

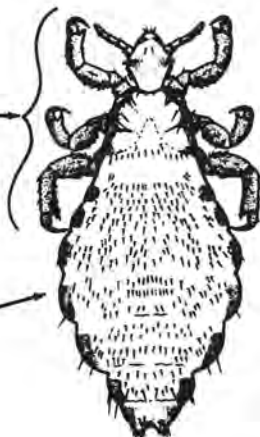
LICE COMMONLY FOUND ON MAN  
Harry D. Pratt

BODY LOUSE  
AND  
HEAD LOUSE

CRAB LOUSE

All legs of about  
the same length

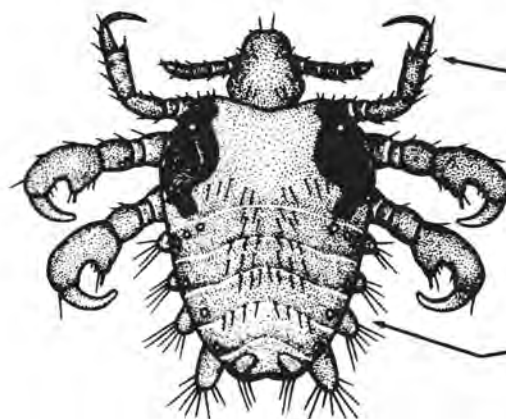
Abdomen elongate  
without hairy pro-  
cesses laterally



*PEDICULUS  
HUMANUS*

First pair of legs  
smaller than second  
and third pairs of legs

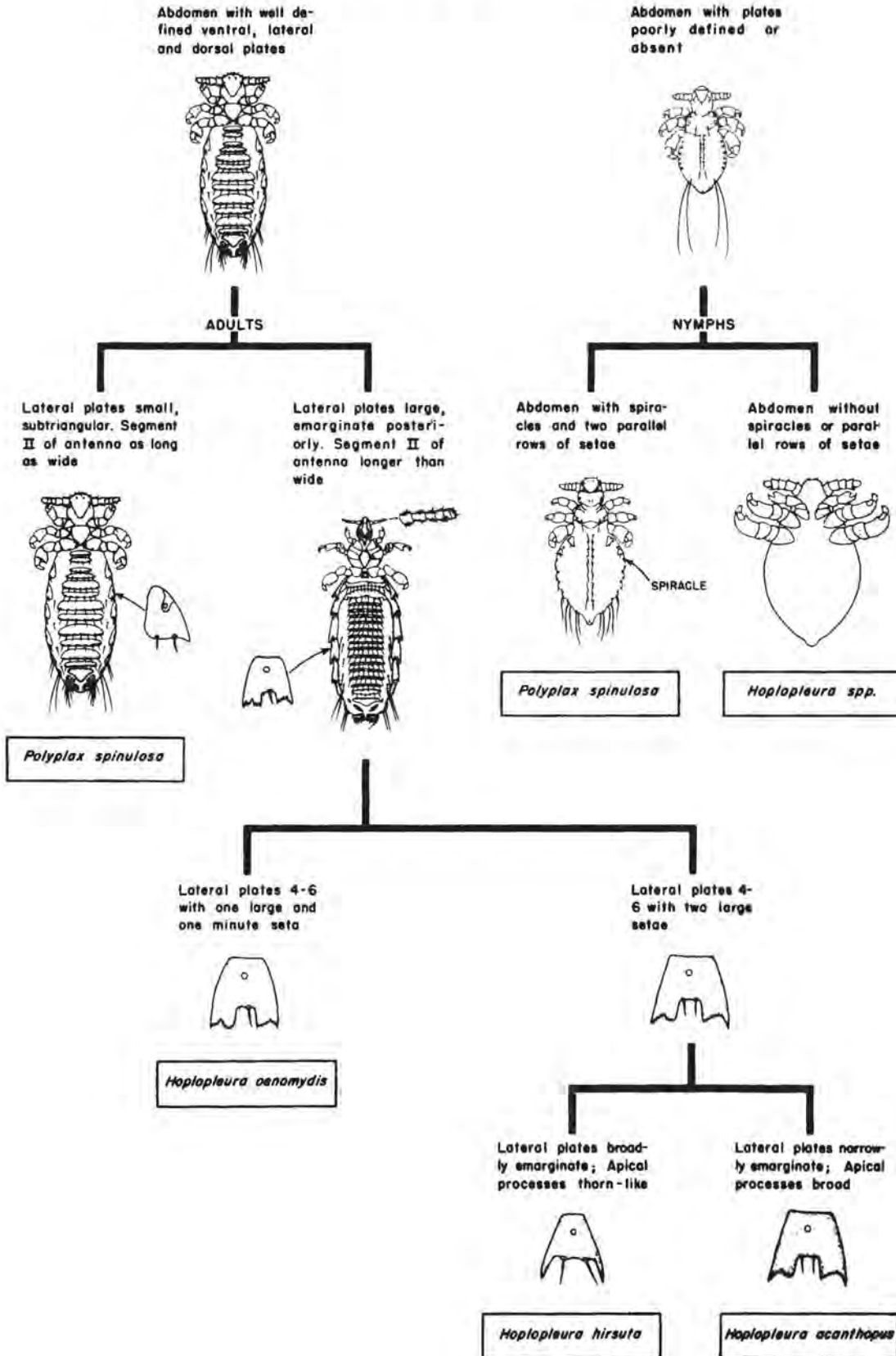
Abdomen shorter  
with hairy pro-  
cesses laterally



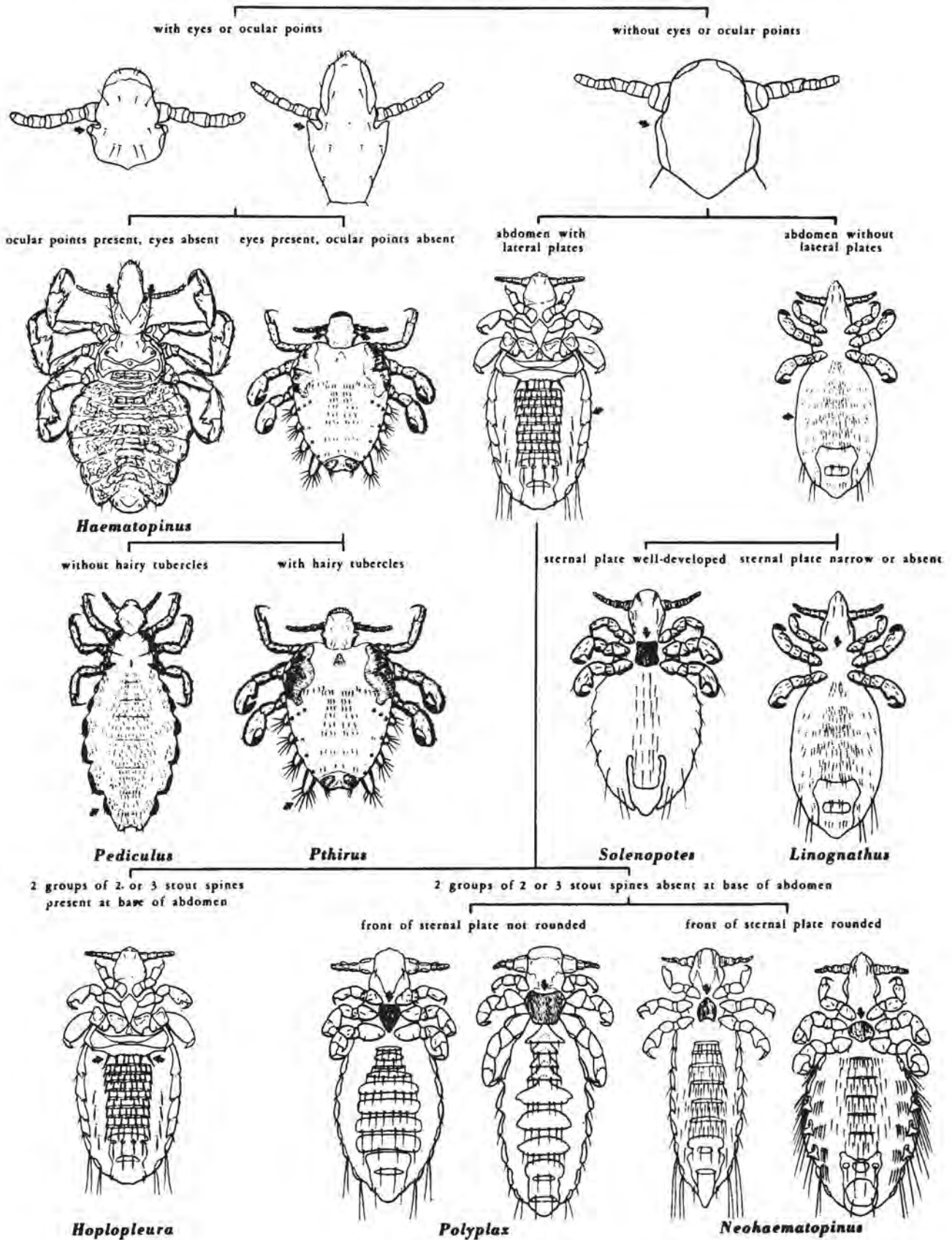
*PHTHIRUS  
PUBIS*

**ANOPLURA: PICTORIAL KEY TO SPECIES ON DOMESTIC RATS  
IN SOUTHERN UNITED STATES**

Roy F. Fritz and Harry D. Pratt



**ANOPLURA: PICTORIAL KEY TO SOME COMMON GENERA OF SUCKING LICE**  
 Chester J. Stojanovich and Harry D. Pratt



**ANOPLURA: KEY TO NORTH AMERICAN SPECIES**  
**Chester J. Stojanovich and Harry D. Pratt**

**Key to Families of Anoplura**

1. Head and thorax more or less thickly covered with setae; in some species the setae are modified into scales (Fig. 1 A). On marine animals.....FAMILY ECHINOPHTHIRIIDAE
- Head and thorax with only a few setae (Fig. 1 B).....2

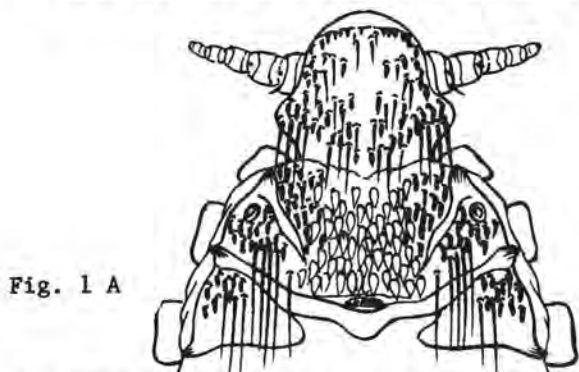


Fig. 1 A

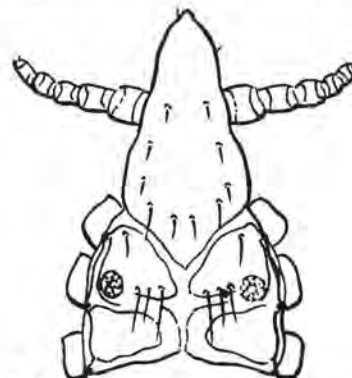


Fig. 1 B

2. Eyes present or with prominent ocular points (Fig. 2 A & B).....3
- Eyes and ocular points absent (Fig. 2 C).....4

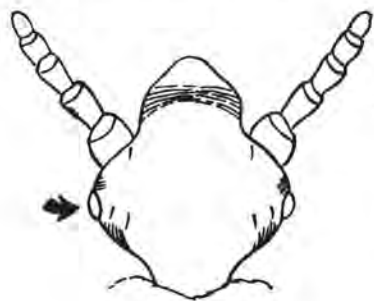


Fig. 2 A

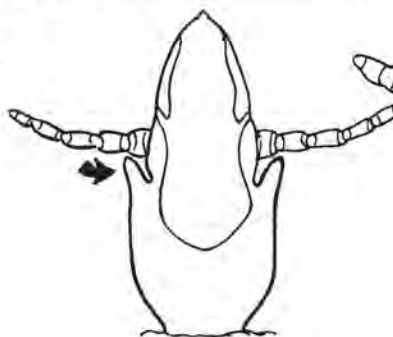


Fig. 2 B

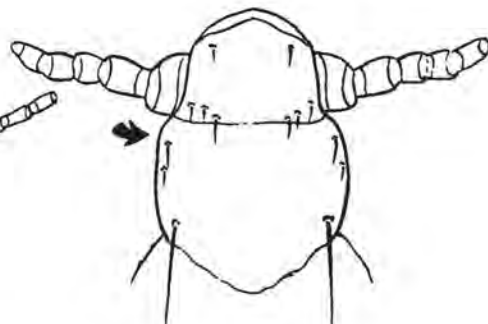


Fig. 2 C

3. Abdomen without irregular sclerotized plates on dorsum and venter (Fig. 3 A). On man. ....FAMILY PEDICULIDAE
- Abdomen with irregular sclerotized plates on dorsum and venter (Fig. 3 B). On hoofed animals.....FAMILY HAEMATOPINIDAE

