

TWO MORE TREEHOPPERS (HOMOPTERA, MEMBRACIDAE) AT BLACK LIGHT, INCLUDING A NEW SPECIES RECORD FOR OKLAHOMA

Clifford J. Dennis

Department of Biology, Wisconsin State University, Whitewater, Wisconsin

Fifty-two species of treehoppers previously have been reported at lights (1-10). For the most part the records are for black or white light, but Milne and Milne (3) also list a few instances of membracids coming to green, yellow, and purple lights. Kopp and Yonke (10) summarized all of these records.

A male *Telamona concava* Fitch was collected July 11, 1966, by Dennis Earle, in a black light trap on the grounds of the Pigeon Lake field station of Wisconsin State Universities in Bayfield County, Wis. This is a new black light record, but not a new species record for Wisconsin.

A male *Helisia gemma* Ball was collected May 26, 1962 by the author, in a black light trap near a wooded area at Ada, Pontotoc County, Oklahoma. This is not only a new black light record, but is also a new species record for Oklahoma. The latter was not included in a previous paper (11) on Oklahoma treehoppers because relationships in the tribe Telamonini had to be established before the observation of this species could be verified. Prior to this record, *H. gemma* had been known in Maine, New Hampshire, Vermont, Massachusetts, Connecticut, New York, North-eastern States, Iowa, and Ontario (12, 13).

The black lights in each of the two cases reported here were General Electric BLB fluorescent tubes, which emit most of their energy in the near ultraviolet, peaking at about 350 millimicrons.

REFERENCES

1. M. V. SLINGERLAND, Cornell Agr. Exp. Sta. Bull. 202: 209, 228 (1902).
2. W. D. FUNKHOUSER, Cornell Agr. Exp. Sta. Mem 11: 429 (1917).
3. L. J. MILNE and J. J. MILNE, Entomol. Amer. (n.s.) 24: 58-60 (1944).
4. C. J. DENNIS, Trans. Wis. Acad. Sci., Arts and Letters 41: 141, 150 (1952).
5. S. W. FROST, Entomol. News 66: 63-64 (1955).
6. S. W. FROST, Entomol. News 68: 77-78 (1957).
7. J. T. MIDLER and P. W. SMITH, J. Econ. Entomol. 53: 173-174 (1960).
8. C. J. DENNIS, Amer. Midl. Natur. 71(2): 454, 456 (1964).
9. C. J. DENNIS, Entomol. News 75(6): 167 (1964).
10. D. D. KOPP and T. R. YONKE, Trans. Missouri Acad. Sci. (In press).
11. C. J. DENNIS, Proc. Oklahoma Acad. Sci. 45: 50-64 (1965).
12. E. D. BALL, Entomol. Amer. (n.s.) 12: 26-27 (1931).
13. Z. P. METCALF and V. WADE, General Catalogue of the Homoptera, a Supplement to Fascicle I - Membracidae of the General Catalogue of the Hemiptera, Membracidae, Section II, N. Car. State Univ. Press, Raleigh, p. 1076, 1965.