# UNIVERSITY OF OKLAHOMA GRADUATE COLLEGE 

USING THE TRAVEL COST METHOD TO VALUE ENVIRONMENTAL EDUCATION IN THE STATE OF OKLAHOMA

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# USING THE TRAVEL COST METHOD TO VALUE ENVIRONMENTAL EDUCATION IN THE STATE OF OKLAHOMA 

## A THESIS APPROVED FOR THE COLLEGE OF ARTS AND SCIENCES

## BY THE COMMITTEE CONSISTING OF

Dr. Jason Vogel, Chair Jeri Fleming, J.D. Dr. Jadwiga Ziolkowska
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For all my ancestors who came before me, you made me who I am and I am forever grateful.
For all my children who will come after me, I hope I leave the world better than I found it.
To my son Ewin, the light you brought to my life has helped me shine, and every day your presence encourages me to be my best for you. I love you, baby boy.

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#### Abstract

As a society, an integral part of improving environmental stewardship is accomplished through environmental education and training. Although public and private entities supported by grants and public funding provide a range of benefits, determining the economic value of the environmental education delivered is essential in quantifying the scope of its benefit. Data on this subject are limited; this study aims to address this gap. As a non-market good, evaluating education requires a non-traditional economic approach. One of the approaches offering a methodological value to evaluate environmental education is the Travel Cost Method (TCM), which belongs to the groups of non-market valuation approaches in the field of environmental economics. Traditionally, TCM has been used to assess the economic value of recreational sites. For the purpose of this study the TCM is applied to indirectly value environmental education by using the costs associated with travel as a proxy for what consumers pay to travel to educational events/trainings and what they would be willing-to-pay (WTP) in addition for the same educational experience if higher travel costs were to be incurred. Data collected via the distribution of surveys at environmental education and training events within the state of Oklahoma were incorporated into an econometric model and used to observe demographic predictors associated with a willingness to travel farther to access environmental education. To quantify the value of environmental education, the difference between the actual costs and WTP was assessed. This expressed valuation of environmental education is intended to assist in informed decision-making on allocation of monetary resources for agencies supported by grants and public funding.


## Preface

The following is a thesis for the purposes of a Master in Science in Environmental Studies and concerns the use of the travel cost method, an environmental economic approach, to assess the value of environmental education in the state of Oklahoma. Environmental Studies is an area of broad subject matter that concerns the intersectionality of the natural environment, environmental sciences, social sciences and the humanities. This thesis research was designed to address this broad and diverse area of study by addressing the social aspect of environmental stewardship, namely, environmental education, and its quantified value through social and scientific methods.

The format of this thesis is structured as follows: the first chapter addresses the background of the research in addition to the literature review regarding environmental education and the conventional use of the travel cost method to value ecosystem services; the second chapter is formatted as a stand-alone journal article for the purposes of publication in the Journal of Contemporary Water Research and Education. The third chapter addresses the larger scope of this research, which includes how this research contributes to body of knowledge surrounding environmental studies, the interdisciplinary proficiencies needed to address mounting environmental issues, lessons learned in research, as well as potential directions for future research.

# Chapter 1: Research Background and Introduction 

### 1.1 Background

Environmental education and literacy have substantial potential to provide tangible results benefitting the state of the natural environment. However, scholars have observed that environmental education lacks priority in policy, resulting in underfunding of environmental education programs in the United States (Ernst, 2007; Ham and Sewing, 1988; Huston, 2016; Stohr, 2012). Although there are estimates of the economic benefit derived from environmental stewardship, implying a value of environmental education and literacy, research quantifying the economic demand for environmental education is largely absent in the literature (Roman et al., 2018). This research seeks to address this gap by quantifying the value of environmental education from a "consumer", i.e., or participant perspective using the cost of travel as a proxy for what participants pay and would potentially be willing to pay in addition to access environmental education. This research is intended to serve as a means to inform decisionmakers at the organizational, local, and state level on the economic impact environmental education has on the state of Oklahoma.

Education in and of itself has long been considered valuable both economically and societally, and much of societal progress and economic development can be attributed to increased access to education (Hall and Matthews, 2008). As economic development and progress in society is perceived as constructive, this advancement has also created issues between human civilization and the state of the natural environment. With the increasing global population and exploitation of natural resources, pressures on the natural environmental have increased. Increased production from the agricultural sector, land use changes, increased
consumption as economies transition in developing countries, and the impacts of urbanization have resulted in environmental degradation. These are just some examples of the pressures placed on the environment by social and economic progress, with the impacts becoming increasingly apparent in the recent decades.

The challenges of access to clean water intensify, changes in atmospheric chemistry alter global climate, and urbanized areas experience enhanced flooding through increasing environmental pressures. The cycle of population growth has yielded added consumption, and thus, added waste. How can human interaction with the natural world be modified to both continue to benefit society, and protect the natural environment from which valuable resources are derived? In addition to empowering society to address the complexity of social and environmental problems, educational attainment has been found to serve as a primary factor encouraging a population to "do the right thing" (Hall and Matthews, 2008). Furthermore, education focused on environmental stewardship has the potential to alter attitudes and behavior of the public, further benefitting the state of the environment. Environmental education may take many forms and includes, but is not limited to encouraging sustainable agricultural practices such as runoff management, teaching individuals how to minimize waste and energy use in their homes or encouraging developers to adopt low impact development practices.

What is the value of this education? It may be argued that environmental education is intrinsically valuable from an ethical standpoint, or that its ability to increase cognitive levels and improve individual behavior are of value (Bogner, 1998). From a policy perspective, because environmental education is viewed as economically consumptive in nature, a more tangible economic value of environmental education is necessary to continue progress in sustainable development. Considering the perception that suggests that environmental preservation and
economic growth are at odds with each other, it is essential to integrate the concept of sustainable development as defined by the United Nations World Commission on Environment and Development (1987): "Sustainable development seeks to meet the needs and aspirations of the present without compromising the ability to meet those of the future." This concept specifically cites economic growth as one of many goals in sustainable development.

Scaling down the concept of sustainable development and its relationship to regional or state economies, the intersection between the state of the natural world and the economy should be reflected upon. The state of Oklahoma relies on its natural resources in both industry and tourism and preservation of the natural world is paramount to the state's economy. An approach to preserving and sustaining Oklahoma's natural environment is environmental education focused on environmental stewardship and best management practices for both the public and professionals in a variety of fields. Public and private entities exist that provide a wide range of benefits to the public through environmental education and training. The value of this education is generally viewed in the context of the benefit it produces through environmental awareness, management and its contribution to an improved state of the environment. For example, there is a tangible value indicating the savings a household generates from water conservation, the economic value of better harvests provided by marine conservation, or the value improved water quality adds to waterfront properties (Poor et al., 2007; Roman et al., 2018). Furthermore, the value of environmental education may be measured in the amount of grant money allocated in support of programs that provide environmental education. Providing the monetary value of environmental education via the valuation of an improved state of the environment, or by reporting the total grant funds allocated for environmental education is an approach to valuing environmental education, but determining the economic value of environmental education from a
consumer or participant perspective is essential in quantifying the scope of its benefit. There is limited scholarly literature or data on a consumer-based economic valuation of environmental education available and this study aims to address this gap through the application of a nonmarket valuation method known as the Travel Cost Method (TCM). Given the lack of a quantified value of environmental education to the state of Oklahoma, this approach will facilitate analysis on the economic demand for environmental education in the state of Oklahoma.

### 1.2 Goals and Objectives

The purpose of this study is to estimate the economic value of environmental education from a training/workshop participant perspective within the state of Oklahoma through a nonmarket valuation method known as the travel cost method (TCM). In this study, the term "value" has a specific definition concerning the monetary value that participants spend and are willing to spend to access environmental education (offered in the form of educational trainings/workshops), and this research specifically uses their travel costs as a proxy for this estimate. This research does not encompass the monetary benefit of environmental education through changed behavior and environmental stewardship nor does it imply the worthiness, usefulness, or ethical value of environmental education. Quantifying the far-reaching monetary value of environmental education would require research methods outside of the scope of this study.

The Environmental Protection Agency's (EPA) definition of environmental education encompasses a broad definition: "Environmental education is a process that allows individuals to explore environmental issues, engage in problem solving, and take action to improve the
environment. As a result, individuals develop a deeper understanding of environmental issues and have the skills to make informed and responsible decisions" (epa.gov). There are many government and non-governmental organizations within the state of Oklahoma that provide environmental education that conforms to this definition, and this research seeks to quantify the value of individual education and training events in addition to environmental education in the state of Oklahoma at large.

For the purposes of this research, "environmental education" will encompass the same principles but be more narrowly defined as environmental education aimed at adults in a formal or non-formal classroom setting, at an event in which participants travel to for the primary purpose of obtaining environmental education. The objective was to target events within the state of Oklahoma that provide environmental education and training within the scope of the definition for this research and distribute surveys to the organizers and participants at these events for the purpose of indirectly valuing environmental education through the analysis of data collected. Data analysis will largely be through the adaptation of a nonmarket valuation method, known as TCM, a method largely used to evaluate the economic value of recreational sites. The primary goal is to contribute to the limited amount of literature available on valuing environmental education, none of which addresses environmental education in the state of Oklahoma. The secondary goal of this research is to provide tangible economic valuation data for the use of informed decision-making regarding environmental education. Ultimately, quantifying the value of environmental education in the state of Oklahoma will enable policymakers to make informed decisions on the provision of public funds for agencies facilitating these environmental education events.

### 1.3 Non-Market Valuation

Traditional economics as a social science can assess valuation of goods through analysis of market data on the consumption of these goods and services, yet valuation of the environment engages differing approaches within the discipline of environmental economics. Environmental economics is a subdiscipline of economics that employs an interdisciplinary approach along with the principles of macro- and microeconomics to study the relationship between the environment and economic development in addition to the allocation of natural resources such as ecosystem services in the context of human choice (Environmental Economics, 2019). An approach to valuing the environment is called non-market valuation, which employs techniques that consider choices made regarding non-market goods such as ecosystem services and assigns value implicitly (Segerson, 2017). Valuing non-market goods and services may employ one of two approaches, stated and revealed preference methods. Due to the non-market nature of the environmental services such as outdoor recreation and environmental education, there has been difficulty in quantifying the value of environmental goods and services, which has historically contributed to the neglect of the environment in policy decision making (Sousa, 2018). In addition to supporting natural resource management, non-market valuation is useful in assisting governments and policymakers on all levels in making informed decisions regarding the environment and provision of resources, and the use of specialized methods in environmental economics mitigates the difficulty in assessing the value of the environment.

### 1.4 Travel Cost Method

The Travel Cost Method (TCM) is a standard non-market valuation approach and is considered a revealed preference method based on demand theory. Revealed preference methods
for economic valuation of the environment rely on compiling data on individuals' behavior to infer the value of goods or services through statistical analyses and provides estimations of the value placed by individuals on the presence or absence of environmental goods or services (Boyle, 2003). This contrasts with stated preference methods such as contingent valuation or choice modelling, which ask participants to explicitly state their willingness to pay. For the purposes of this research, the approach will primarily encompass revealed preference methods while employing elements of stated preference methods in the form of specially devised survey questions that will prompt responses that imply the consumers' or participants' willingness to pay for environmental education.

TCM is also known as the Clawson Method and was proposed by Hotelling in 1949 and written about extensively in Economics of Outdoor Recreation (Clawson and Knetsch, 1966). The TCM approach initially focused on data obtained from geographic zones and the visitation rates, or observed visits divided by the zonal population, the basis for the zonal travel cost method (ZTCM) (Parsons, 2003). By the 1970's TCM evolved to employ more detailed data from the observed individuals, increasing the amount of specific behavioral elements that could be included in the analysis, serving as the foundation for the individual travel cost method (ITCM) (Parsons, 2003). The valuation of recreational sites using TCM was primarily used for decision-making surrounding preservation versus development projects. In addition to valuing preservation versus development, TCM was eventually applied to research valuing improved quality of recreational sites (Parsons, 2003). Researchers applied the principles of these approaches to recreation outside of national parks, including hunting fishing, swimming, and other areas of recreation such as lakes and beaches (Parsons, 2003). Additionally, application of TCM has been expanded to include not only natural areas, but valuation of environmental
damage, cultural heritage and geological assets (Torres-Ortega et al., 2018). These multiple applications of TCM has allowed this environmental valuation approach to be applied to research outside of the traditional applications, such as environmental education.

The TCM approach implicitly reveals the value of environmental goods and services such as recreational sites or concentrated environmental amenities by quantifying the consumers' willingness to pay (WTP) for the good or service (Graves, 2013). It is assumed that the costs incurred by visitor to access a site are inversely related to the demand for the recreational site (Torres-Ortega, 2018). TCM is applied by using data on the number of trips to recreational sites to estimate a demand function and utilizing this demand function to derive the individuals' WTP (Riera et al., 2012). Because distance is a proxy for travel cost, the generation of the demand function is dependent on the distance the consumer is from the recreational site, and the distance they are willing to travel to "consume" recreation. To obtain the relevant data on out of pocket expenses related to travel to and from a particular site of outdoor recreation, surveys can be distributed to participants with a variety of specially-devised questions that act as individual variables that fit into the ITCM econometric model. The applications of this method include determining what consumers are willing to pay for recreational sites such as national parks and can also help park managers regulate visitations in order to preserve the natural state of the location by raising the entrance fee based on data obtained from the demand curve.

Based on Parsons (2017) the most common equation for "price" of travel per individual is estimated as follows (Equation 1.1):

$$
p_{n}=\left\{\left(0.33 \times\left(\frac{y_{n}}{2,040}\right) \times t_{n}\right)+\left(c_{n} \times d_{n}\right)\right\}+\text { fee }_{n}+\text { tolls }_{n}+\text { other }_{n}
$$

## Equation 1.1

Where $y_{n}$ : individual yearly income, $t_{n}$ : round trip travel time, $c_{n}$ : vehicle operation costs per unit mile, $d_{n}$ : round trip travel distance, fee ${ }_{n}$ : access or registration fee, tolls $n$ : tolls paid on the journey to the site, other $n$ : other reported expenditures (often set to zero). Annual income is divided by 2040, or estimated hours worked within a year (Parsons, 2017).

These values are used to quantify the cost of travel and are incorporated into the demand curve to derive the consumers' willingness to pay.