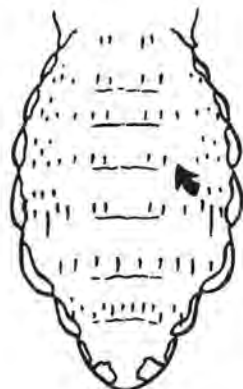


Fig. 3 A

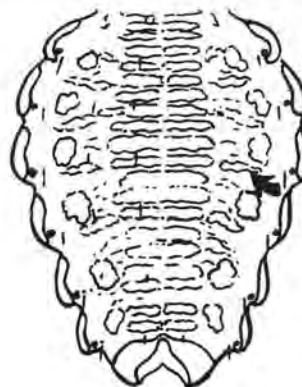


Fig. 3 B

4. Paratergal plates absent (Fig. 4 A). On hoofed animals or carnivores.....  
 .....FAMILY LINGNATHIDAE
- Paratergal plates present (Fig. 4 B). On rodents and lagomorphs...FAMILY HOPLOPLEURIDAE

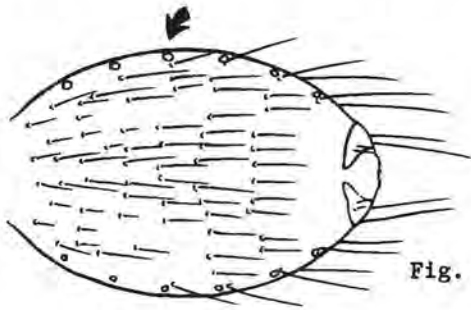


Fig. 4 A

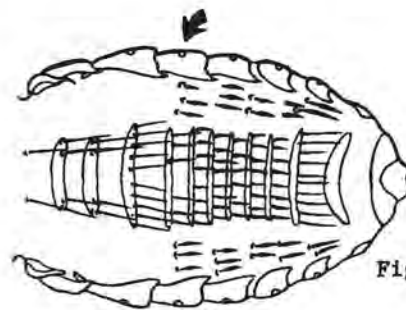


Fig. 4 B

### Key to Genera of Echinophthiriidae

1. Antennae four-segmented; abdomen without scale-like setae (Fig. 1 A).....2
- Antennae five-segmented; abdomen with scale-like setae (Fig. 1 B).....Antarctophthirus

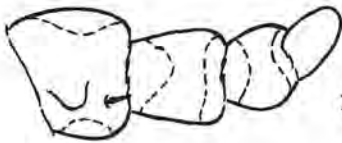


Fig. 1 A

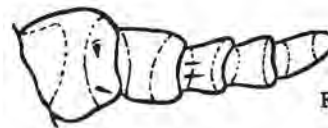


Fig. 1 B

2. Legs all essentially the same size (Fig. 2 A).....Echinophthirus horridus (von Olfers)
- Anterior legs small; second and third legs stout (Fig. 2 B).....  
 .....Proechinophthirus fluctus (Ferris)

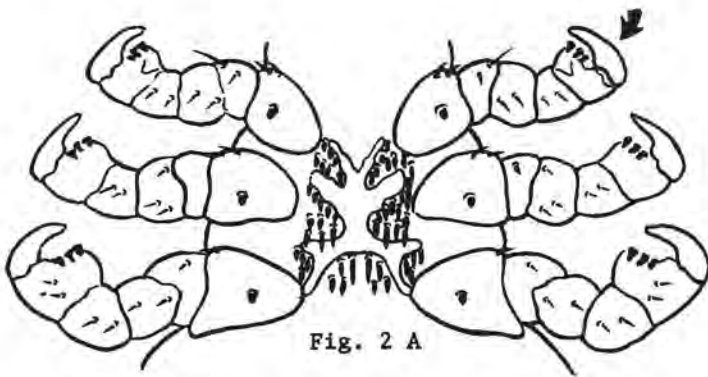


Fig. 2 A

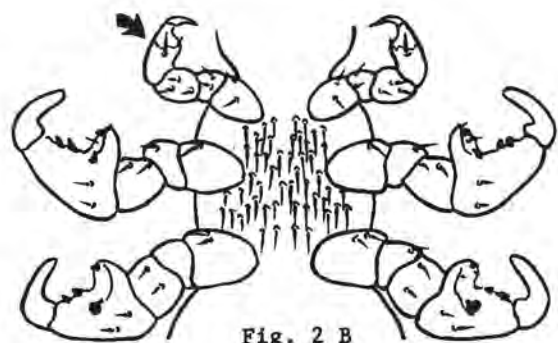


Fig. 2 B

## Key to Species of *Antarctophthirus*

1. Scale-like setae present only on abdomen (Fig. 1 A). *Antarctophthirus callorhini* (Osborn)  
 Scale-like setae present on thorax and abdomen (Fig. 1 B).....2

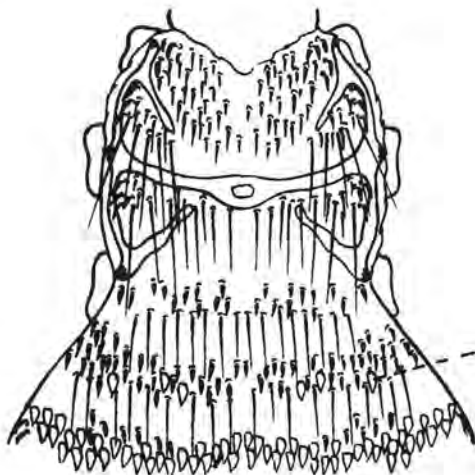


Fig. 1 A

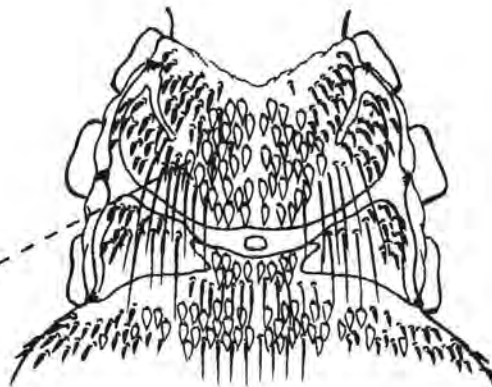


Fig. 1 B

2. Thoracic sternum with a few long setae on posterior border (Fig. 2 A).....  
 .....*Antarctophthirus microchir* (Troussart & Neumann)  
 Thoracic sternum without long setae on posterior border (Fig. 2 B).....  
 .....*Antarctophthirus trichechi* (Bohemann)

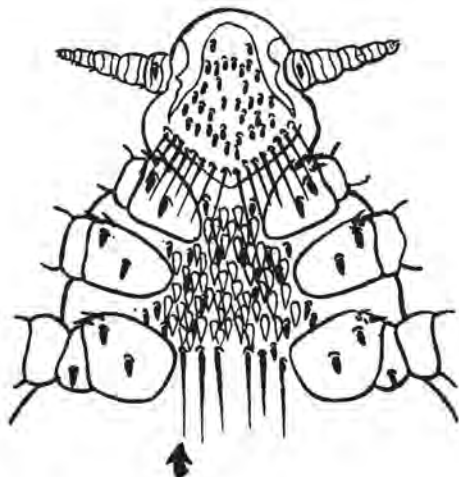


Fig. 2 A

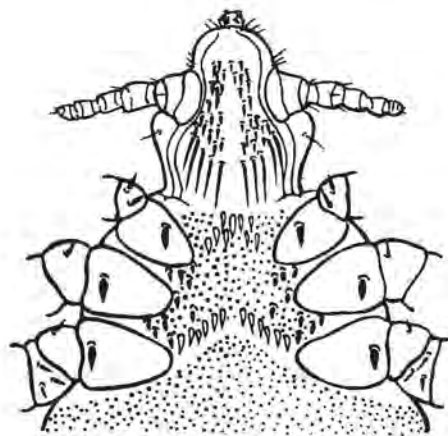
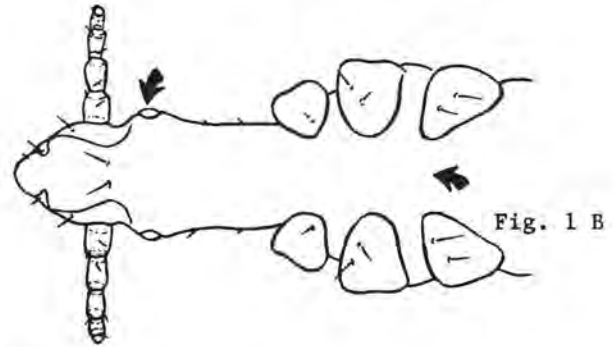
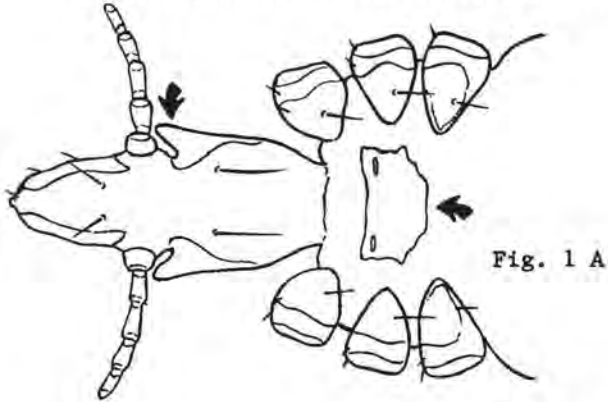


Fig. 2 B

### Key to Genera of Haematopinidae

1. Sternal plate of thorax present; eyes absent but with prominent ocular points (Fig. 1 A) .....Haematopinus
- Sternal plate of thorax absent; eyes present (Fig. 1 B). On peccary.....Pecaroecus javalii Babcock & Ewing



### Key to Species of Haematopinus

1. Thoracic sternal plate wider than long, sternal pits on plate (Fig. 1 A). Hog louse....  
.....Haematopinus suis (Linnaeus)
- Thoracic sternal plate longer than wide; sternal pits off plate (Fig. 1 B).....2

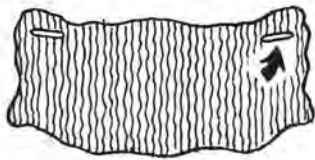


Fig. 2 A

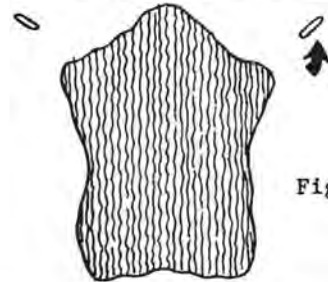


Fig. 2 B

2. Head at least two times as long as wide at ocular points; sternal plate without a median projection (Fig. 2 A & B). On equines. Horse sucking louse.....  
.....Haematopinus asini (Linnaeus)
- Head not two times as long as wide at ocular points; sternal plate with a median projection (Fig. 2 C & D). On cattle.....3

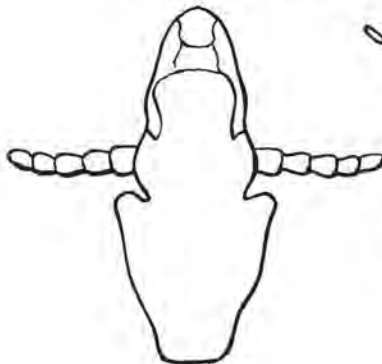


Fig. 2 A



Fig. 2 B

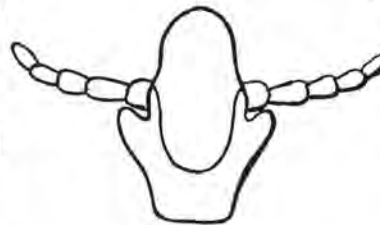
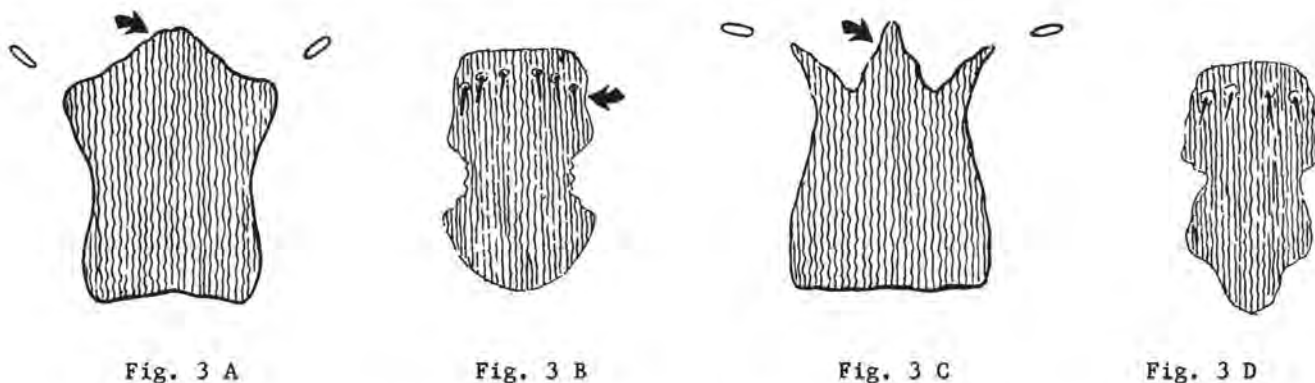


