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Tackling Wicked Problems when Teaching Applied Economics: An Application to the Bears Ears National Monument

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applied economics. We focus on a single but highly relevant and timely wickedand solve wicked policy problems in students on how to deal with, account for recognized in the field of applied ations or scenarios that are difficult to ents, we propose the following ıate the policy

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INTRODUCTION

- applied economics. Wicked problems emerge almost daily in the field of
- but also inherently complex and tough to solve. These types of problems are not only difficult to define
- Examples include global climate change, poverty, rising
- multiple stakeholders in a broad, extensive context Wicked problems involve policy decisions that affect sea levels, sustainable development, and GMO foods
- different values and beliefs. collective action from opposing parties who often hold Thus, finding solutions to such problems often requires
- how the problem is framed and presented. Typically the solution to a wicked problem depends on
- wicked policy problems. training on how to deal with, account for, and solve future practitioners of applied economics receive formal To be effective problem-solvers, it is imperative that
- in research institutions (Batie 2008). economics programs nor do they appear to be rewarded types of problems are currently neither taught in applied However, the skills necessary to properly examine these

OBJECTIVE

problems. The objective of this project is examine whether or not the to assess and develop solutions to wicked type policy teach and train applied economics graduate students how case study method is an effective tool that can be used to

THE WICKED PROBLEM

- On December 4th, 2017 the Monument was reduced in size The Bears Ears National Monument is located in San Juan by President Barack Obama. County, Utah and was established on December 28th, 2016
- the monument was originally named. cover the historic Bears Ears rock formations for which by 85% to include 201,876 acres, just enough land to



Figure 1. Bears Ears National Monument But Credit: John C. Bergstrom, May 16, 2018

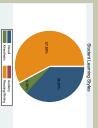
TARGET AUDIENCE

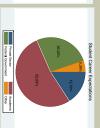
management issues. This exercise is ideal for any graduate-level applied particular interest to those studying natural resource evaluation and economic decision making. It should be of economics course focused on proper methods for policy

LEARNING OUTCOMES

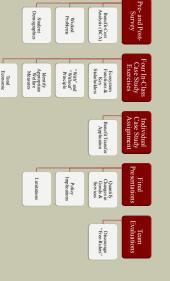
- 1) Understand the complexity presented by wicked problems Upon completion of this exercise, students should be able to:
- 2) Understand how the application of economic principles problems. improves decision making with respect to wicked policy
- 3) Understand the limitations of traditional economic policy evaluation criteria to solve wicked problems.
- Have a better grasp on the importance of undertaking qualitative techniques and skills. applications that involve the integration of quantitative and

STUDENT CHARACTERISTICS





METHODS



POLICY SCENARIOS

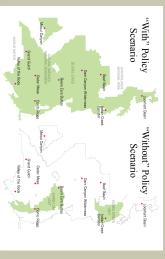
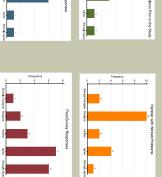


Figure 2. Comparing States of the World: New York Times (2017)

RESULTS & DISCUSSION



CONCLUSIONS

- We find at the start of the study, approximately 73% of problems, but felt training on how to deal with, account students had not yet received formal training on wicked for, and solve them was imperative.
- Additionally, 63% indicated they were unfamiliar with wicked policy problems in general.
- master's students vs. doctoral students. No statistically significant difference in the responses of
- policy problems. time spent studying) do drive perceptions of wicked Student characteristics (e.g., age, years of schooling
- Final project grades ranged from 83% 100%

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