There are two primary approaches to TCM, one of which is the individual travel cost method (ITCM) and zonal travel cost method (ZTCM). The ITCM employs extensive individual survey data and evaluates the related costs to access the recreational site. This produces a more specific analysis of individual behavior. The ZTCM approach primarily relies on the number of trips taken to the recreational site and related access costs while considering the population of geographic zones surrounding the site. This approach provides a more generalized analysis of the rates of visitation for a site and is well-suited when limited visitation data is available. Each approach is associated with its own strengths and limitations, and for the purposes of this research, the focus will be on the ITCM approach. The primary reason for use of the ITCM is the nature of the research question which aims to quantify the value of environmental education in the state of Oklahoma based on individuals' travel costs and their WTP. This method for gathering data for this research will involve working with a variety of entities facilitating environmental education in the state of Oklahoma, allowing extensive information to be gathered
via surveys on each individual travelling to each educational event. If this research only accessed limited visitation data or were comparing the values of environmental education in different regions within the state, the ZTCM would be considered as a primary approach to the research question.

This research is not focused on the value of recreational sites and in the case of TCM, a non-traditional approach will be employed to value environmental education in the state of Oklahoma. The environment as a good does not function as a commodity, but instead as a service, and for the purpose of this research, environmental education will be considered a "cultural" ecosystem service (Sander and Haight, 2012). A modified approach to TCM will be utilized to indirectly value environmental education through the participants' WTP as determined through analysis of data collected via distribution of surveys to organizers and participants at environmental education and training events throughout the state of Oklahoma. Survey design addressed measuring trip cost as well as gathering demographic data. Because a primary goal of this research was to develop an understanding the predictors that indicate an individual's WTP for environmental education, the surveys will also be designed to account for the variables necessary for the use of the econometric model.

### 1.5 Literature Review

The following will review the existing literature surrounding environmental education and literacy as it pertains to the state of Oklahoma in addition to the literature surrounding the use of TCM to various applications. This will provide justification for examining Oklahoma and the significance of environmental education to the state in addition to justification for the
research methods used to approach quantifying the value of environmental education to the state of Oklahoma.

### 1.5.1 Environmental Education and Literacy

Environmental education is paramount to improving the state of the environment through changed behavior and environmental stewardship on a societal level. Although environmental education fosters environmental stewardship, which is shown to have tangible benefits and positive outcomes for both the environment and society, environmental education and literacy are also valued through public perception (Roman et al., 2018). Understanding how these public perceptions differ demographically and regionally may reveal the motivations for why individuals seek out and participate in environmental education.

Environmental education is a broadly used term that describes education that aims to introduce the public to "environmental issues, engage in problem solving, and take action to improve the environment." The primary goal of this education is to foster skills that allow these individuals to make "informed and responsible decisions," or engage in environmental stewardship (epa.gov). For the purposes of this study, this definition solely includes adult-based education in a formal or non-formal classroom environment where the individuals are travelling specifically to that locale to access the education. Individuals may have environmental concern or choose to engage in environmental education for a variety of reasons that vary by demographic and region.

There are several common reasons why individuals in the general public seek to engage in environmental education. One common reason is to learn the skills to engage in environmental stewardship. This form of education promotes action in environmental stewardship through
fostering a sense of place, and aims to "strengthen the link between knowledge and action" for participants through individual conservation practices, volunteer cleanup, citizen science, or residential outdoor stewardship (Kudryavtsev et al., 2012; Merenlender et al., 2016; Stern et al., 2008). Another form of environmental education is educator training, which has become prioritized in recent years as educators have become increasingly aware of their role in helping youth conceptualize the environmental challenges society faces, and have come to understand their role in educating the general public on environmental issues (Bromley et al., 2013; Van Petegem et al., 2007). This kind of environmental education aims to train educators, school teachers, nature guides or citizen volunteers to effectively teach others about environmental issues. Lastly, there are a variety of professions that entail environmental subject matter, and the environmental education and training for these individuals is broadly referred to as professional development for environmentally related professions. The professions may include those directly involved with the environment, such as environmental law, or others, that may not necessarily identify with being in an environmentally related profession, such as development and construction. Many professional fields outside of conventional environmental fields have begun to recognize the importance of awareness of their impact on the environment, and have engaged in making sustainable development a part of the training curriculum, thus creating an increased demand for environmental education (Martin and Hall, 2002; Rider and Elliott, 2007).

Outside of individuals seeking to attain environmental education for professional reasons, there is a variety of individuals seeking environmental education for personal reasons. There are some predictors associated with individuals who exhibit environmental concern, thus prompting them to engage in pro-environmental behavior, such as seeking environmental education, which have been explored by social researchers. Environmental concern is a precursor to pro-
environmental behavior, and research in gender has found that women commonly exhibit environmental concern, leading to advocacy and pro-environmental behavior (Arnocky and Stroink, 2010; Milfont and Sibley, 2016; Zelenzy et al., 2000;). Other predictors included indicators of socioeconomic status such as income and educational attainment, and since the positive relationship between higher educational attainment and increased income is known, these two demographic variables may be expected to similarly predict pro-environmental behavior (Torpey, 2018). There are several studies that indicate that individuals who exhibit environmental concern or pro-environmental behavior are generally of higher socioeconomic status (Gifford and Nilsson 2014; McMillian et al., 1997; Morrison and Dunlap, 1986). Despite this, there are other studies that suggest that the relationship is more complex, and may be more influenced by cultural, ideological, and psychological factors more than socioeconomic status (Eom et al., 2018; Pearson et al., 2018).

Examining environmental concern by region may justify the need for environmental education in a state such as Oklahoma that relies heavily on the natural environment for major industries such as tourism. In the 1990's, a survey spanning the United States showed that the consensus of a majority of Americans was that measures should be taken to protect the environment, regardless of cost (Schultz, 2002). Although public attitudes and opinions may shift over time, culturally, Americans are not necessarily pro- or anti- environmental, but instead fall on a spectrum of environmentalism. Relationships with the environment may vary by region due of climate, industry, and personal reliance on nature. Geographically, research has found that environmentalism is mostly found in the northeast U.S. and West Coast, whereas the least environmentalism is found in The Dakotas, the intermountain West and the Deep South (Mazur and Welch, 1999). Political ideology, educational attainment and industrial affluence in a region
seemed to be predicting factors for pro-environmental behaviors regionally in the U.S. (Ringquist, 1993; Elliott et al., 1997).

In relation to the rest of the U.S., Oklahoma ranks relatively low when considering environmental value indicators such as members of environmental organizations, percentage of public opinion regarding government spending on the environment, pro-environmental voting in Congress, and the number of state-level environmental policies (Mazur and Welch, 1999). Concerning environmental education, environmental literacy in Oklahoma is also a significant consideration for Oklahoma's need for access to environmental education. Environmental literacy is a combination of knowledge and concern, and it refers to the intersection between the holistic understanding of environmental issues and an individual's cognitive ability to synthesize this information to make informed decisions about their relationship with the environment (Ramadas and Mohamed, 2014). Research on environmental literacy in the state of Oklahoma showed that a low percentage of students in the state had overall environmental literacy (Williams, 2017). This may be the result of the state's educational curriculum not having a course in science dedicated to environmental concepts to graduate per the Oklahoma Academic Standards in science (2015). Instead, environmental concepts are integrated into other main curriculum standards such as biology and earth systems, putting the depth of education surrounding the environment in the hands of individual educators or school districts. A lack of priority for environmental education in Oklahoma schools translates into a need for adult environmental education. For example, although Oklahoma's water is a key environmental issue in the state, a study surveying the perceptions and attitudes adults regarding water issues in Oklahoma concluded that there was a need for education and outreach on the topics of groundwater quality, pollution, and water quality, all topics that are connected to environmental
literacy (Eck et al., 2019). Factors in regional culture, public education policy, and adult environmental literacy demonstrate a need for environmental education in the state of Oklahoma.

### 1.5.2 The Travel Cost Method

Although there are many works involving the evaluation, use, and application of nonmarket valuation methods such as TCM, there is limited literature available applying TCM to the economic valuation of education. The dearth of literature in the field of environmental economics surrounding the proposed approach of valuing environmental education means that some methods used in the following works will be applied and adapted to the current research question. This section will explore literature involving non-market valuation involving elements applicable to the purposes of this research.

A primary application of TCM in terms of recreational management has been for the purposes of financial planning or reducing the impact of tourism on the natural environment. TCM can be used to value site attributes through varying the parameters and making visitation rates depend the quality of the site, which creates an application to site quality under environmental degradation. Some studies have approached this through linking a site's value to positive attributes, and have sought a demand for a metric of water quality such as dissolved oxygen (DO) (Cropper and Oates, 1992). Some research has addressed reducing environmental degradation of recreational sites such as lakes and beaches by applying TCM and understanding factors contributing to visitation rates. This has been applied to sites worldwide, as the impacts of visitation have been of concern for natural sites for recreation in addition to cultural resources, which includes sites such as museums, heritage assets, and historical sites. TCM has assisted site managers in controlling visitation to lessen the environmental impact such as entrance fees,
increasing difficulty to access a site, demarketing, and placing a cap on visitation (Fleming and Cook, 2008). TCM was specifically applied to aid in the management of the cultural heritage site, the Cave of Altamira, and produced a tool for decision-makers to predict the changes in visitor numbers when access fees or transportation costs change. It was found that cave visitors responded to price changes, such as total travel cost increases, which resulted in reduced visitation rates (Torres-Ortega et al., 2018). This is another example of using TCM to reduce the environmental degradation resulting from excessive tourism.

An example that includes financial and environmental planning includes the research by Hanauer and Reid (2017). TCM was applied to the valuation of urban open space, and a primary research goal was to evaluate the bias of welfare estimates encountered in utilizing traditional methods of travel time estimation and costs. The area of study was the Taylor Mountain Regional Park, a natural area adjacent to a highly populated urban area, Santa Rosa, California. The benefit derived from urban open space in addition to the high opportunity cost of preserving the space to stakeholders served as the justification for providing a value of Taylor Mountain Regional Park for efficient development of urban land use for recreation (Hanauer and Reid 2017). These types of valuation of recreational sites can serve as a representation of what would be lost if the site did not exist, or if it was not accessible to visitors. For example, and ITCM was applied to valuation of lake in Bangladesh, and the findings suggested that individuals got a surplus of $\$ 73.44$ per trip, generating a total surplus of $\$ 40$ million dollars. Valuation at this scale is explicitly meant to serve as justification for continued government support of these sites, and as a means to inform future decision making regarding the site (Alam et al., 2017).

In terms of the two main approaches to TCM, there is not a consensus in the literature on which of the two, ITCM, or ZTCM returns more accurate results. Essentially, the choice to use
either ITCM or ZTCM is dependent on the research question and the resources at hand. ITCM is appropriate when there are more resources to distribute individual surveys, and the process tends to be more detailed and tedious to complete. Although one method is not considered more valid than the other, some contend that because the ITCM requires more data and a slightly more complicated analysis that it produces more precise results (Institute of the Republic of Slovenia for Nature Conservation, 2010). Many studies employ ZTCM due to a lack of extensive individual data or justify the use of the ZTCM because of its appropriateness for addressing sites that are visited from travelers originating from long distances (Fleming and Cook, 2008; Hutcheson et al., 2018). For the purposes of comparison, the research by Torres-Ortega et al. (2018) applied both the ITCM and ZTCM to the research on the economic valuation of the National Museum and Research Center of Altamira, a cultural heritage center, a center for research and preservation of the Cave of Altamira in Spain. The application of both the ITCM and ZTCM allowed the researchers to compare the approaches' effectiveness in obtaining a demand curve and economic value of the National Museum and Research Center of Altamira. This particular study did not state whether ITCM or ZTCM is more effective for obtaining a result and the findings did not produce a definitive answer on which was a more effective approach due to the difficulty of obtaining a consistent result (Torres-Ortega et al., 2018).

Data is gathered for TCM in two primary modes. Some of the existing research has relied on using travel data from either travel databases, or from the recreational sites' reporting of visitation rates (Hutcheson et al., 2018; Torres-Ortega et al., 2018). For more detailed data, many studies use surveys to gather data from attendees on distance and mode of travel in addition to socioeconomic data (Fleming and Cook, 2008; Hanauer and Reid, 2017). Another means of
gathering data ouside of detailed surveys includes mapping methods as a means of gathering data to apply travel cost methods to the valuation of open urban space (Hanauer and Reid 2017).

In addressing the data provided for TCM calculations, the accepted convention for opportunity cost of time for leisure as between $1 / 4$ and $1 / 2$ a visitor's wage rate (Fleming and Cook 2008). Some research rejects the use of opportunity cost of time in the model used to approach valuation of natural sites, and instead, annual zonal visitation rates were calculated and travel costs per person were estimated by dividing the costs per party by the number of adults in the party (Fleming and Cook, 2008). The data was used to generate a trip function where the visitation rate per zone was regressed against the average zonal travel cost and sociodemographic variables such as age, education, and income (Fleming and Cook, 2008).

For addressing bias in study results, there may be several sources of bias. For example, when a site requires travel from a proximal origin to urban areas, these distances may either be reported directly by participants in surveys or they may be interpreted based on reported point of origin. One study gathered distance data that was derived from mapping methods from the reported point of origin (Hanauer and Reid 2017). This created a source of bias in the research because there was the use of Euclidean distance from visitors' zip code centroids to the area of study and average speed assumptions in addition to the measurements of travel distance and time based on Google Maps, both of which significantly underestimated the recreational value of the site (Hanauer and Reid, 2017).

In understanding what economic values may be acceptable, or expected in valuing environmental education, it was difficult to locate comparable studies in the literature, because most research in TCM addresses natural recreational or cultural heritage sites. The ranges for individual values using both ITCM and ZTCM were found to be anywhere from $\$ 13.70$ per
person trip, to $\$ 2043$ per individual visit (Fleming and Cook, 2008; Hanauer and Reid, 2017, Torres-Ortega, 2018). Annual values for these sites generally ranged in the millions with some generating between $\$ 1.5$ million to $\$ 267.4$ million yearly (Hanauer and Reid, 2017; TorresOrtega et al., 2018). Applying these same expectations for recreation and cultural heritage sites to the value of environmental education would be invalid comparisons, because the differences in participant motivation for travel is so vast.

There was a singular study discovered in the literature that applied TCM to environmental education and measured the value of a singular site at the Hudson River Park environmental education programs in New York City for schoolchildren. Although the methods used differ from the methods used in this research on the value of environmental education in the state of Oklahoma, the economic value produced was more conservative than the values estimated for natural recreational sites and may provide a better comparison for the expected economic value of environmental education. The methods of the study will be overviewed for the purposes of understanding the similarities and differences in approaches to this study.

