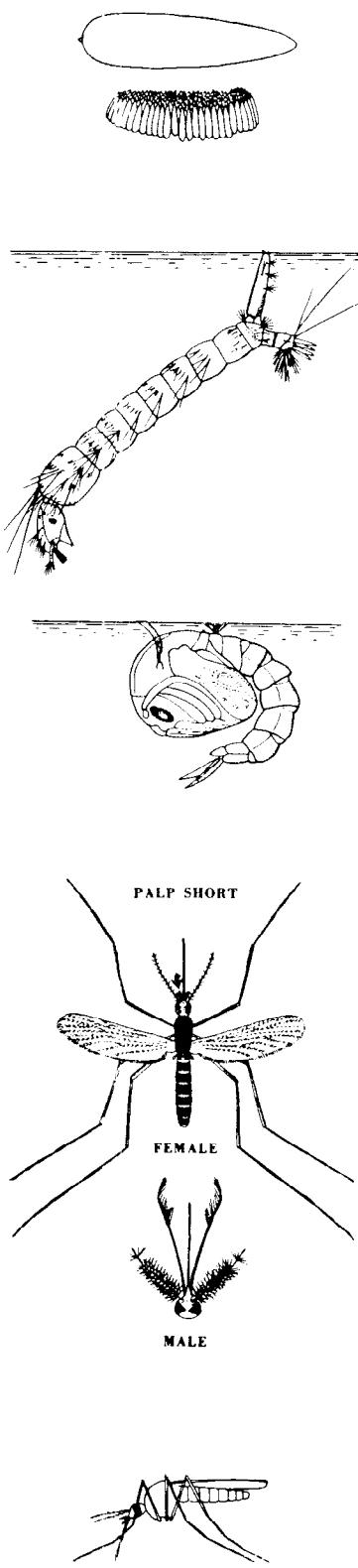
ANOPHELES



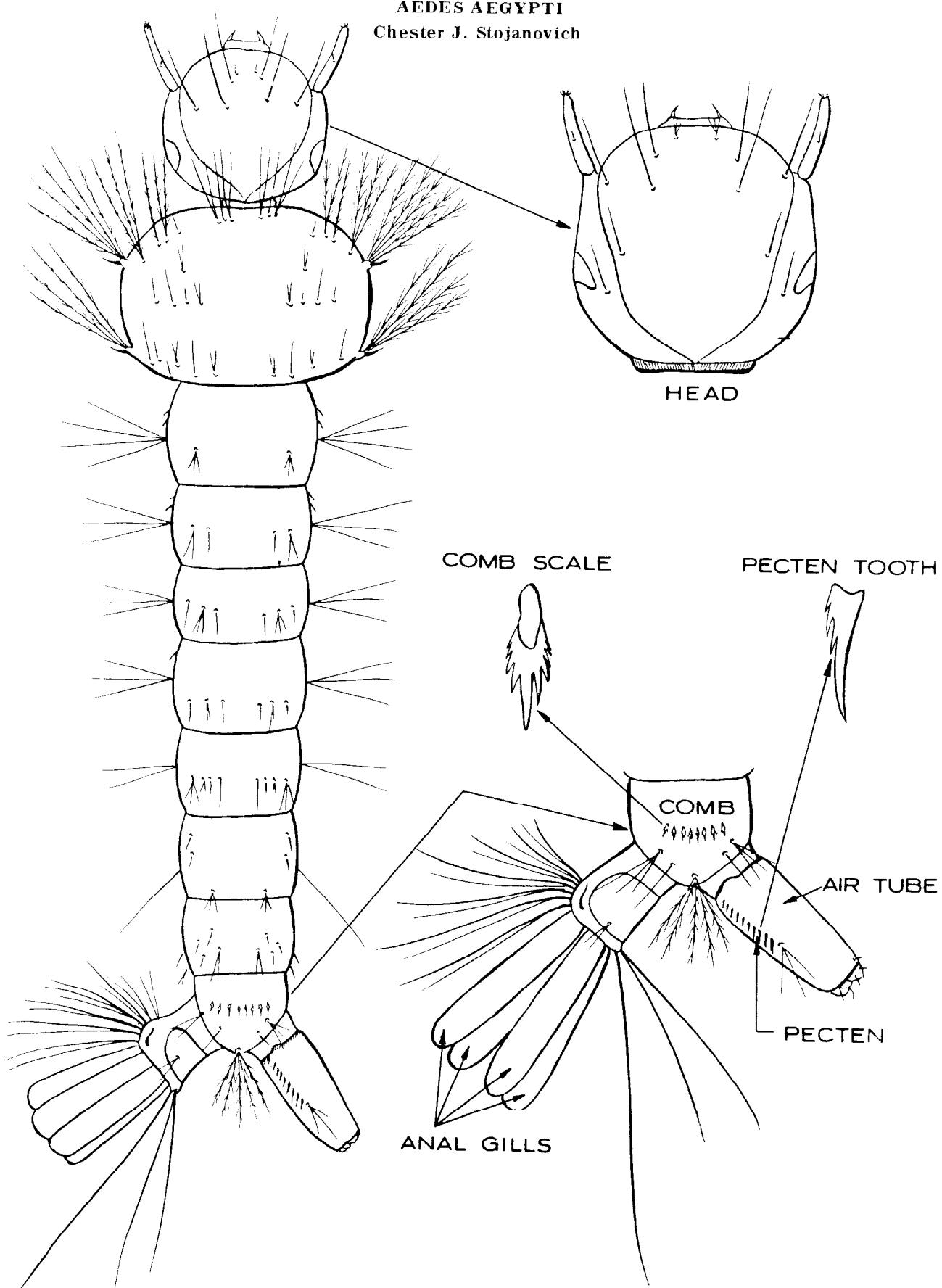
AEDES



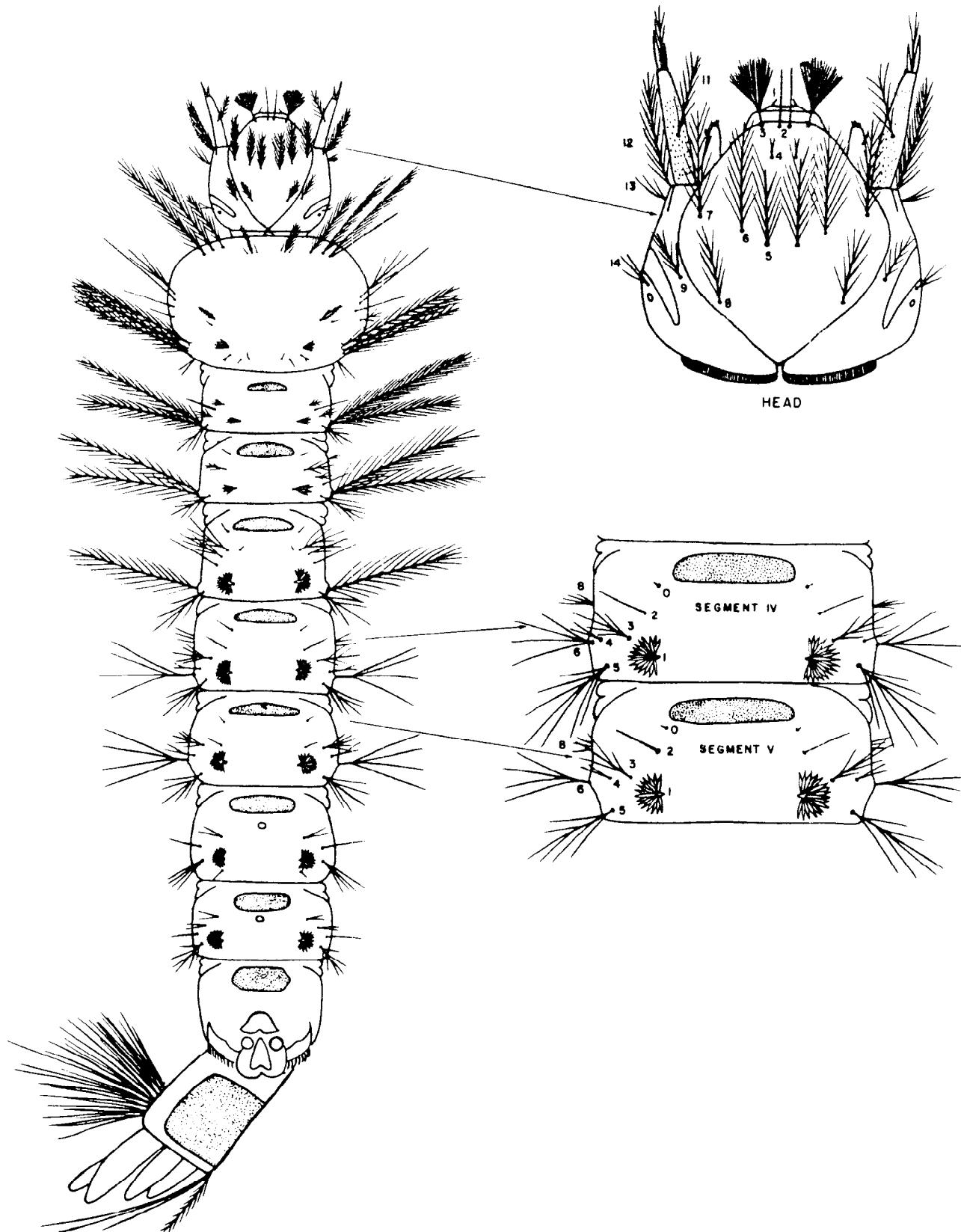
CULEX



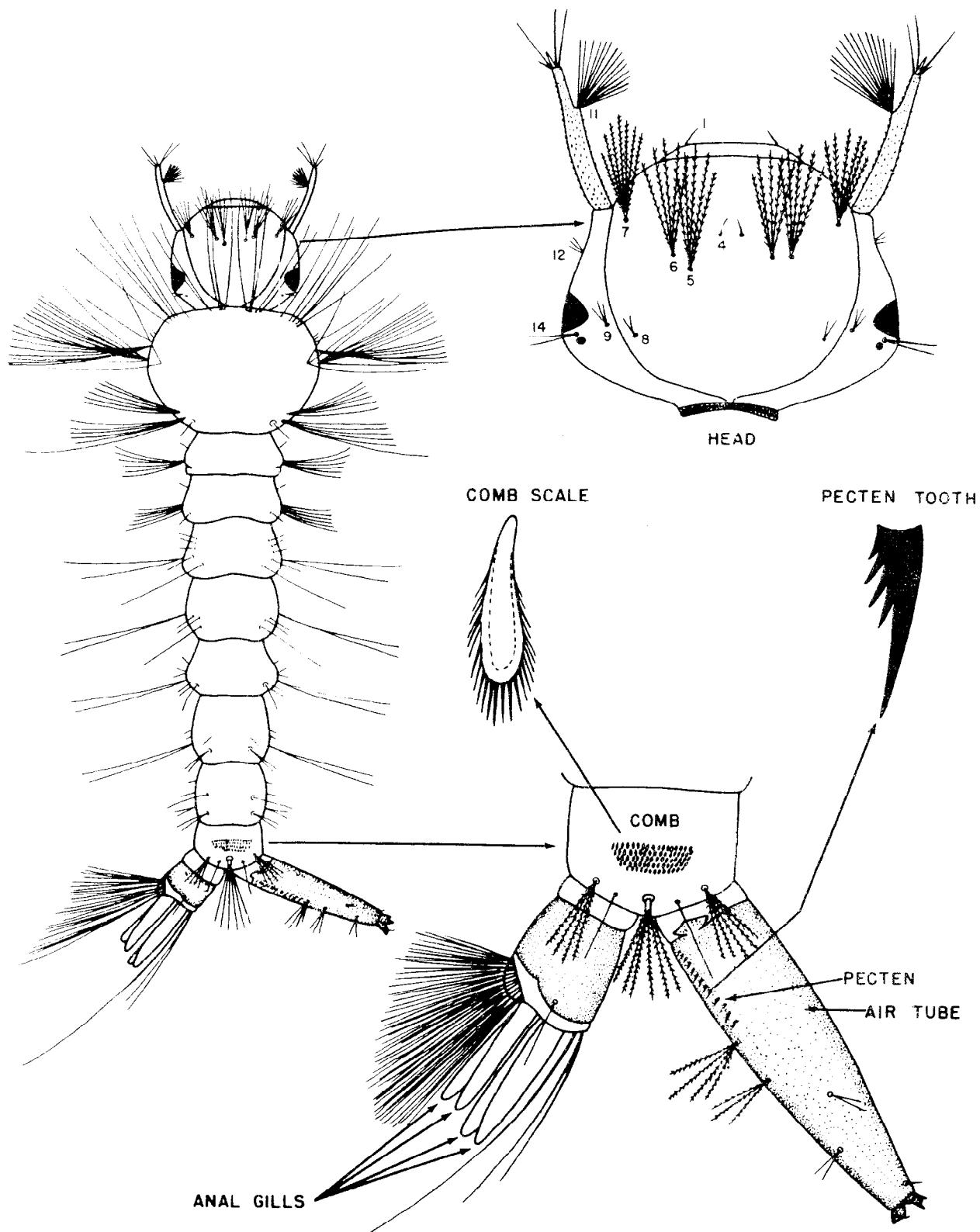
AEDES AEGYPTI
Chester J. Stojanovich



ANOPHELES QUADRIMACULATUS
Harry D. Pratt

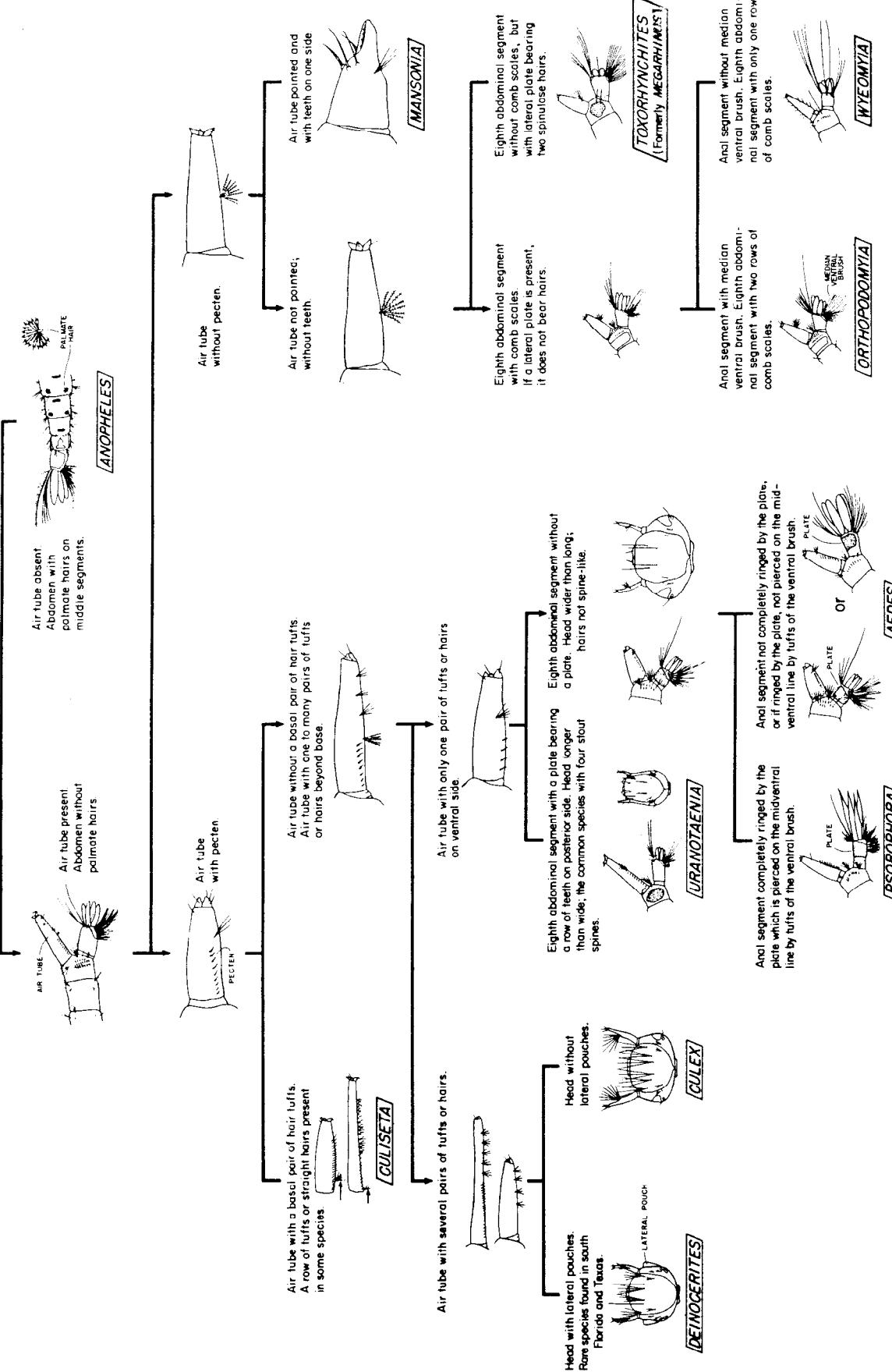


CULEX QUINQUEFASCIATUS