Fig. 2 C



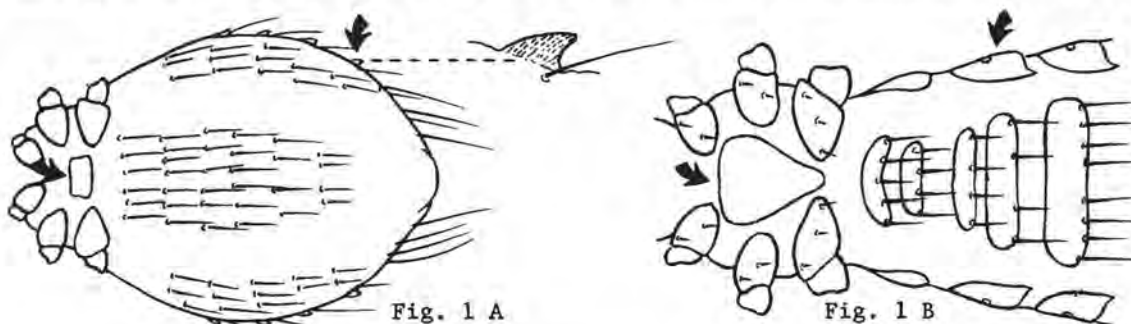
Fig. 2 D

3. Thoracic sternal plate with median projection blunt and rounded; male genital plate with six setae (Fig. 3 A & B). Short-nosed cattle louse.....  
 .....Haematopinus eurytERNUS (Nitzsch)
- Thoracic sternal plate with median projection more acute and longer; male genital plate with four setae (Fig. 3 C & D). Cattle tail louse.....  
 .....Haematopinus quadripertus Fahrenholz

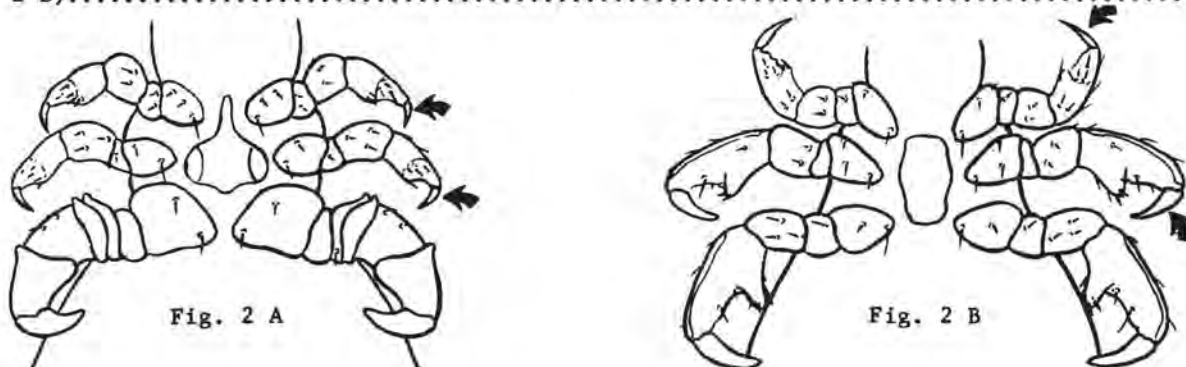


### Key to Genera of Hoplopleuridae

1. Paratergal plates very small being merely slightly sclerotized points (Fig. 1 A).....  
 .....Haemodipsus
- Paratergal plates on at least one abdominal segment usually as long as, or at least half as long as, the sternal plate (Fig. 1 B).....2



2. First and second pair of legs of the same size and form, both being more slender and smaller than the third pair of legs (Fig. 2 A).....3
- First pair of legs smallest of the three pairs; the second pair with stouter claws (Fig. 2 B).....4





3. A pair of small sclerotized plates present on venter of abdominal segment 2 (Fig. 3 A); antennae and head without hook-like processes.....Enderleinellus

Sclerotized plates entirely lacking on venter of abdominal segment 2; antennae and head with hook-like processes (Fig. 3 B).....Microphthirus uncinatus (Ferris)

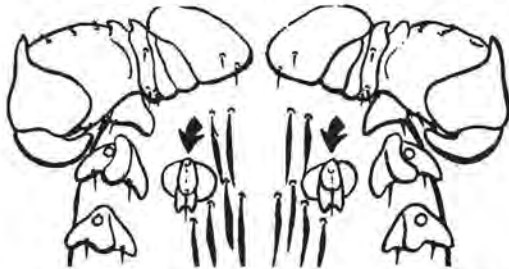


Fig. 3 A

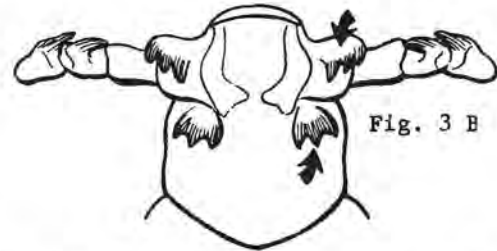


Fig. 3 B

4. Antennae four-segmented (sometimes appearing three-segmented); bladder-like expansions on third leg (Fig. 4 A & B).....Haematopinoides squamosus Osborn

Antennae five-segmented; bladder-like expansions lacking on third leg (Fig. 4 C).....5



Fig. 4 A



Fig. 4 B



Fig. 4 C

5. First sternite of abdominal segment 3 extended laterally to articulate with its corresponding paratergal plate; this sternite bearing two groups of two or three stout setae (Fig. 5 A).....Hoplopleura

First sternite of abdominal segment 3 never articulating with paratergal plate (Fig. 5 B).....6

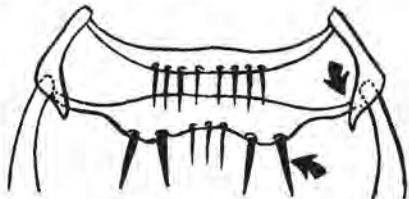


Fig. 5 A

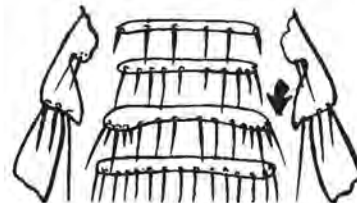


Fig. 5 B

6. Paratergal plate 2 completely divided longitudinally, one plate on the dorsum and the other on the venter of the abdomen (Fig. 6 A).....Fahrenheitzia

Paratergal plate 2 never completely divided to form two distinct plates (Fig. 6 B)....7



Fig. 6 A



Fig. 6 B

7. Sternal plate of thorax usually pointed posteriorly or, if truncate, always associated with a huge enlargement of the first antennal segment (Fig. 7 A & B).....Polyplax

Sternal plate of thorax usually emarginate posteriorly or sometimes quadrate in shape (Fig. 7 C & D).....Neohaematopinus

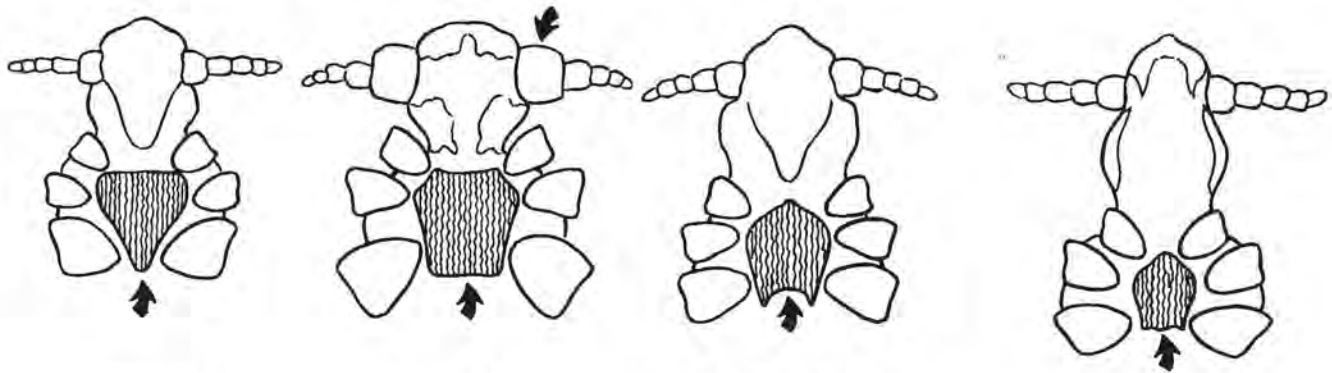


Fig. 7 A

Fig. 7 B

Fig. 7 C

Fig. 7 D

### Key to Species of Enderleinellus

1. Paratergal plates present on abdominal segments 2-5 (Fig. 1 A).....2

Paratergal plates present on abdominal segments 2-6; abdominal sternites and tergites present in both sexes (Fig. 1 B). On Sciurus.....Enderleinellus nitzschi Fahrenholz