Hutcheson et al. (2018) describe environmental education in the context of being an ecosystem service, akin to the environmental classification of recreational sites, making TCM a viable approach for valuing environmental education. The work more specifically references environmental education as a cultural ecosystem service and utilizes TCM to estimate the economic value of the Hudson River Park environmental education programs in New York City. This approach differs in that it focuses on schoolchildren as consumers rather than the adultbased environmental education this research encompasses. Although the approach includes similar elements, the number of visits are measured in bulk, or by school groups, and better employs the use of the ZTCM rather than ITCM due to the lack of individual travel data via
individual surveys. This approach provides a more generalized quantification of environmental education and is limited to one site, rather than many locations. With the available data from the NYC Department of Education "Demographic Snapshot" for 2015, this method provides an estimate of the value of environmental education for the 2014-2015 year by determining the average cost per student, per trip. Because most groups traveled by foot, bus or subway, the travel cost was based on round trip costs for use of the bus or subway in addition to the opportunity cost of time, and the time spent at the site (Huchenson et al., 2018). According to the method employed by Huchenson et al. (2018), the opportunity cost of time was estimated by use of the budget in the "School Allocation Memorandum" and the common practice of using onethird of this time as a labor-leisure tradeoff rate was used. The results provided what is described as conservative estimates of the value being $\$ 11,500$ per year, in the range of $\$ 7,500$ to $\$ 25,000$ per year, exclusive of the value provided to visitors outside of student groups to the park (Huchenson, et al., 2018). This work provides a similar framework for the approach of using TCM for the purposes of valuing environmental education, yet it employs ZTCM, relies on more generalized data, and is focused on one site, rather than the valuation of multiple educational events, as compared to the approach of this research.

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# Chapter 2: Using the Travel Cost Method to Value Environmental Education in the State of Oklahoma 

### 2.1 Introduction

As the link between human activity and environmental degradation has been acknowledged throughout the latter half of the $20^{\text {th }}$ century, environmental education and training has become a central element in providing a social solution to anthropogenic environmental issues. Environmental education has served as a means of improving environmental literacy and stewardship amongst the public and professionals in environmental fields and may take place in a variety of settings including traditional classrooms, or at public parks, waterways, and other outdoor venues. Although there are a variety of audiences and settings involved with environmental education, the primary goal of environmental education is to encourage individuals to "explore environmental issues, engage in problem solving, and take action to improve the environment" (EPA, 2012). Environmental education and resultant changed behaviors of participants may broadly affect the state of the natural environment on a variety of fronts including improved water quality, natural resource conservation, and biodiversity. Additionally, there are several economic indicators of an improved state of the environment, particularly with the desirability of recreational sites and other natural resources, which may be related to the public engaging in environmental stewardship.

The state of Oklahoma relies on its natural resources for both industry and tourism, making preservation of the natural world paramount to the state's economy. According to a report by the Oklahoma Tourism and Recreation Department, tourism is Oklahoma's third largest industry, generating billions of dollars for Oklahoma's economy (OmniTrak et al., 2018). The direct and secondary travel-generated earnings in Oklahoma for accommodation, food
services, arts, entertainment and recreation exceeded $\$ 1.9$ billion dollars in 2017 alone (Dean Runyan Associates, 2018). With 11,611 miles of shoreline, a major attraction for tourism and recreation is Oklahoma's numerous waterbodies, making surface water quality an important element of Oklahoma's economy (Oklahoma Water Resources Board, 2011; Boyer et al., 2016). As of the late 2000's Oklahoma has experienced a decline in state park visitation, with some studies linking recreational demand to factors affecting water quality such as lake level (Daniels and Melstrom, 2017). Oklahoma has experienced impaired waters due to blue-green algae blooms as a result of nutrient runoff, which was found to affect recreational demand, with recreationists willing to pay $\$ 12.40$ per person per trip for a reduction in probability of an algal bloom at Lake Tenkiller in eastern Oklahoma (Roberts et al., 2008). Mitigating the consequences of environmental degradation may be dependent on the provision of environmental education concerning protection of Oklahoma's water resources and general environmental stewardship for the public.

Access to environmental education is often funded by grants and public funding, yet there is little information available on the public demand for environmental education. Among its many benefits, environmental education may be considered intrinsically valuable from an ethical perspective or in its capacity to strengthen cognitive abilities and involve elements of social capital among youth and adults (Bogner, 1998; Krasny et al., 2015). Some have estimated the economic and social benefits of environmental stewardship, such as ecological restoration or the economic value of an improved state of the environment (Iftekhar et al., 2017, Poor et al., 2007). Despite past evaluations of environmental education, existing literature on the economic value of environmental education based on participant data is limited, creating a need for a participantbased, data-driven, economic value of environmental education.

In economic terms, environmental education is considered a "cultural" ecosystem service. The accepted definition of cultural ecosystem services is "non-material and/or socioecological benefits people obtain from a contact with ecosystems through spiritual enrichment, cognitive development, reflection, recreation, and aesthetic experiences" and includes educational values that stem from ecosystems, their components and processes, which may include environmental education (La Rosa et al., 2016; Sarukhán, and Whyte, 2005). The intangible nature of cultural ecosystem services has led to a lack of quantified values or integration in management plans for these services and a lack of economic indicators for these services (Milcu et al., 2013). Although there are some studies that address recreational, aesthetic, and cultural heritage values, there is a gap in the literature for a quantified economic value of environmental education. Because there is not an established market for assessing the economic value of environmental education, this means that traditional economic market valuation approaches are not applicable to quantifying the economic value of environmental education to the state of Oklahoma. An approach to valuation of a non-market good such as environmental education is the travel cost method (TCM), which utilizes data gathered regarding the distance participants travel to access a site of interest. Conventionally, TCM has been applied to the valuation of recreational sites such as national parks with the travel costs incurred by the visitor, including opportunity cost of time, lodging costs and other associated trip costs. Although TCM is generally applied to recreational sites, theoretically, it can be applied to any destination that is considered an amenity, making environmental education events a candidate for the application of TCM (Graves, 2013).

The principal assumption of TCM is that the cost of travel acts as a proxy for the value of the site and the participants' willingness to pay (WTP), thus inferring the value of the site itself.

TCM works under several additional assumptions including that the trip is single purpose only, with participants making the journey specifically to access a site, rather than the journey being a multi-purpose trip (Mayor et al., 2007). Also, it is assumed that the journey itself holds no value to the participant, and that the value is held by the destination. Economically and behaviorally, TCM assumes that individuals will respond to changes in explicit travel costs in a similar way, despite differences in composition. An example of this is the differences in perception regarding implicit costs such as time as compared to explicit costs such as mileage and access fees (Graves, 2013).

Environmental education focused on environmental stewardship and best management practices for both the public and professionals in a variety of fields is a necessary component in preserving and sustaining Oklahoma's natural environment, a driver of Oklahoma's economy. This study focuses on understanding the demand and value of this education in the state of Oklahoma based on what participants pay and are willing to pay to obtain environmental education. Additionally, determining demographic predictors for participants' willingness to travel farther to access environmental education will imply individuals’ willingness to pay more. This study builds on existing methods surrounding non-market valuation methods, particularly TCM, to gather data on the costs participants incur via travel to and from environmentally-based trainings and workshops within the state and utilize this data as a proxy for the valuation of environmental education in the state of Oklahoma. In contrast to previous studies employing TCM for valuation, this study adapts existing methods to pertain to environmental education, rather than traditional valuation of recreational sites, resulting in the first study applying TCM to environmental education in the state of Oklahoma.

### 2.2 Methods

The following will overview the methodology used to implement TCM for the purposes of the research objective. The survey design choices and data collection via survey distribution as well as the adapted calculations used in implementing ITCM estimates and the binary probit outcome model will be outlined.

### 2.2.1 Target Population and Survey Design

The approach to gathering data involved identifying the potential partners, which include government agencies, non-governmental organizations (NGO) and others willing to assist in distributing surveys at their events. The sample population of interest included participants at events in a formal or non-formal classroom setting providing environmental education specifically to mainly included workshops, lectures, informational sessions, meetings and handson learning experiences, and excluded convention booths or children's events. Participants were expected to be above the age of 18 at the time the survey was given. The events may or may not have registration fees and may be located at any location within the boundaries of the state of Oklahoma. Individuals who reported to have come from out-of-state were not excluded from the study.

## Table 2.1: Variable Definitions

Dependent and independent variables included on the survey given to participants. Each variable accounts for either a component of the TCM calculation or is for reporting demographic information.

Dependent Variable
Actual Travel Cost

Willingness to Pay

Independent Variable
Residence
Actual Round Trip Distance
Actual Round Trip Travel Time
Willingness Round Trip Distance

Willingness Round Trip Time

Total Travelers
Weighted Cost Per Mile

Registration Fee
Time at Event
Other Reported Expenditures
Work Related
Gender
Age
Education

Income

Definition
Costs of travel to environmental education events incurred by participants. Calculated by summing the travel costs from individual participants' reported origin to location of environmental education event.
Expected cost of travel calculated based on participants' travel costs and reported willingness to travel farther to access environmental education.

## Definition

City and County of Residence. Serves as indicator of distance traveled if distance traveled is illegible or not reported.
Reported actual travel distance multiplied by two to represent round trip travel distance. In miles ( m ) Reported actual travel multiplied by two to represent round trip travel time. In hours (hr) Reported willingness to travel farther to attend the event added to actual travel distance multiplied by two to represent round trip travel distance. In miles (m) Estimated round trip time based on willingness to travel farther and the rate at which the participant actually traveled. In hours (hr) Reported additional travelers plus one to represent the total travelers in carpool.
U.S. General Services Administration Privately owned vehicle automobile rate per mile for January 1, 2019 of $\$ 0.58$, divided by total number of carpoolers.
Reported fee in U.S. Dollars.
Reported time of event. In hours (hr)
Other reported expenditures such as toll fees, lodging costs etc. In U.S. Dollars.
If yes $=2$, if no $=1$
If male $=1$, if female $=2$, other $=1.5$
Estimated age in years based on reported age range.
Reported level of education. If no high school diploma $=0$, high school $=1$, associate's degree $=2$, bachelor's degree $=3$, graduate degree $=4$. Estimated annual income in U.S. dollars based on the participants' job classification chosen. Job classification is matched with labor data specific to the field and average income for the location.

A one-page 13-item participant survey was designed to allow the researchers to gather as much data without being too long for the participants, and with respect for the time constraints of organizers. The questions account for the independent variables and dependent variables involved in the study (Table 2.1). Each question was worded to assist in gathering data on both what the participant actively paid to attend an event and what the participant would be willing to pay to attend the event in terms of travel costs, time costs and access fees. To estimate each participants' income in order to calculate opportunity cost of time, an income metric is necessary information to include in the survey. Collecting income data via surveys has been considered problematic in the literature because of high rates of non-response due to the sensitivity of the subject (Turrell, 2000). Some have suggested alternative methods to elicit higher response rates on income, such as including closed category options for answering income-based questions rather than open-ended income questions (Galobardes and Demarest, 2003). To obtain accurate responses on individual income, in addition to information on occupation, the income question was excluded to avoid non-response. Instead, a question on job occupation was asked, and the income of that individual was estimated based on labor data from the Oklahoma Department of Commerce for most occupations, the Oklahoma State Department of Education for public school educators, and for occupations not listed from those sources, data from the U.S. Bureau of Labor Statistics for the state of Oklahoma was used. Data from the Oklahoma Department of Commerce provided specific average incomes for various regions and counties throughout the state (Workforce Data, 2019; Oklahoma Department of Education, 2019; Bureau of Labor Statistics; 2019).

### 2.3 Implementation

To implement the distribution of the surveys at environmental education events throughout the state of Oklahoma, the Oklahoma Water Survey partnered with participating government agencies, NGOs and other willing entities within the state of Oklahoma providing environmentally related adult-based education to the public or professionals in the field. Because this research involves human subjects, the first survey was distributed after obtaining Institutional Review Board approval (\#10220). Each organization was given a timeline for the research and each agreed to distribute participant surveys (See Appendix A) to participants at events fitting the research criteria scheduled before the conclusion of the study. In addition to the participant surveys, organizers were provided with the instructions for organizers and one organizer survey (See Appendix A ) meant to quantify the funding that was put into planning and organizing the event in addition to the travel costs associated with the organizers facilitating the event. For research purposes, the most important instruction given to the organizers was to ensure that the surveys are given prior to, or at the beginning of the educational event. The reasoning for this was to ensure that the perceived quality of the education obtained did not interfere with the participants' answers to the question regarding how far they would be willing to travel to the event. It is possible that giving surveys at the beginning of the event, directly following participants' travel may have an unintended effect based on the distance, and quality of the journey to reach the event in addition to the participant's individual mood or disposition. The purpose of the organizer survey is to estimate the costs incurred by organizers to facilitate environmental education events throughout the state of Oklahoma and allow for cost benefit analysis.

### 2.3.1 The Travel Cost Method

A modified TCM approach was be used to generate the econometric model for this study. Rather than estimating the probability of a number of visits to a specific location over time, as in a basic TCM, this study will be estimating what participants pay and are willing to pay to access environmental education with the components of a TCM as the fundamental framework. Because there are multiple sites in which environmental education occurs throughout the state of Oklahoma, occurring on differing occasions, with visitors not necessarily making multiple trips to an event, each participants' costs associated with travel will be incorporated into the calculation for what they pay and are willing to pay. The equation for cost of travel ( $\mathrm{pt}_{\text {actual }}$ ) for individuals traveling for reasons outside of work, or what each individuals' costs are including opportunity cost of time for the journey (Equation 2.1). There was also a separate calculation for individuals' willingness to pay based on their answer to the survey question, "how much farther would you be willing to travel to attend this event?" (Equation 2.2).

$$
p t_{\text {actual }}=\left\{\left(0.33 \times\left(\frac{y_{n}}{2,080}\right) \times t_{n}\right)+\left(\frac{c_{n}}{c_{p}} \times d_{n}\right)\right\}+\text { tolls }_{n}
$$

## Equation 2.1

Where $y_{n}$ : individual yearly income, $t_{n}$ : actual round trip travel time, $c_{n}$ : vehicle operation costs per unit mile $=\$ 0.58\left(\right.$ Vehicle Rates, 2019), $c_{p}:$ number of carpoolers, $d_{r}$ : actual round trip travel distance, tollsn: tolls paid on the journey to the site. Annual income is divided by 2080, the estimated standard hours worked within a year.

$$
p t_{\text {willingness }}=\left\{\left(0.33 \times\left(\frac{y_{n}}{2,080}\right) \times t_{n}\right)+\left(\frac{c_{n}}{c_{p}} \times d_{n}\right)\right\}+\text { tolls }_{n}
$$

## Equation 2.2

Where $y_{n}$ : individual yearly income, $t_{n}$ : willingness round trip travel time, $c_{n}$ : vehicle operation costs per unit mile $=\$ 0.58$ (Vehicle Rates, 2019), $c_{p}$ : number of carpoolers, $d_{r}$ :
willingness round trip travel distance, tolls $s_{n}$ : tolls paid on the journey to the site. Annual income is divided by 2080, the estimated standard hours worked within a year.

