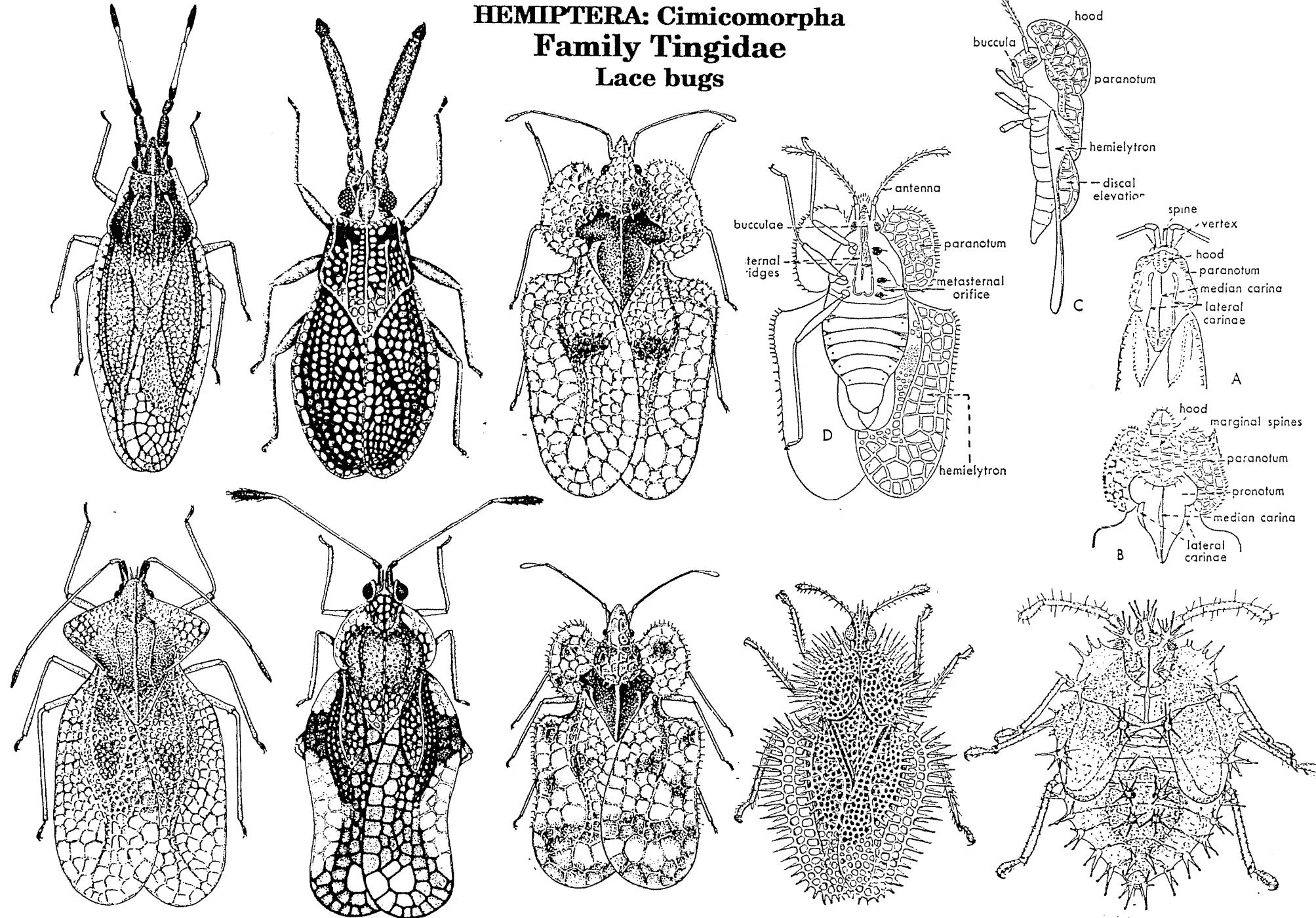
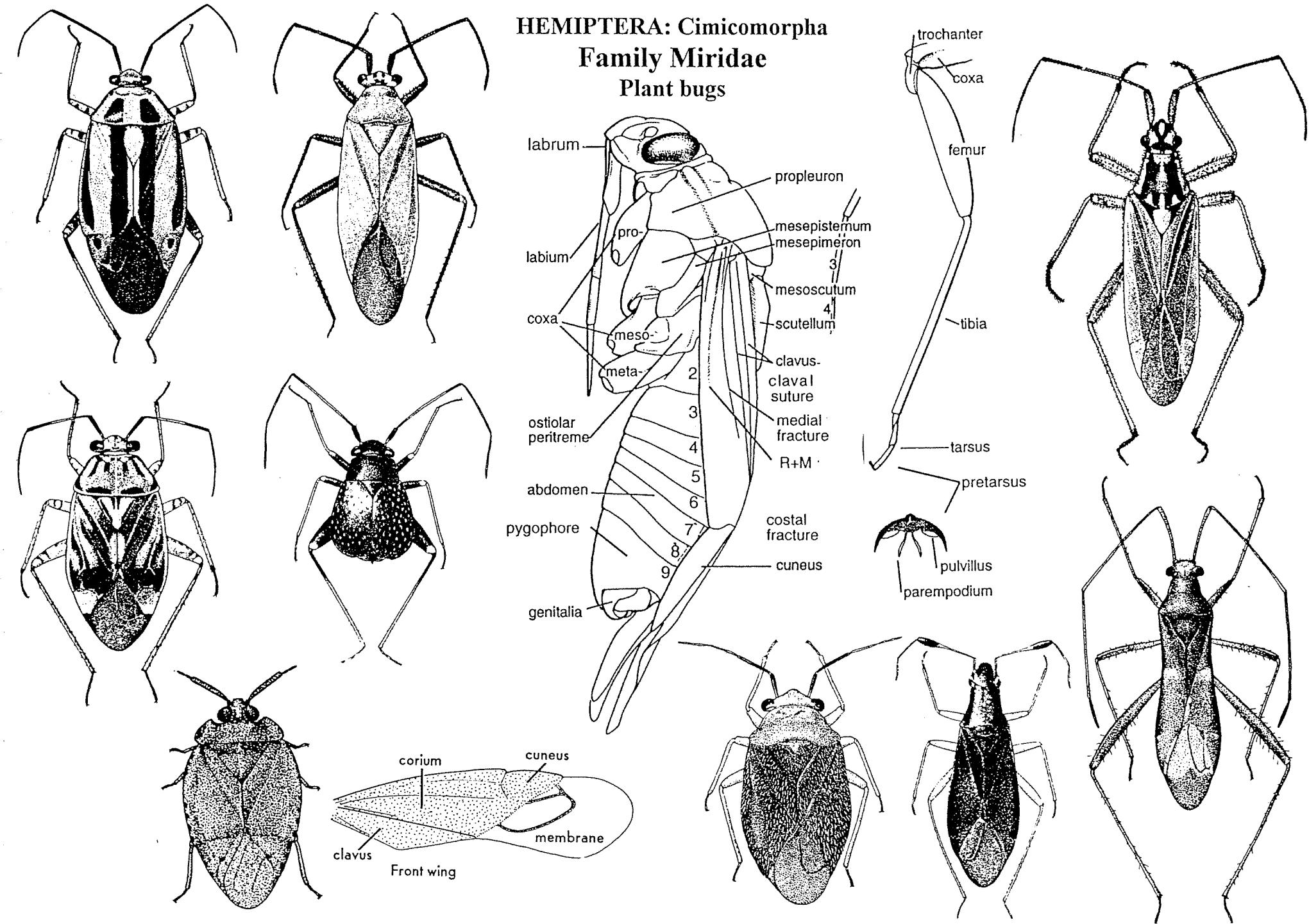


HEMIPTERA: Cimicomorpha
Family Tingidae
Lace bugs

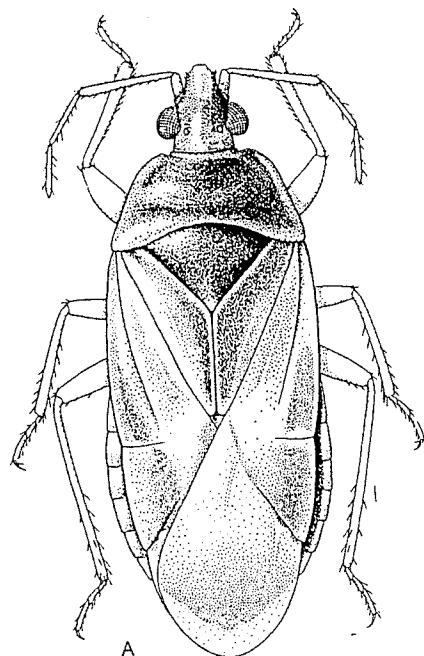


HEMIPTERA: Cimicomorpha
Family Miridae
 Plant bugs



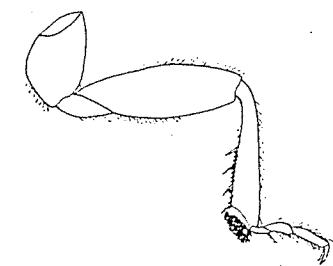
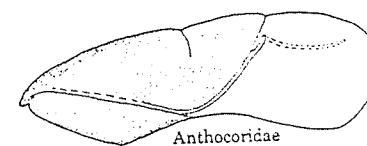
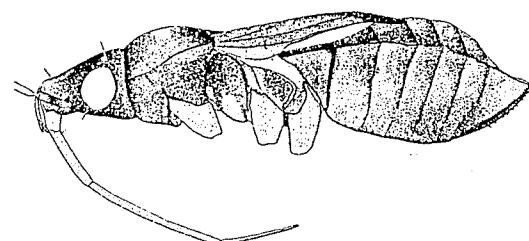
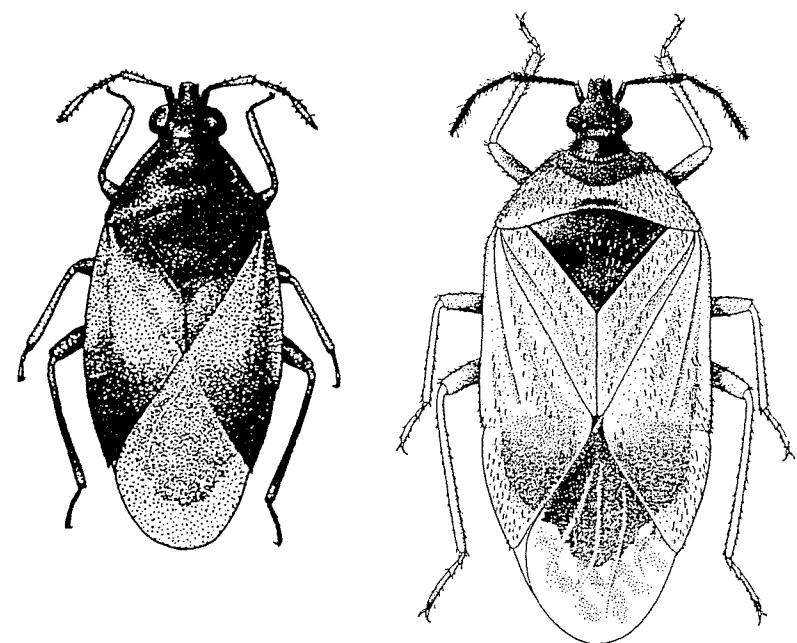
HEMIPTERA: Cimicomorpha

Family Lyctocoridae
Lyctocorid bugs



A

Family Anthocoridae
Minute pirate bugs



HEMIPTERA: Cimicomorpha
Family Cimicidae
Bed bugs

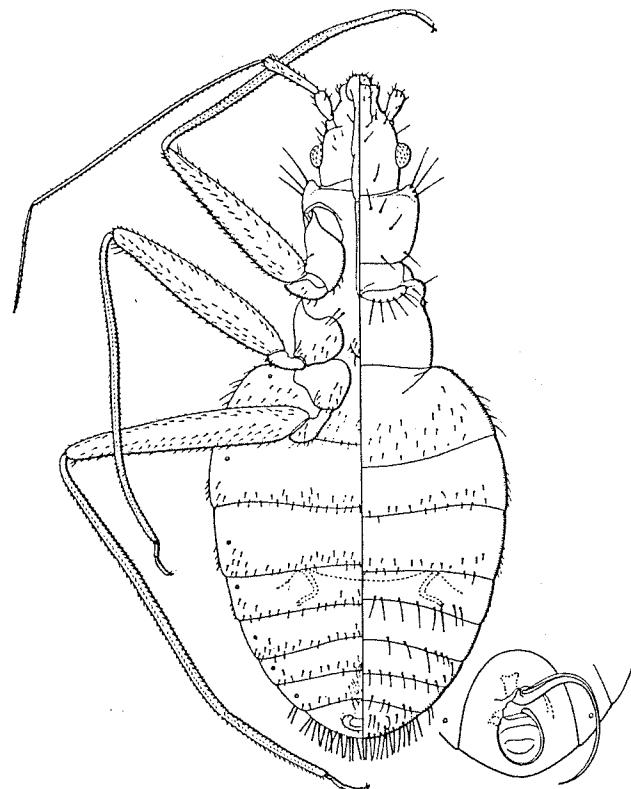
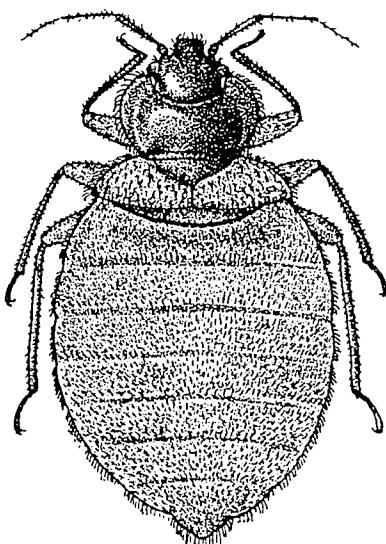


FIG. 12-59.—*Leptocimex duplicatus* Usinger. Female paratype and male genitalia. Mycerinus Pyramid, Giza, Egypt (Usinger 1960).