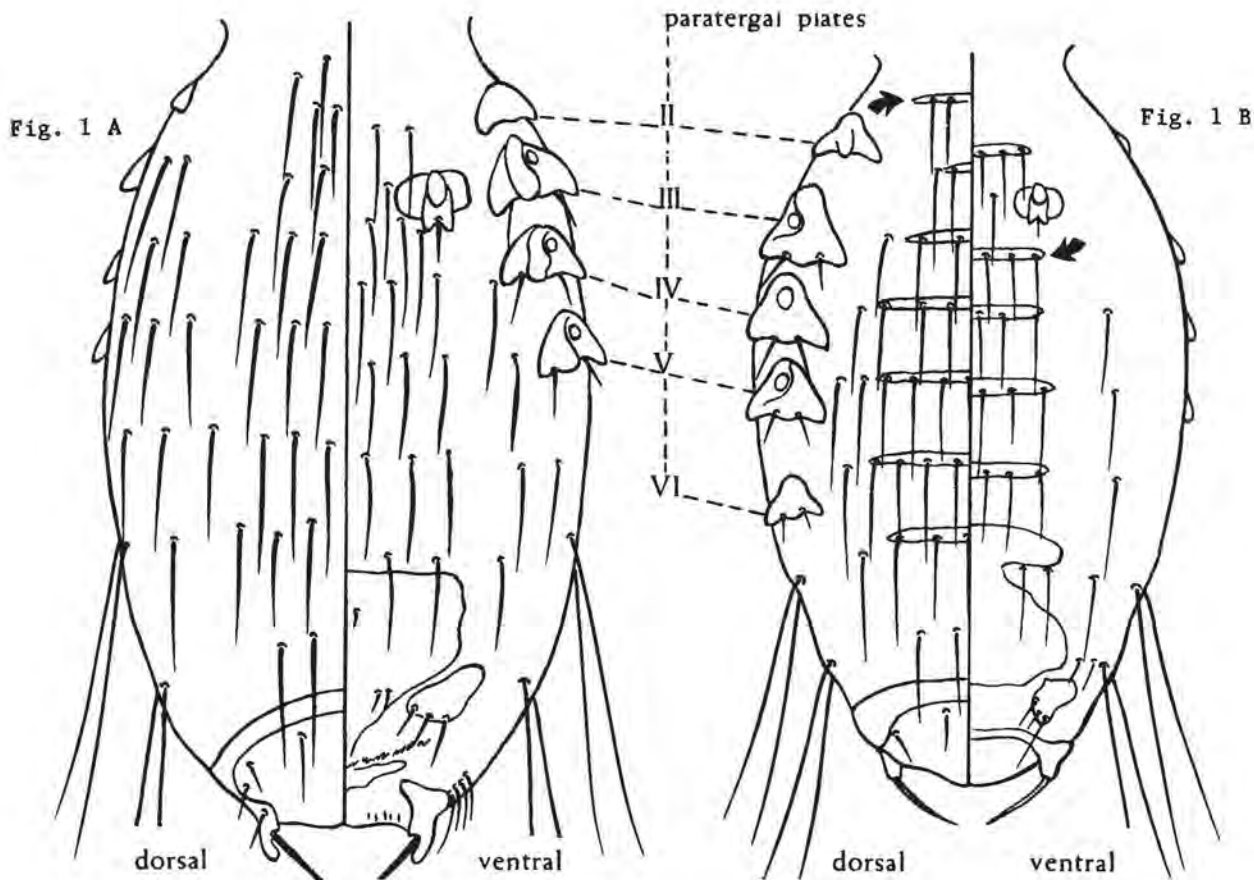


Fig. 1 A

Fig. 1 B

dorsal

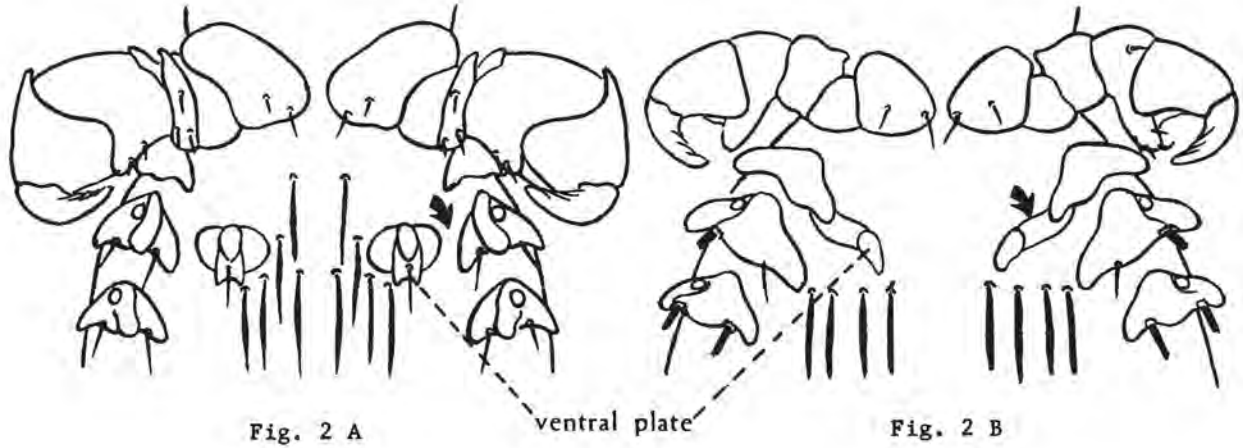
ventral

dorsal

ventral

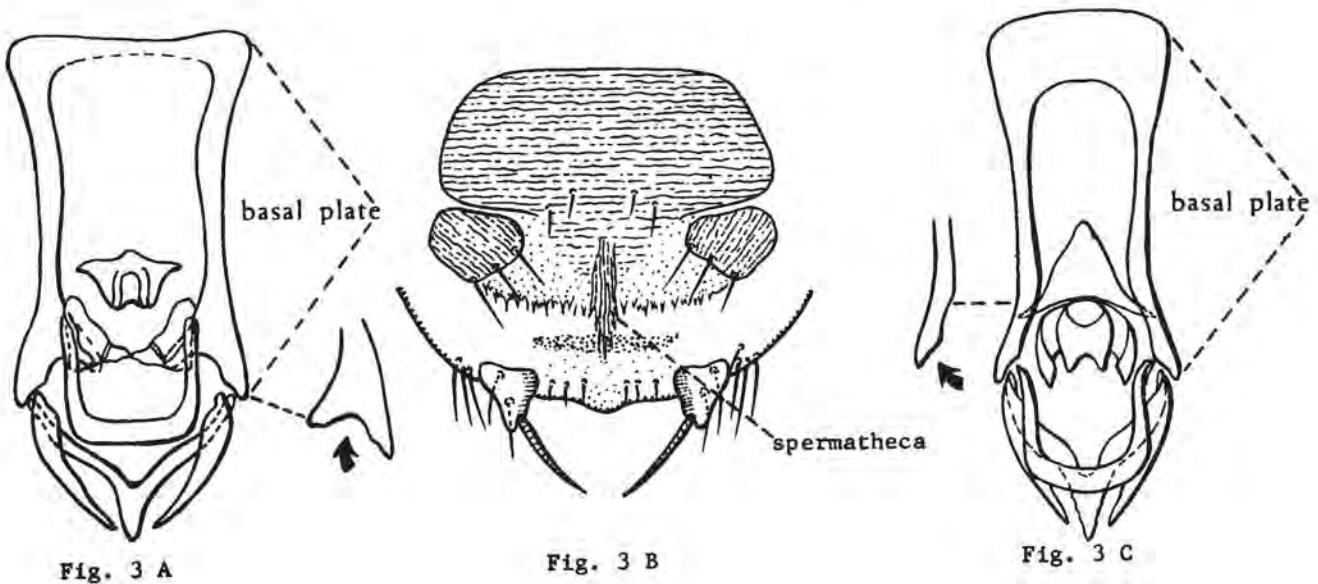
2. Paired ventral plates of abdominal segment 2 completely detached from its corresponding paratergal plate; each ventral plate bearing a single seta (Fig. 2 A). On Sciurus....3

Paired ventral plates of abdominal segment 2 each extending laterally to unite with its corresponding paratergal plate; ventral plates without setae (Fig. 2 B).....5



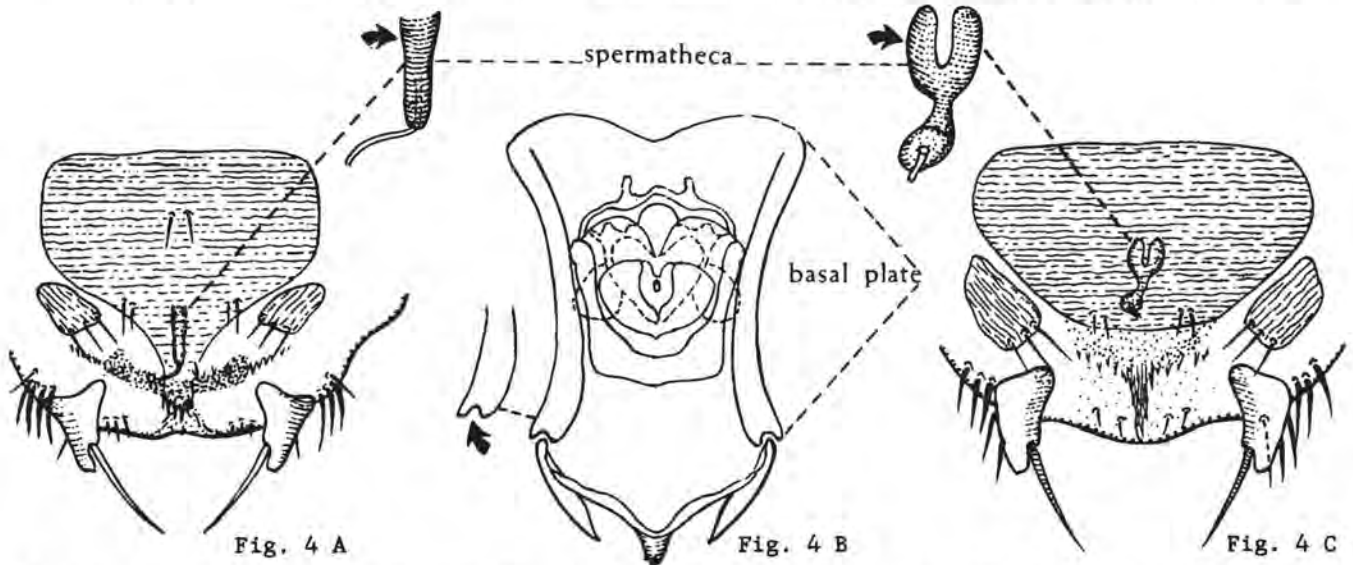
3. Spermatheca present; arms of basal plate apically bilobed (Fig. 3 A & B).....4

Spermatheca absent; arms of basal plate not apically bilobed (Fig. 3 C).....  
 .....Enderleinellus kelloggi Ferris



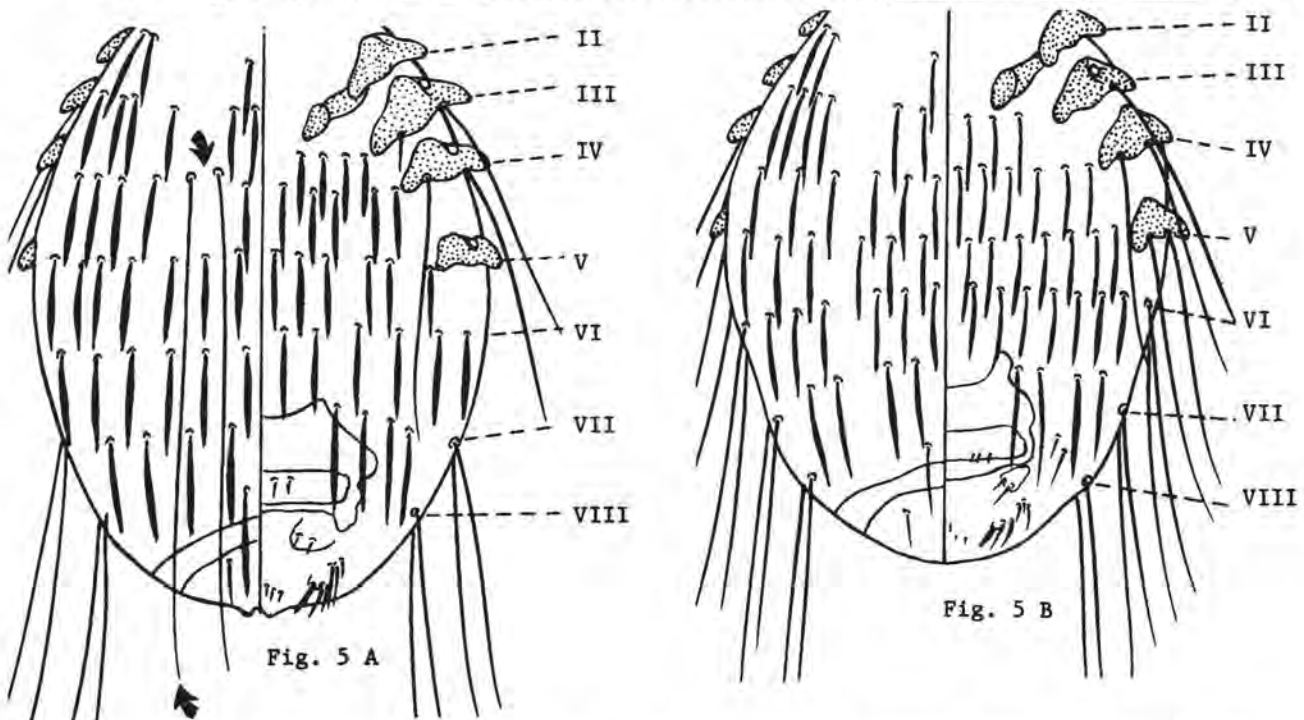
4. Spermatheca a straight slightly tapering tube; arms of basal plate apically bilobed but not expanded (Fig. 4 A & B).....Enderleinellus longiceps (Kellogg & Ferris)

Spermatheca bent and with its ends expanded; arms of basal plate apically expanded and strongly bilobed (Fig. 4 C).....Enderleinellus arizonensis Werneck



5. Paratergal plate 5 and lateral margin of abdominal segment 6 without a pair of long setae (Fig. 5 A).....6

Paratergal plates or lateral margins of abdominal segments 4-8 with a pair of long setae (Fig. 5 B). On Marmota.....Enderleinellus marmotae Ferris

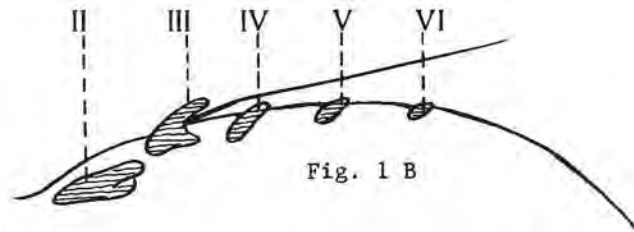
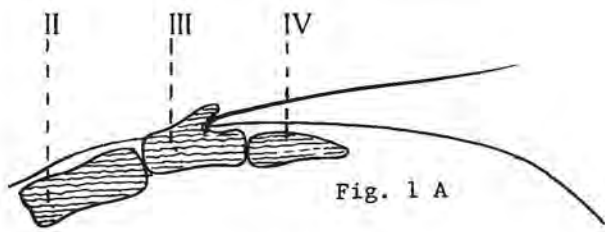


6. Female with 2-4 long setae on dorsum of abdominal segment 4 reaching to apex of body (Fig. 5 A). On Citellus and Cynomys.....Enderleinellus osborni (Kellogg & Ferris)

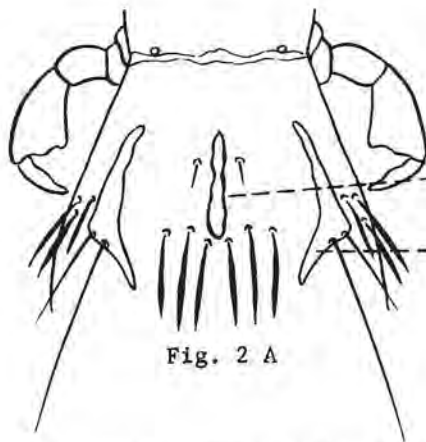
Female without such setae. On Citellus.....Enderleinellus suturalis (Osborn)