For individuals who were traveling for work-related reasons as reported in the survey, there was a change to the equation for cost of travel. The opportunity cost of time was the individual's full hourly wage rate rather than $1 / 3$ of it based on the assumption that the individual was either traveling during work hours or was being paid for the time they took to obtain environmental education relative to their job field. The equation for cost of travel ( $\mathrm{pt}_{\text {actual }}$ ) is for individuals traveling for work-related reasons and includes what each individuals' costs are including opportunity cost of time for the journey (Equation 2.3). A second calculation was performed for those traveling for work based on their answer to the question, "how much farther would you be willing to travel to attend this event?" (Equation 2.4).

$$
p t_{\text {actual }}=\left\{\left(\left(\frac{y_{n}}{2,080}\right) \times t_{n}\right)+\left(\frac{c_{n}}{c_{p}} \times d_{n}\right)\right\}+\text { tolls }_{n}
$$

## Equation 2.3

Where $y_{n}$ : individual yearly income, $t_{n}$ : round trip travel time, $c_{n}$ : vehicle operation costs per unit mile $=\$ 0.58$ (Vehicle Rates, 2019), $c_{p}$ : number of carpoolers, $d_{r}$ : round trip travel distance, tolls $s_{n}$ : tolls paid on the journey to the site. Annual income is divided by 2080, the estimated standard hours worked within a year.

$$
p t_{\text {willingness }}=\left\{\left(\left(\frac{y_{n}}{2,080}\right) \times t_{n}\right)+\left(\frac{c_{n}}{c_{p}} \times d_{n}\right)\right\}+\text { tolls }_{n}
$$

## Equation 2.4

Where $y_{n}$ : individual yearly income, $t_{n}$ : round trip travel time, $c_{n}$ : vehicle operation costs per unit mile $=\$ 0.58$ (Vehicle Rates, 2019), $c_{p}$ : number of carpoolers, $d_{r}$ : round trip travel distance, tolls $n$ : tolls paid on the journey to the site. Annual income is divided by 2080, the estimated standard hours worked within a year.

These individual costs are then included in the aggregate travel cost for each participant based on the adapted calculation as referenced in Parsons (2017), it includes all the actual travel costs associated with travel to an environmental education event (Equation 2.5). A second equation addressed the willingness to pay for each individual and encompassed the aggregate costs (Equation 2.6).

$$
T C_{\text {actual }}=p t_{\text {actual }}+l c+a f+e x+t c
$$

## Equation 2.5

Where ptactual: participant cost of travel, lc: reported lodging costs, af: reported access fee, ex: other reported expenditures, tc: time cost at event (time cost is the participants' hourly wage multiplied by the number of hours spent at the educational event.)

$$
T C_{\text {willingness }}=p t_{\text {willingness }}+l c+a f+e x+t c
$$

## Equation 2.6

Where ptwillingness: participant cost of travel, lc: reported lodging costs, af: reported access fee, ex: other reported expenditures, $t c$ : time cost at event (time cost is the participants' hourly wage multiplied by the number of hours spent at the educational event.)

The individual costs of travel, $p t$, were calculated twice: First for what the participant actually paid to access environmental education, based on the round trip distance and time actually travelled, which is then input into the aggregate travel cost, TC, equation for each individual. The second calculation represents what the participant is willing to pay, based on the reported distance that the individual is willing to travel past the actual distance they travelled. This is then input into the aggregate travel cost equation and represents the participants' WTP. It should also be noted that for those travelling for work-related reasons as reported, the hourly wage for travel time was not divided by 3 as it was for those who did not report travelling for work-related reasons.

To calculate the total costs for all participants $n=358$ in the study, the individual costs of travel were totaled for both what participants paid (Equation 2.7) and were willing to pay to access environmental education in the state of Oklahoma (Equation 2.8).

$$
\text { Total }_{\text {actual }}=\sum_{i=1}^{n} T C_{\text {actual }}
$$

## Equation 2.7

Where TCactual: Individual actual aggregate travel costs, $n=358$ participants

$$
\text { Total }_{\text {willingness }}=\sum_{i=1}^{n} T C_{\text {willingness }}
$$

## Equation 2.8

Where $T C_{\text {willingness: }}$ Individual willingness aggregate travel costs, $n=358$ participants

Surveys were also given to organizers to gather data on how much is spent on providing environmental education to the public and professionals in environmental fields. For each event, organizers reported the direct expenditures such as venue costs, refreshments and educational materials, in addition to the planning time and event time, which would account for the opportunity cost of time for each organizer based on their suggested wages. If there was no reported wage for an organizer or volunteer, the opportunity cost of time for the work and travel related to the event was calculated using the median hourly wage from the county in which the host organization is located based on Oklahoma Department of Commerce data (Workforce Profiles, 2019).

For each individual organizer, the round-trip cost of travel and other associated expenses were calculated using a modified travel cost equation (Equation 2.9). These values were all summed to quantify the cumulative cost of organizing the environmental education event (Equation 2.10).

$$
o_{t}=\left\{\left(r_{w} \times t_{r}\right)+\left(\frac{c_{m}}{n_{p}} \times d_{r}\right)+\left(r_{w} \times p_{t}\right)\right\}
$$

## Equation 2.9

Where $r_{w}$ : reported wages, $t_{r}$ : round trip travel time, $c_{m}$ : vehicle operation costs per unit mile $=\$ 0.58 n_{p}:$ number passengers, $d_{r}:$ round trip travel distance, $p_{t}:$ preparation time

$$
O C=\sum_{i=1}^{n} o_{t}+\sum_{i=1}^{n} c_{t}+e_{x}
$$

## Equation 2.10

Where $o_{t}$ : costs of travel for organizers, $e_{x}$ : reported expenditures, $t_{c}$ : time cost at event and, $n$ : number of organizers

Once the cumulative cost of organizing the event was quantified, the amount spent per participant was calculated by dividing the cumulative organization costs by the organizerreported number of registrants for the event. Furthermore, a benefit-cost ratio for each environmental education event was calculated by assessing the amount generated through registration fees to the quantified costs associated with organizing the event.

Although basic TCM utilizes approaches such as variants of the Poisson count data model to estimate the probability of the visits to a singular site over an interval of space or time, this study involves multiple sites with singular visits, making this an unviable approach (Parsons, 2003). Outside of what participants pay and are willing to pay, the dependent variable of interest is participants' willingness to travel farther. The additional distance participants were willing to travel served as a proxy for additional travel costs, which implied their willingness to pay more
to access environmental education. Using a binary probit outcome model, unwillingness to travel farther to attend an event was coded 0 , and willingness to travel farther to attend an event was coded 1 . The model was used to predict the probability of membership to a target group based on a set of predictor variable. According to the binary probit outcome model (Equation 2.11), the probability $p_{i}$ of observing a participant $Y_{i}$ willing to travel farther is:

$$
p_{i}=\operatorname{Prob}\left(Y_{i}=1 \mid \boldsymbol{X}\right)=\Phi\left(\boldsymbol{x}_{i}^{\prime} \beta\right)
$$

## Equation 2.11

where $\Phi$ is the cumulative distribution function of a standard normally distributed variable which ensures $0 \leq p_{i} \leq 1, \beta$ is a vector of coefficients to be estimated, reflecting the effect of changes in $x$ on the probability of participants willingness to travel farther, and $x$ is a vector of independent variables that explain the variation in outcome, including actual round trip distance, estimated age, and estimated annual income

### 2.4 Results

The following will discuss the results of this study in addition to the demographic qualities of the three educational categories which include environmental stewardship, educator training and professional development. Furthermore, the calculated economic value, the outputs of the binary probit outcome model for participants' WTP, and statistical representativeness of the sample based on a chi-square goodness of fit test will be reported.

### 2.4.1 Collective Sample Results

There were eight organizations that participated in distributing surveys at environmental education events throughout the state of Oklahoma between May of 2019 and January of 2020 (Figure 2.1). There were $\mathrm{n}=358$ respondents at 25 total events across the state, all adults over the age of 18 with a response rate of $76 \%$ (See Appendix B). Most of the respondents, $69 \%$ identified as female, $30 \%$ identified as male, and $1 \%$ identified as "other" or did not respond. A
majority of the respondents, $63 \%$ were present for reasons outside of work and the remaining $37 \%$ were obtaining environmental education for work-related reasons (Table 2.2). There were 39 occupational categories represented by the 358 participants in this study. 25 occupations had more than two representative participants (Error! Reference source not found. or Table 2.3).

| Demographic |  | \% (n) |
| :---: | :--- | :--- |
| Work Related? | Yes | $36.9(132)$ |
| Gender | No | Female |
|  | Male | $63.1(226)$ |
|  | Other | $30.4(109)$ |
| Age Range | $18-25$ | $0.8(3)$ |
|  | $26-35$ | $15.8(61)$ |
|  | $36-45$ | $14.5(56)$ |
|  | $46-55$ | $15.6(60)$ |
|  | $56-65$ | $14.0(54)$ |
| Education Level | $>65$ | $12.5(48)$ |
|  | Some high school | $20.5(79)$ |
|  | High school graduate | $14.2(51)$ |
|  | Associate's degree | $12.6(45)$ |
|  | Bachelor's degree | $39.4(141)$ |
|  | Graduate school | $33.2(119)$ |
|  | $\$ 1$ to $\$ 9,999$ | $<1.0(1)$ |
|  | $\$ 10,000$ to $\$ 14,999$ | $0.0(0)$ |
|  | $\$ 15,000$ to $\$ 24,999$ | $20.9(75)$ |
|  | $\$ 25,000$ to $\$ 34,999$ | $6.0(21)$ |
|  | $\$ 35,000$ to $\$ 49,999$ | $31.3(112)$ |
|  | $\$ 50,000$ to $\$ 64,999$ | $23.7(85)$ |
|  | $\$ 65,000$ to $\$ 74,999$ | $4.2(15)$ |
|  | $\$ 75,000$ to $\$ 99,999$ | $6.4(23)$ |
|  | $\$ 100,000$ or more | $7.3(26)$ |

Table 2.2: Demographics for n=358 Participants


[^0]| Occupation | Frequency |
| ---: | :---: |
| Retired | 79 |
| Student | 60 |
| Educator | 53 |
| Engineer | 47 |
| Attorney | 21 |
| Management, Administrative, Clerical | 15 |
| Not Currently Employed | 11 |
| Self-Employed | 10 |
| Science and Technology | 10 |
| Medical Professions | 9 |

## Table 2.3: Participant Occupations

The top 10 professions and occupations represented by the participants in the study

### 2.4.2 Educational Category Results

In the state of Oklahoma there was a diverse array of environmental education events that were offered to the general public and professionals in environmental fields, and among these events, there were 3 main categories of environmental education events observed. They included environmental stewardship, educator training and professional development. Because opportunity cost of time is based on hourly wage rates, and has an effect on the participants' travel costs, income differences across the environmental education categories influenced travel costs and willingness to pay. Additionally, trends and similarities in estimated age, jobrelatedness and gender influenced the division of these three categories.

Environmental Stewardship involves education intended for the general public and those who are interested in learning how to incorporate pro-environmental behavior in their everyday lives. There were $\mathrm{n}=191$ individuals in this category (Table 2.4). Environmental stewardship education is taught in a variety of settings including the outdoors, a formal classroom structure, discussions, and workshops. Environmental Stewardship education may cover a range of topics such as environmental STEM, water conservation, citizen science, residential stewardship,
including best management practices for the general public. Some specific examples include rainwater harvesting for the home, educating the general public on the water cycle, or best management practices for landscaping and gardening.

| Variable | Units | Mean | Standard Deviation |
| ---: | :---: | :---: | :---: |
| Actual Travel Cost | U.S. \$ | 116 | 138.9 |
| Willingness to Pay | U.S. \$ | 192 | 143.1 |
| Actual Round Trip Distance | miles | 36 | 85.2 |
| Actual Round Trip Travel Time | hours | 0.8 | 1.46 |
| Willingness Round Trip Distance | miles | 82 | 113.9 |
| Total Travelers |  | 1.6 | 0.70 |
| Weighted Cost Per Mile | U.S. \$ | 0.4 | 0.16 |
| Registration Fee | U.S. $\$$ | 26 | 41.4 |
| Time at Event | hours | 4.97 | 4.2 |

Table 2.4: Environmental Stewardship Results
There were 12 total events with $n=191$ participants that were a part of the environmental stewardship category.

Educator Training is environmental education focused on helping teachers and educators provide well-informed and engaging environmental education for their students. There were $\mathrm{n}=83$ participants in this category (Table 2.5). Many educator training events are aimed at public school teachers, but there are instances in which this training is intended to train educators and volunteers to deliver environmental education to the public. Educators focusing on adult-based environmental education are also included. Some specific examples include teaching educators to bring recycling to their schools and classrooms, developing environmentally related STEM education, nature guide training, or involving environmental education in literacy education curriculums.

| Variable | Units | Mean | Standard Deviation |
| ---: | :---: | :---: | :---: |
| Actual Travel Cost | U.S. \$ | 134 | 78.8 |
| Willingness to Pay | U.S. \$ | 182 | 137.3 |
| Actual Round Trip Distance | miles | 66 | 66.4 |
| Actual Round Trip Travel Time | hours | 1.3 | 1.14 |
| Willingness Round Trip Distance | miles | 144 | 166.0 |
| Total Travelers |  | 1.9 | 1.37 |
| Weighted Cost Per Mile | U.S. \$ | 0.4 | 0.18 |
| Registration Fee | U.S. $\$$ | 17 | 7.5 |
| Time at Event | hours | 6.1 | 0.33 |

## Table 2.5: Educator Training Results

There were 6 total events with $n=83$ participants that were a part of the educator training category

Professional Development is education aimed at private and public sector professionals who work in environmentally related fields including those that may be subject to environmental regulation. There were $\mathrm{n}=84$ participants in this category (Table 2.6). Education for professional development is taught in a variety of settings including the outdoors, a formal classroom structure, trainings, and workshops. Topics are intended to educate professionals in environmentally related fields with continuing education, introducing new techniques, develop in ethical decision-making, and may or may not result in certification in a given topic. Some examples include low-impact development education, environmental policy and law, and water quality monitoring for professionals in the field.

| Variable | Units | Mean | Standard Deviation |
| ---: | :---: | :---: | :---: |
| Actual Travel Cost | U.S. $\$$ | 384 | 312.8 |
| Willingness to Pay | U.S. $\$$ | 486 | 388.6 |
| Actual Round Trip Distance | miles | 91 | 103.4 |
| Actual Round Trip Travel Time | hours | 1.7 | 1.61 |
| Willingness Round Trip Distance | miles | 249 | 236.5 |
| Total Travelers |  | 2.1 | 1.11 |
| Weighted Cost Per Mile | U.S. \$ | 0.4 | 0.19 |
| Registration Fee | U.S. \$ | 108 | 89.9 |
| Time at Event | hours | 7.2 | 5.80 |

## Table 2.6: Professional Development Results

There were 7 total events with $n=84$ participants that were a part of the professional development category.