Cimex lectularius

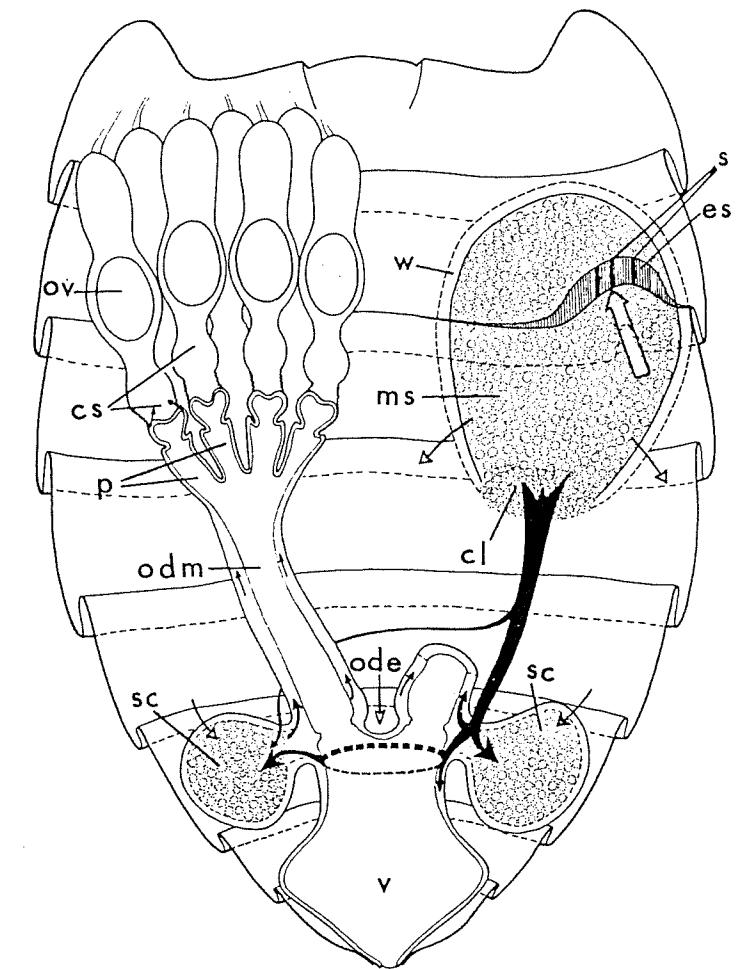


FIG. 7-1.—Diagram of paragenital system and process of insemination in Cimicidae, based principally on *Cimex* "type." Right ovary and nearly all of corresponding lateral oviduct omitted, and spermalege shown farther forward than actually the case in *Cimex*. Short, broad white arrow shows course followed by paramere of ♂ in reaching ectospermalege (hatched and crossed by 3 black bands representing scars of copulation). Black arrows indicate normal routes of migration of spermatozoa from mesospermalege to bases of ovarioles. Small arrows with white points correspond to migratory routes never or rarely used in *Cimex* but seen in other Cimicidae. Cl, conductor lobe; cs, syncytial body; es, ectospermalege; ms, mesospermalege; od e, paired ectodermal oviduct; od m, paired mesodermal oviduct; ov, oocyte; p, pedicel; s, scars or traces of copulation; sc, seminal conceptacle; v, vagina; w, wall of mesospermalege.

HEMIPTERA: Cimicomorpha
Family Cimicidae
Bed bugs

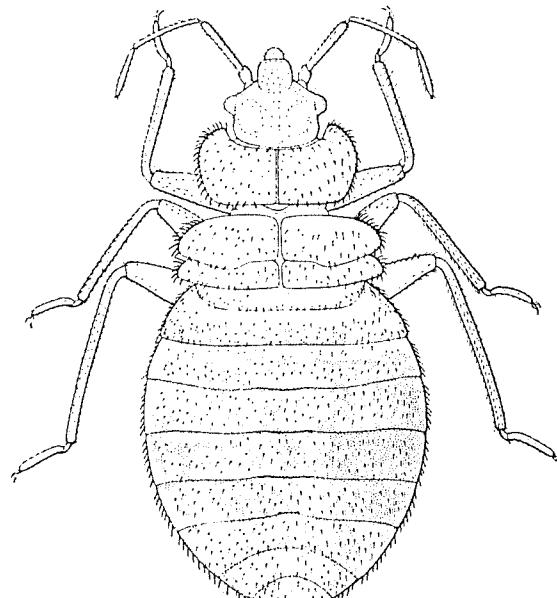
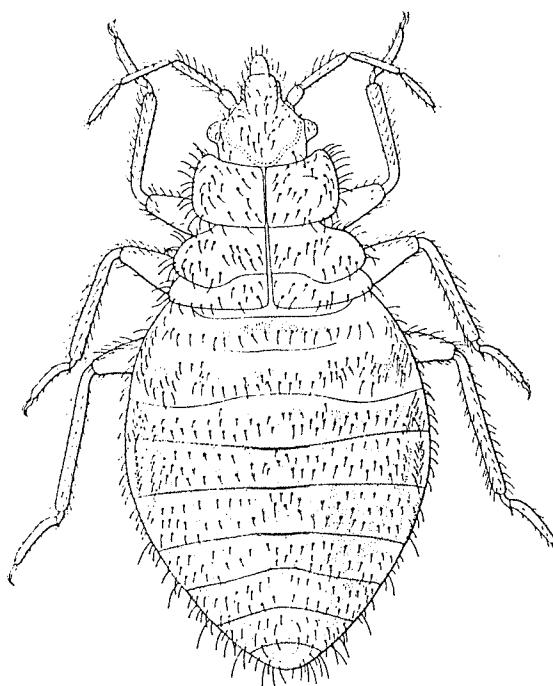


FIG. 13-10.—*Cimex lectularius*. Last-instar nymph.



—*Oeciacus vicarius*. Last-instar nymph.

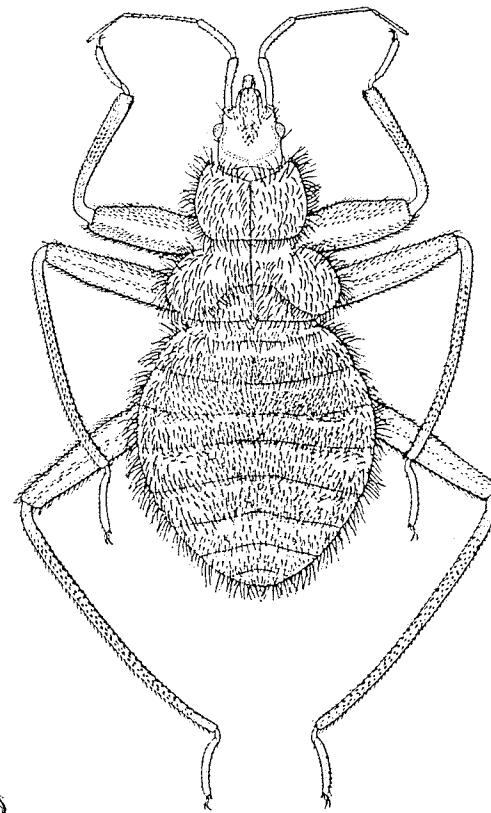
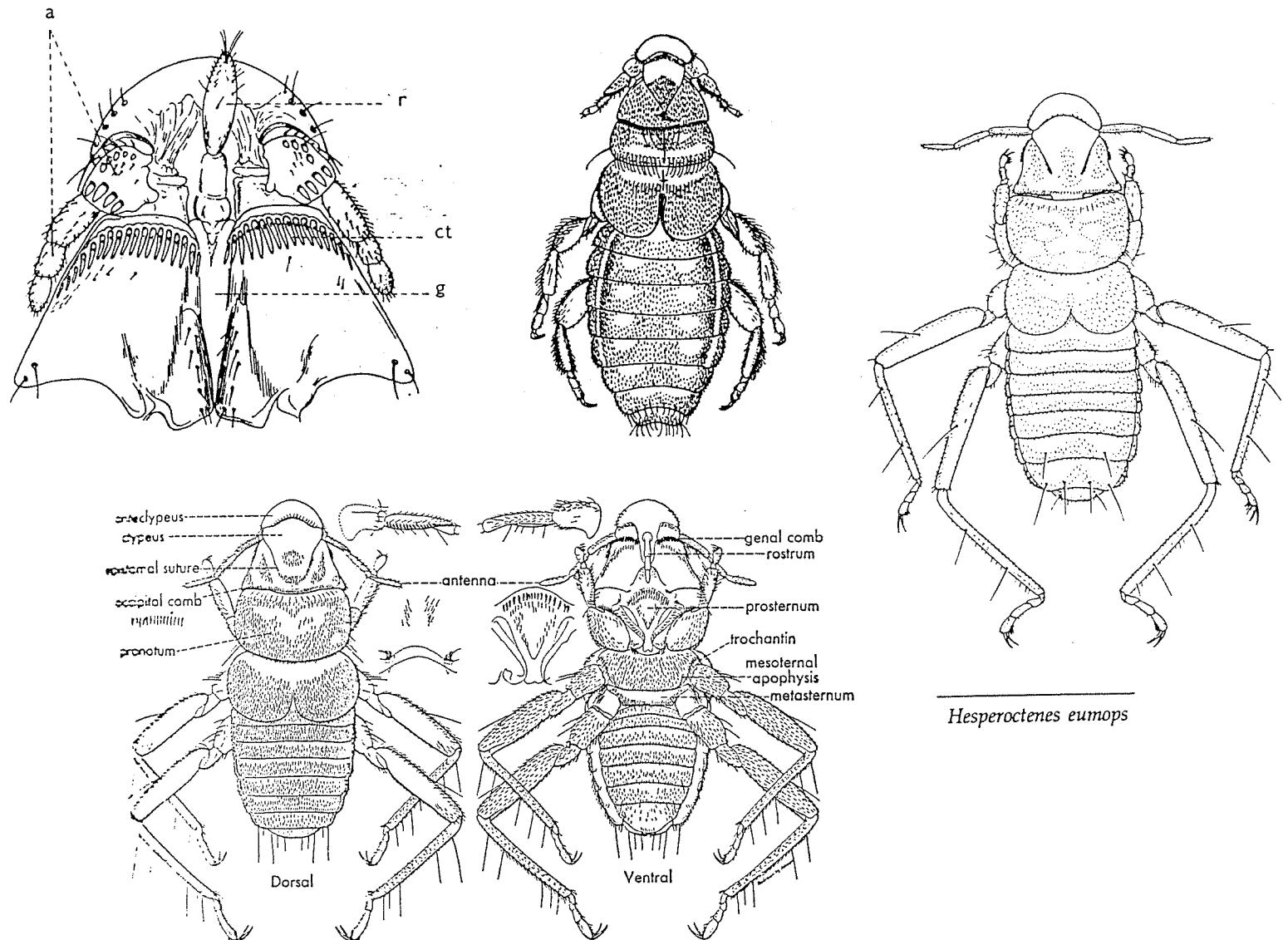


FIG. 13-6.—*Praelaticecimex cavernis*. Last-instar nymph.

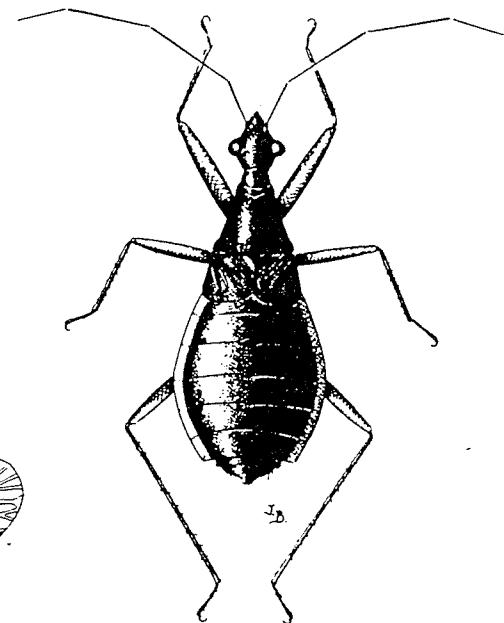
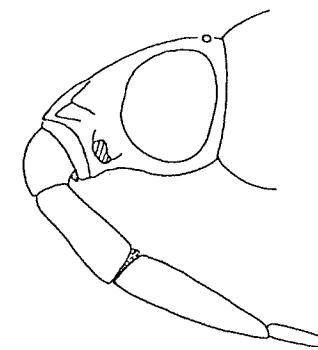
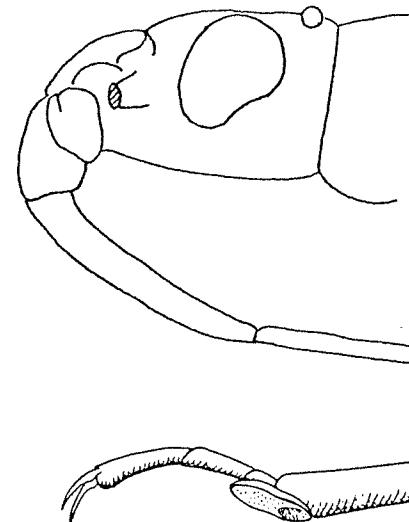
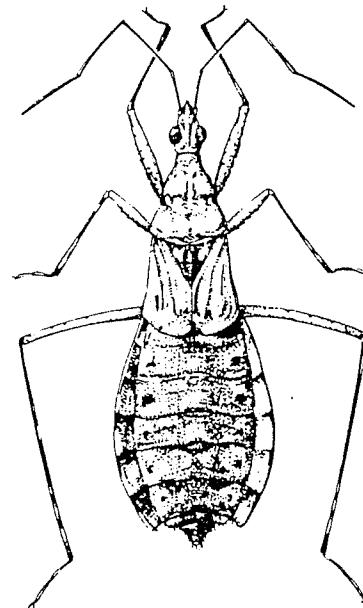
HEMIPTERA: Cimicomorpha
Family Polycetenidae
Bat bugs



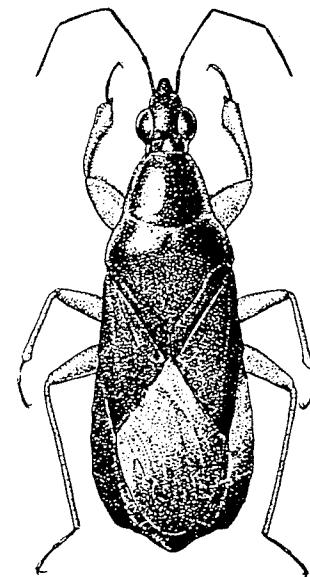
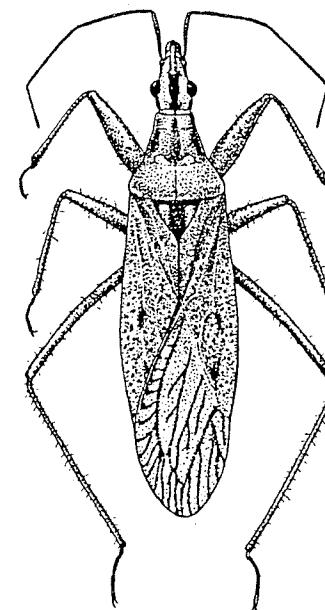
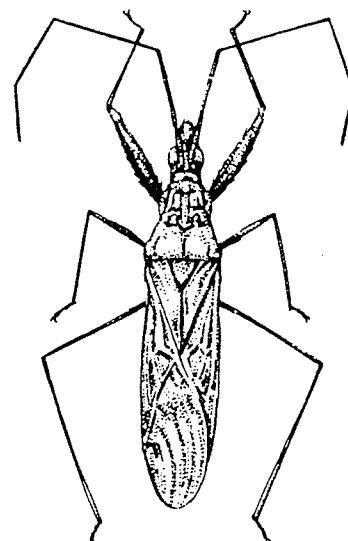
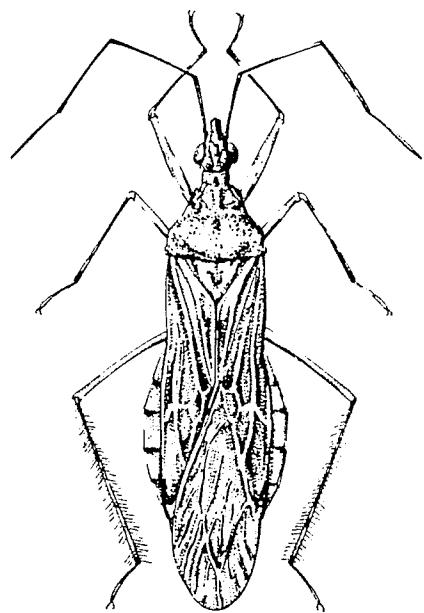
Hesperocenes eumops

The bat bug, *Hesperocenes impressus* Horvath, a South American ectoparasite of free-tailed bats. (Redrawn from Ferris, 1939.)

