Introduction

Title: An Exploratory Study for Understanding Perceptions and Knowledge of University Students in Arkansas Regarding the 2024 Solar Eclipse.

This research investigates university student perceptions toward a mega-event to assist with emergency planning in addition to advancing knowledge within this area.

Objective

The purpose of the study is to understand the knowledge level and perceptions of college students in Arkansas regarding the 2024 total solar eclipse.

RQ: Do college students understand the implications of being in the path of totality of a solar eclipse?

Methodology

The research method was quantitative utilizing an exploratory research design and survey instrumentation to collect data and answer the research question.

Students within the researchers’ university were sent an email invitation to participate in the online survey. 50 students responded.

Results / Findings

Participants were almost exclusively living in Arkansas (48/49) with 65% of respondents identifying as female and the largest representation being the 18-24 year old category (65%). Freshmen represented 40% of respondents with Sophomores 10%, Juniors 14%, Seniors 18%, and Graduate Students/Faculty/Staff 18%. 49% noted minimal or not at all informed, while 43% were somewhat informed; only 8% felt very informed. There was no significant effect of class standing on how well informed the participant felt, F(1, 96) = .98, p = .325, ω = .000.

83% of participants have seen a solar eclipse. With only 65% knowing if they are in the path of totality for the 2024 eclipse.

The majority of participants noted they received information primarily from college professors.

Implications

A total solar eclipse is the single largest event to occur within a region, attracting unprecedented crowds and media on a scale never previously experienced. Perceptions on the implications are key to mega-event emergency planning.

- Many do not understand the implications of a mega-event on local responders, infrastructure, and supplies.
- Although many participants saw the 2017 eclipse, few people have experienced a total solar eclipse.

References


Contact

Dr. Bethany Swindell
bswindell@atu.edu | 479-498-6016
402 West O Street, Dean Hall 201
Russellville, AR 72801

Dr. Jamie Stacy
jstacy4@atu.edu | 479-880-4046
402 West O Street, Dean Hall 201
Russellville, AR 72801