### Key to Species of *Fahrenholzia*

1. Paratergal plates present only on abdominal segments 2 to 4 (Fig. 1 A).....2
- Paratergal plates present on at least abdominal segments 2-6 (Fig. 1 B).....6

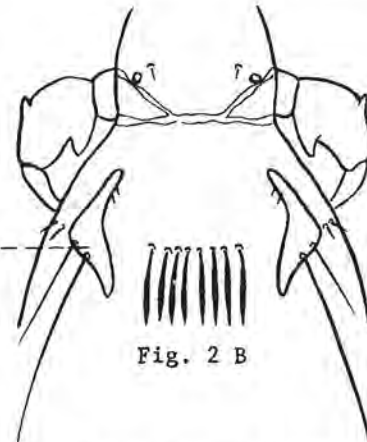


2. Dorsal surface of abdomen with a narrow, sclerotized, median, longitudinal plate between paratergal plates 2 (Fig. 2 A). On *Liomys*.....3
- Dorsal surface of abdomen without such a plate (Fig. 2 B). On *Perognathus* and *Dipodomys*.....5

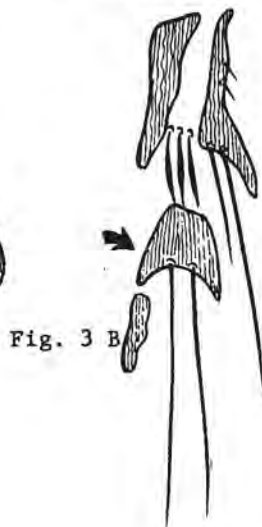
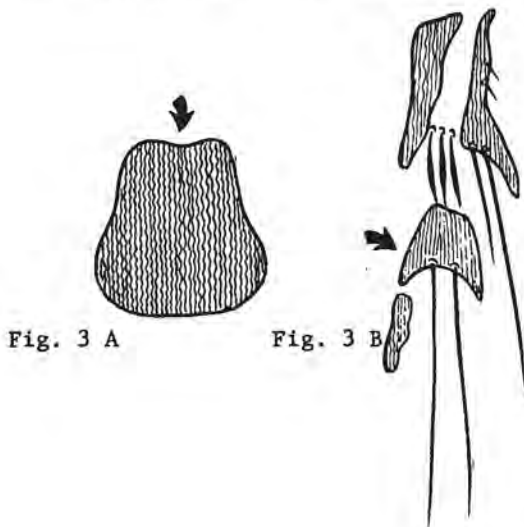


median longitudinal plate

paratergal plate II



3. Thoracic sternal plate concave on anterior margin; dorsal lobe of paratergal plate 3 pointed apically (Fig. 3 A & B).....*Fahrenholzia texana* Stojanovich & Pratt
- Thoracic sternal plate convex on anterior margin; dorsal lobe of paratergal plate 3 apically truncate (Fig. 3 C & D).....4



4. Dorsal lobe of paratergal plate 2 with the smaller seta about as long as the plate (Fig. 4 A).....Fahrenheitzia ehrlichi Johnson

Dorsal lobe of paratergal plate 2 with the smaller seta minute, much shorter than the plate (Fig. 4 B).....Fahrenheitzia microcephala Ferris



Fig. 4 A

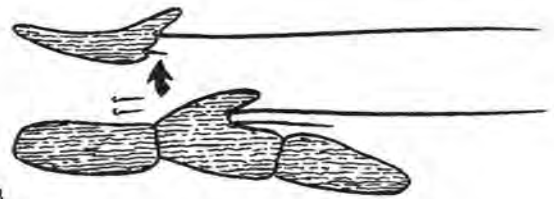


Fig. 4 B

5. Paratergal plates of abdominal segment 2 with a single pair of setae between dorsal and ventral lobes; male genitalia with parameres greatly expanded; female genital plate present (Fig. 5 A, B, & C).....Fahrenheitzia pinnata Kellogg & Ferris

Paratergal plates of abdominal segment 2 with 6 to 8 long setae between dorsal and ventral lobes; parameres of male genitalia not expanded; female genital plate absent (Fig. 5 D & E).....Fahrenheitzia reducta Ferris



Fig. 5 A

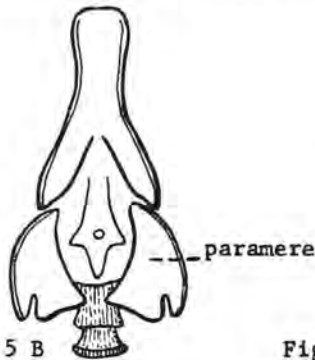


Fig. 5 B



Fig. 5 D

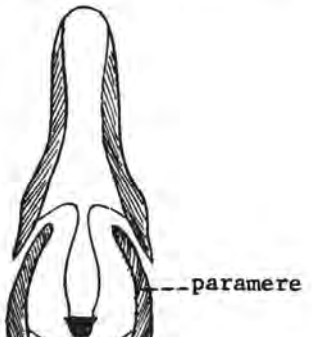


Fig. 5 E

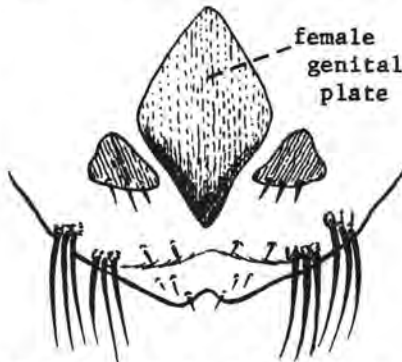


Fig. 5 C

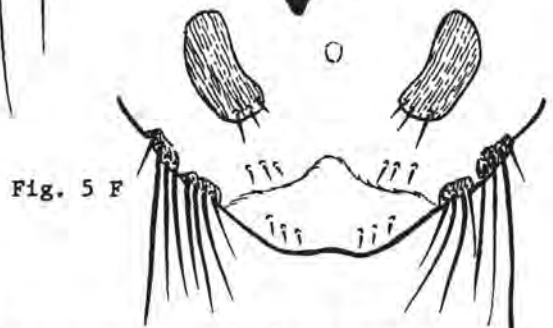


Fig. 5 F

6. Paratergal plates present on abdominal segments 2 to 6; paratergal plate 3 bilobed (Fig. 6 A).....Fahrenheitzia zacatecae Ferris

Paratergal plates present on abdominal segments 2 to 7; paratergal plate 3 not bilobed (Fig. 6 B).....Fahrenheitzia tribulosa Ferris

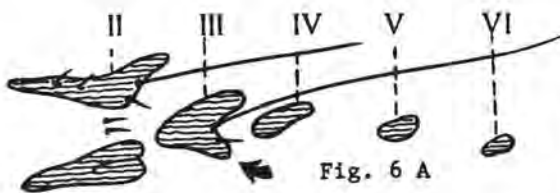


Fig. 6 A

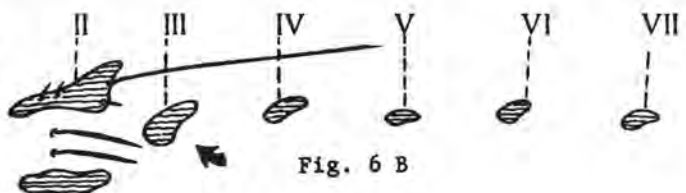


Fig. 6 B

## Key to Species of Hoplopleura

1. Third abdominal sternal plate with two groups of two stout setae (Fig. 1 A).....2
- Third abdominal sternal plate with two groups of three stout setae (Fig. 1 B).....
- On Glaucomys.....Hoplopleura trispinosa Kellogg & Ferris

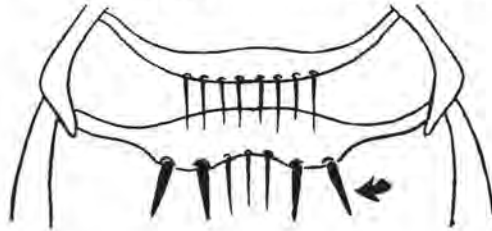


Fig. 1 A



Fig. 1 B

2. Posterior margins of paratergal plates 3-5 with a broad or pointed lobe on each side (Fig. 2 A & B).....3
- Posterior margins of paratergal plates 3-5 with four rounded lobes (Fig. 2 C).....
- On Oryzomys.....Hoplopleura oryzomydis Pratt & Lane

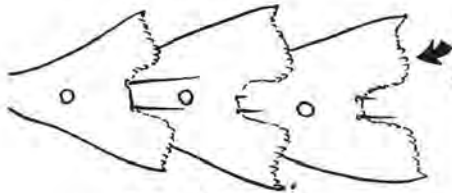


Fig. 2 A



Fig. 2 B

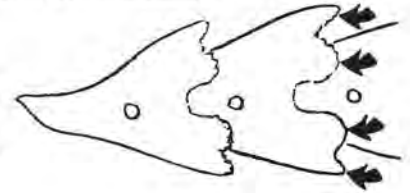


Fig. 2 C

3. Paratergal plates 4 and 5 with broad lobes on posterior margin (Fig. 3 A).....4
- Paratergal plates 4 and 5 with pointed lobes on posterior margin (Fig. 3 B).....7

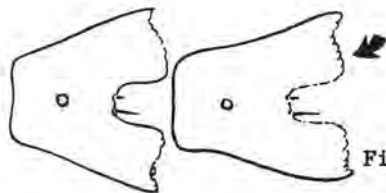


Fig. 3 A



Fig. 3 B

4. Paratergal plates 4 and 5 with one large and one minute seta on posterior margin (Fig. 4 A).....5
- Paratergal plates 4 and 5 with two large setae on posterior margin (Fig. 4 B).....
- On field rodents.....Hoplopleura acanthopus (Burmeister)

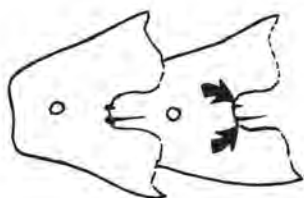


Fig. 4 A



Fig. 4 B

5. Abdomen with setae in some of the membrane between sternal and paratergal plates (Fig. 5 A). On Rattus.....Hoplopleura oenomydis Ferris
- Abdomen without setae in membrane between ends of sternal and paratergal plates (Fig. 5 B).....6

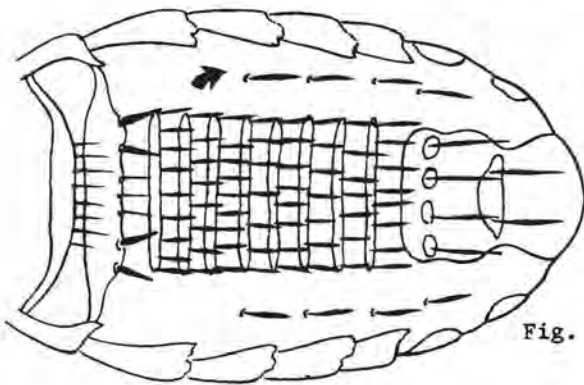


Fig. 5 A

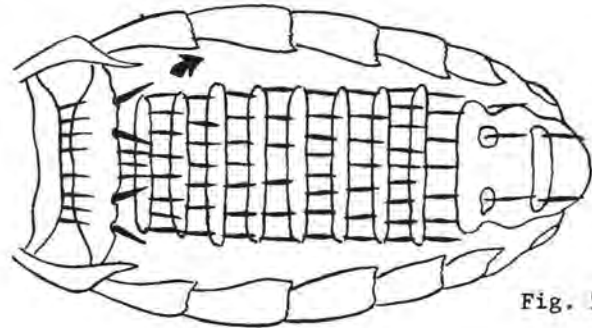


Fig. 5 B

6. Thoracic sternal plate pointed posteriorly (Fig. 6 A). On Peromyscus.....  
.....\*Hoplopleura hesperomydis (Osborn) and \*Hoplopleura ferrisi Cook & Beer
- Thoracic sternal plate blunt posteriorly (Fig. 6 B). On Onychomys.....  
.....Hoplopleura onychomydis Cook & Beer

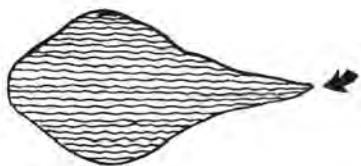


Fig. 6 A

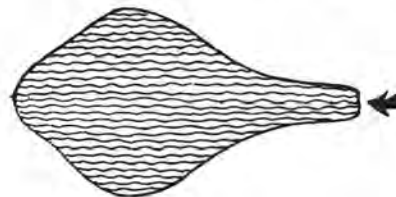


Fig. 6 B

7. Thoracic sternal plate about as long as broad; first sternal plate on abdominal segment 3 with two stout setae usually set close together on each side (Fig. 7 A).....8
- Thoracic sternal plate definitely longer than broad; first sternal plate on abdominal segment 3 with two stout setae more widely spaced on each side (Fig. 7 B).....9

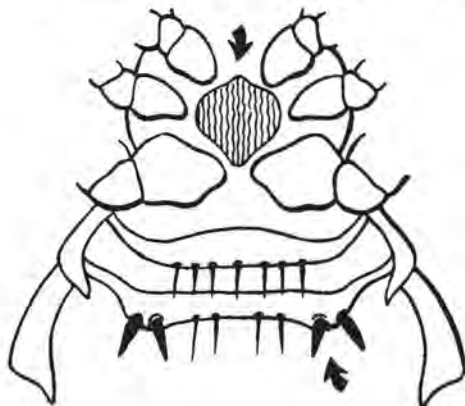


Fig. 7 A

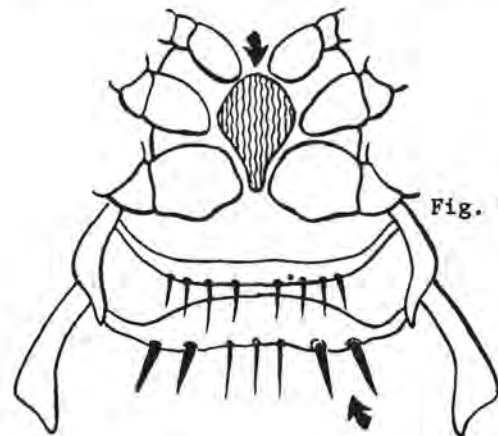


Fig. 7 B

\*These species are separated only in the immature stages.