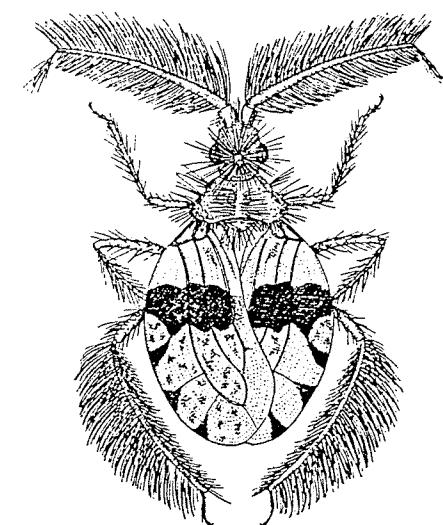
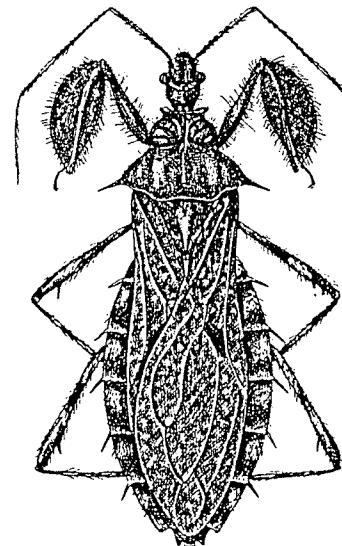
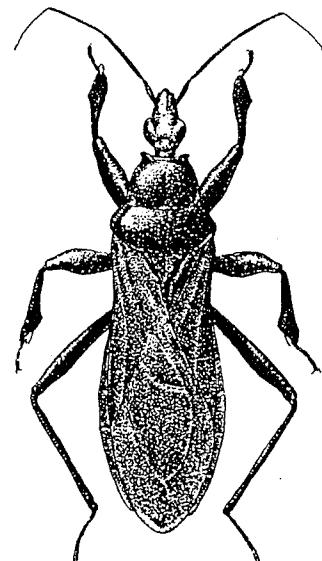
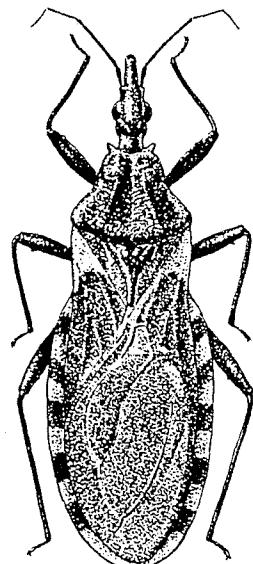
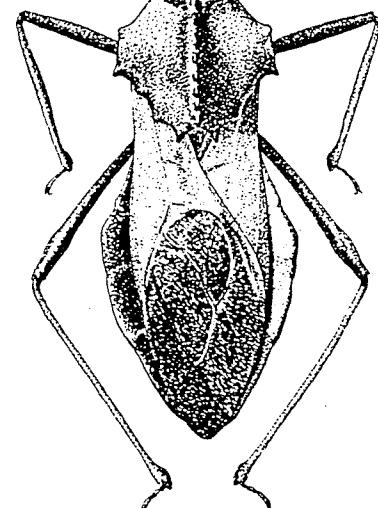
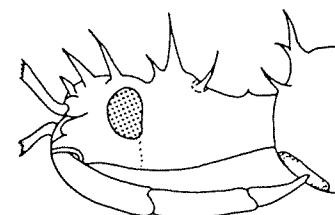
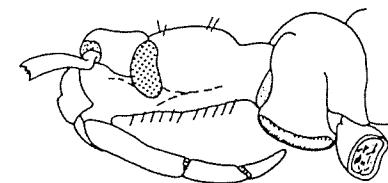
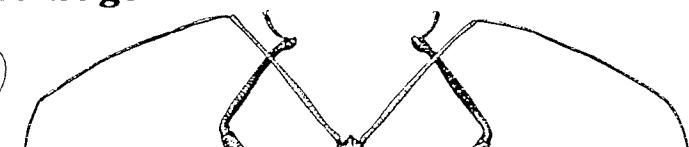
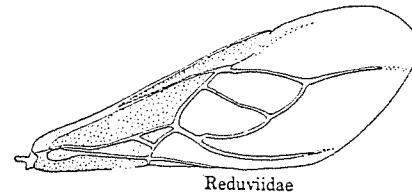
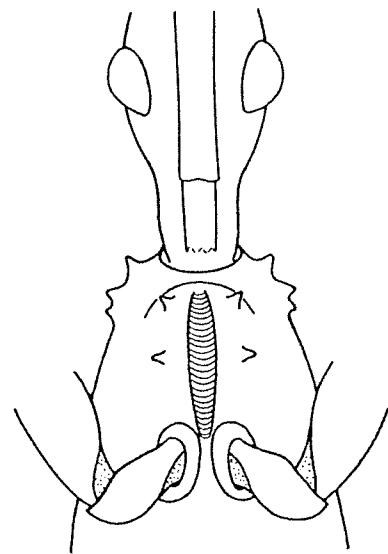
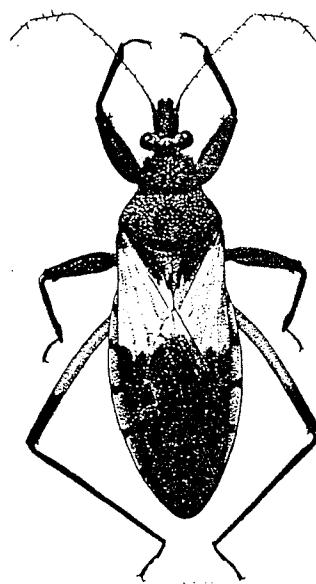
HEMIPTERA: Cimicomorpha
Family Nabidae
Damsel bugs



Nabidae



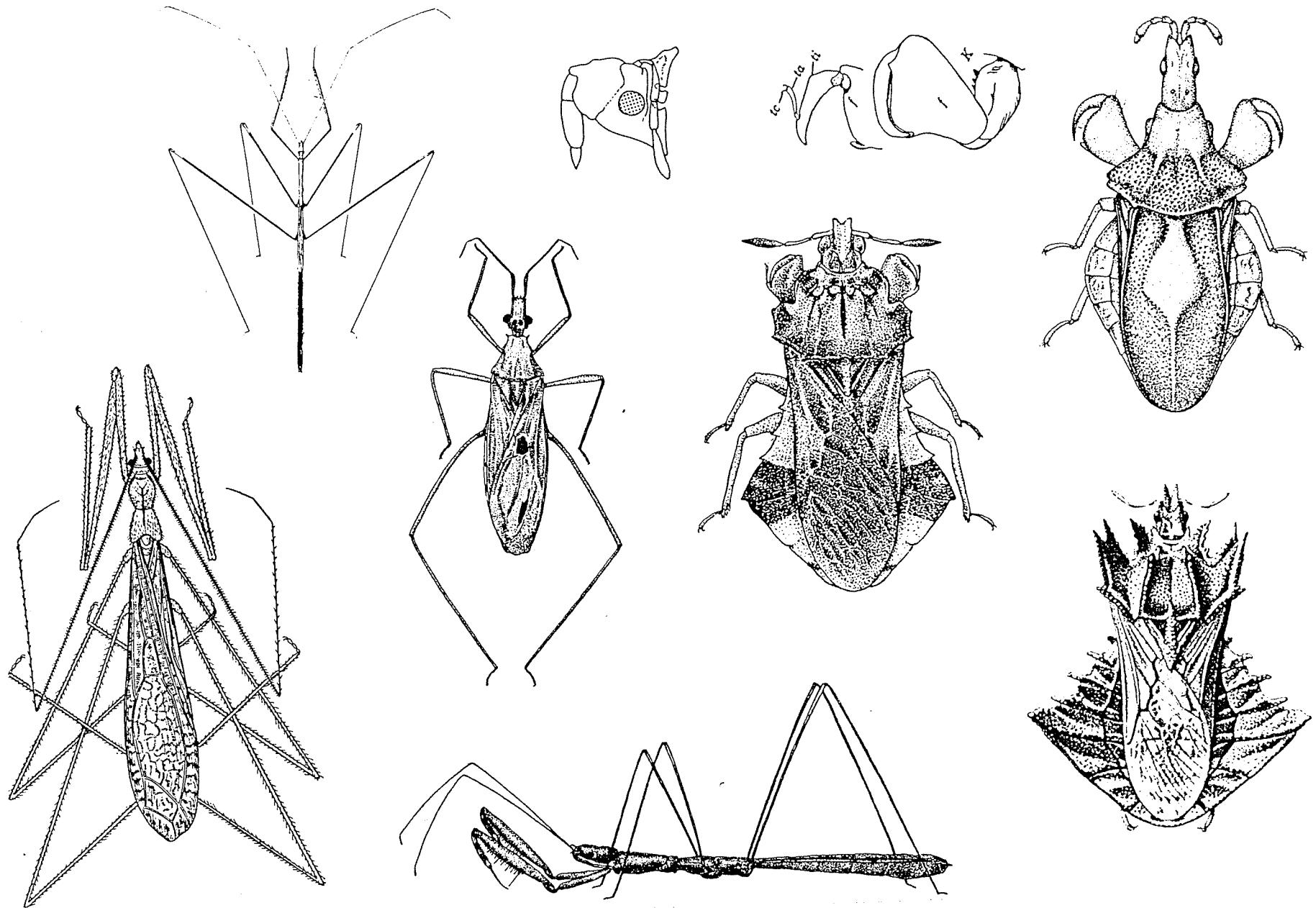
HEMIPTERA: Cimicomorpha
Family Reduviidae
Assassin, Ambush, and Thread-legged bugs



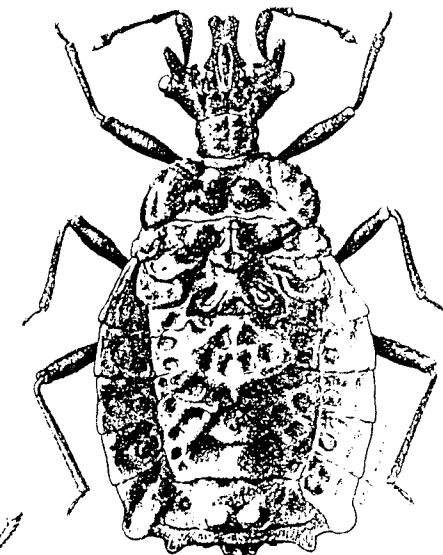
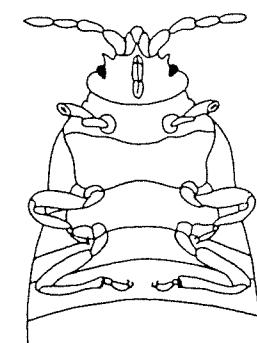
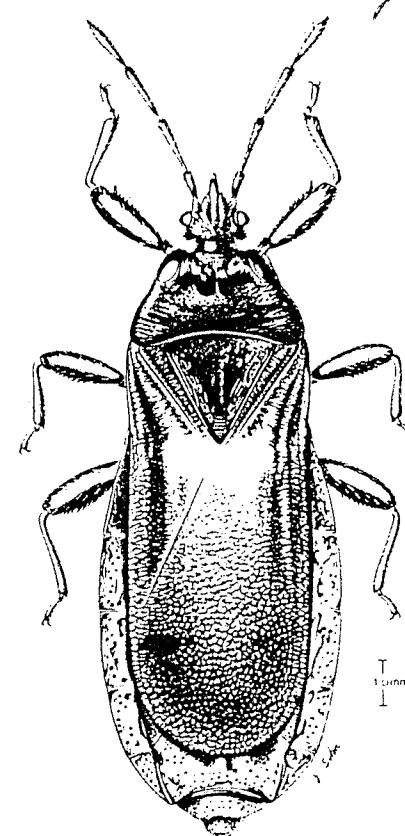
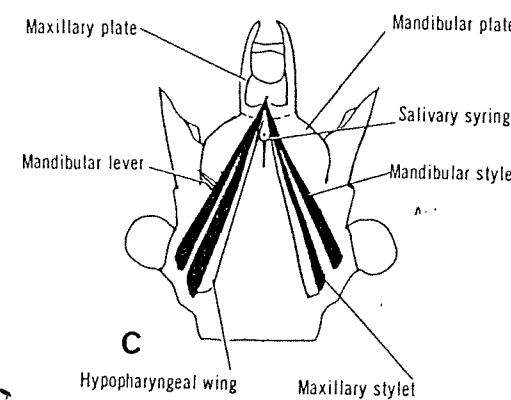
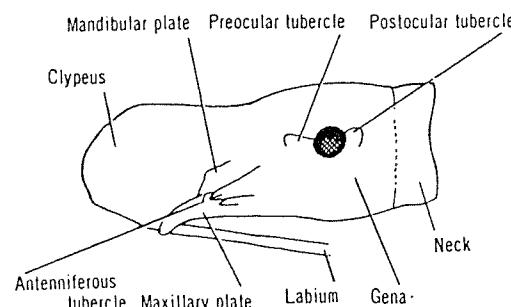
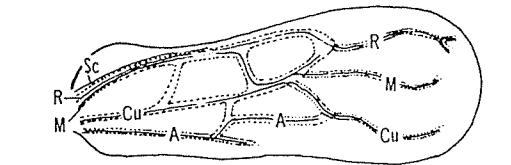
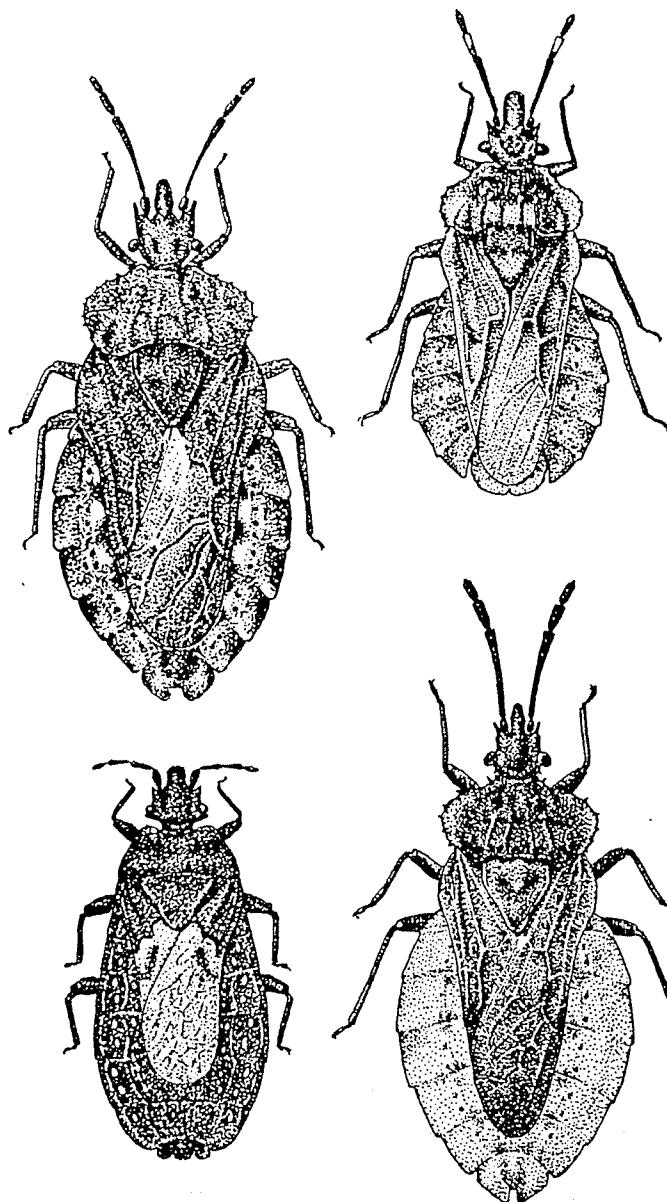
HEMIPTERA: Cimicomorpha

