

REPRODUCTION OF *AMBLEMA COSTATA* (RAFINESQUE) IN MOOSE RIVER, MINNESOTA—Dennis 1971:86) states that *Amblema costata* (Rafinesque) "is often found in coarse gravel in strong currents seldom in silt or mud." Many specimens of this species were found in Moose River, Minnesota near the town of Sturgeon Lake. Large adults, at least 15 years of age, were found in a strictly soft, thick, mud substrate. This rather different habitat for the species from that indicated by Dennis might be explained by host-fish dispersal patterns. Such an explanation is encouraged by the following observations which indicate that the Moose River population depends on very occasional good year-classes of shed glochidial mussel larvae from fish: On November 3, 1969, 31 juvenile *Amblema costata* were collected with a scraper net with a mesh fine enough to include one-year-old mussels. All of these specimens were 2-year-old *Amblema costata*. There were no younger or older *Amblema costata* (other than the adults). A year later a similar collection turned up only 3-year-old *Amblema costata* juveniles. Juveniles of other species in the same bottom varied in age from 1-6 or more years, thus indicating that the chance dispersal of host-specific fish rather than change in bottom conditions from year to year was responsible for the presence of just one year-class of *Amblema costata*. All of the juveniles collected were donated to the Ohio State Museum, Columbus, Ohio for investigators who wish to examine this problem in further detail.—Marc J. Imlay, National Water Quality Lab., Environmental Protection Agency, Duluth, Minn. 55804.

LITERATURE CITED

- Dennis, Sally D. 1971. Pennsylvania Mussel Studies. Final report. Center for Aquatic Biology, Dept. of Biol., Eastern Michigan University, Ypsilanti, Michigan. 138 p.