8. Paratergal plate 6 with posterior angles produced into points (Fig. 8 A). On Eutamias .....Hoplopleura arboricola Kellogg & Ferris  
 Paratergal plate 6 without points on posterior angles (Fig. 8 B). On Tamias.....Hoplopleura erratica (Osborn)

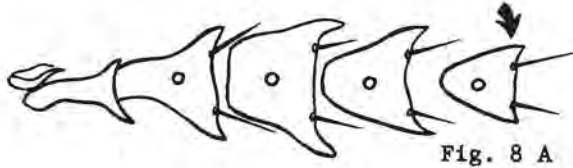


Fig. 8 A

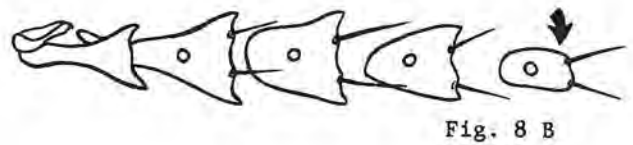


Fig. 8 B

9. Posterior margin of paratergal plate 6 with angles produced to form a deep emargination (Fig. 9 A). On Sciurus.....Hoplopleura sciuricola Ferris  
 Posterior margin of paratergal plate 6 with angles not produced to form a deep emargination (Fig. 9 B). On Sigmodon.....10

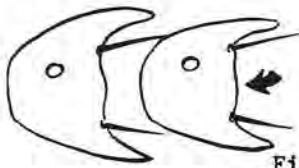


Fig. 9 A

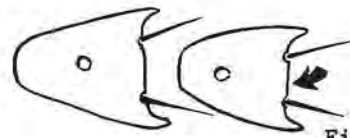


Fig. 9 B

10. Female with paratergal plates 4-6 elongated; male with 11 tergal plates bearing a row of setae (Fig. 10 A & B).....Hoplopleura arizonensis Stojanovich & Pratt  
 Female with paratergal plates 4-6 only slightly elongated; male with only 7 tergal plates bearing a row of setae (Fig. 10 C & D).....Hoplopleura hirsuta Ferris

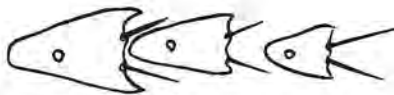


Fig. 10 A



Fig. 10 C

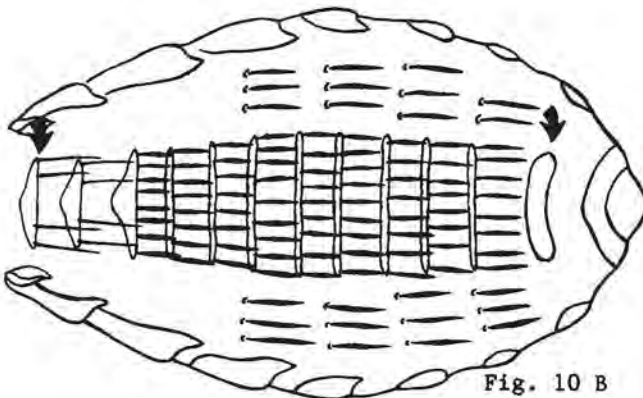


Fig. 10 B

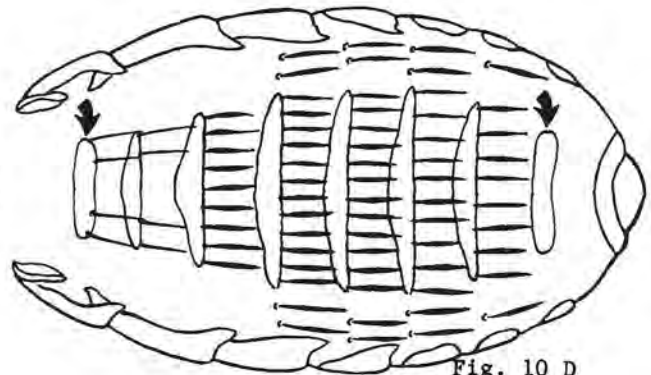


Fig. 10 D

### Key to Species of *Haemodipsus*

1. Thoracic sternal plate almost three times as wide as long (Fig. 1 A). On domestic rabbits (*Oryctolagus*).....*Haemodipsus ventricosus* (Denny)
- Thoracic sternal plate hexagonal, being almost as long as wide (Fig. 1 B). On wild rabbits and hares (*Sylvilagus* and *Lepus*).....*Haemodipsus setoni* Ewing

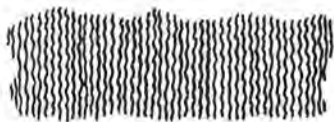


Fig. 1 A

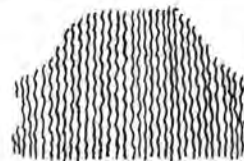


Fig. 1 B

### Key to Species of *Neohaematopinus*

1. Thoracic sternal plate concave on posterior margin (Fig. 1 A).....2
- Thoracic sternal plate somewhat oval, and convex on posterior margin (Fig. 1 B).....11



Fig. 1 A

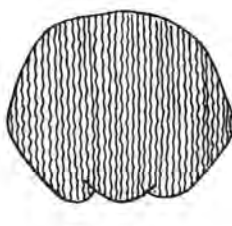


Fig. 1 B

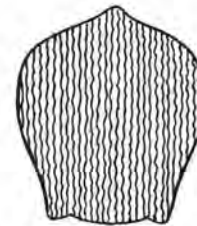


Fig. 1 C

2. Paratergal plates 3 to 6 with three spines on posterior margins (Fig. 2 A).....3
- Paratergal plates 3 to 6 with two spines on posterior margins (Fig. 2 B).....5

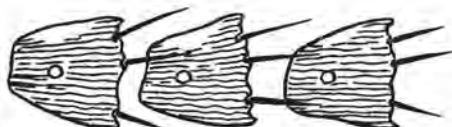


Fig. 2 A



Fig. 2 B

3. Posterior angle of first antennal segment with a stout spine (Fig. 3 A). On *Eutamias*...  
.....*Neohaematopinus pacificus* (Kellogg & Ferris)
- Posterior angle of first antennal segment without a stout spine (Fig. 3 B).....4



Fig. 3 A



Fig. 3 B

- 4. Abdominal tergal and sternal plates present on each segment in both sexes (Fig. 4 A)....  
On Citellus tereticaudus.....Neohaematopinus citellinus Ferris

Abdominal tergal and sternal plates absent in the middle segments of female; male with only sternal plates absent (Fig. 4 B). On Citellus spilosoma.....  
.....Neohaematopinus spilosomae Stojanovich & Pratt

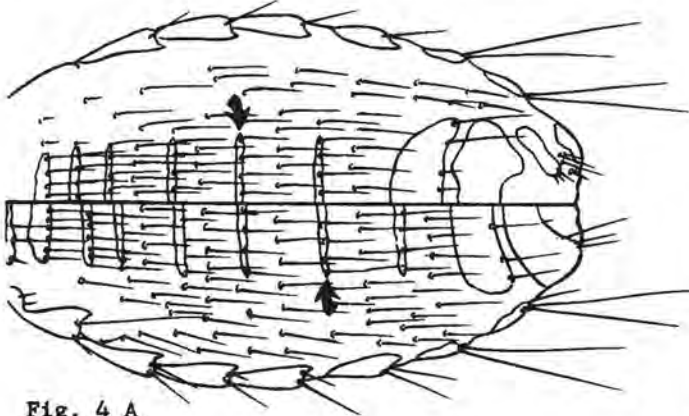


Fig. 4 A

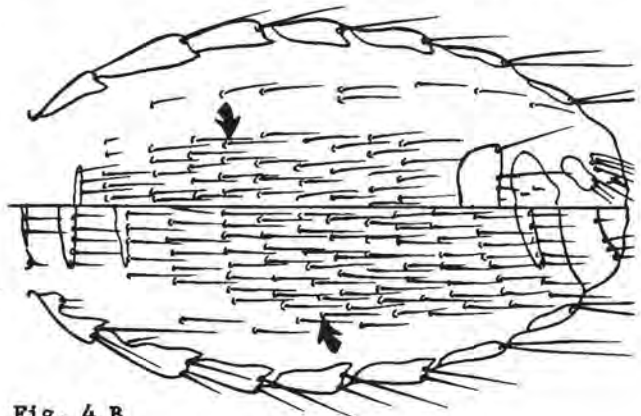


Fig. 4 B

- 5. First antennal segment prolonged postero-apically, with stout spine (Fig. 5 A).....6  
First antennal segment without such a prolongation (Fig. 5 B).....8

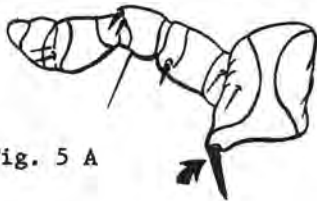


Fig. 5 A



Fig. 5 B

- 6. Female without sternal and tergal plates on abdominal segments except for the normal terminal and genital segments (Fig. 6 A). On Sciurus griseicolus.....  
.....Neohaematopinus griseicolus Ferris
- Female with sternal and tergal plates on all abdominal segments (Fig. 6 B).....7

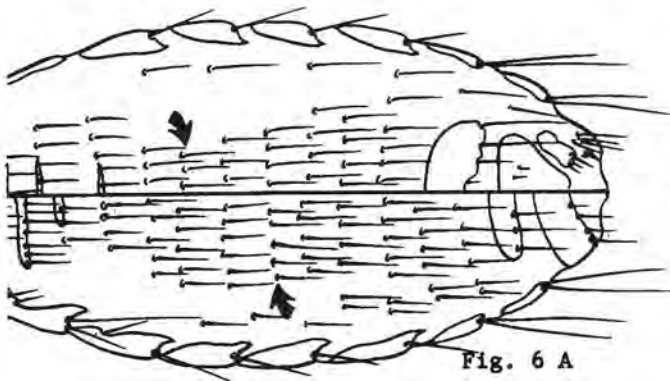


Fig. 6 A

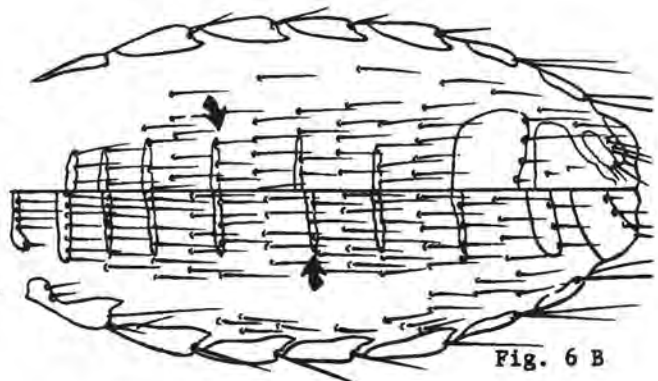


Fig. 6 B

7. Second antennal segment with short spine-like seta on posterior margin (Fig. 7 A).....  
 On Tamias hudsonicus.....Neohaematopinus semifasciatus Ferris  
 Second antennal segment without spine-like seta (Fig. 7 B). On Sciurus niger.....  
 .....Neohaematopinus sciurinus Mjöberg

