

ABSTRACT: Pacific lampreys have declined throughout their range, including the Columbia River basin, and the status of western brook lampreys is unknown. Additionally, little is known about native lamprey habitat use, population structure or the effects of various threats. Condit Dam, a complete barrier to anadromous fish, is scheduled to be removed in the fall of 2009. Pre- and post-removal surveys are needed to assess fish status and habitat conditions in the White Salmon River basin. Lamprey surveys were conducted in the summer of 2007. A random, spatially balanced sampling approach was used to conduct presence/absence and habitat surveys for lampreys. Larval western brook lampreys were found in Trout Lake Creek, Rattlesnake Creek and in the mainstem White Salmon River downstream of Condit Dam. Unidentified larval lampreys were found in the mainstem White Salmon River downstream of Condit Dam. The habitat upstream and downstream of Condit Dam was suitable for the spawning and rearing of lamprey species. Lamprey surveys will continue until Condit Dam is removed and will resume after removal is complete to assess changes in lamprey status and habitat.

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