Harry D. Pratt



MOSQUITOES: PICTORIAL KEY TO U.S. GENERA OF LARVAE

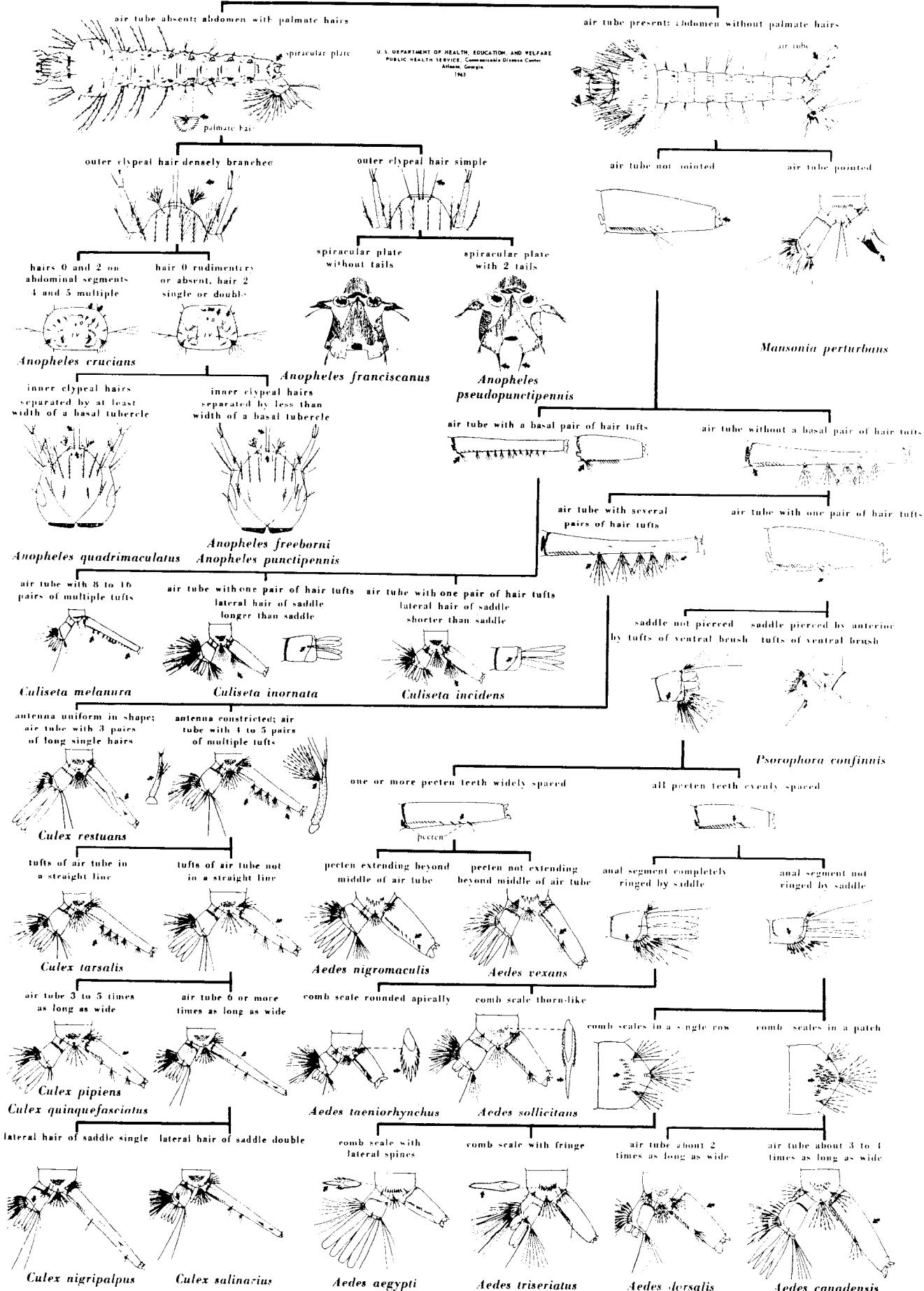
Harry D. Pratt



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

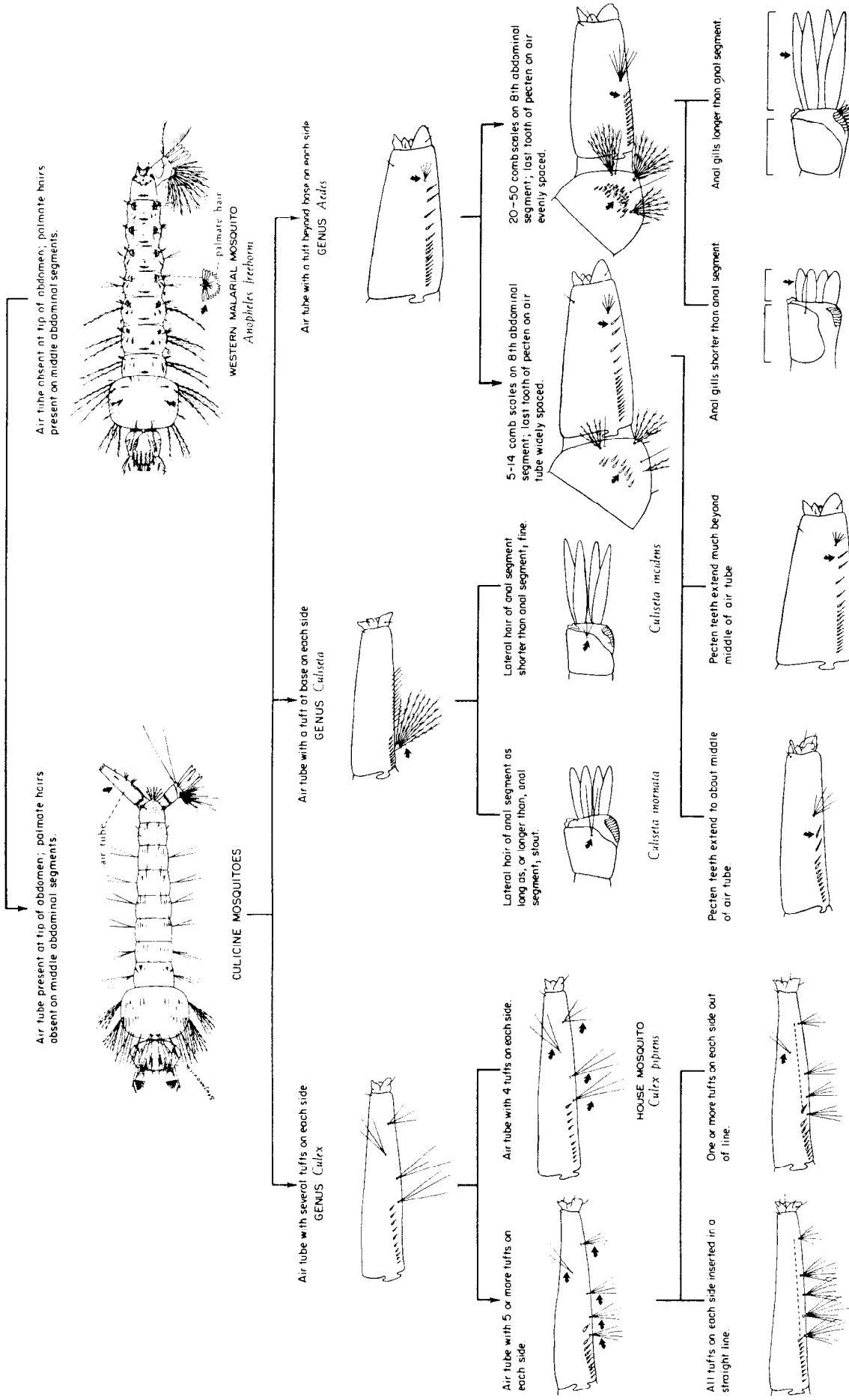
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Chester J. Stojanovich and Harry D. Pratt