Demographics and socioeconomic characteristics of the participants for the three main categories of environmental education events; environmental stewardship, educator training and professional development were observed. The percentages of participant membership to demographic categories such as whether participants were traveling for work (Figure 2.2), gender identity (Figure 2.3), age (Figure 2.4), income (Figure 2.5), and educational attainment level (Figure 2.6). The percentages for each educational category were compared to the total sample of $n=358$ participants.


Figure 2.2: Educational Categories and Work-Related Travel
Percentage of participants from each environmental education category in addition to the entire sample attending for job-related purposes or for other reasons.


Figure 2.3: Educational Categories and Gender Identity
Percentage of participants from each environmental education category in addition to the entire sample and reported gender identification


Figure 2.4: Educational Categories and Age
Percentage of participants from each environmental education category in addition to the entire sample and reported age range


Figure 2.5: Educational Categories and Income
Percentage of participants from each environmental education category in addition to the entire sample and estimated income range.


Figure 2.6: Educational Categories and Educational Attainment Level Percentage of participants from each environmental education category in addition to the entire sample and reported educational attainment.

### 2.4.3 Economic Value

The distributions for what $\mathrm{n}=358$ participants paid (Figure 2.7) and were willing to pay (Figure 2.8) to access environmental education were both right skewed with actual costs ranging between $\$ 12$ to $\$ 1301$ and WTP ranging between $\$ 18$ to $\$ 2358$. The resultant economic value of environmental education to the state of Oklahoma was calculated and it was found that the collective value of environmental education for $\mathrm{n}=358$ respondents at 25 events was $\$ 75,300$ based on the costs of travel such as distance traveled, vehicle operating costs, lodging costs, opportunity cost of time for both the journey and time spent at the event, event registration fees in addition to other reported expenditures. Based on item 5 of the survey, "How much farther would you be willing to travel to attend this event?" and the respondents' answer to this question, the participants' willingness to pay was calculated. The collective WTP for total that $\mathrm{n}=358$ participant respondents at 25 events across the state was found to be $\$ 92,600$. Descriptive
statistics are shown for each of the independent variables that was used to calculate the actual travel costs and willingness to pay for travel for both individuals and the collective 358 participants. Furthermore, each individual on average paid $\$ 210$ to access environmental education and was willing to pay $\$ 259$ on average to access this education (Figure 2.7). Based on the paired data of individual actual cost of travel and individual willingness to pay for travel for each participant it was estimated that participants would be willing to pay approximately $\$ 16.85$ plus approximately $\$ 0.15$ for every dollar that was actually spent on accessing environmental education (Figure 2.9).


Figure 2.7: Distribution of Actual Travel Costs
The right-skewed distribution for participants' actual costs.


Figure 2.8: Distribution Willingness to Pay The right-skewed distribution forparticipant WTP.

| Variable | Definition | Mean | Std Dev | Min | Max |
| ---: | :---: | :--- | :--- | :--- | :--- |
| Dependent Varaible |  |  |  |  |  |
| Actual Cost | U.S. $\$$ | 210 | 209.6 | 12 | 1301 |
| Willingness to Pay | U.S. $\$$ | 259 | 257.5 | 18 | 2358 |
| Explanatory Variable |  |  |  |  |  |
| Actual Round Trip Distance | miles | 56 | 88.9 | 0.1 | 1000 |
| Willingness Round Trip Distance | miles | 136 | 175.6 | 0.1 | 1488 |
| Actual Travel Time | hours | 1.1 | 1.47 | 0.02 | 18 |
| Carpoolers | number | 1.8 | 1.01 | 1.0 | 6.0 |
| Weighted Cost Per Mile | U.S. $\$$ | 0.4 | 0.2 | 0.10 | 0.58 |
| Registration Fee | U.S. $\$$ | 43 | 64 | 0 | 200 |
| Time at Event | hours | 5.8 | 4.23 | 1.00 | 17.00 |
| Other Expenditures | U.S. $\$$ | 3 | 24 | 0 | 300 |
| Work Related? | no=1 yes=2 | 1.37 | 0.48 | 1.00 | 2.00 |
| Estimated Annual Income | U.S. $\$$ | 48600 | 27200 | 0 | 18000 |

Table 2.7: Survey Variable Descriptive Statistics
Variable descriptive statistics for factors (independent variables) used to calculate the actual travel cost and willingness to pay for travel costs (dependent variables) per individual.


Figure 2.9: Paired Individual Actual Costs and Individual WTP
Paired actual costs and willingness to pay for $n=358$ individuals.

Aggregate organizer costs were evaluated for 24 of the 25 environmental education events; the organizer spending per participants and the benefit cost analysis included $\mathrm{n}=297$ participants (Table 2.8). Organizer data was missing for one event, so the participant data was not included in the organizer spending per participant and benefit-cost analysis. The average organizer spending per participant was $\$ 118$, and $25 \%$ of the events have a $\$ 0$ registration fee, the average registration fee for the 24 events was $\$ 69$. Based on only registration fees obtained by organizers, the benefit-cost ratio was 0.58 . Considering aggregate travel costs for the $\mathrm{n}=297$ participants, the benefit-cost ratio is 1.74 .

| Variable | Units | Mean | Standard <br> Error | Median | Standard <br> Deviation | Range |  |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Organizer | U.S. \$ | 1465 | 298.4 | 990 | 1461.9 | Minimum <br> Spending <br> Registration | U.S. \$ |
| Fees |  |  |  |  |  |  |  |$\quad 856$ Maximum | 5564 |
| :---: |

## Table 2.8: Organizer Aggregate Costs

Descriptive statistics for organizer spending and aggregate registration fees per environmental education event.

Demand curves for individual actual aggregate cost of travel and individual aggregate willingness to pay are shown (Figure 2.10). The difference between individual willingness to pay and actual costs to access environmental education based on the curves was $\$ 49$ per individual (Equation 2.12).


Figure 2.10: Aggregate Costs Demand Curves
A set of demand curves for the $n=358$ sample shows both the calculated individual actual aggregate cost of travel and indivual aggregate willingness to pay for travel.

The difference between the individual aggregate willingness to pay and individual aggregate actual costs was calculated. Based on these curves, the difference was $\$ 49$ per individual.

$$
T C_{\text {Individual Actual-WTP }}=\int_{0}^{1}(-260.7 \ln (x)+1.30) d x-\int_{0}^{1}(-214 \ln (x)-3.76) d x
$$

## Equation 2.12

Where TC Individual Actual-wTP: The difference between willingness and actual individual aggregate travel costs, $n=358$ participants.

In addition to the difference between individuals' WTP and their actual costs associated with accessing environmental education, the difference between the individual primary costs and trip costs were of interest for the purposes of planning (Figure 2.11). The primary costs are
associated with up-front costs such as registration fees, lodging costs and time cost of event length, whereas trip costs are specifically associated with the journey, and included mileage, time cost of the journey, and reported tolls. For the total travel costs for all $n=358$ participants, the primary costs accounted for $80.8 \%$ of all the costs. On average, individuals were paying $\$ 172$ in primary costs versus the $\$ 41$ in trip costs. The average difference between the primary costs and trip costs was $\$ 132$.


Figure 2.11: Primary and Trip Costs
A set of curves for the $n=358$ sample shows both the individual primary costs, such as registration fees, lodging costs and time cost at the educational event itself and individual trip costs associated with the journey itself such as mileage, time cost of the journey, and reported tolls.

### 2.4.4 Willingness to Pay Model Outputs

Out of the $\mathrm{n}=358$ participants, $75.97 \%$ stated a willingness to travel farther to access environmental education, thus implying a willingness to pay more. The results of a binary probit outcome model for describing the effect several predictor variables have on a participants' willingness to travel farther to access environmental education were obtained using the statistical software SPSS. Based on the likelihood-ratio chi-square test, the model showed an improved fit for the data over the unconditional null, or intercept model. The chi-squared statistic was at 24.39, above the critical value necessary for significance at the $\mathrm{p}=0.01$ level. The estimated coefficients and standard errors for independent variables found to significantly ( $\mathrm{p}<.05$ ) affect the willingness to travel farther are listed in (Table 2.9) and include actual round trip distance, estimated age, and estimated annual income (See Appendix C). The estimates for the effect of actual round-trip distance travelled were found to have a negative impact on participants' willingness to travel farther with significance exceeding the $p=0.01$ level. An increase in estimated age was found to have a negative effect on participants' willingness to travel farther with significance at the $p=0.001$ level. A higher estimated annual income was found to have a slightly positive effect on participants' willingness to travel farther with a significance at the $\mathrm{p}=$ 0.05 level. The equation for the model is shown (Equation 2.13).

|  |  |  |  | Lower | Upper |
| ---: | :--- | :--- | :--- | :--- | :--- |
| Intercept | 1.364 | 0.2702 | $<0.001$ | 0.835 | 1.894 |
| Actual Round Trip Distance | -0.004 | 0.0010 | $<0.001$ | -0.006 | -0.002 |
| Estimated Age | -0.017 | 0.0051 | 0.001 | -0.027 | -0.007 |
| Estimated Annual Income | $6.895 \mathrm{E}-06$ | $3.295 \mathrm{E}-06$ | 0.036 | $4.357 \mathrm{E}-07$ | $1.335 \mathrm{E}-05$ |

## Table 2.9: Binary Probit Model Output

Table showing the three independent variables that had a significant effect on the willingness to travel farther for all $\mathrm{n}=358$ participants.

A Binary Probit Outcome Model equation for all participants shows the likelihood that individuals are willing to travel farther based on the predictor variables for actual round trip distance traveled, estimated age, and estimated annual income.

$$
\left.\operatorname{Prob} \text { TravelWillingness }_{i}=1 \mid \beta, x_{i}\right)=\Phi\left(\beta_{1}+\beta_{2} \text { Distance }_{i}+\beta_{3} \text { Age }_{i}+\beta_{4} \text { Income }_{i}\right)
$$

Equation 2.13
Where $\beta$ is the vector of estimated coefficients, $x_{i}$ is the independent variable vector.

A binary probit outcome model for describing the effect several predictor variables have on a participants' willingness to travel farther to access environmental education in the environmental stewardship category were obtained. Based on the likelihood-ratio chi-square test, the model showed an improved fit for the data over the unconditional null, or intercept model. The chi-squared statistic was at 20.251 above the critical value necessary for significance at the p $<0.001$ level. The estimated coefficients and standard errors for two independent variables found to significantly ( $\mathrm{p}<.05$ ) affect the willingness to travel farther are listed in (Table.2.10) and include actual round trip distance, and estimated age. The estimates for the effect of actual
round-trip distance travelled were found to have a negative on participants' willingness to travel farther with significance exceeding the $\mathrm{p}=0.01$ level. An increase in estimated age was found to have a negative effect on participants' willingness to travel farther with significance at the $\mathrm{p}=$ 0.001 level. The associated equation is shown (Equation 2.14).

Variables Coefficient Standard Error Significance 95\% Confidence Interval

|  |  |  |  | Lower | Upper |
| ---: | :---: | :---: | :---: | :---: | :---: |
| Intercept | 2.326 | 0.4990 | $<0.001$ | 1.348 | 3.304 |
| Actual Round Trip Distance | -0.007 | 0.0023 | $<0.01$ | -0.011 | -0.002 |
| Estimated Age | -0.028 | 0.0083 | 0.001 | -0.044 | -0.011 |

## Table.2.10: Environmental Stewardship Binary Probit Outcome Model Output

Table showing the two independent variables that had a significant effect on the willingness to travel farther for $n=191$ participants in the environmental stewardship category.

A Binary Probit Outcome Model equation for Environmental Stewardship participants shows the likelihood that individuals are willing to travel farther based on the predictor variables for actual round trip distance traveled, and estimated age.

$$
\operatorname{Prob}\left(\text { TravelWillingness }_{i}=1 \mid \beta, x_{i}\right)=\Phi\left(\beta_{1}+\beta_{2} \text { Distance }_{i}+\beta_{3} \text { Age }_{i}\right)
$$

## Equation 2.14

Where $\beta$ is the vector of estimated coefficients, $x_{i}$ is the independent variable vector.

For the educator training category, the results of a binary probit outcome model for describing the effect several predictor variables have on a participants' willingness to travel farther to access environmental education were obtained. Based on the likelihood-ratio chisquare test, the model showed an improved fit for the data over the unconditional null, or intercept model. The chi-squared statistic was at 14.125 , above the critical value necessary for significance at the $p=0.003$ level. The estimated coefficients and standard errors for
independent variables found to significantly ( $\mathrm{p}<.05$ ) affect the willingness to travel farther are listed in (Table.2.11) and include actual round trip travel time, total travelers (carpoolers), and educational level. The estimates for the effect of actual round-trip travel time were found to have a negative on participants' willingness to travel farther with significance at the $\mathrm{p}=0.005$ level. An increase in total travelers, or carpoolers, was found to have a negative effect on participants' willingness to travel farther with significance at the $\mathrm{p}=0.05$ level. A higher educational attainment level was found to have a positive effect on participants' willingness to travel farther with a significance at the $\mathrm{p}=0.05$ level. The associated equation is shown (Equation 2.15).

