

Summary Information from Hattie, Marsh, Neill and Richards's (1997) Meta-Analysis

Hattie, J., Marsh, H. W., Neill, J. T., & Richards, G. E. (1997). Adventure education and Outward Bound: Out-of-class experiences that make a lasting difference. *Review of Educational Research*, 67(1), 43-87. doi: 10.3102/00346543067001043

Abstract

The purpose of this meta-analysis is to examine the effects of adventure programs on a diverse array of outcomes such as self-concept, locus of control, and leadership. The meta-analysis was based on 1,728 effect sizes drawn from 151 unique samples from 96 studies, and the average effect size at the end of the programs was .34. In a remarkable contrast to most educational research, these short-term or immediate gains were followed by substantial additional gains between the end of the program and follow-up assessments (ES = .17). The effect sizes varied substantially according to the particular program and outcome and improved as the length of the program and the ages of participants increased. Too little is known, however, about why adventure programs work most effectively.

Author/ Year	Focus	Client Group	No. of Studies	No. of effects	No. of Participants	ES Baseline (Base-pre)	ES Program (Pre-Post)	ES Follow-Up (Post-FU)
Hattie et al. (1997)	Outdoor Education	All	96	1728	12,057	-.05*	.34**	.17***

* Based on 316 effect sizes.

** Based on 1,062 effect sizes.

***Based on 347 effect sizes.

Studies Included in Meta-Analysis (N=96)

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Note: Only 79 references in the journal manuscript were marked with asterisks, thus an additional 17 studies are not identified.