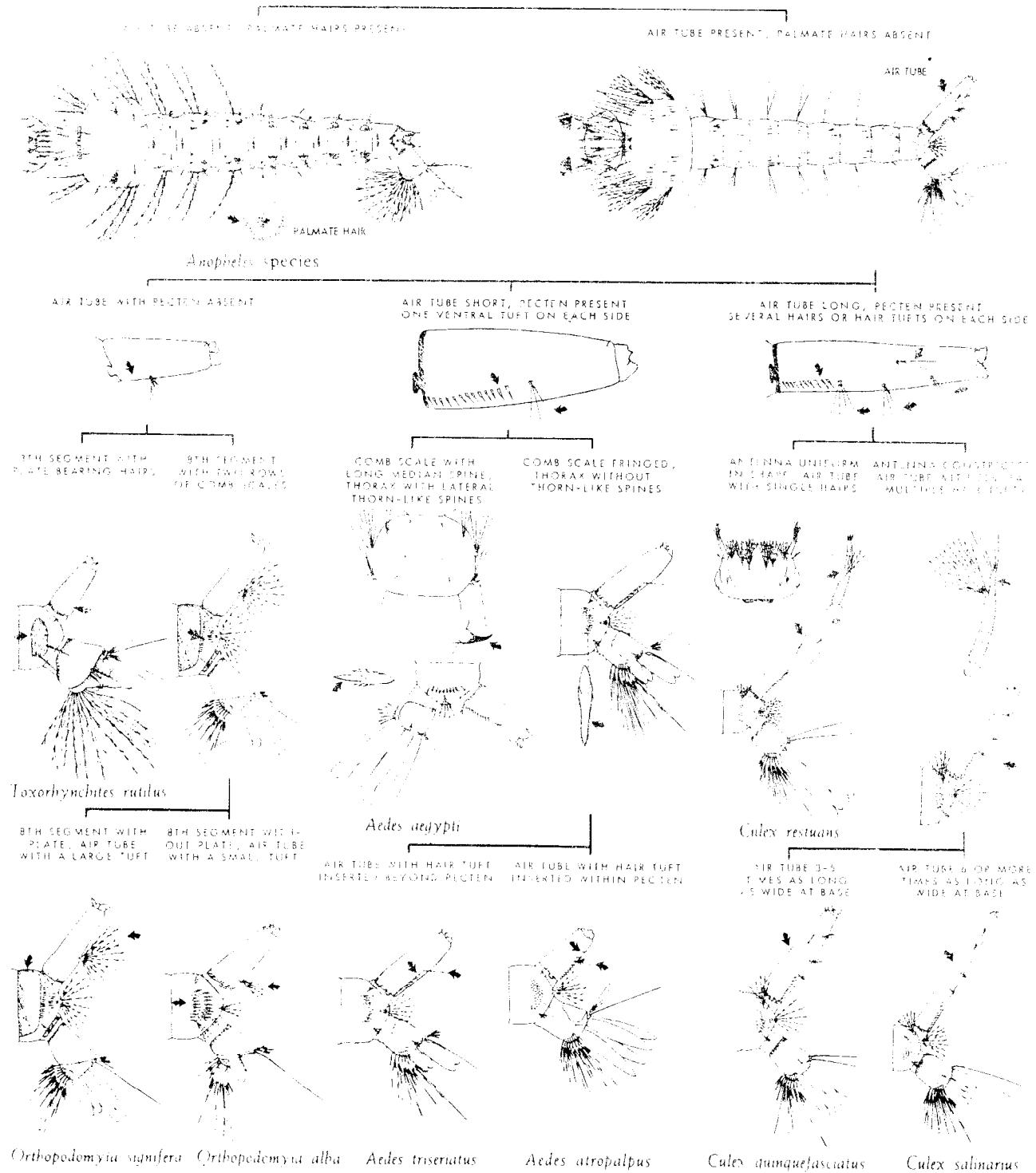


MOSQUITOES: PICTORIAL KEY TO SOME COMMON LARVAE OF WESTERN UNITED STATES

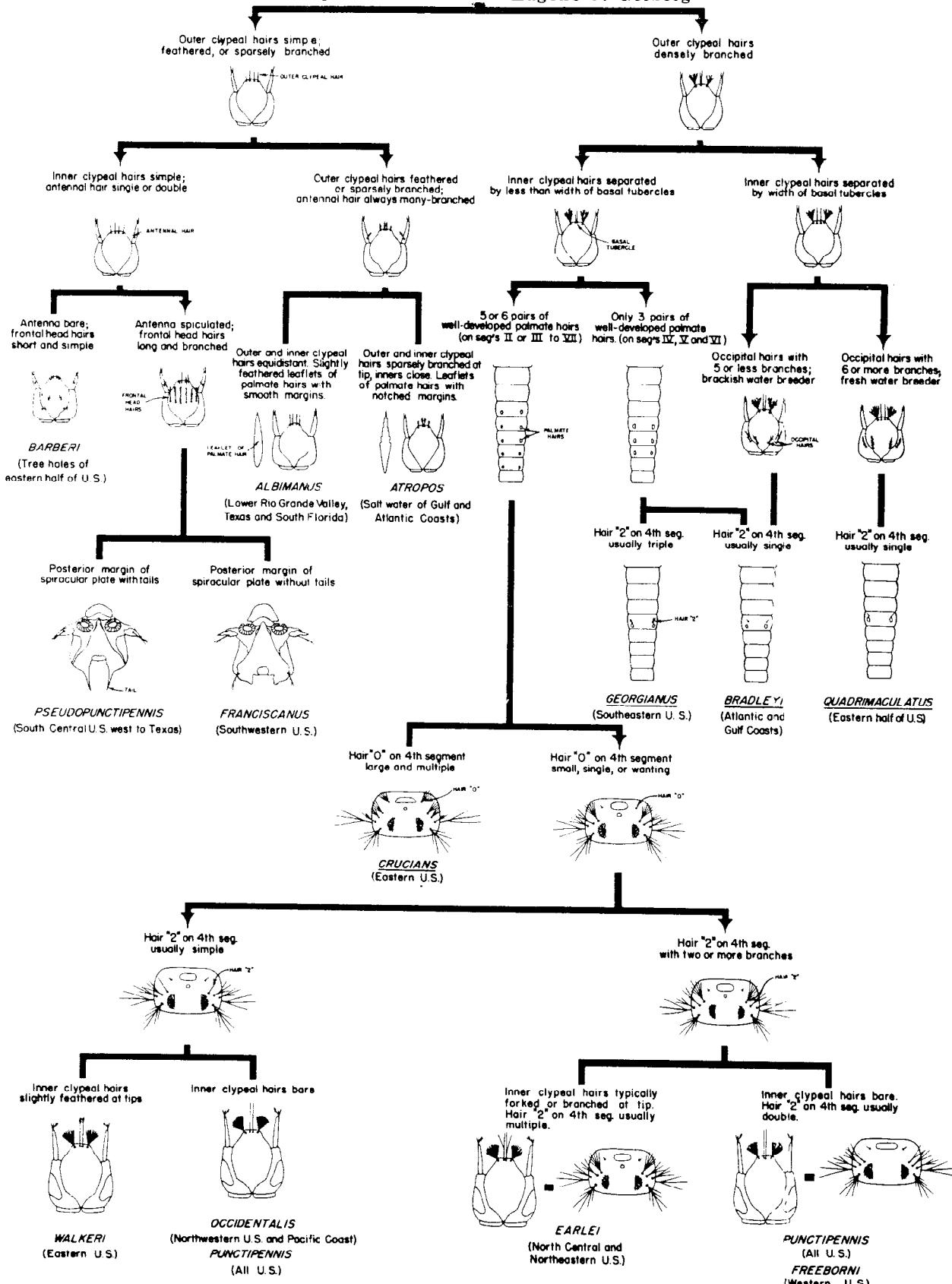
Harry D. Pratt



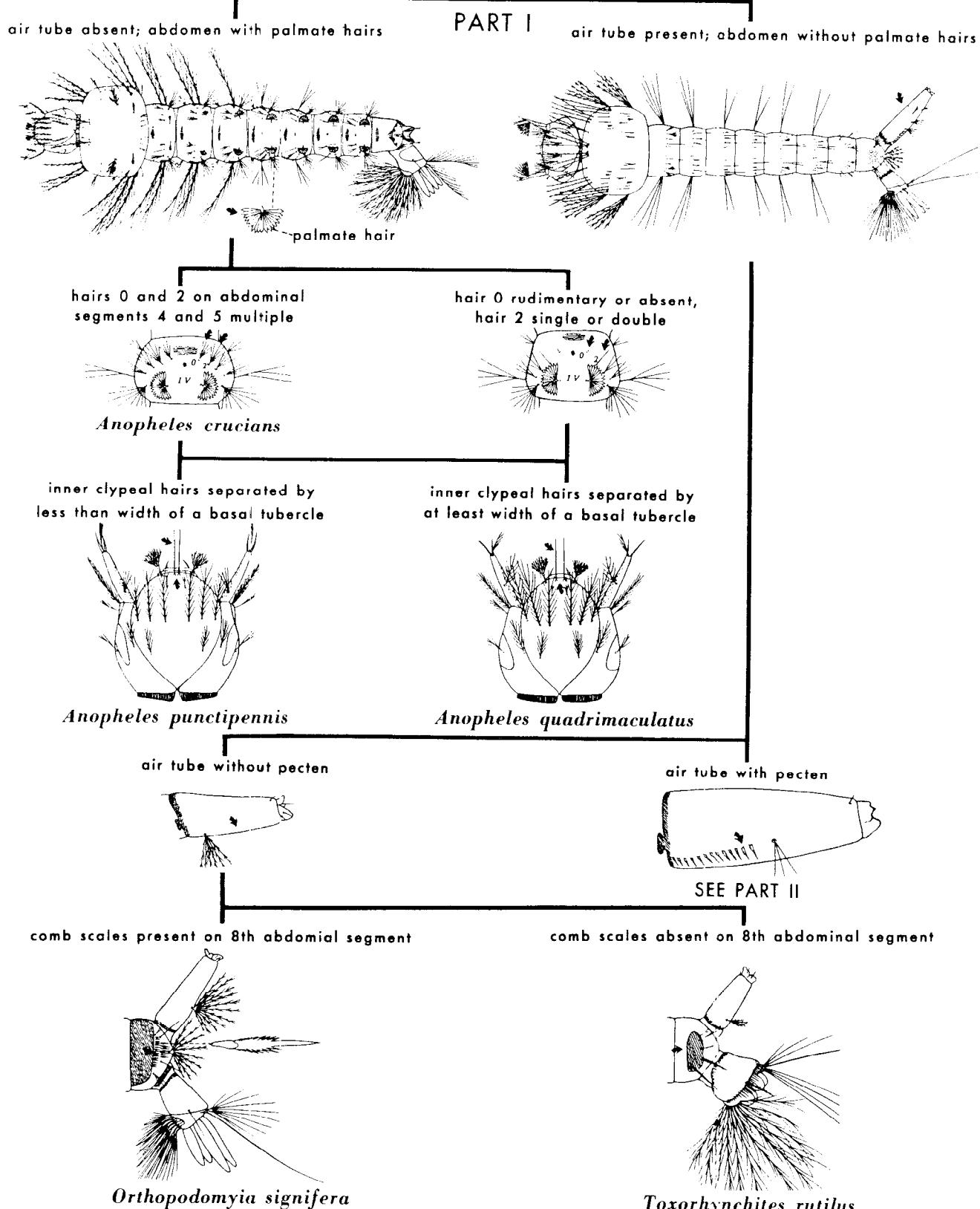
MOSQUITOES: PICTORIAL KEY TO SOME LARVAE
COMMONLY FOUND IN ARTIFICIAL CONTAINERS
Harry D. Pratt and Chester J. Stojanovich



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

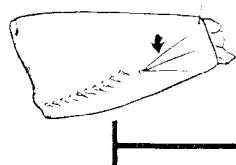


MOSQUITOES: PICTORIAL KEY TO SOME LARVAE OF FLORIDA
COMMONLY FOUND IN CONTAINERS
Chester J. Stojanovich and Harry D. Pratt



PART II

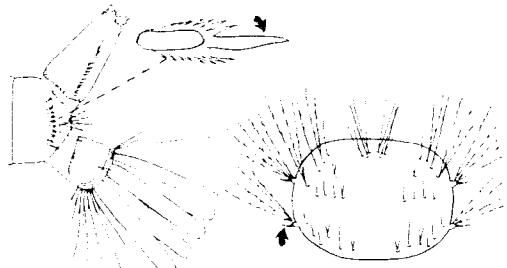
air tube with one hair or tuft on each side



air tube with several hairs or tufts on each side

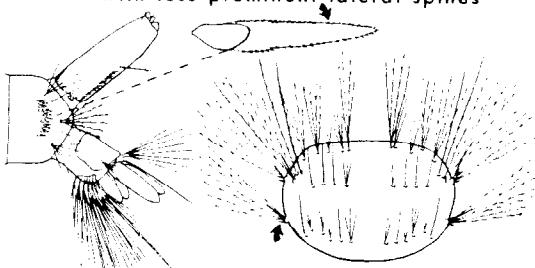


comb scales with a strong median spine,
thorax with prominent lateral spines



Aedes aegypti

comb scales with a fringe, thorax
with less prominent lateral spines

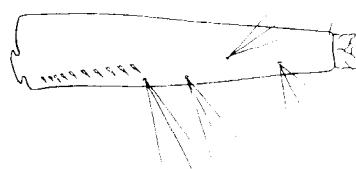


Aedes triseriatus

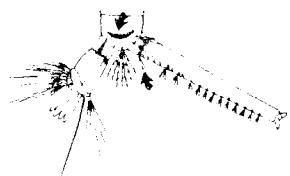
air tube at least 6 times as long as wide



air tube 3-5 times as long as wide

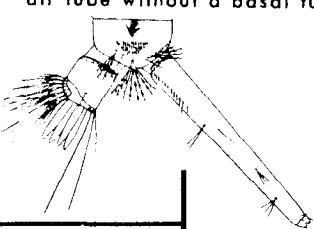


comb scales in a single row
air tube with a basal tuft

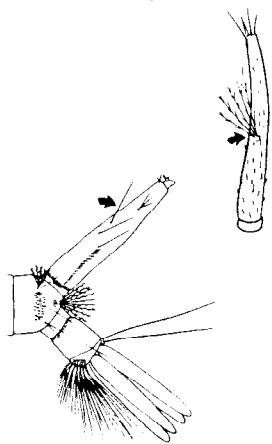


Culiseta melanura

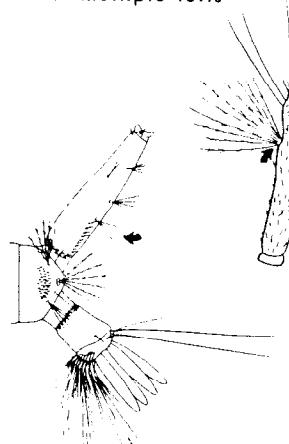
comb scales in a patch,
air tube without a basal tuft



antenna with tuft
inserted at middle
air tube with 3 pairs
of long single hairs



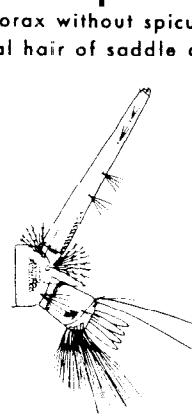
antenna with tuft
inserted beyond middle
air tube with 4 pairs
of multiple tufts