Family Reduviidae

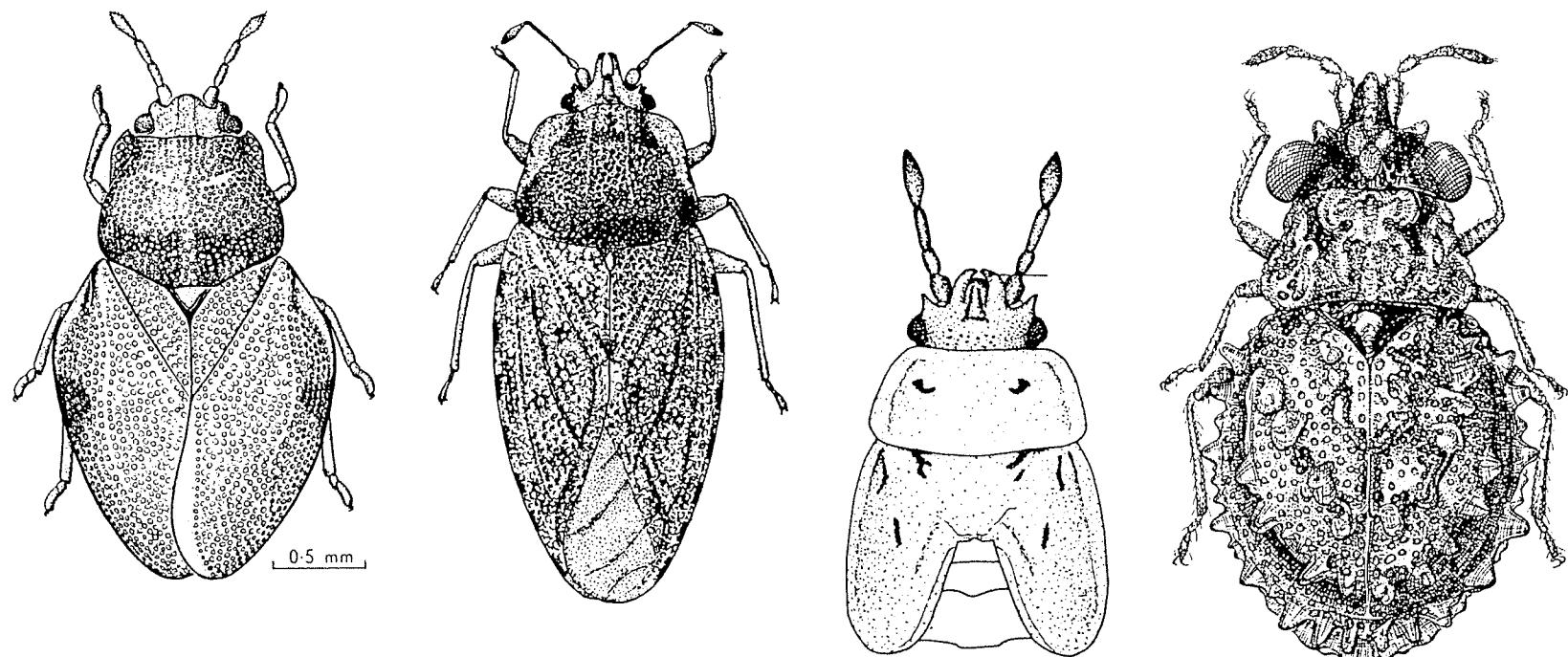
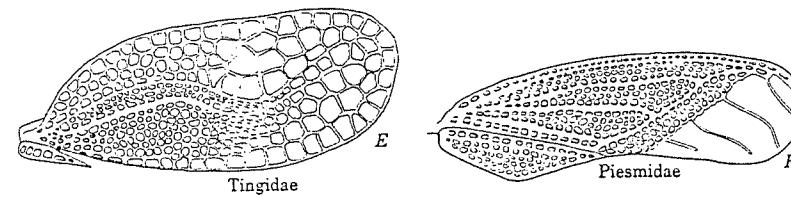
Assassin, Ambush, and Thread-legged bugs



HEMIPTERA: Pentatomomorpha
Family Aradidae
Flat bugs

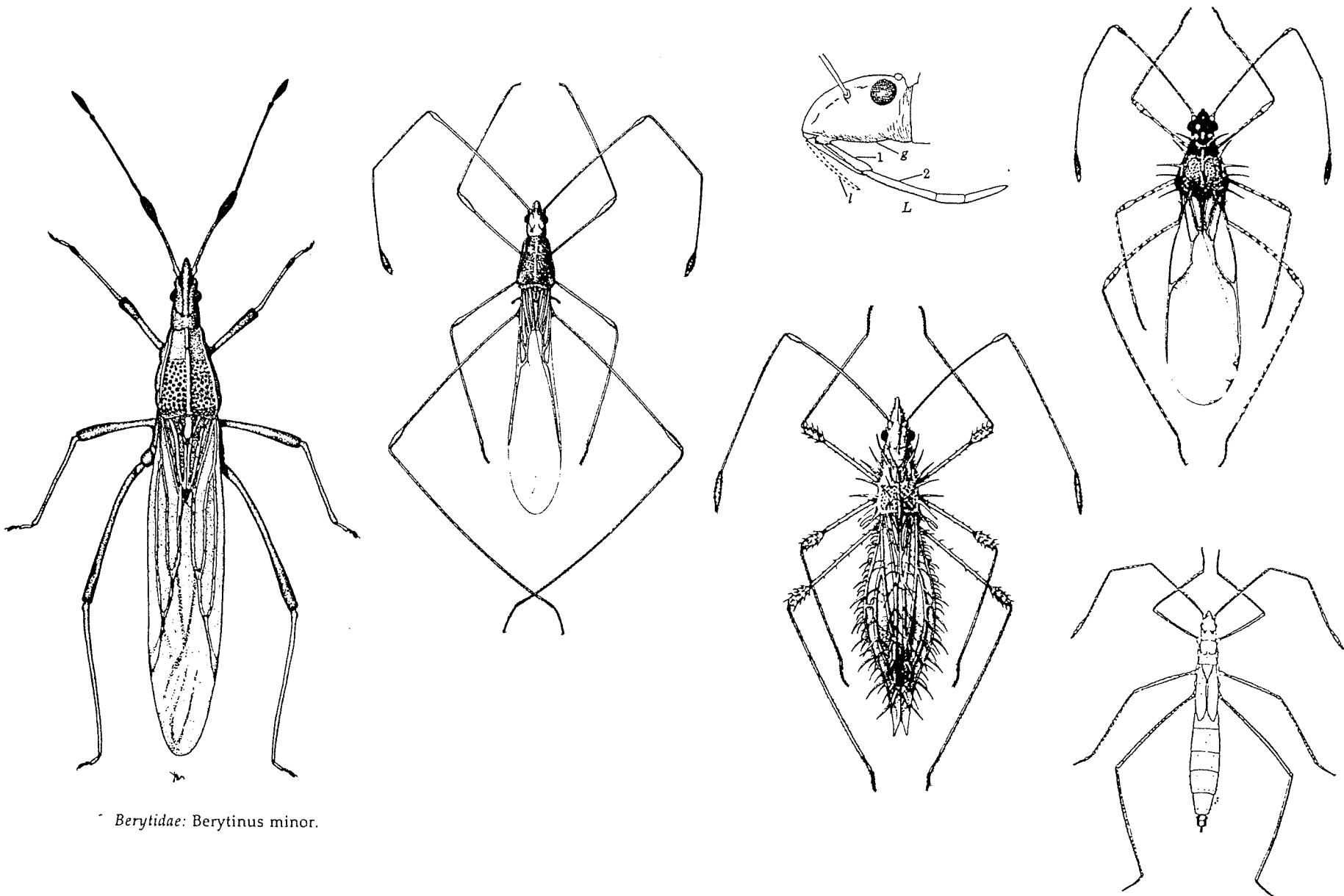


HEMIPTERA: Pentatomomorpha
Family Piesmatidae
Ash gray leaf bugs



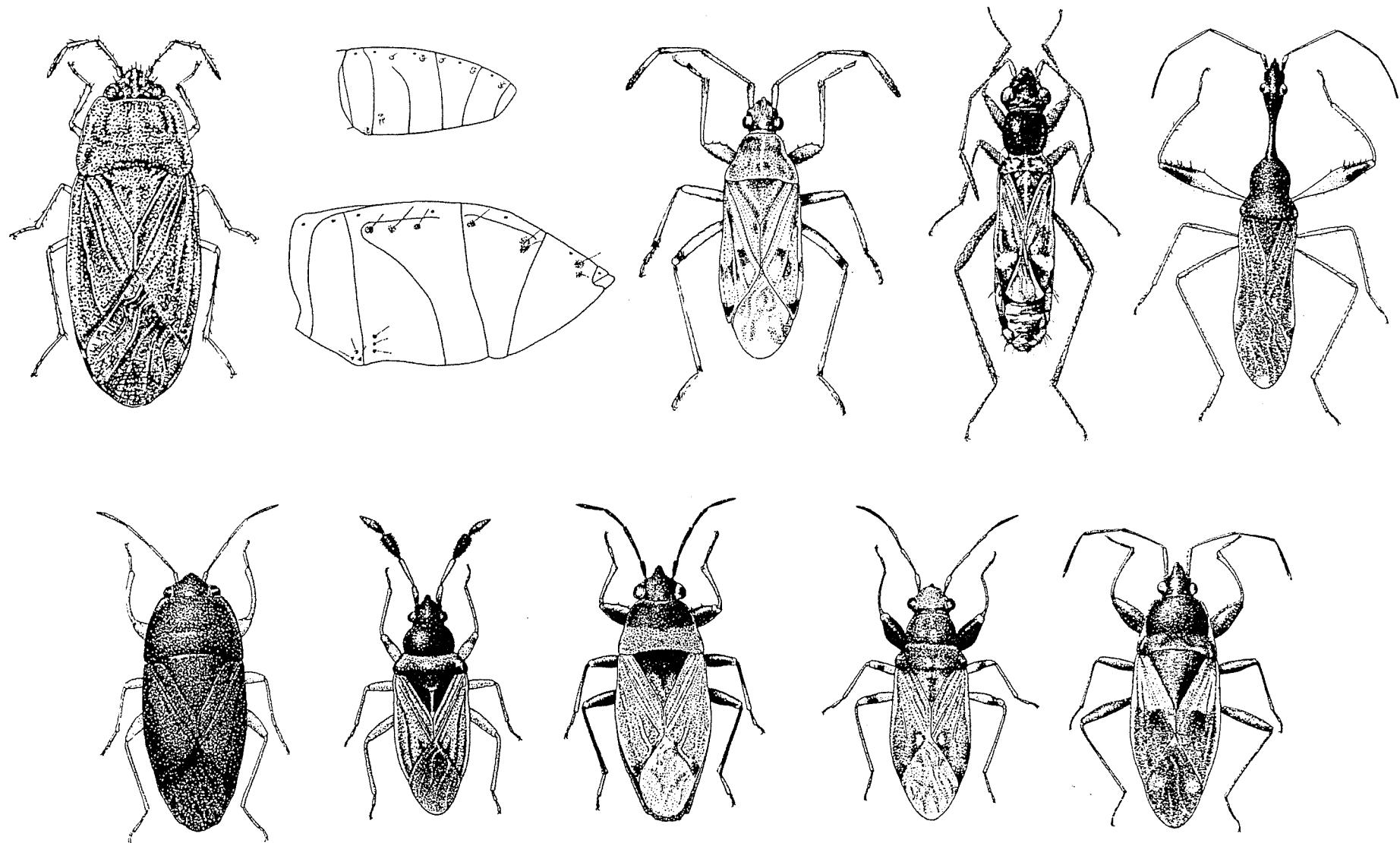
Piesma quadratum nymph, fore body.

HEMIPTERA: Pentatomomorpha
Family Berytidae
Stilt bugs



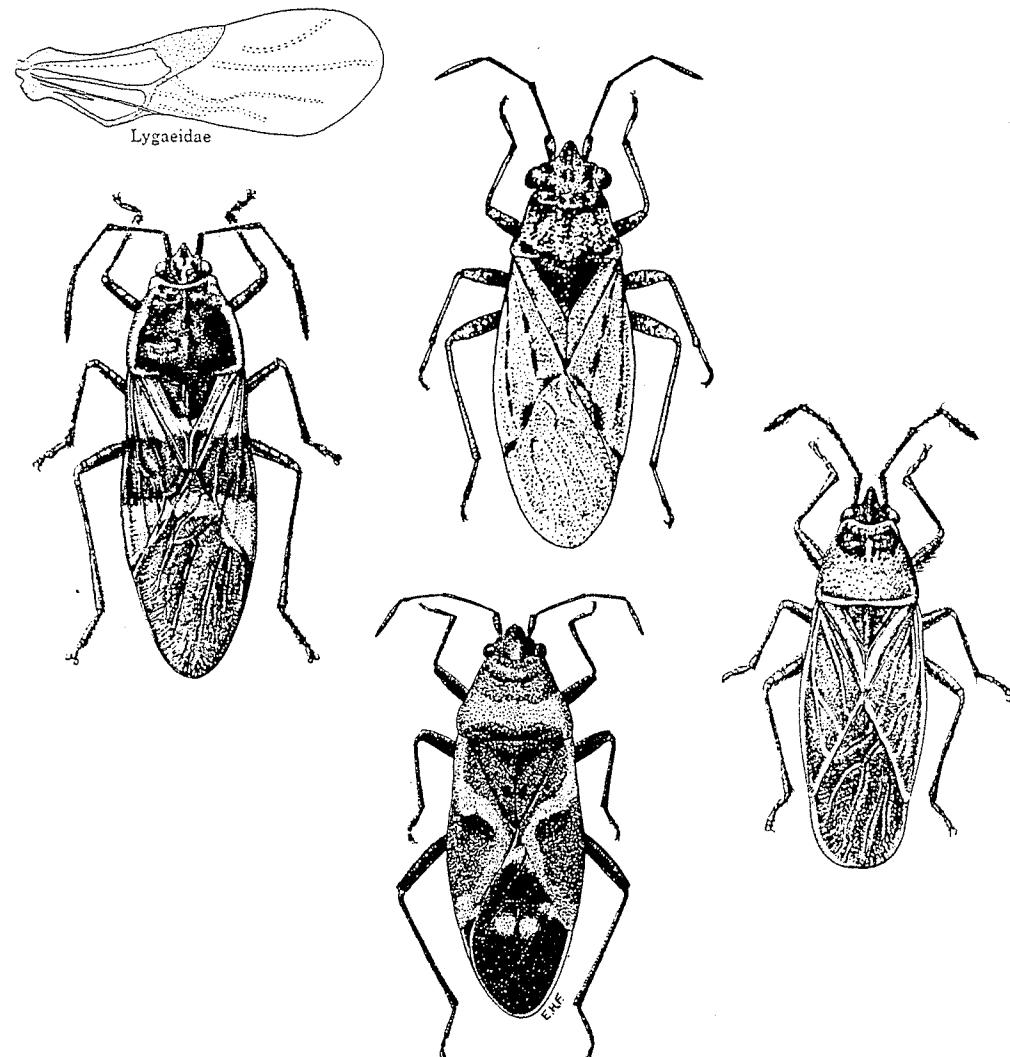
Berytidae: *Berytinus minor*.

