

## ABSTRACT

Radiotelemetry methods are currently being used to document spawning locations, describe the timing of upstream and downstream spawning migrations, and estimate the spawning frequency of sheefish in the Kobuk River. In 2008, 150 mature sheefish were captured and radiotagged from 17 July to 30 August. Five aerial tracking surveys were conducted from 3 September to 27 September to locate sheefish in their spawning area. Radio-tagged sheefish were located in the mainstem Kobuk River between the Mauneluk River and Beaver Creek. A pair of stationary tracking stations located just upstream of Kobuk Village and one in the village were used to record downstream migration after spawning. The mean date of downstream passage in 2008 was 22 September. Aerial surveys, boat surveys, and stationary tracking stations will be used to track sheefish radiotagged in 2008, and an additional 150 sheefish to be radiotagged in 2009, through the fall of 2011. This will provide the required information to estimate the timing of the spawning migrations and spawning frequency of sheefish in the Kobuk River.

*Savereide, James W. 2009. Spawning Location, Run Timing, and Spawning Frequency of Kobuk River Sheefish. U.S. Fish and Wildlife Service, Office of Subsistence Management, Fisheries Resource Monitoring Program, 2009 Annual Report (Study No. 08-103). Alaska Department of Fish and Game, Division of Sport Fish, Fairbanks, Alaska.*