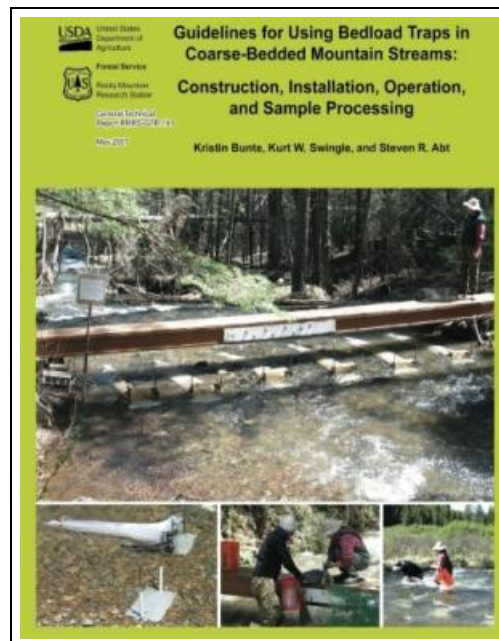


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GUIDELINES FOR USING BEDLOAD TRAPS IN COARSE-BEDDED MOUNTAIN STREAMS: CONSTRUCTION, INSTALLATION, OPERATION, AND SAMPLE PROCESSING



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Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 96 pages. Dimensions: 11.0in. x 8.5in. x 0.2in. This document is the product of seven years of field experience with bedload traps during highflow events. Over this period the design of bedload traps has evolved, and the techniques of operation and sample processing were continuously modified and refined. We recognize that the techniques described in these guidelines are adapted to the conditions in Rocky Mountain streams during snowmelt highflows. Streams in other climatic and hydrologic regimes undoubtedly will pose different problems requiring creative solutions from the bedload investigator. Nevertheless, in the hope that others will not have to repeat our mistakes, we strongly suggest first trying the procedures as described in these guidelines and only then, as necessary, alter them as seems fit. At times, the guidelines use non-standard units of sample volume such as a cupful of sediment, a household pail, or 5-gal bucket filled with debris. This was done to provide the reader with a quick, visual image of a sample volume, not an exact measurement. Gravel and cobble transport is a stochastic process in which discrete particles ranging in size from 2 to 256 mm hop, roll, slide, and bounce over an uneven streambed surface. At any given flow, particles will move fitfully and infrequently, particularly the largest ones. Although sampling these particles to determine transport capacity and flow competence is often a primary study goal, doing it without bias is a challenge. Due to the irregular particle movement, transport rates fluctuate over time. Consecutive short-term (for example, one-minute) samples collected at near constant flow typically comprise transport rates that range from almost zero (for example, less than 10 percent of the long-term average rate) to four or more times the mean transport rate. Gravel and...

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