Variables Coefficient Standard Error Significance 95\% Confidence Interval

|  |  |  |  | Lower | Upper |
| ---: | :--- | :--- | :--- | :--- | :--- |
| Intercept | 0.630 | 0.4726 | 0.183 | -0.297 | 1.556 |
| Round Trip Travel Time | -0.418 | 0.1486 | 0.005 | -0.709 | -0.127 |
| Total Travelers | -0.229 | 0.1125 | 0.042 | -0.449 | -0.008 |
| Educational Level | 0.491 | 0.2032 | 0.016 | 0.093 | 0.889 |

Table.2.11: Educator Training Binary Probit Outcome Model
Model output showing the three independent variables that had a significant effect on the willingness to travel farther for the educator training $n=83$ participants.

A Binary Probit Outcome Model equation for Educator Training participants shows the likelihood that individuals are willing to travel farther based on the predictor variables for actual round trip travel time, total travelers, and educational attainment level.


## Equation 2.15

Where $\beta$ is the vector of estimated coefficients, $x_{i}$ is the independent variable vector.

For the professional development category, the results of a binary probit outcome model for describing the effect two predictor variables have on a participants' willingness to travel farther to access environmental education were obtained. Based on the likelihood-ratio chisquare test, the model showed an improved fit for the data over the unconditional null, or intercept model. The chi-squared statistic was at 9.464 , above the critical value necessary for significance at the $p=0.009$ level. The estimated coefficients and standard errors for independent variables found to significantly ( $\mathrm{p}<.05$ ) affect the willingness to travel farther are listed in (Table.2.12) and include actual round trip travel time, and educational attainment level. The estimates for the effect of actual round-trip travel time were found to have a negative effect on participants' willingness to travel farther with significance exceeding the $\mathrm{p}=0.029$ level. A higher level of educational attainment was found to have a positive effect on participants' willingness to travel farther with a marginal significance at the $\mathrm{p}=0.054$ level. The associated equation is shown (Equation 2.16).

Variables Coefficient Standard Error Significance 95\% Confidence Interval

|  |  |  | Lower | Upper |  |
| ---: | :---: | :---: | :---: | :---: | :---: |
| Intercept | 0.449 | 0.5561 | 0.419 | -0.641 | 1.539 |
| Round Trip Travel Time | -0.218 | 0.0997 | 0.029 | -0.413 | -0.022 |
| Education | 0.317 | 0.1649 | -0.006 | 0.640 | 3.700 |

Table.2.12: Professional Development Binary Probit Outcome Model
Model output showing the three independent variables that had a significant effect on the willingness to travel farther for professional development $n=84$ participants.

A Binary Probit Outcome Model equation for Professional Development participants shows the likelihood that individuals are willing to travel farther based on the predictor variables for actual round trip travel time and educational attainment level.

## Equation 2.16

Where $\beta$ is the vector of estimated coefficients, $x_{i}$ is the independent variable vector.

### 2.4.5 Representativeness

A chi-square goodness-of-fit test was performed to examine the representativeness the following demographics in relation to Oklahoma's population proportions: estimated age, gender identity, and educational attainment level. Categorical membership proportions were compared to proportions that represented Oklahoma's population demographics according to the U.S. Census Bureau for the entire group of sampled participants in addition to the three environmental education categories: environmental stewardship, educator training and professional development.

The age distribution hypotheses are as follows:
$\mathbf{H}_{0}$ : The distribution of the observed age does not differ significantly from the expected age distribution for Oklahoma's population.
$\mathbf{H}_{1}$ : The distribution of the observed age differs significantly from the expected age distribution for Oklahoma's population.

A chi-square goodness of fit test was used to determine whether the representativeness of the age distribution of participants for the entire study sample in addition to the three educational
categories (environmental stewardship, educator training, professional development) was significantly representative of the age distribution of Oklahoma's population (18 to 24,25 to 34 , 35 to 44,45 to 54,55 to $64,65+$ ).

| Categories Tested | Chi-Square Goodness of Fit Test | Representative of Oklahoma's Population? |
| ---: | :--- | :---: |
| Entire Study | $\chi^{2}(5, \mathrm{~N}=358)=9.06, \mathrm{p}=0.11$ | yes |
| Environmental Stewardship | $\chi^{2}(5, \mathrm{~N}=191)=46.88, \mathrm{p}<0.001$ | no |
| Educator Training | $\chi^{2}(5, \mathrm{~N}=83)=120.65, \mathrm{p}<0.001$ | no |
| Professional Development | $\chi 2(5, \mathrm{~N}=84)=120.65, \mathrm{p}<0.001$ | no |

## Table.2.13: Chi-Square Goodness of Fit Table for Age Distribution

Table showing the results of the chi-square goodness of fit test to determine the representativeness in age distribution of pariticipants across the educational categories in the study to the age distribution for Oklahoma's population.

The educational attainment distribution hypotheses are as follows:
$\mathbf{H}_{0}$ : The distribution of the observed educational attainment does not differ significantly from the expected educational attainment distribution for Oklahoma's population.
$\mathbf{H}_{1}$ : The distribution of the observed educational attainment differs significantly from the expected educational attainment distribution for Oklahoma's population.

A chi-square goodness of fit test was used to determine whether the representativeness of the educational attainment distribution of participants for the entire study sample in addition to the three educational categories (environmental stewardship, educator training, professional development) was significantly representative of the educational attainment distribution of Oklahoma's population (high school diploma or less, associate's degree, bachelor's degree, graduate or professional degree).

| Categories Tested | Chi-Square Goodness of Fit Test | Representative of Oklahoma's Population? |
| ---: | :--- | :---: |
| Entire Study | $\chi^{2}(3, \mathrm{~N}=358)=588.17, \mathrm{p}<0.001$ | no |
| Environmental Stewardship | $\chi^{2}(3, \mathrm{~N}=191)=375.36, \mathrm{p}<0.001$ | no |
| Educator Training | $\chi 2(3, \mathrm{~N}=83)=70.98, \mathrm{p}<0.001$ | no |
| Professional Development | $\chi 2(3, \mathrm{~N}=84)=242.73, \mathrm{p}<0.001$ | no |

## Table.2.14: Chi-Square Goodness of Fit Table for Educational Attainment Distribution

Table showing the results of the chi-square goodness of fit test to determine the representativeness in educational attainment distribution of pariticipants across the educational categories in the study to the educational attainment distribution for Oklahoma's population.

The gender distribution hypotheses are as follows:
$\mathbf{H}_{\mathbf{0}}$ : The distribution of the observed reported gender does not differ significantly from the expected gender distribution for Oklahoma's population.
$\mathbf{H}_{1}$ : The distribution of the observed gender differs significantly from the expected gender distribution for Oklahoma's population.

A chi-square goodness of fit test was used to determine whether the representativeness of the gender identity distribution of participants for the entire study sample in addition to the three educational categories (environmental stewardship, educator training, professional development) was significantly representative of the gender distribution of Oklahoma's population (female, male, other).

| Categories Tested | Chi-Square Goodness of Fit Test | Representative of Oklahoma's Population? |
| ---: | :--- | :---: |
| Entire Study | $\chi^{2}(2, \mathrm{~N}=358)=47.30, \mathrm{p}<0.001$ | no |
| Environmental Stewardship | $\chi^{2}(2, \mathrm{~N}=191)=27.45, \mathrm{p}<0.001$ | no |
| Educator Training | $\chi 2(2, \mathrm{~N}=83)=51.52, \mathrm{p}<0.001$ | no |
| Professional Development | $\chi 2(2, \mathrm{~N}=84)=0.69, \mathrm{p}=0.71$ | yes |

## Table 2.15: Chi-Square Goodness of Fit Table for Gender Distribution

Table showing the results of the chi-square goodness of fit test to determine the representativeness in gender distribution of pariticipants across the educational categories in the study to the gender distribution for Oklahoma's population.

### 2.5 Discussion

The choice to use TCM as an approach for the valuation of environmental education is grounded in this specific application lessening some of the limitations that arise from the conventional use of TCM to value recreation. For example, the problem of multi-purpose trips on the way to a primary recreational destination of interest does not encounter the same limitations in this approach to applying TCM to environmental education. It has long been problematic in single-site recreational studies in addressing respondents who were also using their journey to attend other recreational sites on the way, thus, implying that the total travel costs were not solely attributed to the journey to the recreational site of interest. For this research, participants learning about the environment at convention booths or other multi-purpose locations were excluded from this study and survey were distributed to participants specifically seeking to spend time and money at an environmental education event.

Other limitations of the conventional application of TCM were addressed in this study. When valuing recreational sites, survey responses may be influenced by changes in quality of the site, whereas this factor was controlled for by seeking responses before the educational event to avoid allowing the perceived quality of the event to influence the willingness to travel farther. There were some limitations that were difficult to control for; although it is assumed that the journey for those travelling for work held little to no value, it is impossible to know if the approximately $63 \%$ of travelers seeking environmental education for personal reasons did not find some value in the journey, or made specific choices on what environmental education events to attend based on scenic qualities of the journey to the educational event. In terms of survey responses, it may be problematic from a behavior standpoint to infer actual behavior on the stated willingness to travel farther, because there is not a scenario related to this study in which
participants can be expected to prove that they would actually travel farther. Finally, behaviorally, it cannot be assumed that participants would respond in a similar manner to explicit registration fee increases as they would implicit changes to the opportunity cost of time for the journey length. This assumption may affect the way willingness to pay can be used to plan for registration fee changes versus venue location changes, which would affect a more implicit factors associated with the journey itself.

Assessing the uncertainties in the survey data and how this has affected the collective economic value of environmental education to the state of Oklahoma and the collective willingness to pay are important to understanding the accuracy of the quantified values. Since not all environmental education events in Oklahoma were able to participate in the study, and the research was conducted over the course of nine months, the participants travel costs represented only a portion the annual value of environmental education to the state of Oklahoma. These values are likely conservative and may be much greater than reported by this study. Additionally, the values may be conservative due to most of the events occurring within larger communities in Oklahoma, with a greater likelihood that most attendees would not have had to travel extensive distances and spend more to reach these locations as compared to events in more remote communities. Some of the choices in the analysis that would prevent an extreme overestimation of the values are described as follows.

Survey responses on open-ended questions were problematic at times due to participants misunderstanding the intended response. The issues encountered by open-ended survey questions have been previously studied, and it is known that open-ended questions sometimes result in responses not intended by the researchers, as compared to closed form questions (Schumann and Presser, 1979). For example, there was some difficulty with survey responses pertaining to the
question of how far one traveled, and how much time it took to travel to the environmental education event. Some participants answered the distance question with a metric of time, rather than distance, essentially providing the same answer twice. Obtaining the distance data in miles was then dependent on the city of origin question, which was creating an assumption that the participant was travelling from a city center. Google Maps was then used to estimate the distance travelled based on the information given. This may have created some biases in the calculation, but there were minimal participants that answered the distance question in this manner.

The question of income is considered a sensitive subject, and sometimes elicits a lowered response rate on surveys (Galobardes and Demarest, 2003). This issue was circumvented by asking participants about the job they worked, rather than their annual income. Data based on income averages from the participants' location of residence then inferred their estimated annual income, then was divided by the accepted 2,080 annual work hours to obtain hourly wage rates. Labor research has noted the range of full-time annual work hours to be in the range of 1,750 to 2,080 hours (Smith, 1983). To control for excessive hourly wage rates, which would increase the value of opportunity cost of time in quantifying travel costs, the upper limit was chosen, resulting in more conservative calculations.

Addressing the wage rates of the unconventional occupations, such as homemakers, the self-employed or retired, and the unemployed to account for opportunity cost of time was based on policy and economic research arguments in the literature. Some primary arguments for wage rates for homemakers was the equivalent value of wages for employment fields such as housekeeping, childcare, meal preparation and home caretaking for sick family members. Additionally, it has been argued that wage rates for homemakers are based on household production time, or the lost wages a homemaker endures for not entering the workforce (Sharpe
and Abdel-Ghany, 1997; Ireland, 1999). The arguments and values were varied by field of study, region and choice in approach, that the wage rates for those who reported homemaker as their occupation were assigned an annual income equivalent to the county averages for their place of residence according to the Oklahoma Department of Commerce data. For the purposes of consistency and representativeness, wage rates for the self-employed and retired were also addressed in a similar manner. For adults who graduated high school but reported that they were unemployed, Oklahoma's minimum wage rate was assigned for their opportunity cost of time according to the National Conference of State Legislatures (2020) state minimum wage data. There were very few participants who were over the age of 18 but had not yet graduated high school and reported that they were unemployed. Because there is limited literature addressing this, it was assumed that they were still living at home, and their opportunity cost of time was lumped with an assumed attending parent, making their cost of time $\$ 0$ per hour. These approaches to unclear opportunity cost of time for various levels of employment were intended to minimize excessive opportunity cost of time for travel cost calculations quantify more conservative estimates of travel cost. Aside from retirees, participants that fell into these categories were minimal.

Aside from participants costs, organizer costs were addressed in this research as well. Although the benefit cost ratio indicates that the average cost of providing environmental education to the public outweighs the average income generated from registration fees, it should be noted that the travel costs function as economic generators in terms of fuel and mileage costs, lodging costs and other associated travel costs. Additionally, the benefit of environmental education to the state is not limited by what participants pay and are willing to pay for environmental education. In addition to the social and psychological benefits provided to those
engaging in environmental education such as sense of place and the feeling of hope, there are actionable behaviors that result from environmental education that may provide economic benefits as well (Kudryavtsev and Krasny, 2012; Imbur, 2009). Environmental education cultivates awareness, which potentially translates into environmental action and changed behaviors, which could positively affect water quality or increase biodiversity (Ardoin et al., 2020). These ecological indicators, signaling environmental improvement, may provide economic benefit to citizens as well as local, state and federal government in terms of reducing the costs of remediating environmental degradation. Additionally, the value of an improved environment may translate to market value of homes. A tangible example of this effect is a hedonic pricing analysis indicating that ambient water quality variables such as total suspended solids and dissolved inorganic nitrogen significantly affect residential property values from both waterfront and non-waterfront properties (Poor et al., 2007). Although this study on the economic value of environmental education to the state of Oklahoma did not encompass the additional economic value of changed behaviors that result from environmental education, future studies building on this may provide a more comprehensive economic value of environmental education.

