

the visceral mass of each animal (10 slides per specimen) revealed that *M. falcata* consists only of hermaphrodites; true males and females were lacking in the collection. These monoecious animals contained proportionately much more ovarian tissue than testicular tissue which was irregularly scattered in patches ventro-medially to the digestive gland. Very little gametogenesis was present and few sperm morulae were found, and the great bulk of the gonads was filled with mature gametes. Van der Schalie (1966, *Malacologia*, 5: 77) stated that *M. margaritifera* and *Cumberlandia monodonta* have "occasional hermaphrodites" and that no margaritifera is "usually monoecious." *Margaritifera falcata* of western North America proves to be an unexpected exception. Among other unionideans, only the unionids *Lamigona compressa*, *L. subviridis* (Anodontinae) and *Carunculina parva* (Lampsilinae) are uniformly monoecious (van der Schalie, *Op. cit.*).

None of the 26 individuals of *M. falcata* in this October collection from Idaho were gravid. Murphy (1942, *Calif. Fish Game*, 28: 89-102) demonstrated that in California this species is a short-term breeder (i.e., tachytictic), being gravid only between mid-May and late June. Ortmann (*Op. cit.*) previously reported that the Holarctic *M. margaritifera* is gravid in the summer (p. 232), and that *M. hembelli* of the southern United States is not gravid in February (p. 236). It is peculiar that in *M. falcata* large quantities of mature gametes are present more than seven months before ova can be expected to be released to the demibranchs. — WILLIAM H. HEARD, Florida State University, Tallahassee, Florida, 32306.

ANODONTOIDES FERUSSACIANUS (Lea) in the Susquehanna River watershed in New York State. — In the summer of 1969 a biological survey at the source of the Susquehanna River (Otsego Lake, Otsego County, New York) was undertaken. This study was part of an integrated research program initiated at the Stephen C. Clark Biological Field Station at Cooperstown, a facility of the Biology Department at the State University College at Oneonta.

Six species of Unionidae have been collected in the Lake. They are, in order of abundance, *Lampsilis radiata* (Gmelin), *Anodonta cataracta* (Say), *Elliptio complanata* (Solander), *Alasmidonta undulata* (Say) and *Anodontooides ferussacianus* (Lea). Two living specimens of the latter have been found. The valves are in good

condition and the definitive beak sculpture characteristic of the species shows clearly.

Except for *A. ferussacianus* all species collected are commonly found in the Susquehanna watershed. In the most recent authoritative work on New York State mollusks Clarke and Berg (1959) gave the distribution of *A. ferussacianus* as follows "Mississippi and Ohio drainages, and St. Lawrence drainage from Lake Michigan to the Ottawa River. Lake Champlain, (H. D. Athearn, personal communication)." Those authors felt the records of *A. ferussacianus* in the Susquehanna watershed given by Marshall (1895) were probably incorrect.

In light of this new record Marshall's data should be re-evaluated. On the other hand, the specimens were found only at the mouth of one stream flowing into Otsego Lake. This inlet finds its source in a swampy area to the north which also drains to the Mohawk River.

Because the Erie Canal allows for mixing of the St. Lawrence and Mohawk River faunas it is possible that *A. ferussacianus* has recently been introduced into the Susquehanna watershed via these streams. — WILLARD N. HARMAN, New York State University College, Oneonta.

REFERENCES

- Clarke, A. H. and C. O. Berg, 1959. The freshwater mussels of central New York. Cornell Univ. Agr. Exp. Sta. Mem. 367: 1-79.
Marshall, W. B., 1895. Geographical distribution of New York Unionidae. N. Y. S. Mus. 18th Ann. Rept. 47-99.

NEWS

The 36th annual meeting of the American Malacological Union will be held from July 16 through July 20, 1970. Winter address for the secretary is: Mrs. Margaret C. Teskey, P.O. Box 239, Big Pine Key, Florida 33043. The meetings will be in Key West, Florida.

The Third Annual meeting of the *Western Society of Malacologists* is scheduled for June 24 to 27, 1970, at Stanford University. Officers of the society are: President: Myra Keen. Vice-President: Eugene V. Coan. Second Vice-President: Beatrice Burch. Secretary: Carol Skoglund. Treasurer: Barry Roth. Councilors-at-large: Twila Bratcher and Robert Talmadge.