ART. IV. MOLLUSCS FROM THE HARMONSBURG (Pa.) MARL.

Stanley T. Brooks.

This past summer Mr. William Millward, teacher of science at the Fifth Avenue High School of Pittsburgh, very kindly made a collection of marl from the exposed beds at Harmonsburg, Summit Township, Crawford County, Pennsylvania. This locality is one and one-half miles northwest of the northern end of Conneaut Lake, altitude 1110 feet, in the Allegheny River Drainage. By referring to the maps of that region (Linesville Quadrangle, U. S. Geol. Surv.) it is obvious that this area constituted a northern extension of the Old Lake Conneaut, probably the post-Pleistocene lake from which the new southern (Allegheny-French Creek) drainage began.

We hope that with this small collection as a beginning we may complete a survey of all deposits of such nature within the state. In that this series has, according to Dr. F. C. Baker, pushed the records of the Pleistocene fauna of the central area farther east I feel that this list is of sufficient value to bring it to the attention of other Conchologists. I wish, therefore, to acknowledge Dr. F. C. Baker’s study of this collection for without his prodigious authority the following list would have had a different connotation.

Family AMNICOLIDÆ.

*Amnicola walkeri* Pilsbry. .................... sparse
*Amnicola gelida* Baker, F. C. .................... common
*Amnicola leightoni* Baker, F. C. .................... common

Family VALVATIDÆ.

*Valvata sincera danielsi* B. Walker ............ common
*Valvata tricarinata perconfusa* B. Walker ....... common

Family PLANORBIDÆ.

*Gyraulus deflectus* (Say) ..................... fairly common
*Gyraulus deflectus obliquus* (DeKay) .......... fairly common
*Gyraulus altissimus* (Baker, F. C.) ............ common
*Helisoma anceps striatum* (Baker, F. C.) ....... common
*Helisoma campanulatum* (Say) .................... sparse

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Family PHYSIDÆ.

Physa sayii Tappan (form of) .................................................... common

Family LYMNEIDÆ.

Lymnaea stagnalis jugularis Say .............................................. fragment only
Fossaria obrussa decampi (Streng) ............................................. common