Three significant predictor variables indicating a participants' willingness to pay more to access environmental education included actual round-trip distance travelled, age, and estimated annual income. Participants who traveled longer distances were less likely to answer that they were willing to travel farther if the environmental education event was farther away. This may be an economic choice; individuals who travelled longer distances may have already spent what they were willing to spend in time and money or may also be a perception factor; with individuals who travelled shorter distance having a perception of time affluence. According to
the younger participants were more likely to be willing to travel farther for environmental education. This may be related to the age distributions for the three environmental education categories. Younger participants were more prevalent in educator training and professional development categories, where the event may or may not be a requirement for work, making it more imperative to attend despite distance. Participants over the age of 65 accounted for a high percentage of the environmental stewardship category, which was a generally non-job-related category, potentially making it less of a mandatory priority to attend. A higher income increased the likelihood of a participant's willingness to travel farther, which was expected due to the availability of income to be able to afford to travel farther.

For the three educational categories, there were similarities and differences amongst the predictors for willingness to pay more to access environmental education in comparison to the entire group of participants. The environmental stewardship group bore the most similarity to the entire group, with actual round-trip distance and age being two predictors that negatively impact participants' willingness to travel farther. This can be explained by the fact that this was the largest group out of the three, influencing the results of the model for the whole group. Educator training had three significant predictor variables indicating a participants' willingness to pay more to access environmental education and included actual travel time, number of carpoolers, and educational attainment level. A longer travel time indicated a lesser likelihood of a participant wanting to travel farther, and because travel time is related to travel distance, it may be assumed that this is for similar reasons that distance negatively impacted participants' willingness to travel farther for the whole group. A higher number of carpoolers made a participant less likely to want to travel farther. This may be due to a perceived requirement to attend these trainings, as carpooling may have been arranged by an employer, or the journey may
have been uncomfortable for some. Higher educational levels indicated a higher likelihood that an individual would be willing to travel farther, this may be due to higher educational levels being positively correlated with a higher salary according to the Oklahoma Public Schools Local Salary Schedules (2019), although not everyone in this category was a public educator. In the professional development category, there were two significant predictor variables indicating a participants' willingness to pay more to access environmental education, which included actual travel time and educational attainment level. Actual travel time negatively impacted the likelihood that an individual would be willing to travel farther, most likely for the same reasons actual travel distance did for the entire group surveyed. For this group, a higher educational attainment level positively impacted a participants' willingness to travel farther and may be positively correlated with more income readily available to spend on travel.

Demographics of participants and their representativeness of Oklahoma's population demographic features was of interest mainly for the purposes of planning and budgeting for environmental education in the state of Oklahoma. The demographic features of interest were age, gender identity, and educational attainment were observed, and estimated annual income was excluded because U.S. Census data related to income was for household income, not individual income. Despite this, income representativeness may be inferred by educational attainment because of the positive relationship between higher educational attainment and increased income has been the subject of scholarly research (Torpey, 2018). The age distribution for the respondents at the environmental education events was representative of Oklahoma's population age distribution. This indicates that individuals seeking environmental education for a variety of reasons not only represent Oklahomans of all ages, but this also indicates that there is an intergenerational demand for environmental education in the state. Gender distribution for the
entirety of the participants in this study was not representative of Oklahoma's gender distribution, which was expected because there have been numerous studies indicating that environmental concern, advocacy and pro-environmental behavior is generally exhibited by women (Arnocky and Stroink, 2010; Milfont and Sibley, 2016; Zelenzy et al., 2000). Despite this being the case for the entirety of the participants in this study, when grouped by educational event, the gender distribution for participants in the professional development category was statistically representative of Oklahoma's population gender distribution.

The demographic category that was not representative of Oklahoma's population in neither the entire sample nor the educational subcategories was the educational attainment demographic. Although some studies such as Pearson et al. (2018) have disputed that environmentalism is positively correlated with educational attainment by controlling for gender and political identity, environmental education-seekers in Oklahoma in this study tended to have some college education or hold college degrees. This is reflective of some studies that have associated environmentalism with higher educational attainment (McMillan et al., 1997). Because this study encompasses a sample of Oklahomans who pursue environmental education and may only represent certain groups in Oklahoma's population, the lack of representativeness in the educational category does not diminish the validity of this study. It simply provides insight on the demographics of those who attended the events of organizations that participated in the study, and understanding more about the demographics of Oklahomans who attend environmental education events would require more widespread sampling over a larger span of time. Based on the findings of this study, there is a need for generating interest and tailoring adult environmental education to suit the concerns of this social demographic that represents over one million Oklahomans. Because this group of Oklahomans accounts for a large proportion
of the state, it can be inferred that the behaviors of this group have significant influence Oklahoma's water quality, biodiversity, energy consumption and other environmentally relevant behaviors. Based on the results of this study, it is recommended from an economic and policy standpoint that there are budget allocations to provide environmental education to a wide range of social and demographic groups in Oklahoma, especially among adults who are not college educated, to continue to encourage environmental stewardship in the state of Oklahoma.

### 2.6 Conclusion

There have been numerous research studies surrounding the many benefits of environmental education to both society and the environment itself, but there is limited quantitative research providing an economic value specific to environmental education. This research addresses this gap by providing an expressed value of environmental education to the state of Oklahoma from a consumer, or participant perspective based on travel costs. In using the TCM, it was found that the average individual value of environmental education was $\$ 210$, with an individual WTP of $\$ 259$ Collectively, these 358 individuals at 25 events valued environmental education at $\$ 75,285$ and there was a collective WTP of $\$ 92,559$. While being one of the few studies utilizing TCM to value a cultural ecosystem service, this conservative estimate suggests the importance of environmental education not only for its benefit to the state of the environment, but also the economic benefit it provides to the state of Oklahoma. Based on the estimates of this study, if only $1 \%$ of Oklahoma's adult population engaged travelling to access environmental education, the collective value would be approximately $\$ 6.3$ million dollars with a collective WTP of $\$ 7.8$ million dollars. Although the research does not cover the entire scope of economic benefits derived from environmental education, it is anticipated that this expressed value of environmental education and the sociodemographic factors associated
with Oklahomans who seek environmental education will assist in informed decision-making for policymakers involved with the allocation of monetary resources for supporting environmental education programs. Furthermore, the results of this study are expected to inform the entities providing environmental education to the public on planning and managing environmental education curricula to reach a range of Oklahomans. Principally, support for environmental stewardship has the potential to improve Oklahoma's natural environment through practices that improve water quality and biodiversity, thus supporting the multi-billion dollar Oklahoma outdoor tourism industry. Evaluating the reach of environmental education and its economic impact offers a clear focus for future research in this growing field in environmental economics.

### 2.7 Chapter II: References

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## Chapter 3: Broader Perspectives on this Research

This thesis was completed as a requirement of the Master of Science in Environmental studies at the University of Oklahoma. The goal of the Environmental Studies program is to "provide a balance between the Sciences and Humanities in order to prepare the future environmental problem solvers with the ability to communicate the importance of taking action and the continued appreciation for the natural world we depend on. " I began the graduate program in Environmental Studies at The University of Oklahoma as the only member of the inaugural graduate level class for this program. As the graduate program in Environmental Studies no longer accepting applicants, with the fulfillment of this thesis and the required coursework, I am completing this degree program as the only student to earn a graduate degree in Environmental Studies from the University of Oklahoma to date. The following chapter will reflect on this research in the context of how it broadly relates to environmental studies, the significant lessons learned in this research, and how this research may be extended to future studies.

### 3.1 The Relevance of This Research in Environmental Studies

The purpose of this thesis was to demonstrate the culmination of scholarly knowledge obtained through the completion of a master's level curriculum in Environmental Studies. Environmental Studies is considered a field of broad subject matter that unifies the sciences and the humanities surrounding environmental issues. Given that is the case, it would be impossible for a single work to encompass all that is relevant to Environmental Studies. Nevertheless, this research, utilizing scientific and mathematical methods, employing approaches familiar to the
social sciences, and providing recommendations in education and policy in the state of Oklahoma is intended to embody the spirit of the mission of Environmental Studies.

What is Environmental Studies? Some have argued that Environmental Studies cannot be defined, and that is not a singular discipline, but instead a multidisciplinary area of study aimed at preparing its scholars to solve environmental issues related to health, nature and quality of life (Soule and Press, 1998). The University of Oklahoma provides a description of the mission of the Environmental Studies program as the "balance between the Sciences and Humanities in order to prepare the future environmental problem solvers with the ability to communicate the importance of taking action and the continued appreciation for the natural world we depend on." Scholars in education have contended that students completing programs in Environmental Studies should possess competency in the following areas: quantitative ecology and biology; atmospheric physics and chemistry; contributors to pollution and degradation of the hydrosphere; the use of economic arguments to solve environmental problems; concepts of law, policy and regulation; field experience and connection with nature; and lastly, the ability to pursue continuing education such as graduate research (Soule and Press, 1998). These knowledge recommendations lend themselves to a broad curriculum that touches on each subject area. The research for this thesis encompasses the use of economic arguments to solve environmental problems, particularly those in funding and policy surrounding environmental education.

In using economic arguments to solve environmental problems, a majority of my proficiencies surrounding this aspect of environmental studies comes from the completion of the thesis research on Using the Travel Cost Method to Value Environmental Education in the State of Oklahoma, and from a graduate level statistics course. The research for this thesis utilized methods in the field of environmental economics to argue the need for continued support for
environmental education in the state of Oklahoma. Economics, particularly econometrics, is rooted in statistical knowledge which can be applied to research questions in this field. The ultimate goal of this thesis research was to create a data-driven case for policy and budget surrounding environmental education in Oklahoma. The state is well-known for its natural beauty and abundant natural resources, but it is not necessarily known for being in a politically and culturally pro-environmental region of the United States (Mazur and Welch, 1999). Despite this, the research has found that there are many Oklahomans seeking environmental education, which is known to result in behaviors that improve the state of the environment and reduce degradation through environmental stewardship. The research also found that those in Oklahoma seeking environmental education generally have some college education, yet Oklahoma's population consists of over a million adults who have a high school education or less. This gap in environmental outreach to this demographic of Oklahomans is one that should be addressed. A quarter of Oklahoma's population is contributing to the environment in a significant way, yet there is a lack of these individuals present at environmental education events. It is my recommendation that the state look into garnering interest in environmental stewardship by appealing to this demographic. The work of some in environmental stewardship is necessary, but ideally, all Oklahomans should be working toward an improved environment.

### 3.2 Lessons Learned in Research

In reflecting on the lessons learned during the research process for this thesis, there was much that I learned that will prove useful in future research endeavors. In assessing the development of the project overall, it progressed relatively smoothly, yet there were some key elements and methods that may have been managed more efficiently. The following will overview the lessons learned throughout the timeline of this project.

The project, Using the Travel Cost Method to Value Environmental Education in the State of Oklahoma, had its beginnings in the Fall of 2018. Because the project encompasses the use of data from human subjects, this project was subject to Institutional Review Board (IRB) Approval. Although obtaining this data did not pose any direct harm or benefit to human subjects, the research was still subject to ensuring the participants and the privacy of participants was protected throughout the duration of the research. The surveys that were to be distributed had to be approved, and all members of the research team had to obtain training to ensure we all understood the regulations surrounding handling survey data. Obtaining approval can be a lengthy process, which it was, but in terms of project management, the time between the initial idea phase and the survey distribution phase was used for planning and literature review. Although this time was spent gaining a breadth of knowledge surrounding environmental economics, the travel cost method, and econometrics, it is not until the methods of research are applied, that the researcher really understands how the project will progress and coalesce.

Once IRB approval was obtained in the late spring of 2019, this was the time for reaching out to partners across the state to begin distributing surveys. Most of this occurred during the summer, and this was by far the most difficult portion of managing this project. Summer is a time for vacation, so obtaining immediate responses was not an easy task. I was able to create a database of the communication status with potential partners, and the key to obtaining cooperation was persistence. Managing a calendar of future environmental education events to distribute surveys at was a useful tool, and surprisingly, social media was the most reliable way to seek out and contact potential partners, aside from professional connections. This phase also enabled me to understand the importance of creating detailed instructions and maintaining good communication with partners to ensure that data collection was complete and consistent.

Once surveys began coming back, another obstacle was encountered. A fact of life in the social sciences seems to be that working with human subjects can produce incomplete data. A specific example includes those who misinterpreted the questions "how long (in hours)?" and "how far (in miles)?" it took for travel. This may be a cultural phenomenon; some answer "how far" in a metric of time, rather than distance. It is possible that I could have addressed these questions more clearly in the survey design, but it was not possible to anticipate this response from very few of the participants. This led me to further explore survey design literature, and there unfortunately was not a lot of information regarding this particular issue. In ensuring the data was complete, this led to me having to make assumptions about the distance travelled based on the metric of time given in conjunction with the given point of origin for the participants. Aside from this one issue, the survey design was relatively solid. A point of concern in the planning phase was the sensitive survey question regarding income, but this was solved by instead asking for occupation and education, which led to inferences about income based on this information and their area of residence.

A major part of completing this project was learning to manage relatively large amounts of data using excel. Although there may have been more efficient ways to manage the data, the job was still taken care of, despite it being tedious and time consuming. Data management, although daunting, is best done through being detail-oriented and consistent in data entry. For 358 observations with 13 variables each, keeping track of data as it came in from environmental education events was essential to keeping up with the project timeline. Throughout data analysis, there were few incorrect data entries discovered, but through this research, I have learned to spot questionable outcomes. Identifying misentered data usually occurred because of an extreme
outlier, or an outcome that didn't make sense. Understanding how to quickly spot mistakes is one of the most valuable lessons learned from completing this research project.

Finally, one of the most applicable skills gained from this research experience was in learning how to independently manage a project, which is a skill that can be transferred to both a career in industry and academia. It is a personal goal to pursue a career in academia and managing this project has given me the skills needed to pursue a higher degree and complete a longer-term project. One of the most important areas of growth that resulted from this project was the transformation into "researcher." This project presented several concepts that were outside of what I had learned in the classroom, but to approach the research question and apply this method in a novel way, there were aspects that were not as straightforward. This was especially the case for developing an econometric model relevant to this application of TCM. Traditionally, TCM relies on visitation rates to a singular recreational site, and estimates predictor variables associated with visitation rates. Because this project did not concern a singular site, but rather sites throughout the state of Oklahoma, there were no visitation rates to work with. Applying an econometric model to this data was something that I took time to think about and solve. One of the major distinctions made in the data was the difference between what participants actually paid, and what they were willing to pay to access environmental education. This led me to the idea that the econometric model should encompass understanding the predictor variables associated with an individual's likelihood of a willingness to pay more for environmental education. The appropriate model to apply was the binary probit outcome model, which did find statistically significant variables associated with an individual's willingness to pay more for environmental education.