thorax with spicules,
lateral hair of saddle single



thorax without spicules,
lateral hair of saddle double



Culex nigripalpus

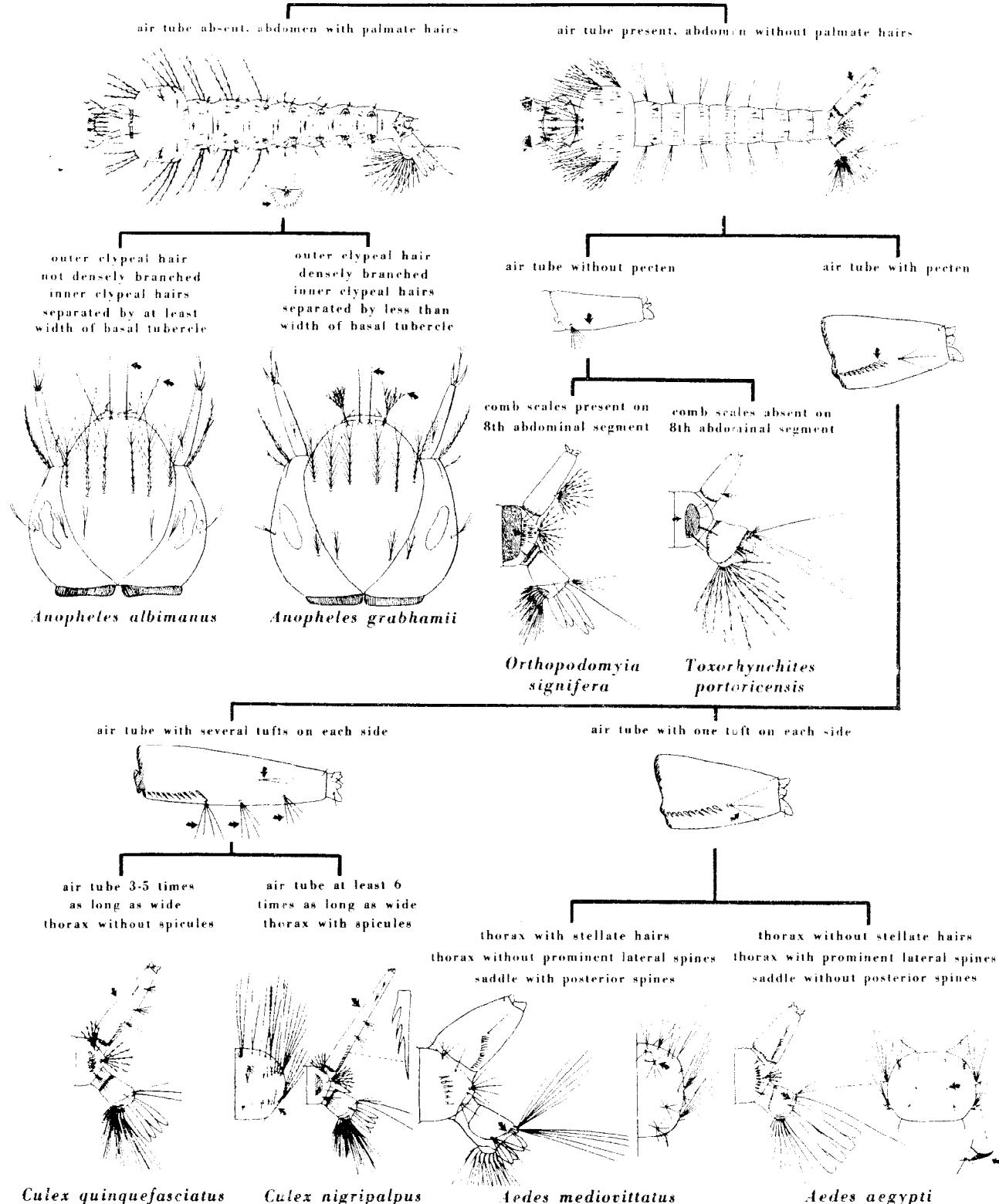
Culex salinarius

Culex restuans

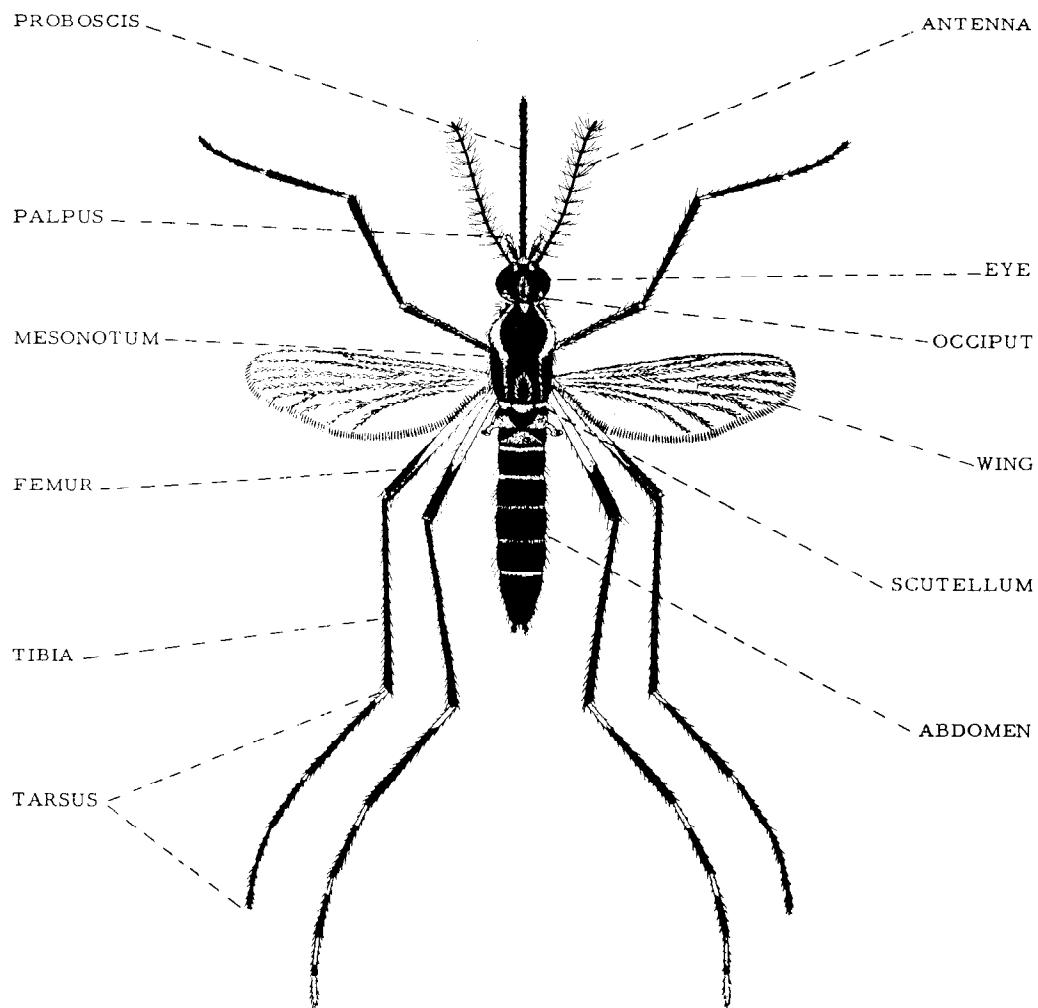
Culex quinquefasciatus

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

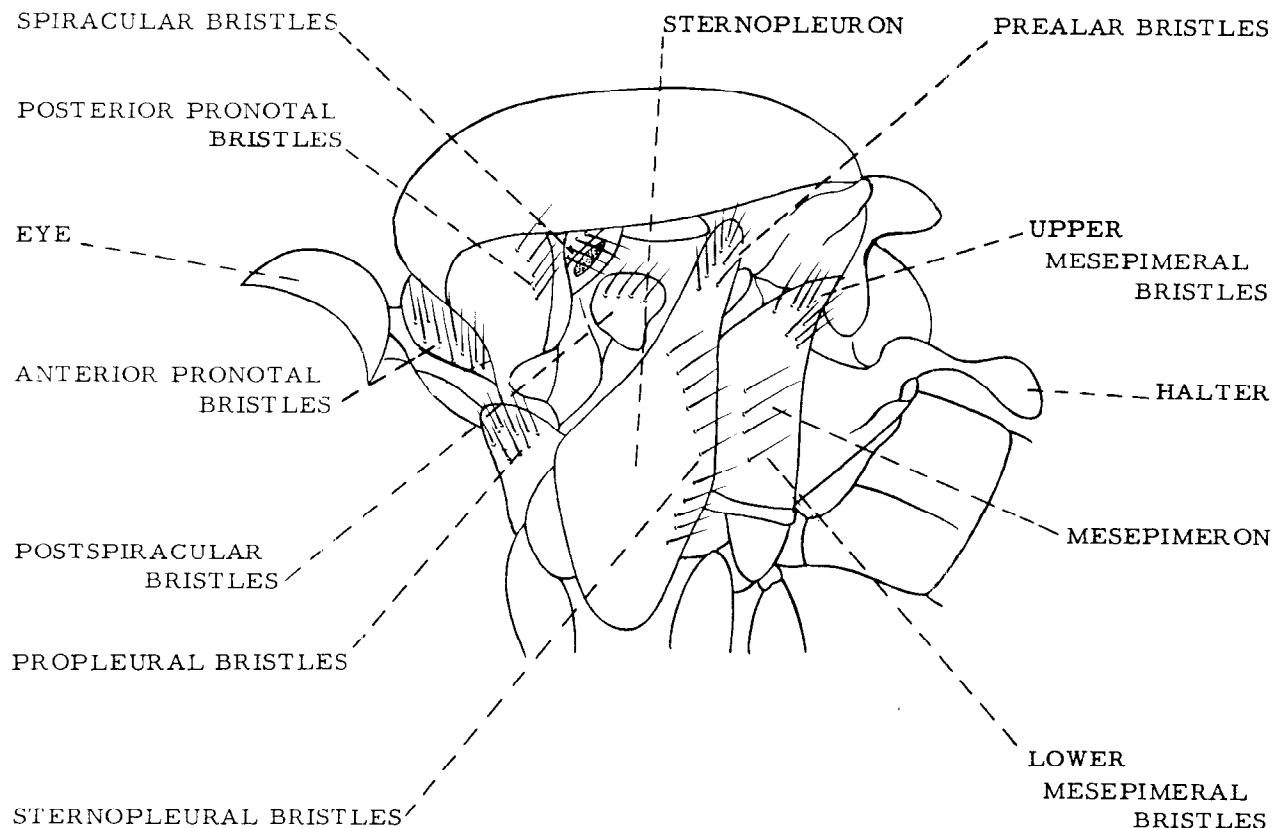
Harry D. Pratt and Chester J. Stojanovich



