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(Lavina Torp)

THE POWER TO DETECT TRENDS IN MISSOURI RIVER FISH POPULATIONS WITHIN THE PALLID STURGEON POPULATION ASSESSMENT PROGRAM: OPEN-FILE REPORT 2010-1020

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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 158 pages. Dimensions: 9.7in. x 7.4in. x 0.3in. As with all large rivers in the United States, the Missouri River has been altered, with approximately 32.5 percent of the main stem length impounded and 32.5 percent channelized. These physical alterations to the environment have had effects on the fisheries, but studies examining the effects of alterations have been localized and for short periods of time. In response to the U. S. Fish and Wildlife Service biological opinion, the U. S. Army Corps of Engineers initiated monitoring of the fish community of the Missouri River in 2003. The goal of the Pallid Sturgeon Population Assessment Program is to provide information to detect changes in populations and habitat preferences with time for pallid sturgeon (*Scaphirhynchus albus*) and native target species in the Missouri River Basin. To determine statistical power of the Pallid Sturgeon Population Assessment Program, a power analysis was conducted using a normal linear mixed model with variance component estimates based on the first 3 years of data (2003 to 2005). In cases where 3 years of data were unavailable, estimates were obtained using those data. It was determined that at least 20 years of data, sampling 12 bends with 8 subsamples per bend, would be required to detect a 5 percent annual decline in most of the target fish populations. Power varied between Zones. Zone 1 (upstream from Lake Sakakawea) did not have any speciesgear type combinations with adequate power, whereas Zone 3 (downstream from Gavins Point Dam) had 19 speciesgear type combinations with adequate power. With a slight increase in the sampling effort to 12 subsamples per bend, the Pallid Sturgeon Population Assessment Program has adequate power to detect declines in shovelnose sturgeon (*S. platyrhynchus*) throughout...

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