

ranges southwest to the Gulf of Mexico, and the smaller, *Lepus palustris*, Bachman, which ranges to the south and southeast. Careful investigation of the rabbits of southern Indiana is requested.

27. *Corynorhinus macrotis* (LeConte). Big-eared bat.

December 26, 1894, Dr. L. M. Underwood brought to me at the Denison House, Indianapolis, a specimen of this species taken from a cave five miles southwest of Greencastle, Ind., a few days before by Prof. J. P. Naylor. There was another with it, which was not taken. Returning to the cave another time no more could be found. The specimen is now in my collection.

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SOME CASES OF MIMICRY IN FISHES. BY W. J. MOENKHAUS.

There are four different species of fish that show a most interesting similarity in their color pattern. They are *Etheostoma blennioides*, *Etheostoma oranidea*, *Cottus richardsoni* and *Catostomus nigricans*. They belong to three different families, the first two, darters, to the *Percidae*; the third, the miller's thumb, to the *Cottidae*, and the last, the black sucker, to the *Catostomidae*.

The color-pattern consists of four broad transverse bars extending downward and forward. The similarity of this pattern in the darters and the miller's thumb is almost perfect. The black sucker has this pattern only when young. The resemblance here is less perfect.

This remarkable coincidence of color-pattern can be explained on the principle of protective mimicry. The miller's thumb is a very horny, spiny and uninviting fish for food to any enemy that may live on small fish. It may, therefore, have found it advantageous to develop these four prominent bars as a mark to enable its enemy to recognize it and thus make fewer mistakes in capturing undesirable food. The darter and the young sucker on the other hand would be most excellent food for these same enemies. Thus they have found it to their advantage to mimic this miller's thumb and live off its reputation as an undesirable food fish.

This seems all the more probable from the fact that these fish inhabit the same streams.