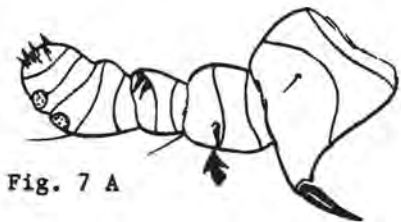


Fig. 7 A

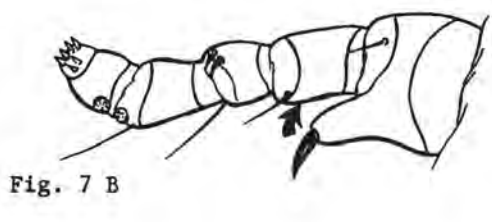


Fig. 7 B

8. Abdominal sternal and tergal plates absent in female; male with only sternal plates absent (Fig. 8 A). On Neotoma cinerea.....Neohaematopinus inornatus Ferris  
 Abdominal sternal and tergal plates present in both sexes (Fig. 9 A).....9

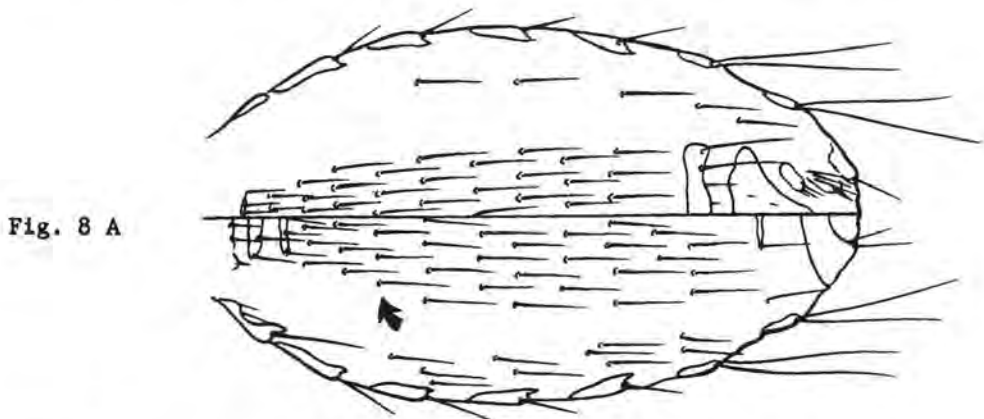


Fig. 8 A

9. A row of setae present on membrane between most of the sternal and tergal plates of abdomen (Fig. 9 A).....10  
 Membrane between the abdominal sternal and tergal plates without a row of setae (Fig. 9 B). On Glaucomys.....Neohaematopinus sciuropteri (Osborn)

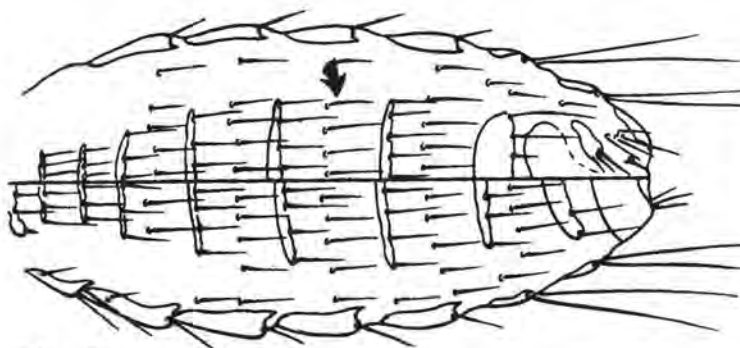


Fig. 9 A

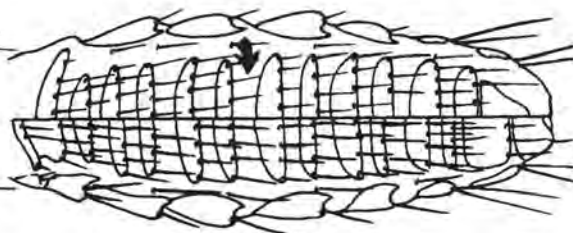


Fig. 9 B

10. First antennal segment with a spine-like seta at the postero-apical angle (Fig. 10 A)  
 On Sciurus carolinensis.....Neohaematopinus sciuri Jancke

First antennal segment with a spine-like seta set somewhat away from the margin in the  
 postero-apical angle (Fig. 10 B). On Neotoma albigula, streatori and micropus.....  
 .....Neohaematopinus neotomae Ferris

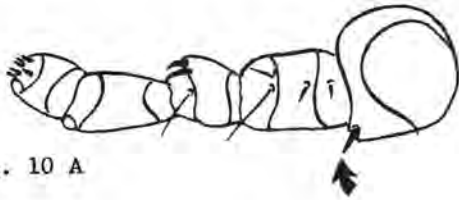


Fig. 10 A

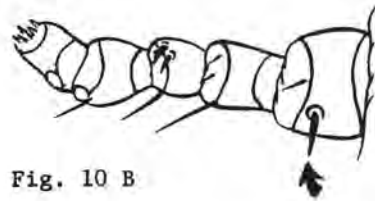


Fig. 10 B

11. Thoracic spiracle small, about one-fourth length of second coxa (Fig. 11 A).....  
 On Citellus and Cynomys.....Neohaematopinus laeviusculus (Grube)

Thoracic spiracle larger, almost one-half length of second coxa (Fig. 11 B).....  
 On Marmota.....Neohaematopinus marmotae Ferris

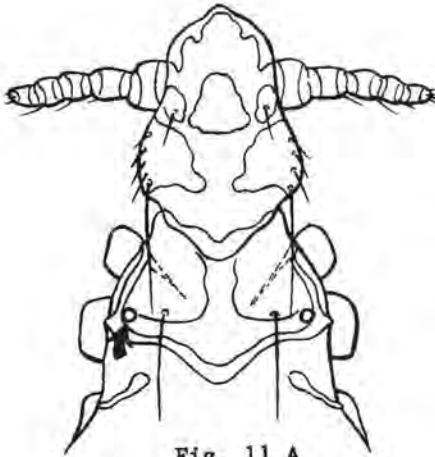


Fig. 11 A

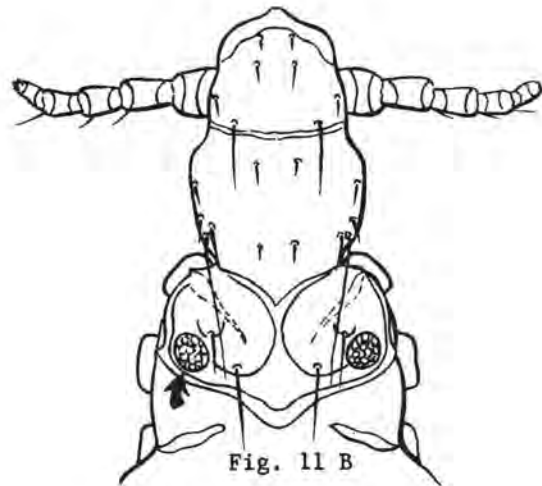


Fig. 11 B

## Key to Species of Polyplax

1. Sternal plate of thorax rounded or pointed posteriorly (Fig. 1 A).....2  
 Sternal plate of thorax truncate posteriorly (Fig. 1 B). On Peromyscus and Onychomys...  
 .....Polyplax auricularis Ferris

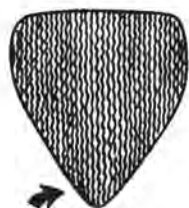


Fig. 1 A

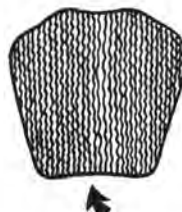


Fig. 1 B

2. Paratergal plate 4 with both setae short or subequal (Fig. 2 A).....3  
 Paratergal plate 4 with dorsal seta longer than ventral seta; usually as long or longer than plate (Fig. 2 B). On house mouse.....Polyplax serrata (Burmeister)



Fig. 2 A



Fig. 2 B

3. Paratergal plates 3-5 with both apical angles produced into points (Fig. 3 A).....  
 On microtene mice.....4  
 Paratergal plates 3-5 with only dorsal apical angle produced into a point (Fig. 3 B)....  
 On Rattus.....Polyplax spinulosa (Burmeister)



Fig. 3 A



Fig. 3 B

4. First abdominal sternal plate strongly arcuate and with its lateral angles somewhat prolonged (Fig. 4 A).....Polyplax borealis Ferris  
 First abdominal sternal plate not arcuate, its posterior margin almost straight and lateral angles not produced (Fig. 4 B).....Polyplax alaskensis Ewing

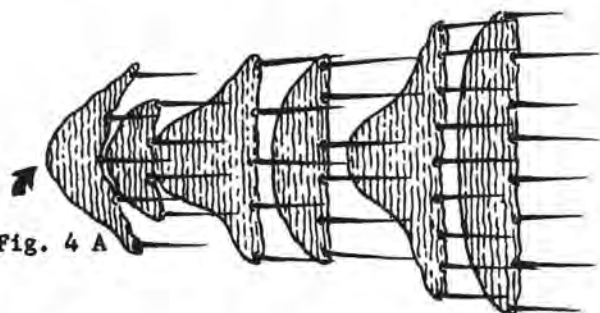


Fig. 4 A

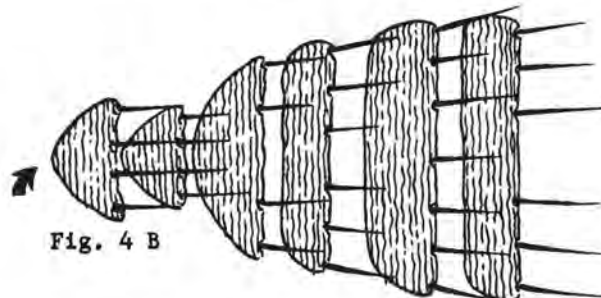


Fig. 4 B

### Key to Genera of Linognathidae

- 1. Sternal plate of thorax at least half as wide as long (Fig. 1 A).....Solenopotes
- Sternal plate of thorax small and slender or completely lacking (Fig. 1 B)..Linognathus

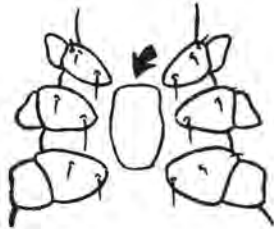


Fig. 1 A

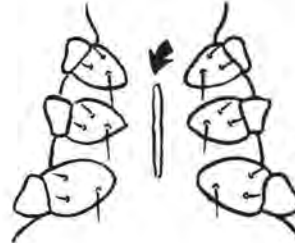


Fig. 1 B

### Key to Species of Linognathus

- 1. Head about as broad as long; antennae almost as long as head (Fig. 1 A).....2
- Head almost twice as long as wide or longer; antennae noticeably shorter than head (Fig. 1 B).....3



Fig. 1 A

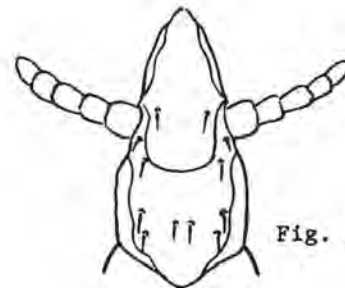


Fig. 1 B

- 2. Thoracic dorsum with four long setae; head slightly longer than broad (Fig. 2 A). On dogs, foxes and ferrets. Dog sucking louse.....Linognathus setosus (von Olfers)
- Thoracic dorsum with two long setae; head definitely as broad as long (Fig. 2 B).....Linognathus pedalis (Osborn)

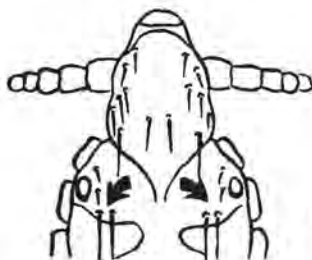


Fig. 2 A

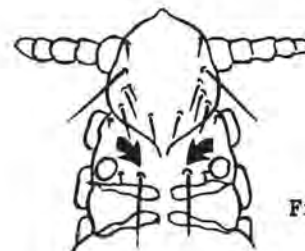


Fig. 2 B

3. Fore head acutely conical and much elongated; female gonopod with a sclerotized hook (Fig. 3 A & B). On cattle. Long-nosed cattle louse.....Linognathus vituli (Linnaeus)

Fore head rounded (Fig. 3 C); female gonopod rounded or with a slight tooth (Fig. 5 B & C). On sheep and goats.....4

