

# A KEY TO THE OKLAHOMA SPECIES OF THE FAMILY ASELLIDAE

J. G. MACKIN,\* Ada

1. Suture between the ultimate and penultimate segments of the gill cover (3rd pleopod) beginning at the extreme distal median extremity and proceeding obliquely forward and across, cutting off a half moon or triangular terminal segment. ....2  
 Suture between the ultimate and penultimate segments of the gill cover beginning at a considerable distance anterior to the posterior extremity and the terminal segment is quadrangular. ....3
2. Basal process of the palm of the propodus of the male gnathopod present; larger than the median and distal processes.  
*Mancasellus macrourus* Harger  
 Basal process of the palm of the propodus of the male gnathopod absent or very short, very much smaller than the median process.  
*Mancasellus incisus* (Van Name)
3. Eyes reduced to vestiges or absent; pigment pattern very light or absent; mostly subterranean species; pleotelson distinctly longer than broad.  
 Genus *Caecidotea* Packard.....4  
 Eyes always well developed; body pigment developed and varying from black to reddish brown with yellow spots; pleotelson about as broad as long. ....7
4. Eye vestiges and light pigment pattern present; first pleopod of the male with the distal segment at least twice as long as broad; in Ouachita uplift.  
*Caecidotea oculata* Mackin and Hubricht  
 Eyes absent; no pigment present; terminal segment of the male first pleopod not more than one and one-half times as long as broad. ....5
5. Male gnathopod without processes on the palm of the propodus; uropods tapering, cylindrical; in Wichita uplift.  
*Caecidotea adenta* Mackin and Hubricht  
 Male gnathopod with processes on the palm of the propodus; uropods cylindrical and clavate. ....6
6. Male gnathopod lacking the basal process on the palm of the propodus; carpus of the same appendage triangular or arrow-head shaped; dactyl without internal basal process; in the Arbuckle uplift and wells of neighboring regions.  
*Caecidotea acuticarpa* Mackin and Hubricht  
 Male gnathopod with basal process of the palm of the propodus present; carpus quadrangular; dactyl with a triangular process on the inside near the base.  
*Caecidotea macropropodus* Chase and Blair
7. Endopodite of the uropods broadly lanceolate in form, pointed; endopodite of the male second pleopod short, only slightly more than half as long as the exopodite and ending in a blunt lobe; large, dark; inhabitants of lowland temporary ponds.  
*Asellus militaris* Hay

\* East Central State College.

Endopodite of the uropods slender, rather rounded at the tip; endopodite of the male second pleopoda as long as or longer than the exopodite and with a spirally twisted tip pointed and directed inwardly; light reddish brown mottled; inhabitants of the mountain streams of the Ouachita and southern Ozarkian uplifts.

*Asellus montanus* Mackin and Hubricht