HEMIPTERA: Pentatomomorpha
Family Rhyparochromidae
Rhyparochromid bugs

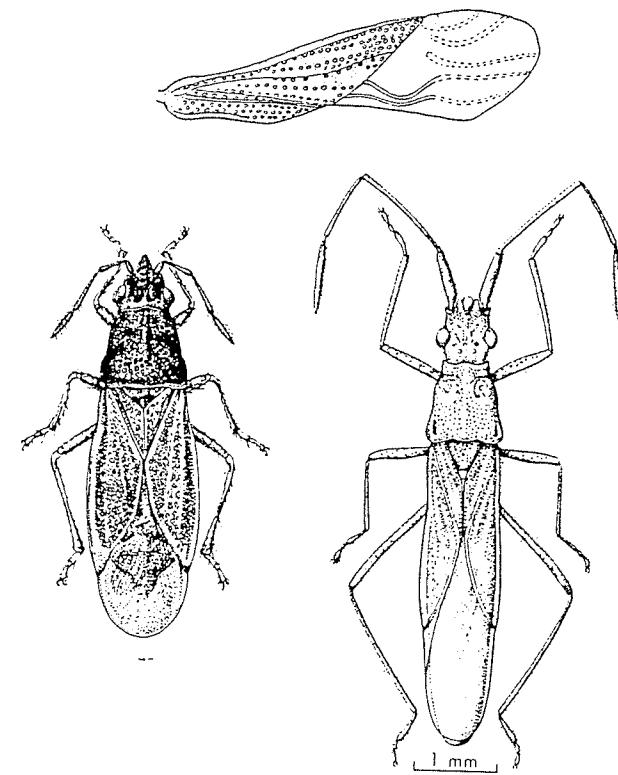


HEMIPTERA: Pentatomomorpha

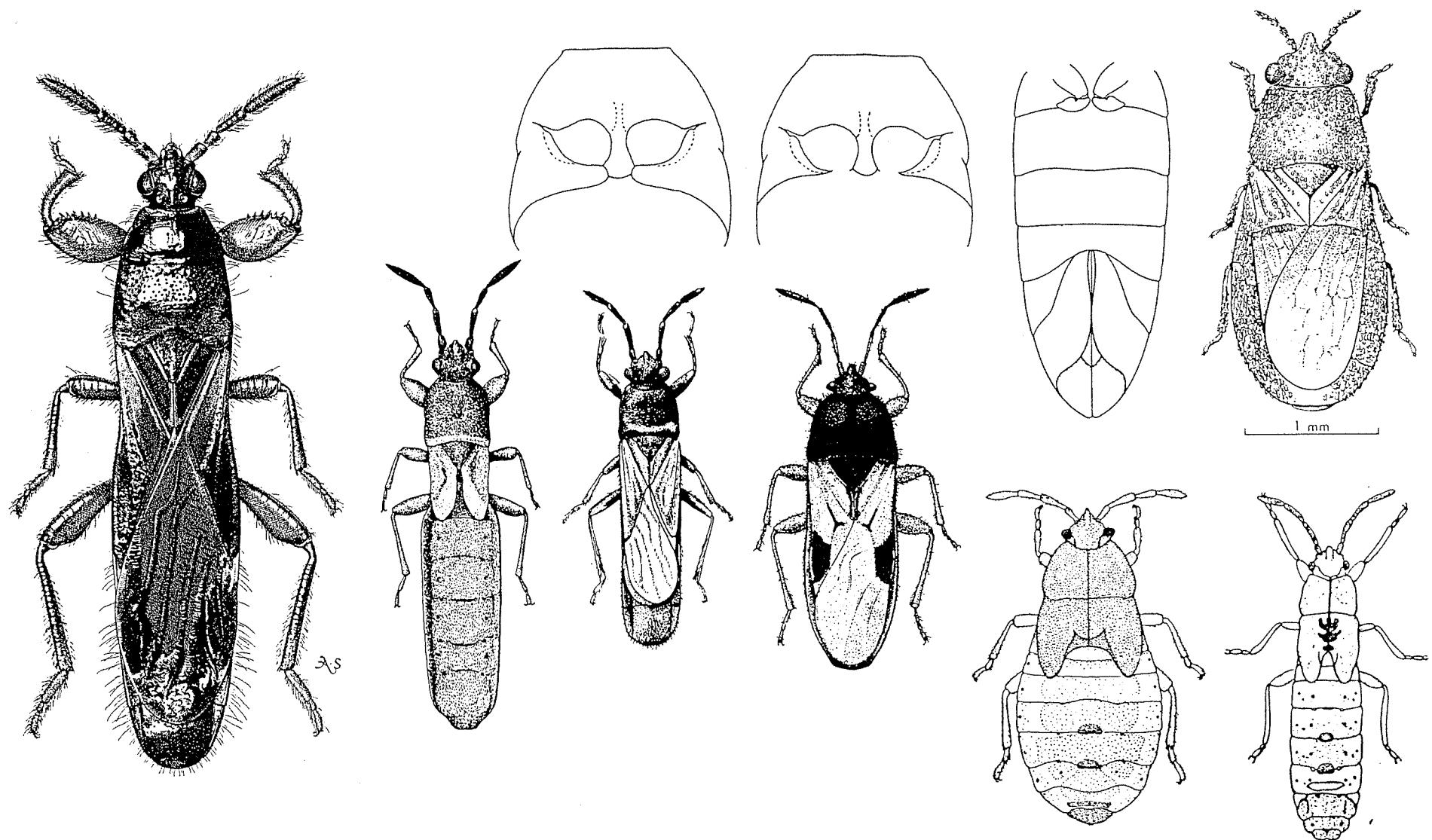
Family Lygaeidae
Seed bugs



Family Cymidae
Cymid bugs

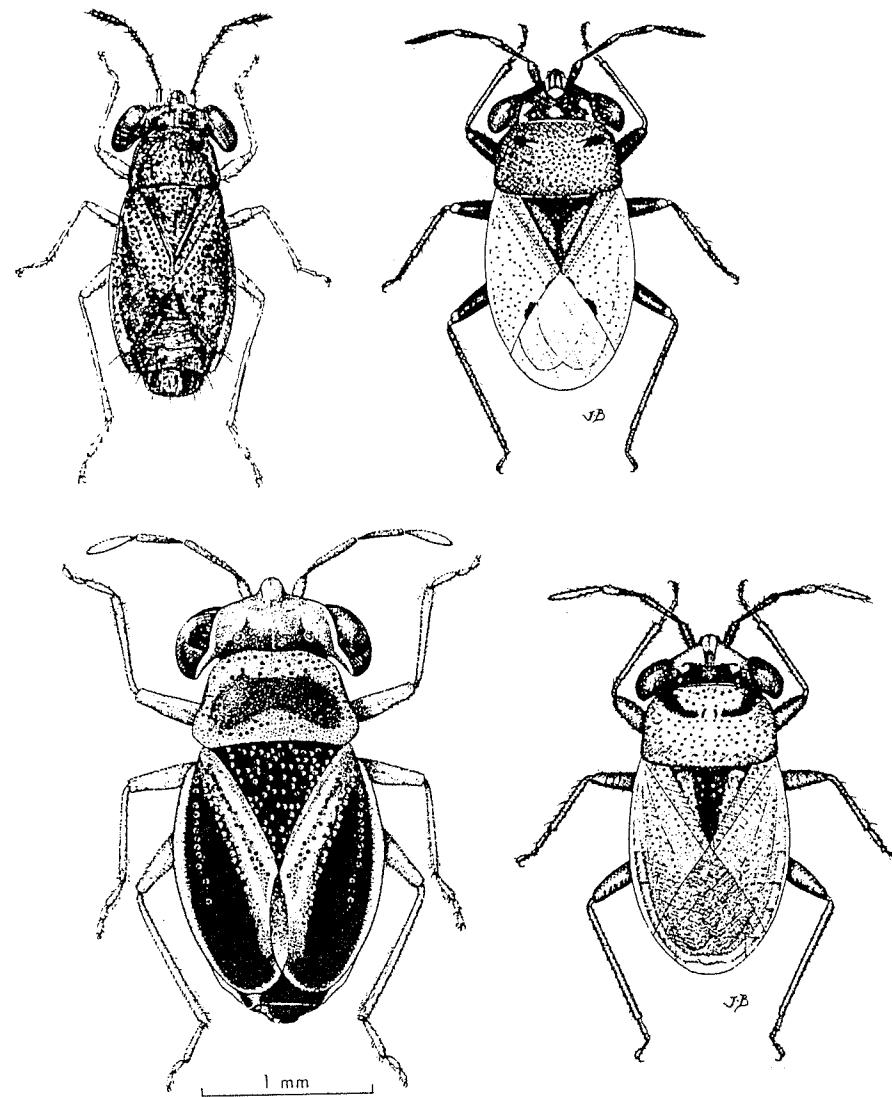


HEMIPTERA: Pentatomomorpha
Family Blissidae
Chinch bugs

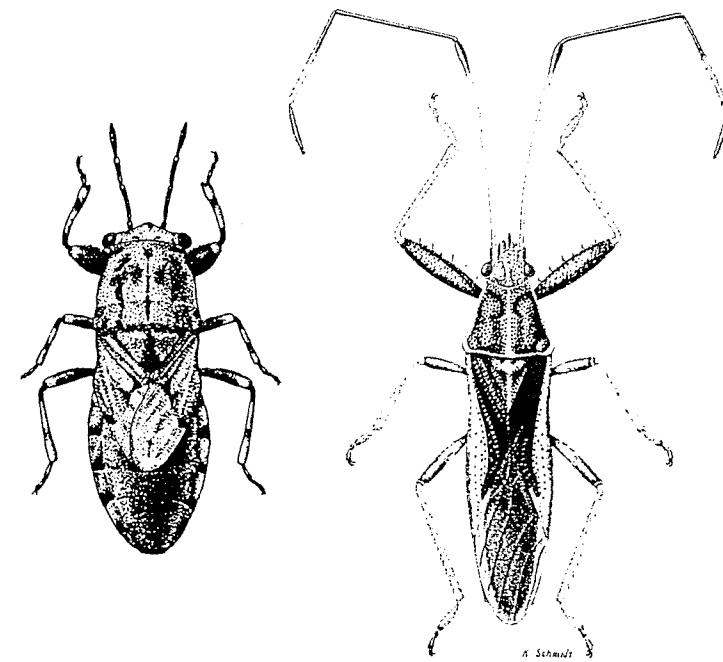


HEMIPTERA: Pentatomomorpha

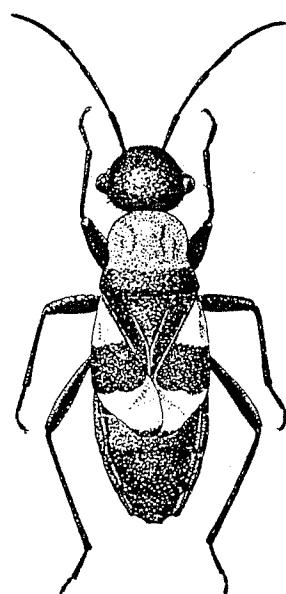
Family Geocoridae
Big-eyed bugs



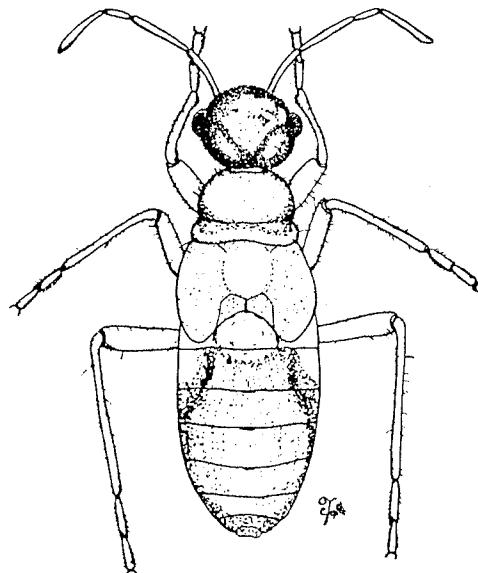
Family Pachygronthidae
Thick-armed bugs



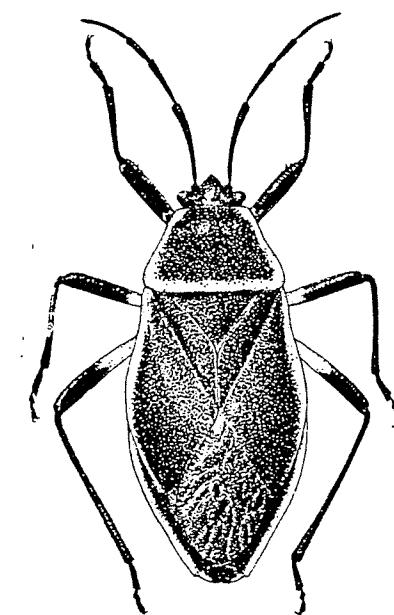
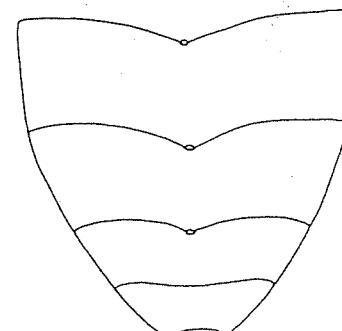
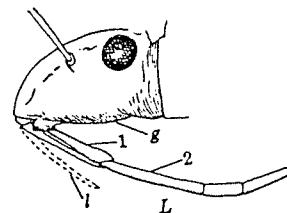
HEMIPTERA: Pentatomomorpha
Family Largidae
Ligid bugs



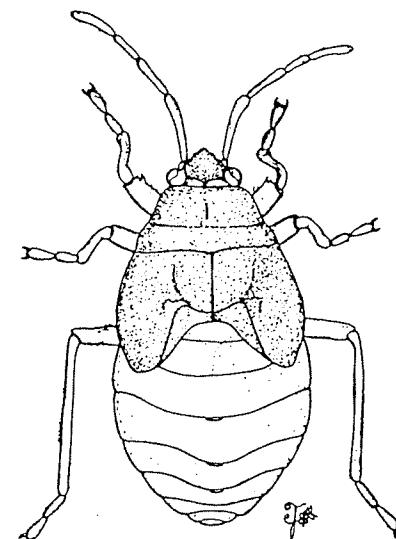
Araphhe carolina



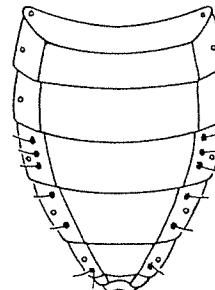
Largidae. Ligid bug, *Araphhe* sp.



