A NEW VELIA FROM MISSISSIPPI
(HEMIPTERA: VELIIDAE)

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This new species of Velia was collected by the writer in 1949 from a small ditch partly filled with water at Fearn Springs in Winston County, Mississippi. Several subsequent visits to this same locality have failed to yield additional specimens of this species.

_Velia paulineae_ new species

(Plate 1)

APTEROUS MALE: General shape, elongate-slender. Head elongate, with narrow median longitudinal suture evident on anterior two-thirds of head and disappearing posteriorly; long hairs covering anterior portion of tyulus and along posterior-dorsal margins of compound eyes. Antennae long, slender and thickly clothed with intermixed long and short hairs; length of antennal segments as follows: I, 0.93 mm.; II, 0.68 mm.; III, 0.70 mm.; IV, 0.61 mm.; first antennal segment slightly curved and twice as thick as the other segments; second, third and fourth segments all of about equal thickness. Eyes globose, with large, prominent facets; width across eyes, 0.65 mm. Pronotum with large grayish-white callouses laterally on anterior portion; with median longitudinal carina extending entire length, becoming more prominent on central portion of pronotum; lateral pronotal horns prominent and pointed at tip; posterior lobe of pronotum very coarsely punctate, with about 20 punctures; posterior margin of pronotum with a fringe of scattered, fine, long hairs; width across pronotum at widest point, 0.85 mm.; length of pronotum, 1.13 mm. Abdomen narrow, elongate and with sides strongly curved upward; dorsal abdominal segments covered with short, pubescent hairs and with a few scattered longer hairs; width across abdomen dorsally at fifth segment, 0.75 mm. Genital segment elongate, pointed, covered with short and long hairs; length of genital segment, 0.52 mm. Posterior surface of femora and tibia of all legs with two rows of short, stout, black spines, and femora and tibia of hind legs with an additional row of longer, pointed spines. General color of antennae brown; head, reddish-brown; anterior lobe of pronotum, yellowish-brown to brown; posterior lobe of pronotum creamy-brown; dorsum of abdomen dark-brown to brown; genitalia, yellow; legs, with alternate brown and creamy-white bands. Length from tip of tyulus to tip of abdomen, 4.25 mm.

COMPARATIVE NOTES: This species is related to _Velia watsoni_ Drake,1 but may be readily distinguished by the following

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Plate 1 — *Velia paulineae* new species, dorsal view of male.
differences. These differences were obtained by comparing the holotype of this species with a male paratype of Velia watsoni Drake. The results of this comparison are presented in tabular form herewith:

<table>
<thead>
<tr>
<th>Species</th>
<th>Width across eyes</th>
<th>Length of antenal segments</th>
<th>Width across pronotum</th>
<th>Length of prothorax</th>
<th>Length across abdominal segment</th>
<th>Length of genital segment</th>
<th>Total length</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>V. watsoni</em></td>
<td>0.69 mm.</td>
<td>II, 0.75 mm.</td>
<td>1.06 mm.</td>
<td>1.37 mm.</td>
<td>1.12 mm.</td>
<td>0.28 mm.</td>
<td>4.80 mm.</td>
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<tr>
<td></td>
<td>I, 1.03 mm.</td>
<td></td>
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<tr>
<td><em>V. paulineae</em></td>
<td>0.65 mm.</td>
<td>II, 0.68 mm.</td>
<td>0.85 mm.</td>
<td>1.13 mm.</td>
<td>0.75 mm.</td>
<td>0.52 mm.</td>
<td>4.25 mm.</td>
</tr>
</tbody>
</table>

The pronotal horns are more pronounced in *Velia watsoni* Drake than in *Velia paulineae* new species. Also, the general shape of *Velia watsoni* Drake is more robust, whereas *Velia paulineae* new species, is slender as shown by the comparative measurements tabulated above.

**BIOLOGICAL NOTES:** The single specimen that was collected came from damp soil along the edge of a small, temporary upland ditch. The water was only about two inches deep and contained some vegetation.

**LOCALITY DATA:** Fearn Springs, Mississippi, September 11, 1949. One male was collected.

**LOCATION OF TYPES:** Holotype, male in the collection of the author. Type locality, Fearn Springs, Mississippi.