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

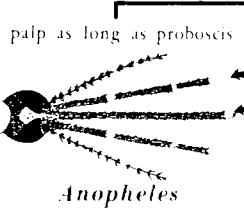


MOSQUITO DIAGRAM – LATERAL ASPECT OF MOSQUITO THORAX
Chester J. Stojanovich

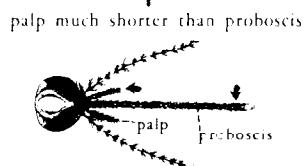


MOSQUITOES: PICTORIAL KEY TO UNITED STATES GENERA OF ADULTS (FEMALE)

Harry D. Pratt and Chester J. Stojanovich



U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE, Communicable Disease Center
Atlanta, Georgia
1963



proboscis stout on basal half, outer half tapered and strongly turned downward



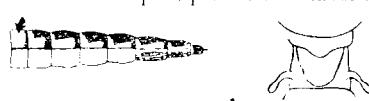
proboscis slender and never curved downward



abdominal scales dark dorsally and pale ventrally; postnotum with setae



abdominal tergites with pale bands or lateral spots; postnotum without setae



wing with second marginal cell less than half as long as its petiole



wing with second marginal cell at least as long as its petiole



Uranotaenia

abdomen blunt



abdomen pointed



base of subcosta with row of bristles on under side



base of subcosta without row of bristles on under side



dorsal segments of abdomen with pale scales apically, or if absent, hind tibia with long, erect scales



dorsal segments of abdomen with pale scales basally, hind tibia without erect scales



Caliseta

Psorophora

Aedes

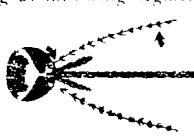
most wing scales at base of wing narrow, dark



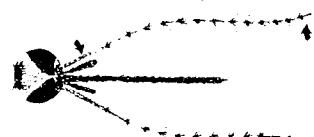
wing scales broad, mixed brown and white



antenna not longer than proboscis, first flagellar segment about as long as following segments



antenna much longer than proboscis, first flagellar segment as long as next two segments



