

Response (in italics) to: RC C1133

Interactive comment on “Use of laser-scan technology to analyse topography and flow in a weir pool” by P. E. Dresel et al.

Anonymous Referee #1

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This paper presents a method for using laser-scan data to quantify water volumes in weir ponds that have not yet risen high enough for discharge to occur. This method could be an important contribution for water resources studies in areas with drought and ephemeral streams because it extends our ability to quantify low-flows and early storm flows.

Overall, I rate this manuscript as good (scientific quality, presentation) to excellent (significance). The manuscript could be improved if it were refocused into a technical note rather than a research article.

Thank you for your helpful comment. We agree that the focus of this article is primarily as a technical note on the methodology we have developed. HESS does not have a specific category for technical notes or other short communications. As such we have attempted to balance concise discussion of the methodology with sufficient background on our research to present it as a context within which the method is of value.

The Introduction and Study Location sections have been revised to focus more succinctly on the methodology and to present the work within the context of low-flow studies.