

**Developments in in-stream monitoring of PIT-tagged wild juvenile salmonids
in Valley Creek, Idaho, 2002 and 2003**

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Abstract: In July 2002, NOAA Fisheries with cooperation of the PSMFC, installed two in-stream PIT tag monitoring systems in lower Valley Creek near Stanley, Idaho. The monitoring sites were set up to automatically transmit detection data daily to PTAGIS. Subsequently, wild juvenile chinook salmon and steelhead parr were collected, PIT-tagged, and released in natal rearing areas above these in-stream monitors in early August 2002 and 2003. We present preliminary information on fish movement, timing, and travel time in Valley Creek and discuss survival estimation for fish from summer-parr to emigration out of this stream. Significant improvements to the monitoring systems in 2002 and 2003 along with future needs and improvements are discussed.