mesonotum with fine longitudinal lines of white scales



mesonotum without lines of white scales



Culex

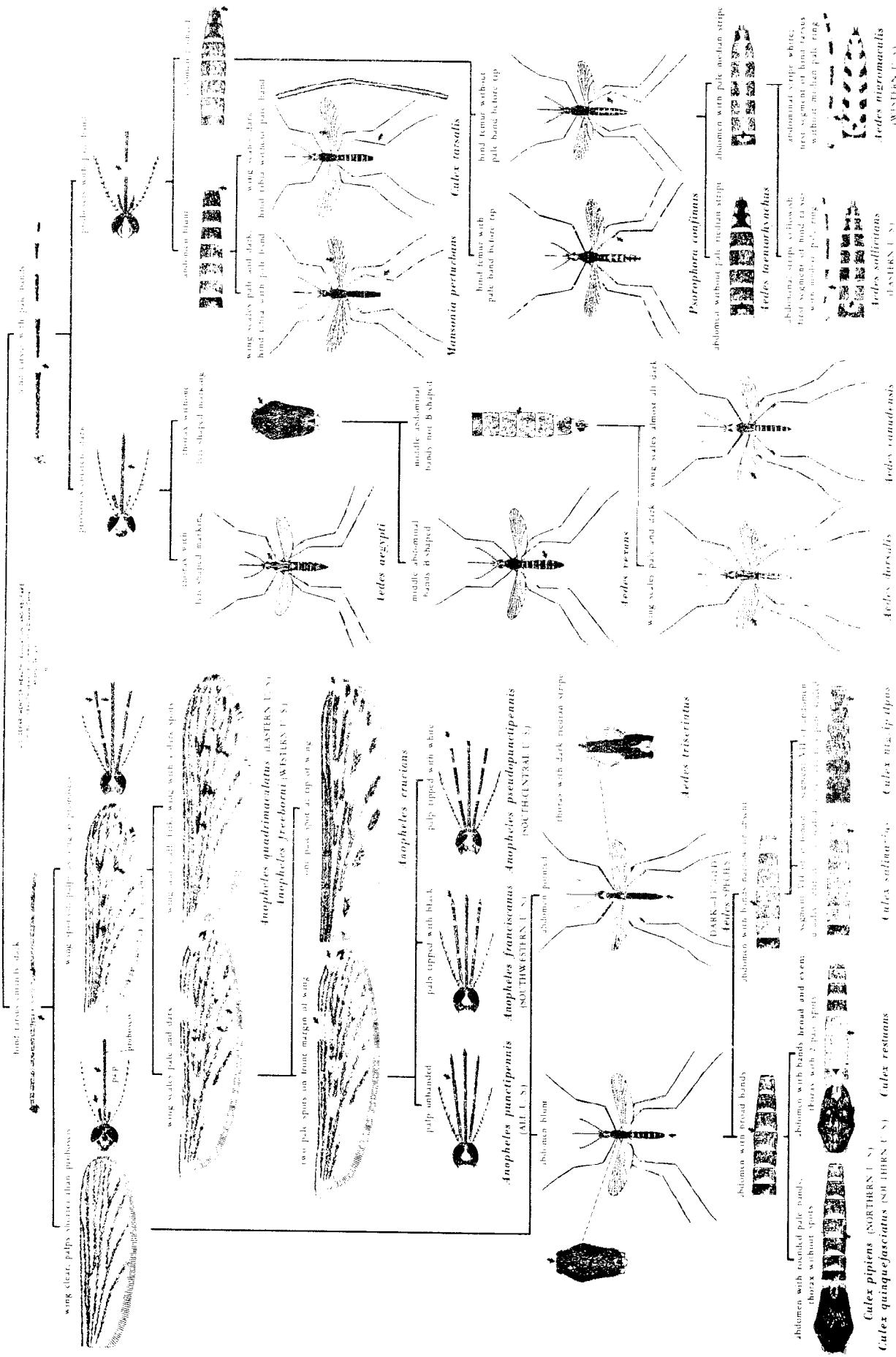
Deinocerites

Orthopodomyia

Mansonia

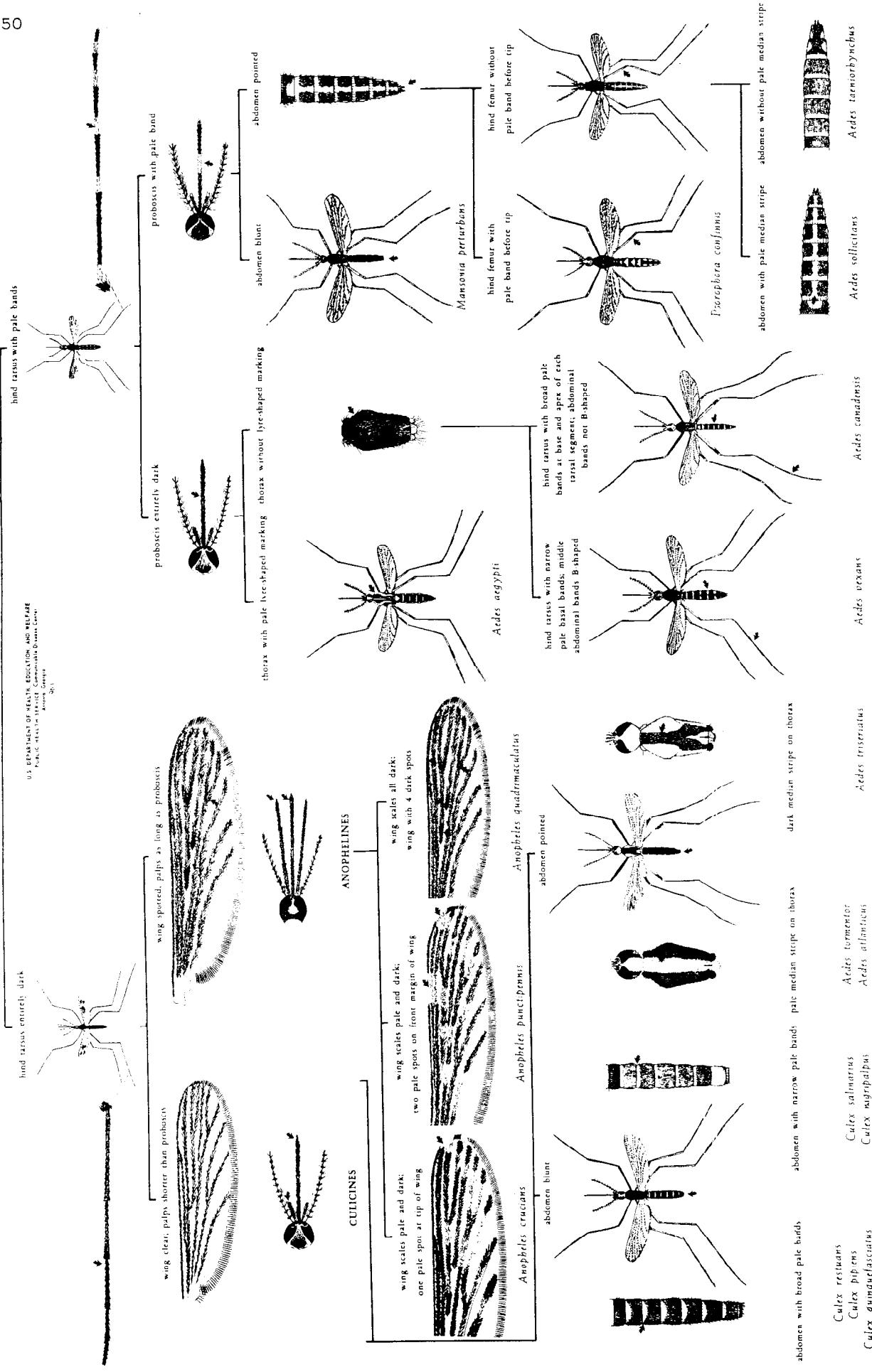
MOSQUITOES: PICTORIAL KEY TO SOME COMMON ADULTS (FEMALE) OF THE UNITED STATES

Harry D. Pratt and Chester J. Stojanovich



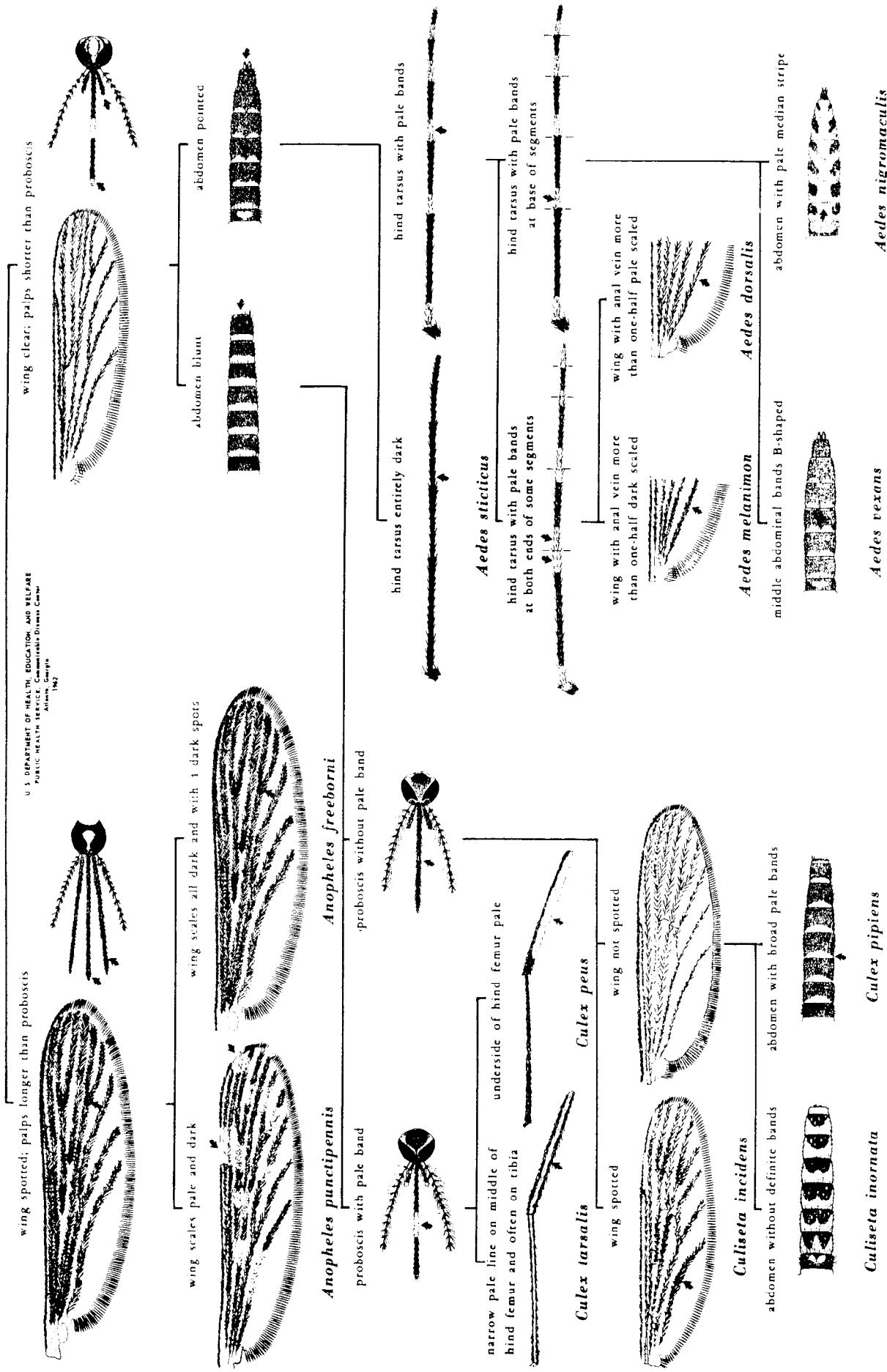
