

**ZMATH 2002b.01520**

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**The learning and teaching of statistical investigation in teaching and teacher education.**

J. Math. Teach. Educ. 5, No. 1, 35-59 (2002).

Current national standards in mathematics education in the United States call for revision of content and pedagogy, including the addition of statistics as a new topic in the elementary curriculum. The purpose of this study is to examine the collaborative efforts of a mathematics educator and statistician to help prospective elementary teachers develop statistical knowledge and experience through merging statistical investigation into existing elementary curricula. Findings from this study offer insight into preservice teachers' statistical and pedagogical content knowledge based on their application of the process of statistical investigation themselves and with children. Findings also indicate that integrating statistics into the elementary curriculum is a more difficult and complex teaching and learning problem than expected.

*Classification:* K42

*Keywords:* inquiry; statistical investigations

doi:10.1023/A:1013886730487