

sink deeper into the water, and that the foot of the ladder may contain more water;

(2.) To increase the height of the opening w , which is only 16 centimeters, to 25 centimeters, because otherwise a large salmon cannot slip through below; and

(3.) To place the diverging walls on the weir $v v$ somewhat wider apart at the upper end, or, in other words, to make the opening $w w$ somewhat longer, so as to get more water into the ladder and make it easier for the fish to ascend.

NOTE ON PINTSCH'S MOVABLE SALMON LADDER, BY R. B. MARSTON.

In a recent account of salmon fishing in Scotland, I referred to the dams on the river Don in Aberdeenshire as preventing the ascent of salmon, except in high waters. Being of opinion that there is often not much good done by merely describing a disease unless you can also suggest a remedy, I said if any of my Aberdeenshire readers desired it I would give some account of the McDonald fish-way. Several gentlemen asked me to do so. Now the only objection that I could think of as likely to be raised against the McDonald pass was its expense, which would probably be very high. But in the German Fischerei-Zeitung of April 22, I find an account of a movable ladder invented by Anton Pintsch, forest-officer of Kureczyn, in Hungary. This ladder is fully described in the German Gazette by Dr. M. Nowicki, of Cracow, and it seems to me to be in every way well worthy of trial in this country.

It seems to me that we are much indebted to Mr. Pintsch for inventing, and Dr. Nowicki for describing, such a very practical and extremely cheap salmon ladder. It can hardly fail to succeed if used on such rivers as the Don in Aberdeenshire, at the horrible weir at Armathwaite on the Eden, at Totnes weir on the Dart, and other similar places where, except in heavy waters, salmon cannot pass up-stream.

FISHING GAZETTE, *May 24, 1884.*

112.—TRANSFERRING CATFISH FROM THE POTOMAC TO THE COLORADO RIVER, ARIZONA.

By MARSHALL McDONALD.

One hundred catfish were sent to Arizona with the recent shipment of 1,000,000 shad for the Colorado River. Of these 10 reached destination and were delivered to Commissioner Gosper, at Prescott, Arizona, who will deposit them in the Colorado River.

UNITED STATES FISH COMMISSION,

Division of Distribution, June 28, 1884.