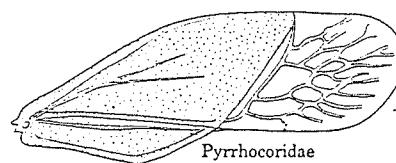
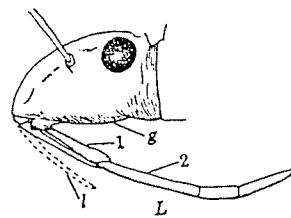
Largus succinctus



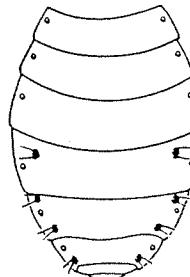
Largidae. Ligid bug, *Largus* sp.



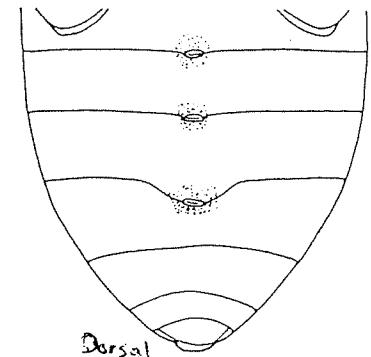
HEMIPTERA: Pentatomomorpha
Family Pyrrhocoridae
Red bugs



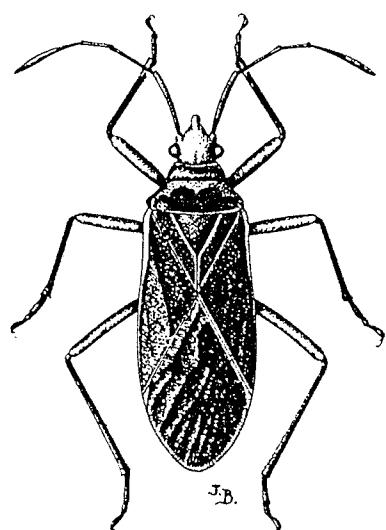
Pyrrhocoridae



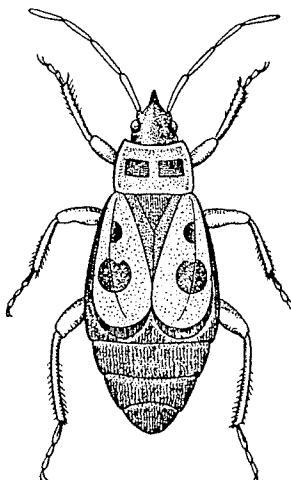
Ventral



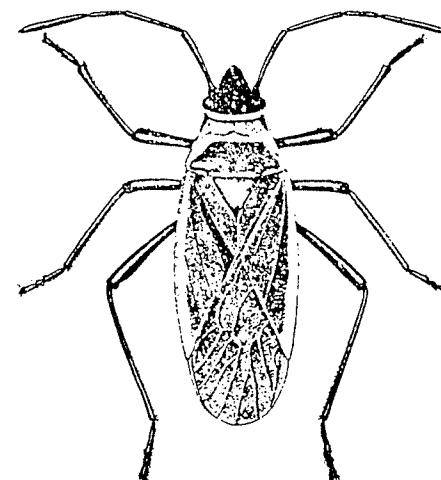
Dorsal



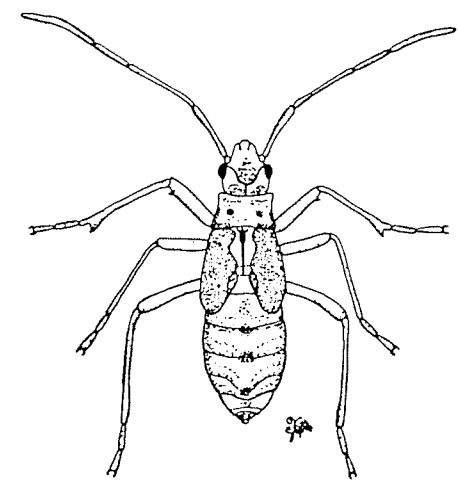
Dysdercus suturellus (H.-S.)



- *Pyrrhocoris apterus*

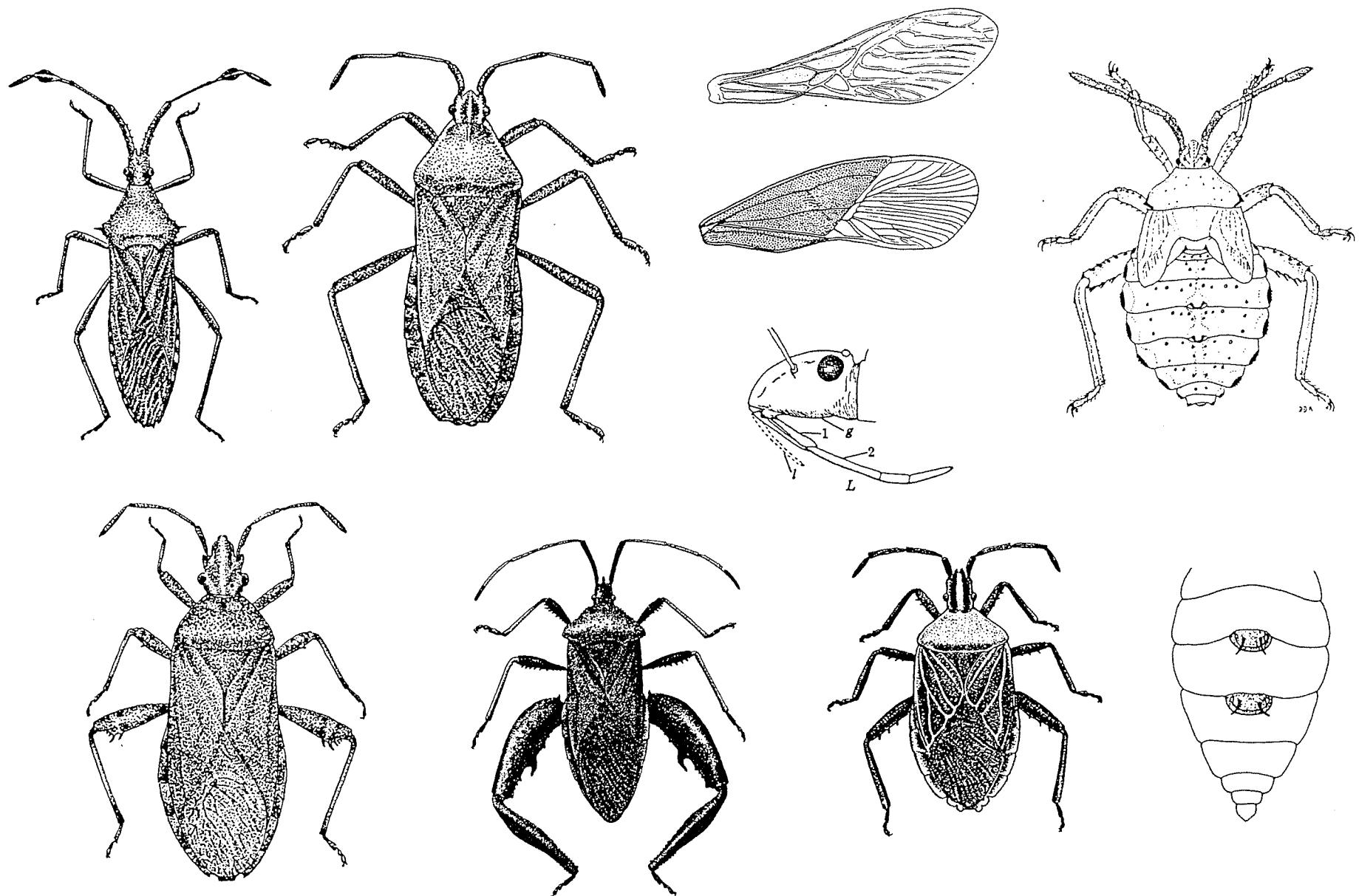


Dysdercus mimulus

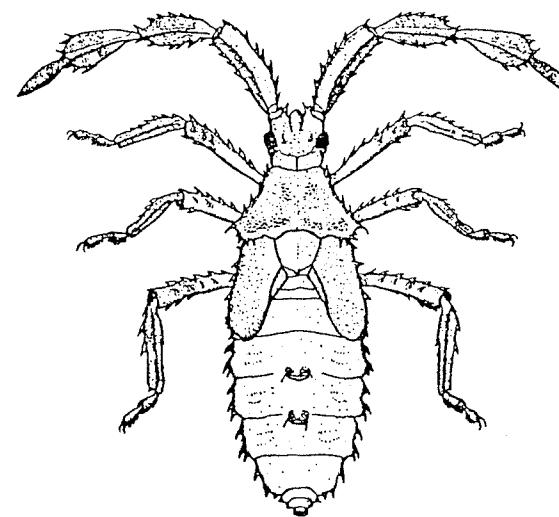
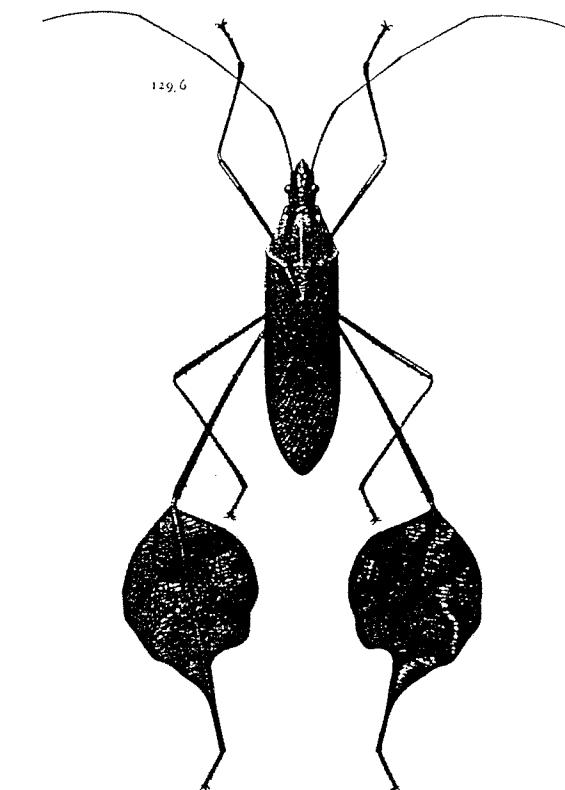
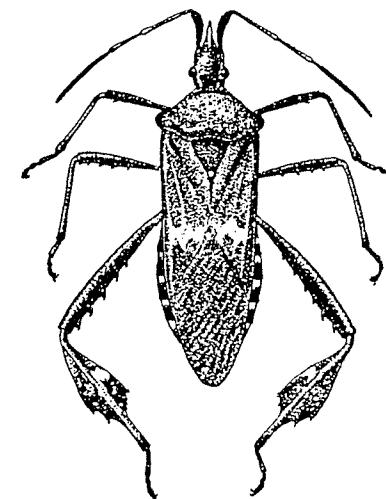
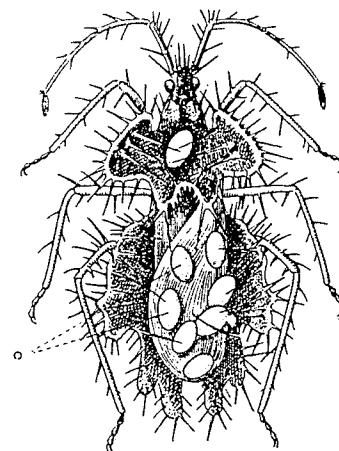
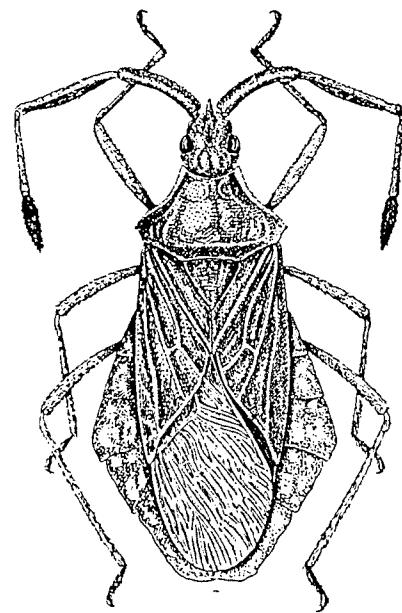