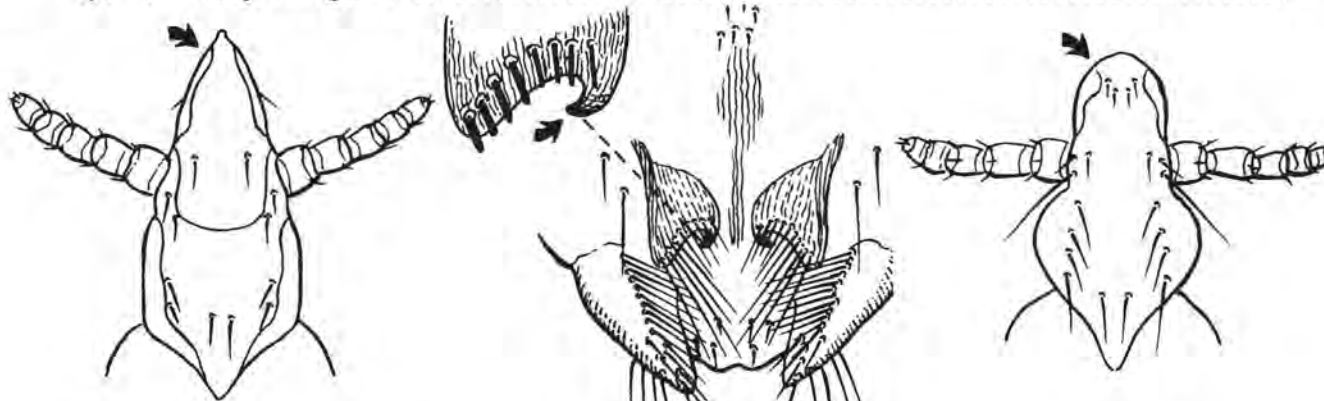


Fig. 3 A

Fig. 3 B

Fig. 3 C

4. Head greatly expanded behind antennae; female gonopod rounded (Fig. 4 A & B). Goat sucking louse.....Linognathus africanus (Kellogg & Paine)

Head not greatly expanded behind antennae (Fig. 4 C).....5

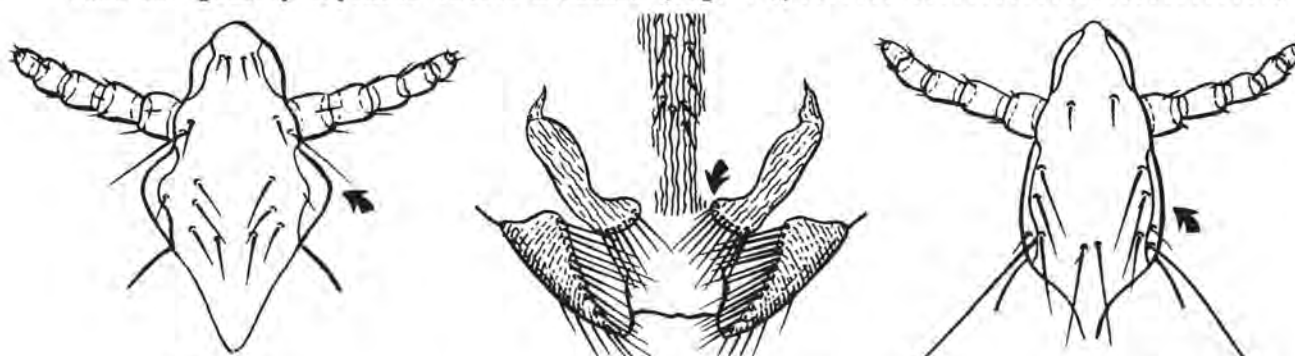


Fig. 4 A

Fig. 4 B

Fig. 4 C

5. Thoracic spiracle large and conspicuous; female gonopod rounded (Fig. 5 A & B). Sheep louse.....Linognathus ovis (Neumann)

Thoracic spiracle not large and conspicuous; female gonopod with a slight tooth (Fig. 5 C & D). Goat sucking louse.....Linognathus stenopsis (Burmeister)

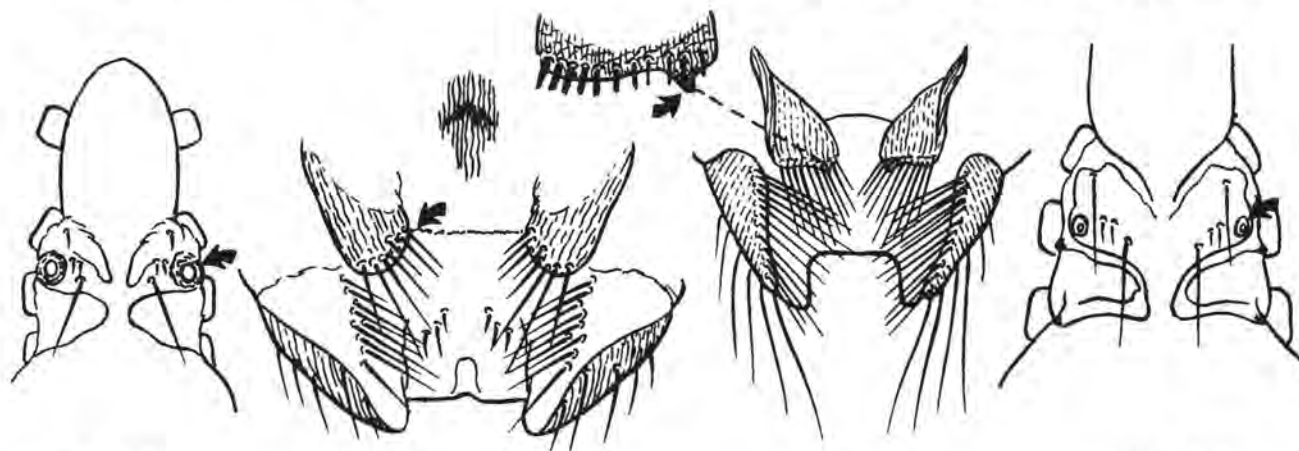


Fig. 5 A

Fig. 5 B

Fig. 5 C

Fig. 5 D



## Key to Species of Solenopotes

1. Abdominal spiracles strongly protuberant (Fig. 1 A); female genitalia with apical processes strongly constricted near middle (Fig. 1 B); male genitalia as in figure 2 E. On cattle. Little blue cattle louse.....Solenopotes capillatus Enderlein

Abdominal spiracles only slightly protuberant (Fig. 1 C); female genitalia with apical processes not constricted (Fig. 1 D & E); male genitalia as in figures 2 C & D. On deer.....2



Fig. 1 A



Fig. 1 C

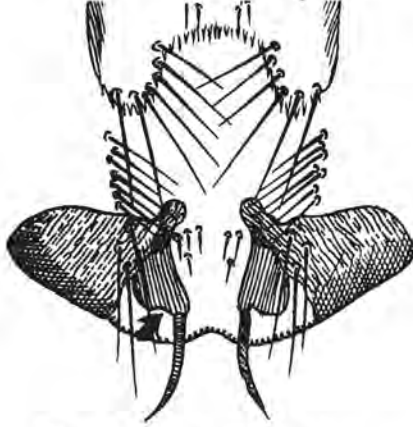


Fig. 1 B (capillatus)

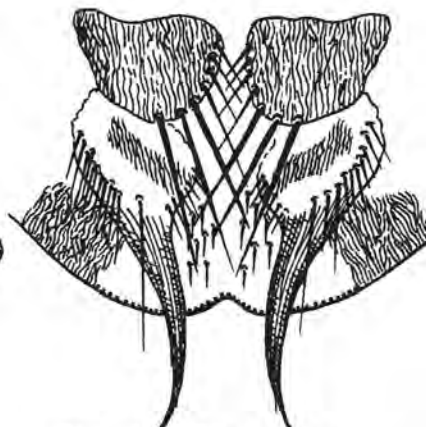


Fig. 1 D (binipilosus)

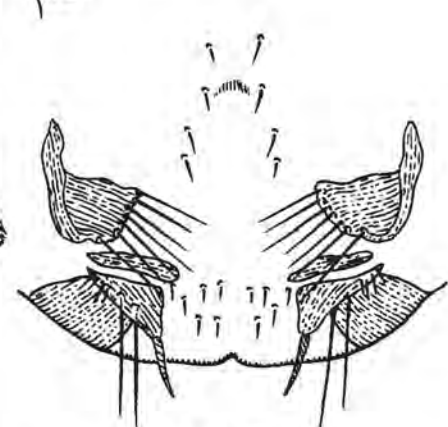


Fig. 1 E (ferrisi)

2. Neck present, head with distinct posterior-lateral angles (Fig. 2 A); female genitalia as in figure 1 E; male genitalia as in figure 2 C.....Solenopotes ferrisi (Fahrenholz)

Head without distinct posterior-lateral angles (Fig. 2 B); female genitalia as in figure 1 D; male genitalia as in figure 2 D.....Solenopotes binipilosus (Fahrenholz)

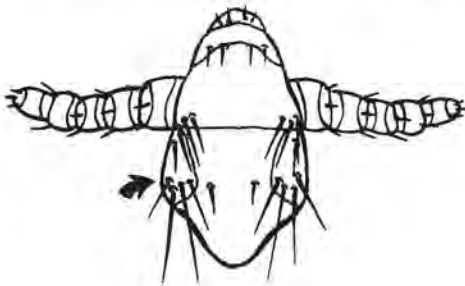


Fig. 2 A

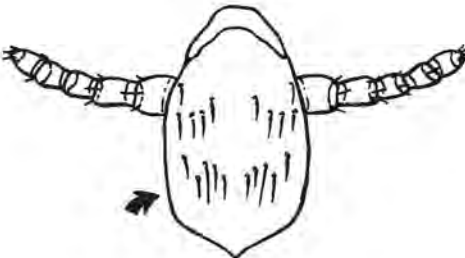


Fig. 2 B

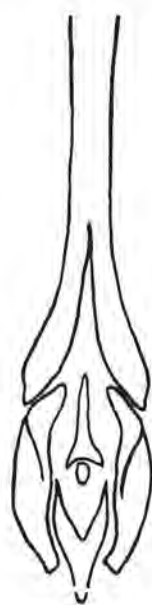


Fig. 2 C  
(ferrisi)



Fig. 2 D  
(binipilosus)



Fig. 2 E  
(capillatus)

## Key to Genera of Pediculidae

1. Abdomen much longer than basal width; without hairy tubercles (Fig. 1 A). Head and body louse.....Pediculus humanus Linnaeus
- Abdomen about as long as basal width; with hairy tubercles (Fig. 1 B). Crab louse....  
.....Pthirus pubis (Linnaeus)

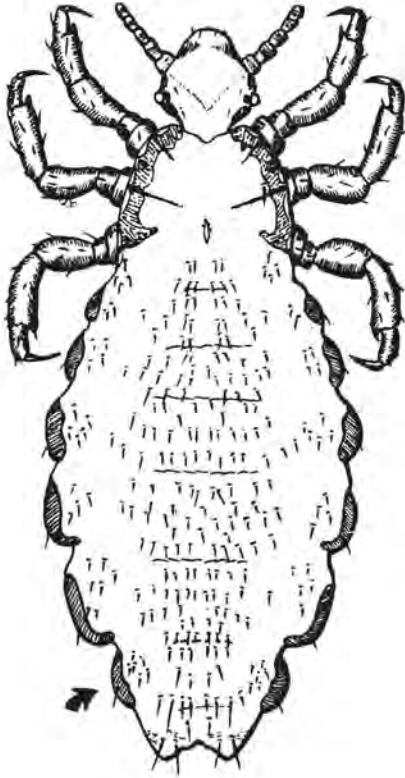


Fig. 1 A

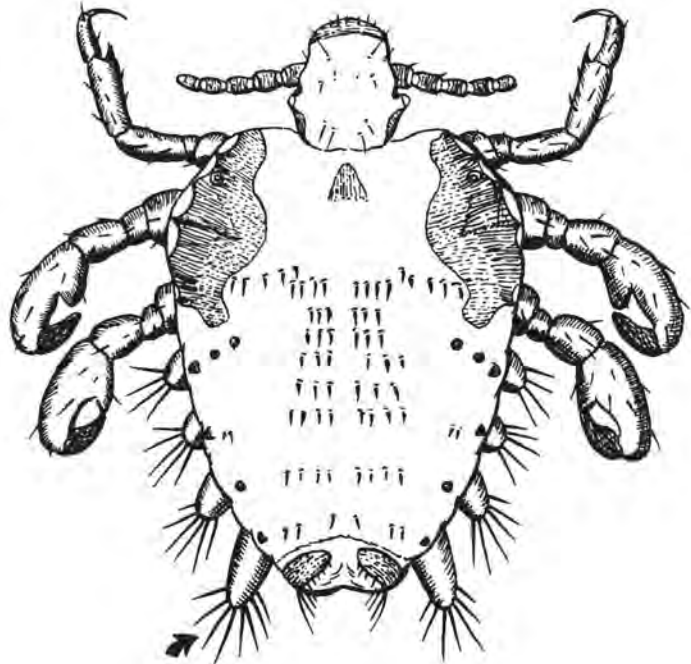


Fig. 1 B