MOSQUITOES: PICTORIAL KEY TO SOME ADULTS (FEMALE) IN EASTERN UNITED STATES

Harry D. Pratt and Chester J. Stojanovich

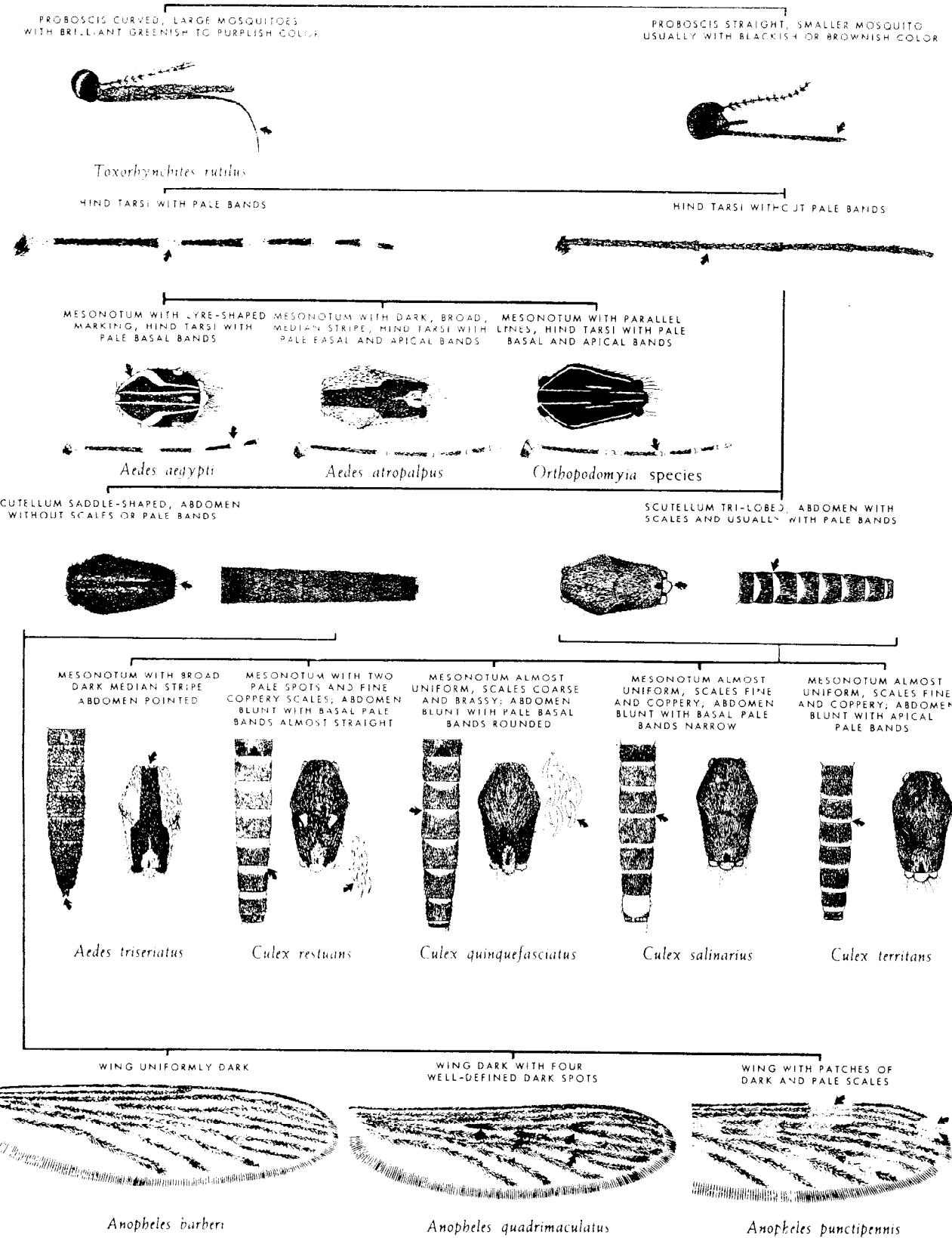


MOSQUITOES: PICTORIAL KEY TO SOME COMMON ADULTS (FEMALE) OF WESTERN UNITED STATES

Harry D. Pratt and Chester J. Stojanovich

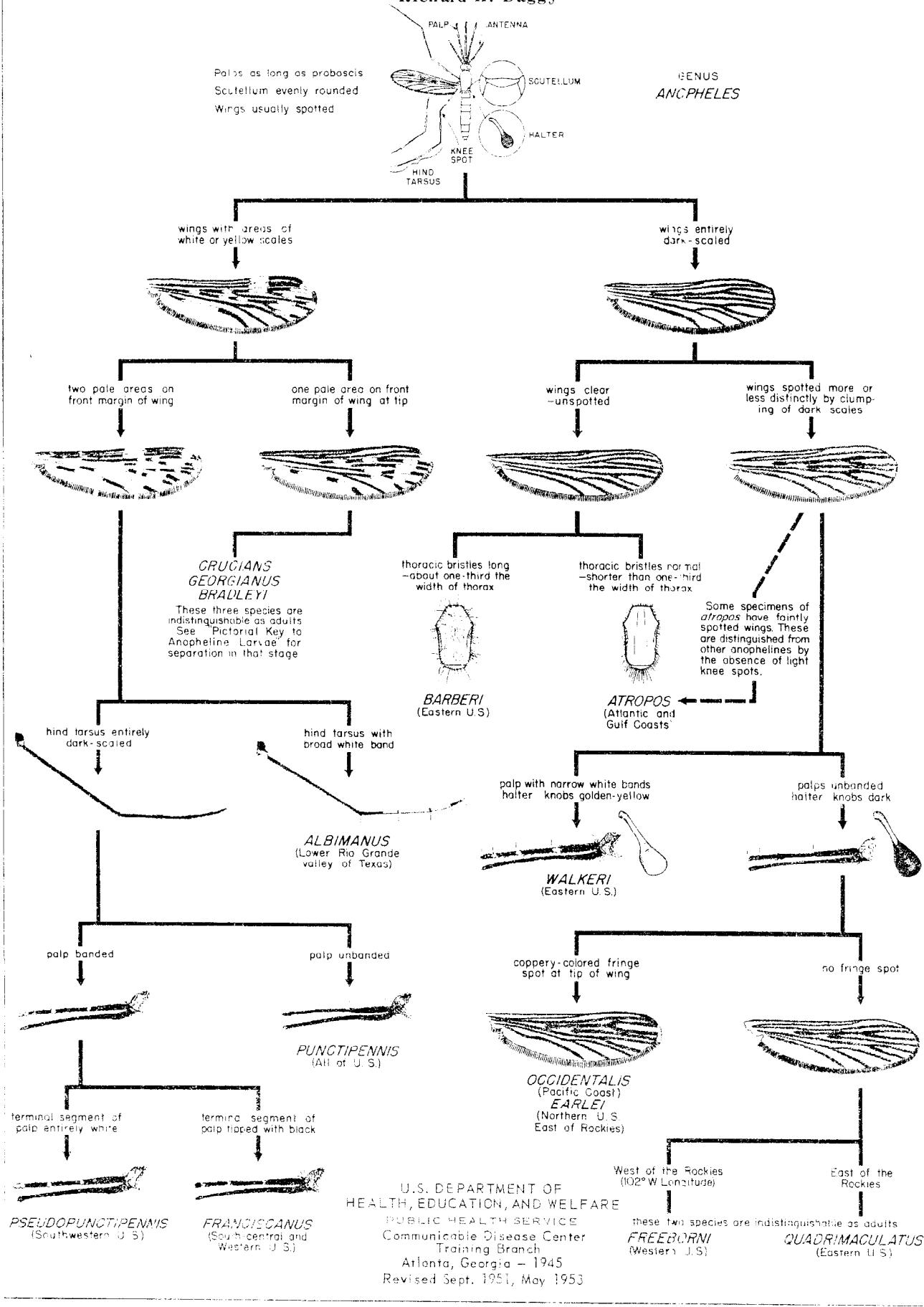


MOSQUITOES: PICTORIAL KEY TO SOME ADULTS
COMMONLY ASSOCIATED WITH AEDES AEGYPTI
Harry D. Pratt and Chester J. Stojanovich