Pyrrhocoridae. Red bug, *Dysdercus mimulus*

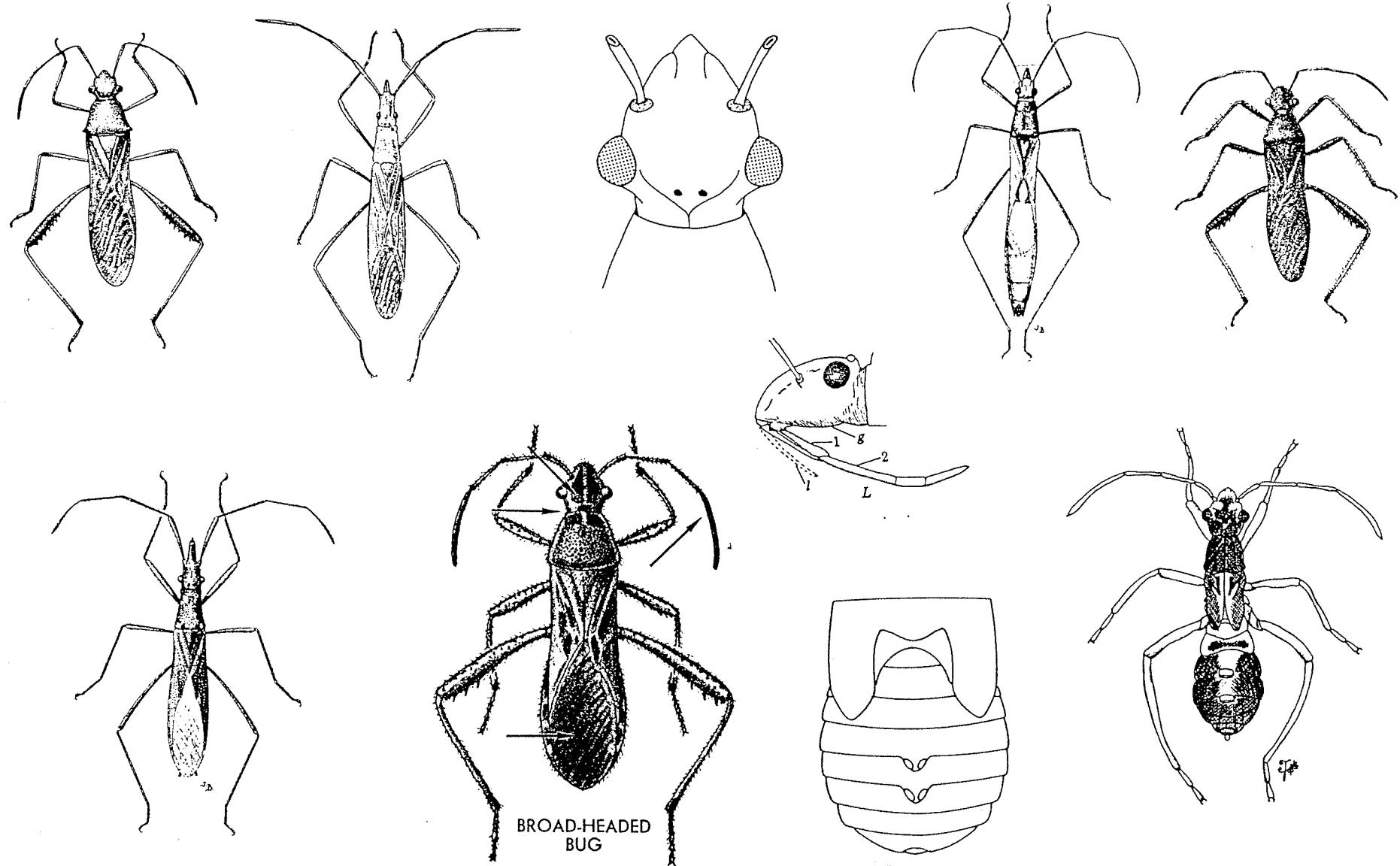
HEMIPTERA: Pentatomomorpha
Family Coreidae
Squash bugs/ Leaf-footed bugs



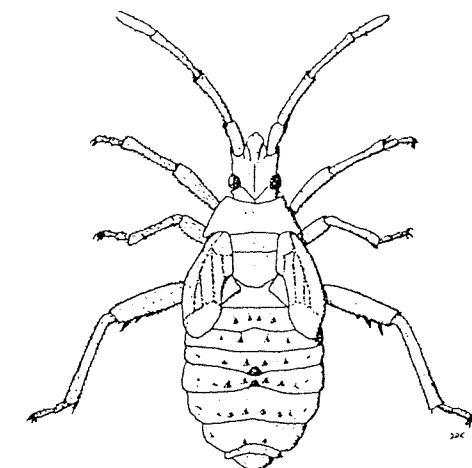
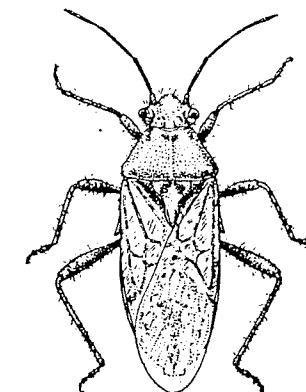
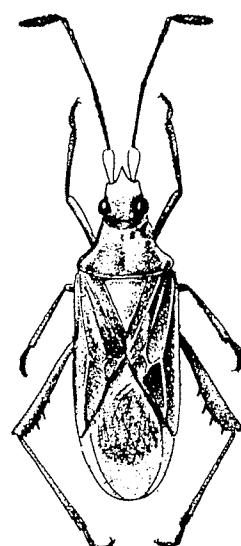
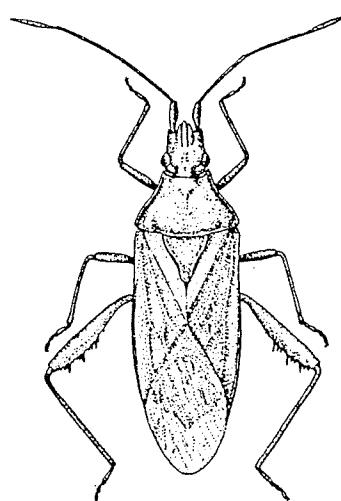
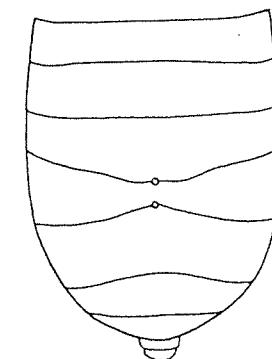
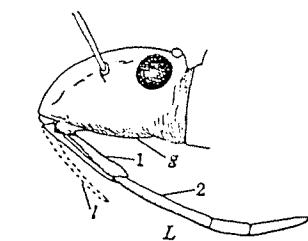
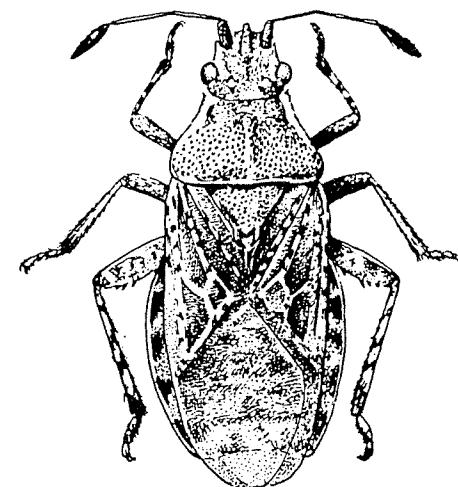
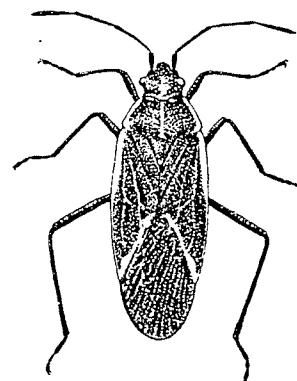
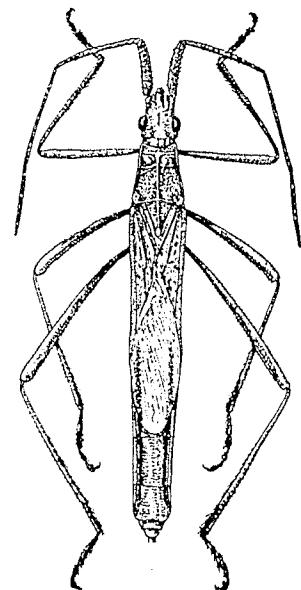
HEMIPTERA: Pentatomomorpha
Family Coreidae
Squash bugs/ Leaf-footed bugs



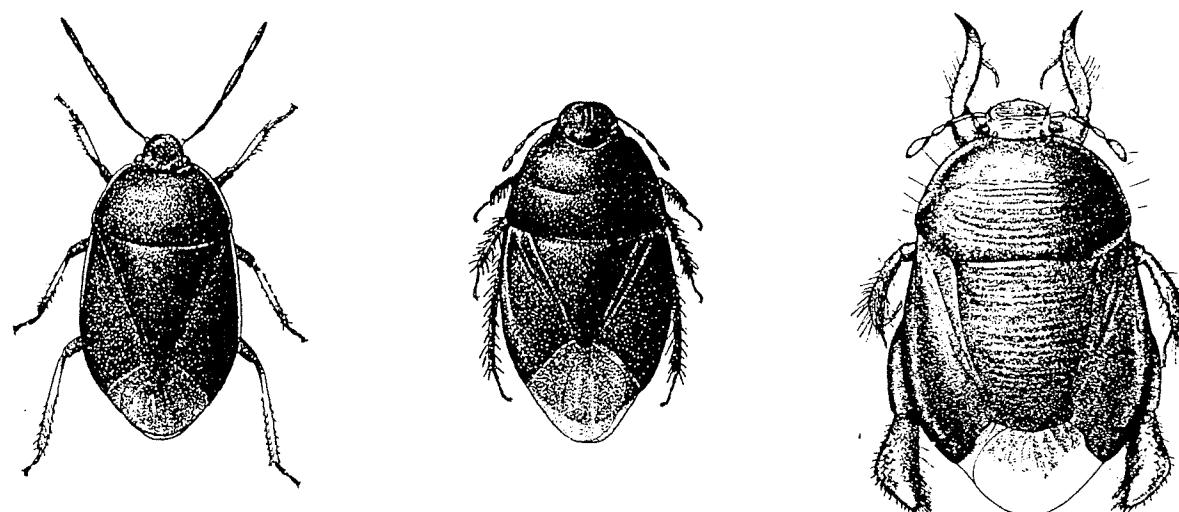
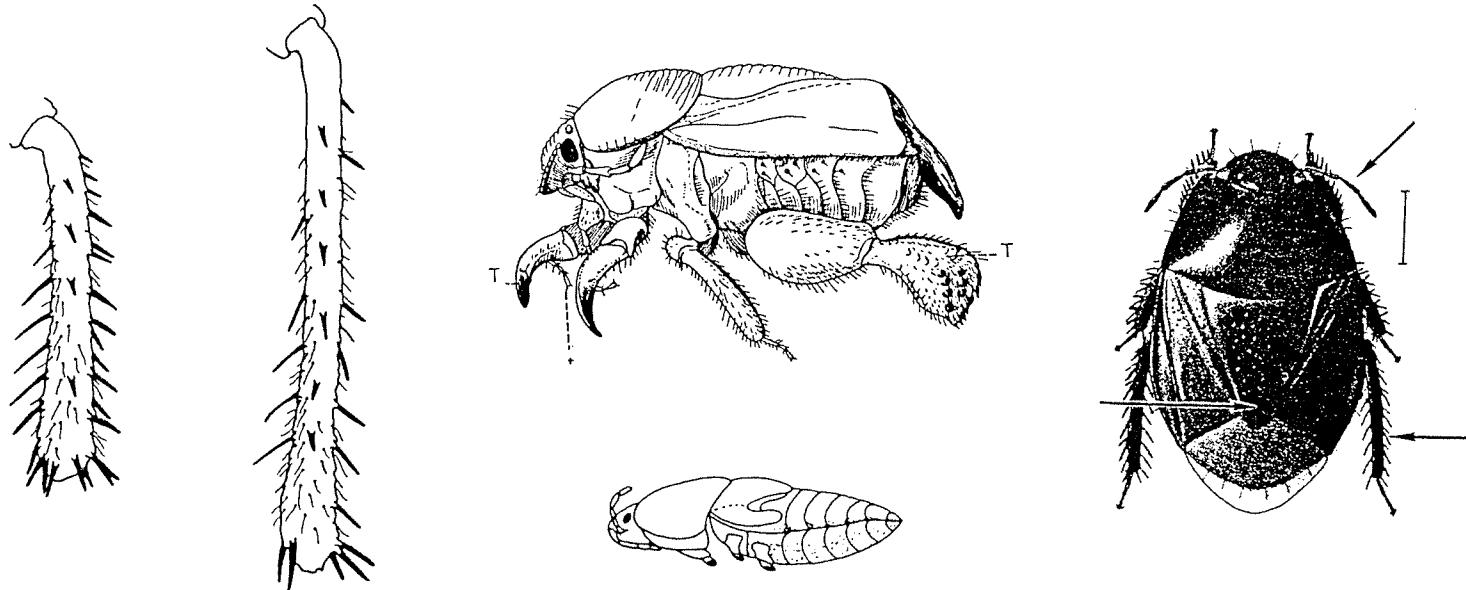
HEMIPTERA: Pentatomomorpha
Family Alydidae
Broad-headed bugs



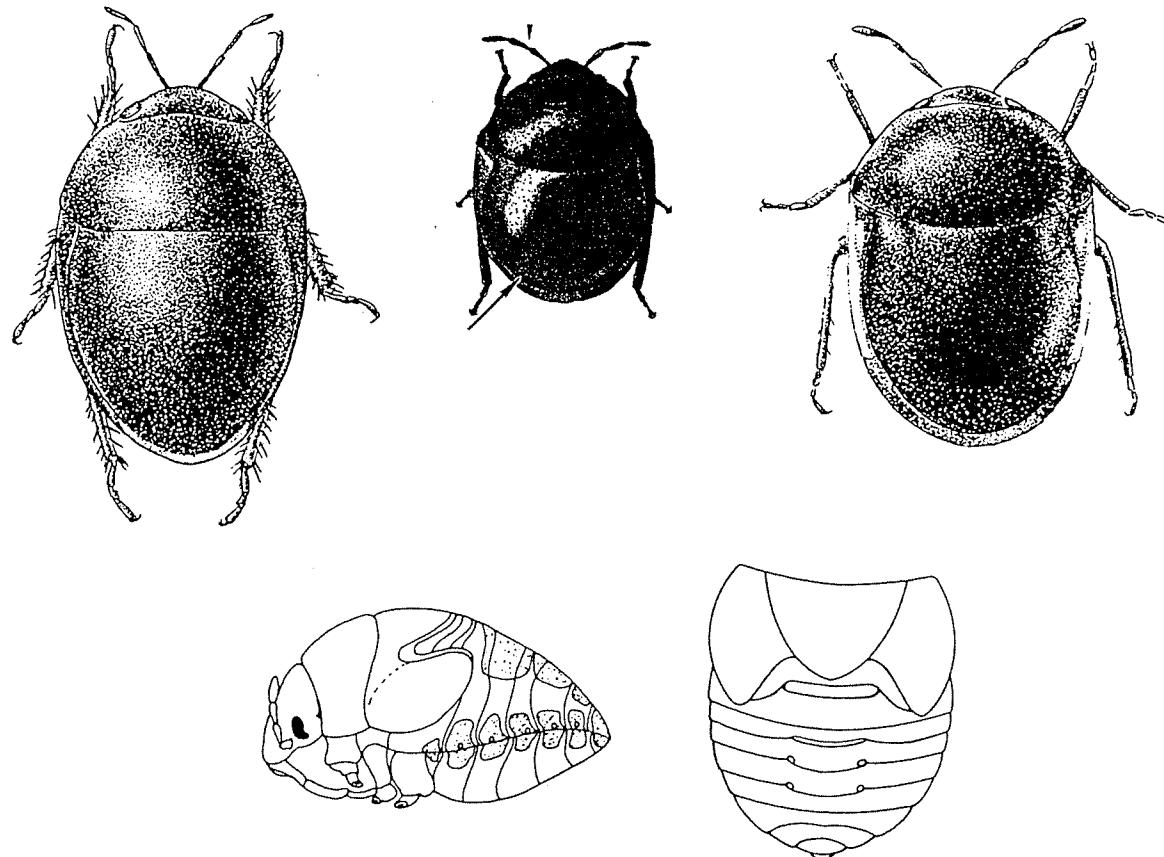
HEMIPTERA: Pentatomomorpha
Family Rhopalidae
Scentless plant bugs



