

strong doubt on the central Texas record. I assume Tucker had *H. americana*, a highly variable species with at least five synonyms (see Needham and Heywood, 1929).

An unpublished thesis on the Odonata of Texas submitted to Trinity University, San Antonio, in 1952 by P. N. Albright lists, among other species, *Lestes congener*, *L. dryas*, *L. unguiculatus*, *Amphiagrion saucium*, *Enallagma cyathigerum*, and *Hetaerina sempronia*. Albright's specimens are not available, and the source of his determinations is not clear. Acceptance of these species for Texas requires documentation by specimens with verified determinations.

From the above questionable species, *Lestes congener* may exist in Texas as it reaches southern New Mexico and *Ischnura damula* exists as a probable species on the same basis. *Lestes congener* males are distinct from other Texas lestids in structure of abdominal appendages. Each inferior abdominal appendage in dorsal view extends posteriorly no further than the midpoint of the serrated lobe on the superior appendage (Fig. 18 I). Each antehumeral pale area in *Ischnura damula* exists as two spots, and the superior abdominal appendage in lateral view is deeper at its base than the appendage is long. (Fig. 18 H). *Enallagma boreale* occurs at low elevations in central New Mexico, and its appearance in west Texas is possible. Descriptions of these three species are in Walker (1953).

Bick and Bick (1957) summarized the Odonata distributions in Oklahoma. *Argia alberta* and *Enallagma carunculatum* occurred respectively in Harmon and Cimarron Counties, Oklahoma, adjoining Texas in the panhandle area. *Enallagma carunculatum* occurs also in Roosevelt County, New Mexico, adjoining Texas. These two northern species may well have populations in Texas and the keys include them. *Ischnura barberi* occurred

TABLE 4. SYNONYMS FOR TEXAS DAMSELFLIES APPEARING IN POST-1900 LITERATURE

Species:	Synonym:
<i>Calopteryx dimidiata</i>	<i>Agrion dimidiatum</i> (Burmeister) 1839
<i>Calopteryx maculata</i>	<i>Agrion maculatum</i> Beauvois 1805
<i>Hetaerina titia</i>	<i>Hetaerina tricolor</i> (Burmeister) 1839 ¹
<i>Argia fumipennis violacea</i>	<i>Argia violacea</i> (Hagen) 1861
<i>Argia lugens</i>	<i>Hypponeura lugens</i> Hagen 1861
<i>Argia moesta</i>	<i>Argia putrida</i> Hagen 1861 and <i>Argia intruda</i> Williamson 1912
<i>Argia munda</i>	<i>Argia vivida munda</i> Calvert 1902 and <i>Argia rita</i> Kennedy 1919
<i>Argia nahuana</i>	<i>Argia agrioides nahuana</i> Calvert 1902
<i>Argia plana</i>	<i>Argia vivida plana</i> Calvert 1902
<i>Enallagma novae-hispaniae</i>	<i>Enallagma coecum novae-hispaniae</i> Calvert 1907
<i>Ischnura barberi</i>	<i>Ischnura utahensis</i> Muttkowski 1910
<i>Ischnura ramburii</i>	<i>Ischnura ramburii credula</i> Hagen 1861 and <i>Ischnura credula</i> Hagen 1861
<i>Teleallagma daeckii</i>	<i>Teleagrion daeckii</i> Calvert 1903 and <i>Enallagma daeckii</i> (Calvert) 1903

¹ See discussion under the genus *Hetaerina*.