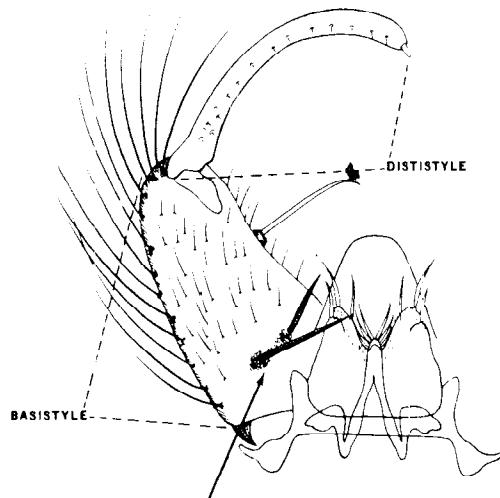
MOSQUITOES: PICTORIAL KEY TO ADULT FEMALE ANOPHELINES OF UNITED STATES

Richard H. Daggy



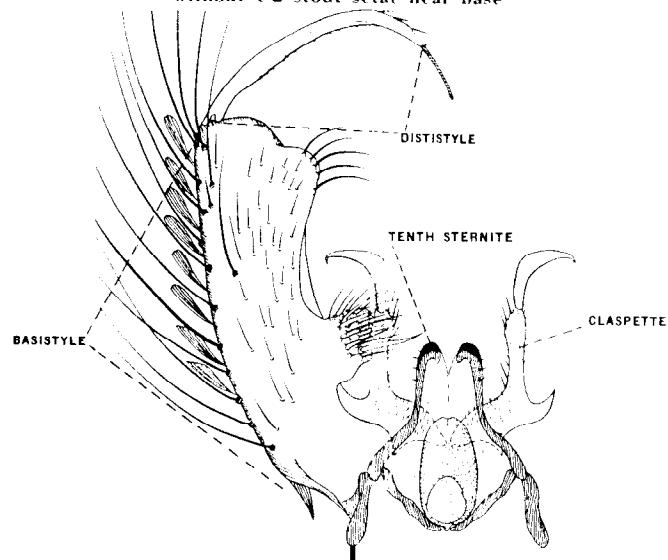
MOSQUITOES: PICTORIAL KEY TO UNITED STATES GENERA
BASED ON MALE GENITALIA
PART I
Chester J. Stojanovich

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

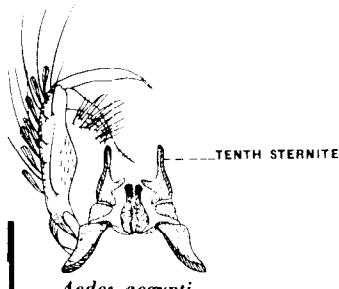
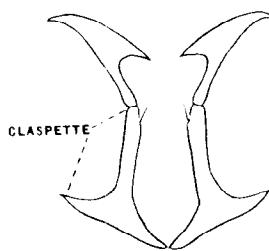


Anopheles

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

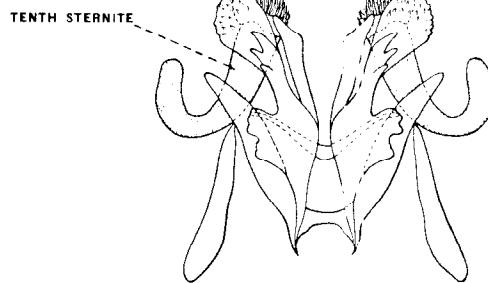


claspette present 'absent only in *Aedes aegypti* as shown below'



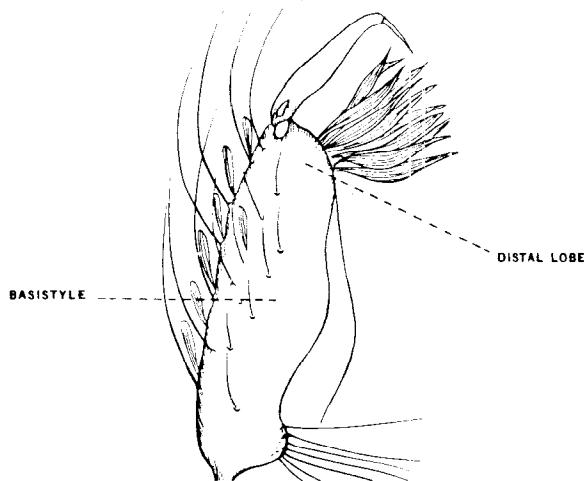
Aedes aegypti

claspette absent



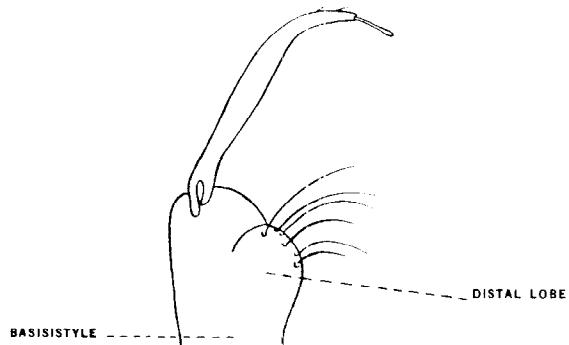
SEE PART II SECTION II

distal lobe of basistyle with leaf-like scales



Haemagogus

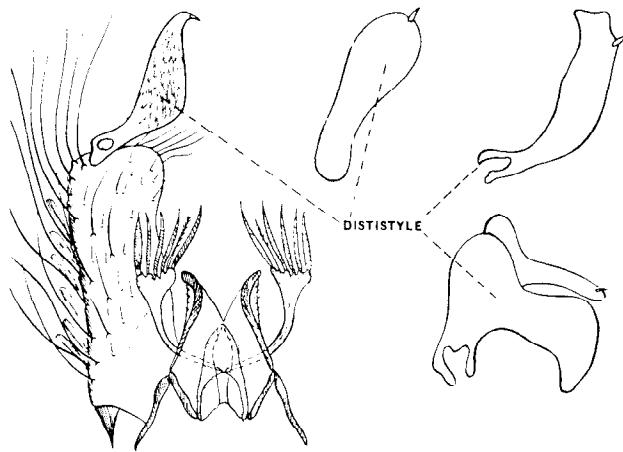
distal lobe when present without leaf-like scales



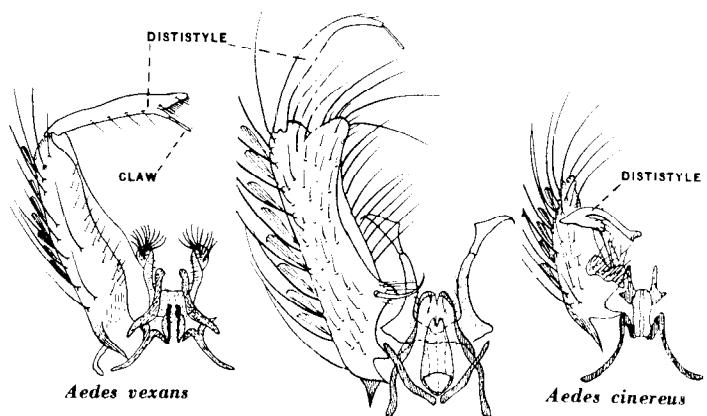
SEE PART II SECTION I

PART II**PART II SECTION I**

dististyle not slender but variously shaped as shown below

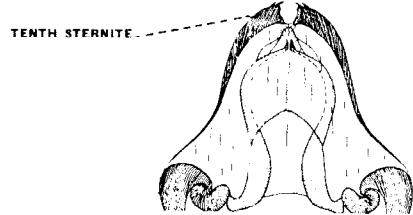
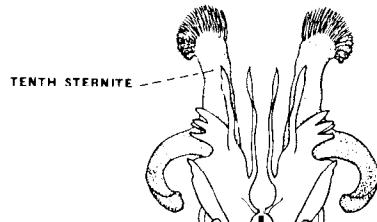


dististyle slender 'exceptions being
Aedes cinereus with dististyle furcate at base and
Aedes vexans with claw of dististyle not inserted at tip

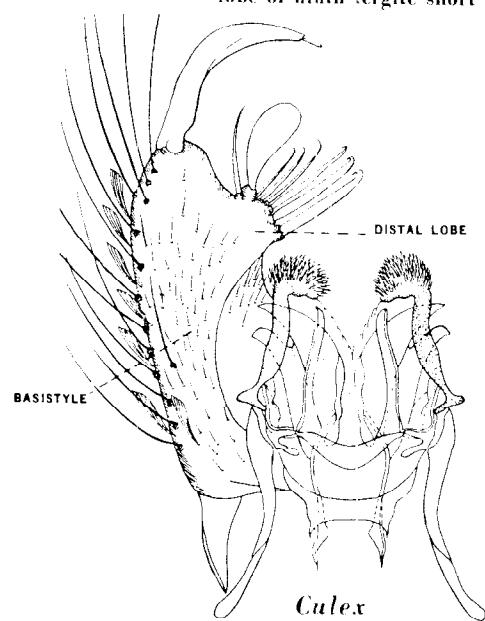
***Psorophora******Aedes*****PART II SECTION II**

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