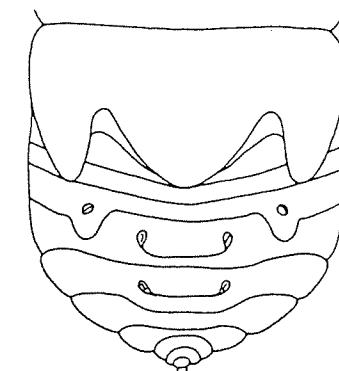
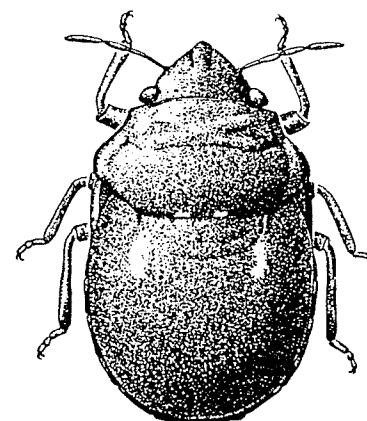
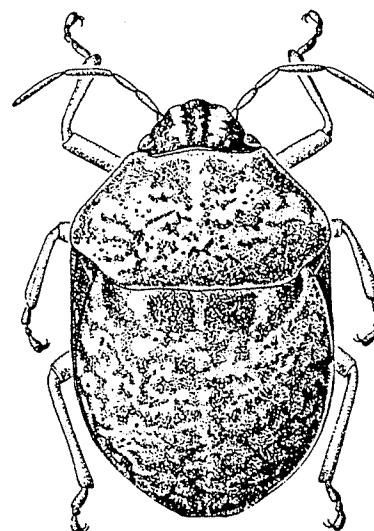
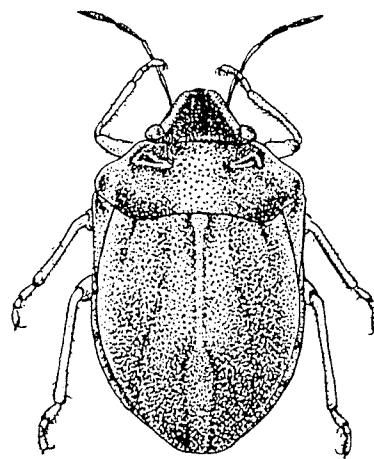
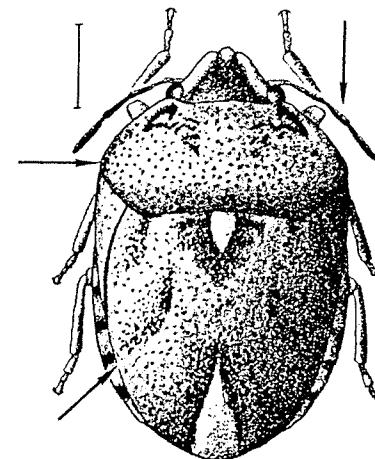
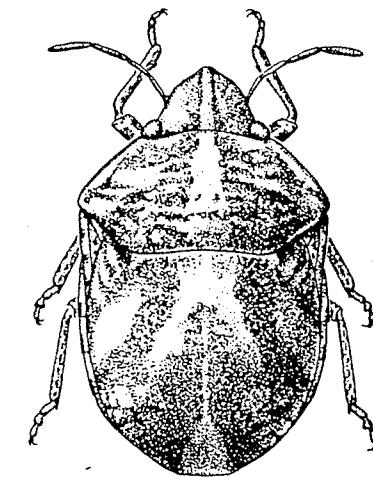
HEMIPTERA: Pentatomomorpha
Family Cydnidae
Burrower bugs



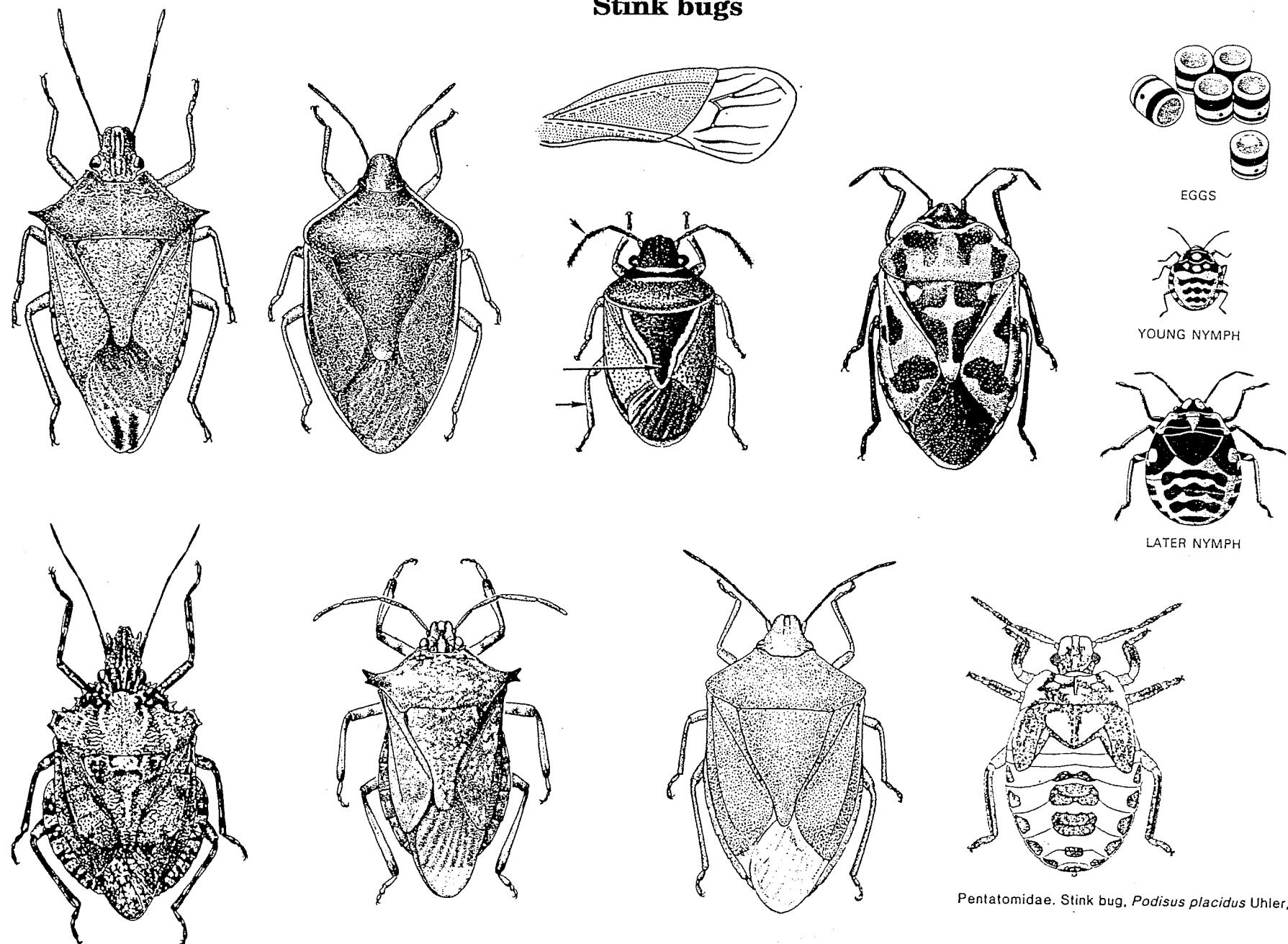
HEMIPTERA: Pentatomomorpha
Family Thyreocoridae
Negro bugs



HEMIPTERA: Pentatomomorpha
Family Scutelleridae
Shield-backed bugs



HEMIPTERA: Pentatomomorpha
Family Pentatomidae
Stink bugs



HEMIPTERA: Pentatomomorpha
Family Pentatomidae
Stink bugs

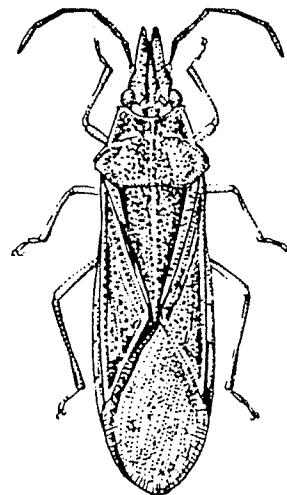


Figure 65

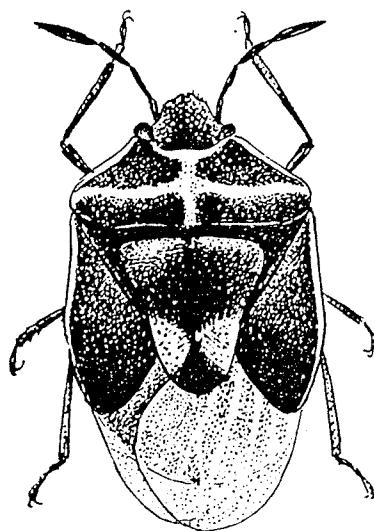
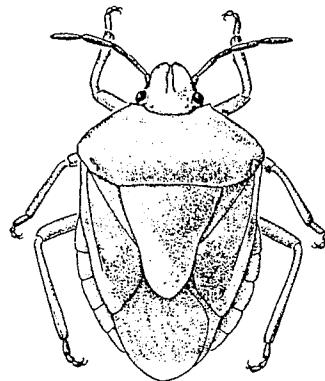
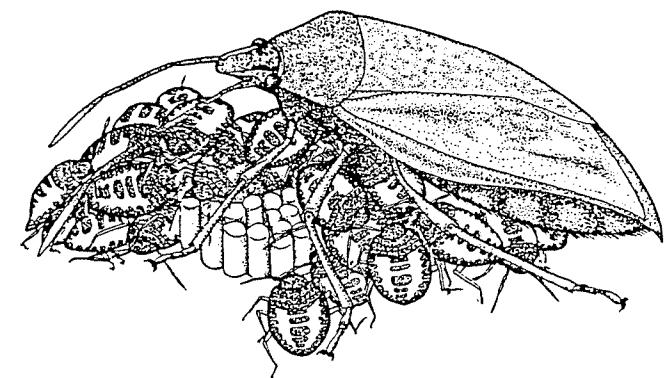


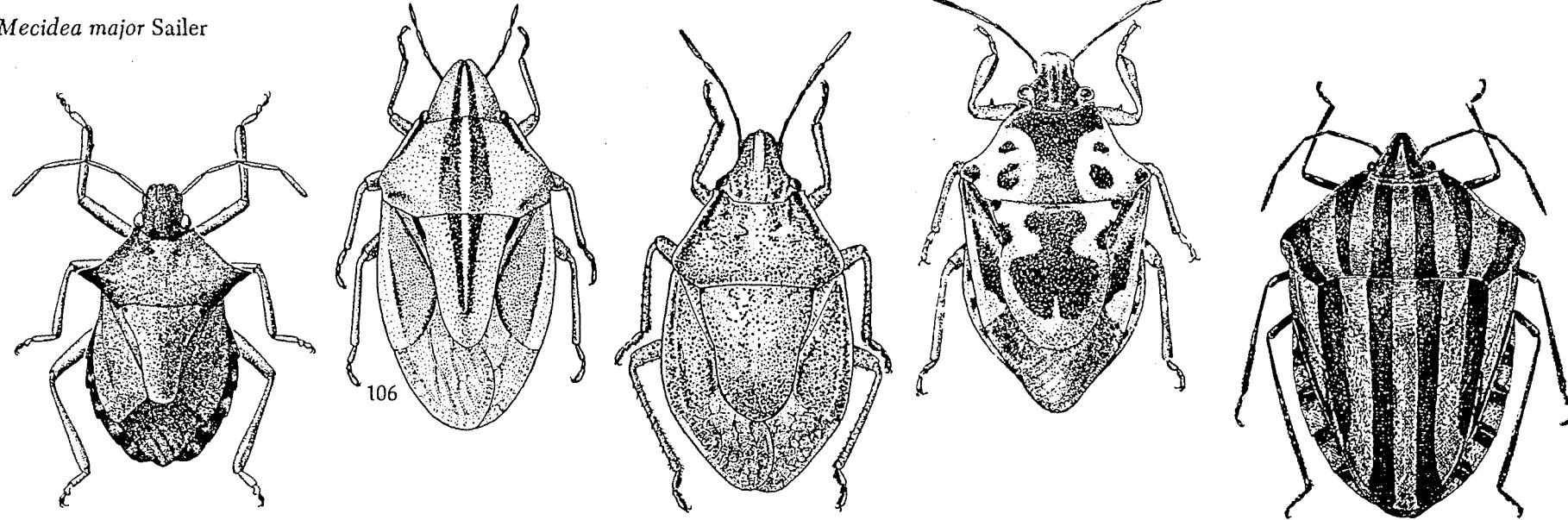
Figure 77



A female of the cacao stinkbug (*Mecistorhinus tripterus*) of Trinidad is shown guarding her first instar nymphs four days after they hatched (from Kirkpatrick, 1957).

Cosmopepla bimaculata (Thomas)

Mecidea major Sailer



HEMIPTERA: Pentatomomorpha
Family Acanthosomatidae
Acanthosomatid stink bugs

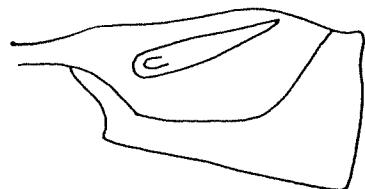


Figure 46

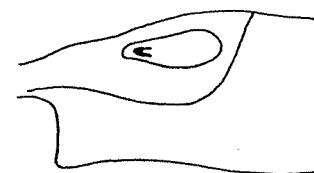


Figure 44

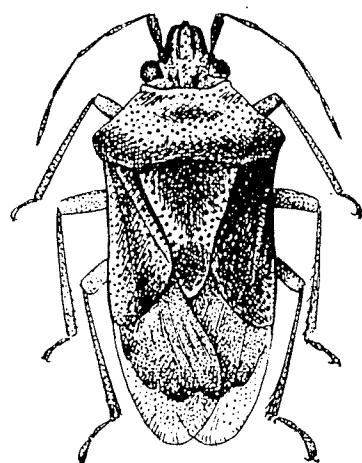


Figure 47

Elasmostethus cruciatus (Say)

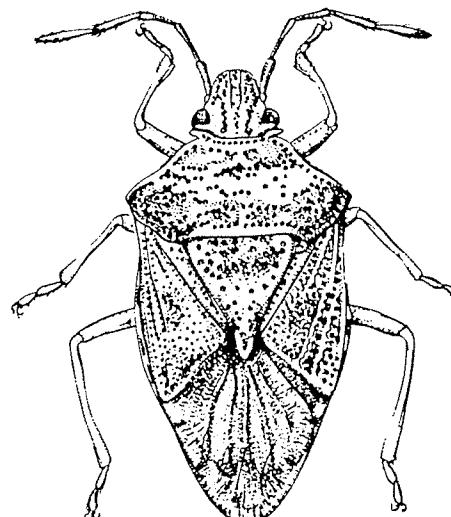


Figure 45

Elasmucha lateralis (Say)