### 3.3 Future Directions for This Research

The following will discuss the desired outcomes and directions for continuation of this research. Although it is impossible to know how the results of this research project will inform policy, or make an impact on the amount of environmental education available to the public in the state of Oklahoma, as a researcher, there are goals for the influence a project will have in real world applications.

### 3.3.1 Environmental Education Budget and Policy in the State of Oklahoma

Environmental concern is a behavior often tied to the pursuit of environmental education, and environmental concern has been found to be tied to several sociodemographic predictors. One is gender; women tend to have higher levels of environmental concern, and another is higher socioeconomic status or education, although some studies dispute this (Arnocky and Stroink, 2010; McMillan et al., 1997; Milfont and Sibley, 2016; Pearson et al., 2018; Zelenzy et al., 2000;). Based on the results of this study, a majority of the participants in this study had at least some college, yet $44.46 \%$ of adult Oklahomans have a high school diploma or less. This means that the over one million adult Oklahomans who are high school educated or less, are not statistically represented as seeking environmental education based on this study. This is nearly a quarter of Oklahoma's population that may not be receiving the educational tools they need to engage in environmental stewardship. Although this study is only sample of those in Oklahoma who may be seeking out environmental education, understanding where environmental education is needed is important for addressing environmental issues as a society. This presents a need in budget, outreach, and policy in Oklahoma to provide to access environmental education events that appeal to the masses in Oklahoma, particularly those who have a high school degree or less.

Oklahoma's history illustrates past contentions between environmental degradation and human health, with the most famous of these instances being the Dust Bowl, primarily affecting the western portions of the state. Appealing to this rich history of Oklahomans overcoming these trials and engaging in more sustainable agricultural practices and soil conservation have renewed the state's environment from what it was during the Dust Bowl. Bridging these connections with Oklahomans, and expressing how environmental stewardship, and our interactions with nature can directly impact our health and well-being may be the first step in garnering interest from a wider demographic in environmental education and stewardship practices.

Fast forward to present-day Oklahoma. Oklahomans of all backgrounds enjoy the many lakes and waterways throughout the state, particularly during the hot summer days. Protecting these waterways is not only the job of a few, but of all that inhabit the state, because wherever a person goes, they are in a watershed. Tourism and recreation is a multi-billion dollar industry that all Oklahomans benefit from. By creating an understanding through environmental education and outreach to protect these waterways, the goal would be to get more Oklahomans to gain interest in environmental education. There has been some research suggesting that sense of place and place attachment may be a contributing factor to behaviors of environmental concern. Connecting this investment in a favorite recreational spot to environmental stewardship may be a way to make environmental education appealing to Oklahomans at large.

There have been several policy barriers to environmental education in the state of Oklahoma, some of which is derived from the political climate of the region (Mazur and Welch, 1999). Educational policy from the federal level has also impacted the level of environmental awareness Oklahomans have. Although the No Child Left Behind Act, a controversial federal education act, ended in 2015, the new policy, Every Student Succeeds Act replaced it, giving the
states more dominion over academic curriculum (Fránquiz and Ortiz, 2016). Despite this change, the Oklahoma Academic Standards (2015) in science do not require a course dedicated to environmental science, or ecology as a need for graduation. This means that Oklahomans are graduating high school with formal environmental knowledge only based on whether an individual educator or school district decides to incorporate these concepts.

Because this research focuses largely on the economic aspect of environmental education in the state of Oklahoma, it is important to address the state budget. Some agencies that provide environmental education may be subject to fluxes in state budget allocations, potentially affecting their ability to provide environmental education in the state of Oklahoma. Based on the results of this study, there is a tangible economic demand for environmental education by the citizens of the state, which should influence policymakers in their future decisions regarding the budgets for state agencies that provide environmental education. Furthermore, the Oklahoma legislature should be enhancing environmental education in the state, not only because of the economic benefit and citizen demand, but also because of the far-reaching positive effects environmental stewardship has on the state of the natural environment. Maintaining a healthy environment in Oklahoma will produce many economic benefits, including but not limited to a robust outdoor recreation and tourism industry, the savings generated from preventing environmental degradation, and overall citizen health.

### 3.3.2 Future Research

As anthropogenic environmental impacts become more evident through energy and natural resource use, impaired water quality, and loss of biodiversity, fostering environmental stewardship is becoming more important to mitigating these issues. Environmental education is acknowledged as a factor that influences pro-environmental behavior and stewardship through increased awareness, knowledge and informed solutions (Merenlender et al., 2016). Through the positive impacts environmental education provides on a variety of fronts, it may be argued that environmental education is highly valuable, but what is the quantified value of this education from the consumer or participant standpoint? This value has been economically quantified in the state of Oklahoma using TCM, with the costs associated with travelling to adult-based environmental education events being a proxy for what people pay to access environmental education. Although this is a novel application of TCM and addresses a gap in the literature regarding the economic value of environmental education, it only provides a limited and conservative value of environmental education and its economic reach. There is still limited information surrounding the value of environmental education outside of its social and ethical value, its ability to increase cognitive levels and improve individual behavior.

To expand upon this research and holistically answer the question of the "valuation" of environmental education to the state of Oklahoma would require data outside of travel costs and the expenditures associated with attending environmental education events. A more complete valuation of environmental education is derived from the changed behavior and implementation of Best Management Practices (BMPs) by participants who attend these events. Because a primary goal of environmental education is to ultimately improve the state of the environment and reduce negative anthropogenic impacts, a measure of its value may be found in how
participants altered their interactions with the environment based on what they learned at an educational event. The effect that environmental education has on the choices and environmentally conscious decision-making of participants should be included in a comprehensive valuation of environmental education. This valuation may be measured with a follow-up report from participants and how they implemented what they learned into their personal or work endeavors. This may translate into the monetary value of these behavioral changes well as a more intangible value of how environmental education effects the general well-being of society and the environment. Although it may be difficult to obtain follow-up reports from participants long after the completion of an environmental education event, perhaps an end-of-instruction survey could be given that could help identify the likelihood of changed behavior or implementation of what was learned by the participant.

This research also lends itself to becoming a point of reference for future studies that expand on the valuation of environmental education. The objective of a future study would twofold; first, continue the previously mentioned study in a diverse array of states through partnerships with entities providing environmental education in a variety of localities. This will allow the researcher to understand how the value of environmental education may or may not be varied throughout different regions in the U.S. and will allow the researcher to draw more insightful connections regarding sociodemographic predictors for those who choose to pay to access environmental education. Second, the researcher will gather a group of environmental education participants to observe how the resultant changed behaviors has impacted the participant financially, and impacted the market value of goods such as property values and nearby recreation. Third, from a budget and policy standpoint, the value of these changed behaviors will be evaluated through the potential impact they have on state and locally funded
entities such waterways, recreational sites, and other communal resources that provide ecosystem services. It is proposed that the non-use value of environmental education may be quantified through the money saved for a site not becoming an environmentally degraded site, such as a polluted river or toxic superfund site. Examining the costs of unbridled environmental degradation through modelling may give insight into a world without environmental education and stewardship, revealing its real economic value through the money saved by avoiding largescale remediation projects.

To gain a more comprehensive assessment of the economic value environmental education it is proposed that a 3-year longitudinal expansion of the research surrounding quantifying the value of environmental education is the focus of future studies. A study of this nature is expected to provide benefit to society at large through providing budgetary justification for providing free or low-cost environmental education to the public because of its quantified economic benefits. This will in turn benefit the state of the environment through the changed behaviors resultant of access to adult-targeted environmental education.

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## Appendices

## Appendix A

The following shows an example of the survey questionnaires distributed to the organizers and participants at the 25 environmental education events as a part of this study.

## Participant Survey

Date $\qquad$ Event \& Location $\qquad$
Thank you for taking part in this survey, please answer each question as accurately as possible.

1. What is your city and county of residence? $\qquad$
2. How far did you travel to be here (miles)? $\qquad$
3. How much time did it take for you to travel here (hours/minutes)? $\qquad$
4. How much farther would you be willing to travel to attend this event? $\qquad$
5. How many people did you travel with? (Please circle one)

| 0 | 1 | 2 | 3 | 4 | 5 | other |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

6. What was the registration fee for this event? $\qquad$
7. How many hours will you be here? $\qquad$
8. How much did you spend on lodging to attend this event? $\qquad$
9. Are you attending this event as a part of your job? (circle)

Y N
10. What is your gender? (circle)

M F
11.What is your age? (circle)
$<18$
18-25
26-35
36-45
46-55
56-65
$>65$
12.What is your level of education? (circle)

High School Associate's Bachelor's Graduate School Other___
13.What is your job classification? (circle)

| Student | Retired | Not Currently Employed (not retired) | General manager |
| :--- | :--- | :--- | :--- |
| Civil Engineer | Farmer/Rancher | Environmental Scientist | Geoscientist |
| Laborer | Hydrologist | Maintenance Worker | Other |

## Figure $\dot{A} .1$ Participant Survey

Date: $\qquad$ Event Name \& Location: $\qquad$
Thank you for taking part in this survey, please answer each question as accurately as possible.

1. Please list a value for direct expenditures related to this event such as venue costs, lodging, rentals, etc? $\qquad$
2. How much time did this event take to plan and implement for each person involved with event organization? $\qquad$
3. How far (miles) did each organizer travel for this event (list each organizer separately)?
$\qquad$
$\qquad$
4. How much time (hours) did it take to travel to the event (list each organizer separately)?
$\qquad$
$\qquad$
5. What is the duration of the event (in hours)? $\qquad$
6. How many participants registered for and attended (if different) this event?
$\qquad$
7. What was the registration cost for this event? $\qquad$
8. Please list a recommended hourly rate for each organizer (optional).

## Appendix B

There were eight organizations that participated in distributing surveys at their environmental education events. The following is a summary of the demographic and outcomes for the collective events for each of the eight organizations that participated in distributing surveys. Organization 2 co-hosted two of their events with Organization 1, which is why two events are represented twice between the results for Organization 1 and 2. For planning purposes, this kind of information may be distributed to assist organizers in understanding what participants pay and are willing to pay to access environmental education as well as how participants react to cost adjustments in primary versus trip costs.

## Organization 1

This represents the 12 events hosted by this organization primarily in the Environmental
Stewardship and Professional Development Categories. Of the $\mathrm{n}=115$ participants, $55 \%$ were attending for personal reasons, and 45\% were attending for work-related reasons. The figures relevant to these categories are included in the report for this organization.


Figure B.1 Gender Demographcis for Organization 1 Events


Figure B. 2 Age Demographics for Organization 1 Events


Figure B. 3 Education Demographics for Organization 1 Events

| Variable | Units | Mean | Standard Deviation |
| ---: | :---: | :---: | :---: |
| Actual Travel Cost | U.S. \$ | 302 | 300.4 |
| Willingness to Pay | U.S. \$ | 366 | 382.2 |
| Actual Round Trip Distance | miles | 69 | 96.2 |
| Actual Round Trip Travel Time | hours | 1.36 | 1.5 |
| Willingness Round Trip Distance | miles | 177 | 266.6 |
| Total Travelers |  | 1.9 | 0.9 |
| Weighted Cost Per Mile | U.S. $\$$ | 0.38 | 0.2 |
| Registration Fee | U.S. $\$$ | 96 | 78.9 |
| Time at Event | hours | 5.8 | 5.4 |

## Table B. 1 Organization 1 Results

There were 10 events and 2 co-hosted events (with Organization 2) for a total of 12 events with $n=115$ participants.


Figure B. 4 Environmental Stewardship Primary and Trip Costs
For all participants in the environmental stewardship category of the entire study $n=191$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $86 \%$ of the costs and the trip costs accounted for $14 \%$ of the costs for all participants in this category.


Figure B.5 Professional Development Primary and Trip Costs
For all participants in the environmental stewardship category of the entire study $n=84$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $82 \%$ of the costs and the trip costs accounted for $18 \%$ of the costs for all participants in this category.


Figure B. 6 Traveling for Personal Reasons Primary and Trip Costs
For all participants traveling for personal reasons in the entire study $n=226$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $83 \%$ of the costs and the trip costs accounted for $17 \%$ of the costs for all participants in this category.


Figure B. 7 Traveling for Work Primary and Trip Costs
For all participants traveling for personal reasons in the entire study $n=226$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $80 \%$ of the costs and the trip costs accounted for $20 \%$ of the costs for all participants in this category.

## Organization 2

This represents the 2 events hosted by this organization primarily in the Educator Training and Professional Development Categories. Of the n=14 participants, 29\% were attending for personal reasons, and $71 \%$ were attending for work-related reasons. The figures relevant to these categories are included in the report for this organization.


Figure B. 8 Gender Demographics for Organization 2 Events


Figure B. 9 Age Demographics for Organization 2 Events


Figure B. 10 Education Demographics for Organization 2 Events

| Variable | Units | Mean | Standard Deviation |
| ---: | :---: | :---: | :---: |
| Actual Travel Cost | U.S. $\$$ | 571 | 469.6 |
| Willingness to Pay | U.S. $\$$ | 778 | 662.5 |
| Actual Round Trip Distance | miles | 167 | 123.9 |
| Actual Round Trip Travel Time | hours | 2.9 | 1.7 |
| Willingness Round Trip Distance | miles | 415 | 373.6 |
| Total Travelers |  | 1.9 | 1.1 |
| Weighted Cost Per Mile | U.S. $\$$ | 0.4 | 0.2 |
| Registration Fee | U.S. $\$$ | 114 | 63.3 |
| Time at Event | hours | 9.0 | 7.3 |

## Table B. 2 Organization 2 Results

There 2 co-hosted events (with Organization 1) with $n=14$ participants.


Figure B. 11 Educator Training Primary and Trip Costs
For all participants in the environmental stewardship category of the entire study $n=83$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $69 \%$ of the costs and the trip costs accounted for $31 \%$ of the costs for all participants in this category.


Figure B. 12 Professional Development Primary and Trip Costs
For all participants in the environmental stewardship category of the entire study $n=84$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $82 \%$ of the costs and the trip costs accounted for $18 \%$ of the costs for all participants in this category.


Figure B.13 Traveling for Work Primary and Trip Costs
For all participants traveling for personal reasons in the entire study $n=226$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $80 \%$ of the costs and the trip costs accounted for $20 \%$ of the costs for all participants in this category.

## Organization 3

This represents the 2 events hosted by this organization primarily in the Environmental Stewardship and Professional Development Categories. Of the $\mathrm{n}=17$ participants, $41 \%$ were attending for personal reasons, and $59 \%$ were attending for work-related reasons. The figures relevant to these categories are included in the report for this organization.


Figure B. 14 Gender Demographics for Organization 3 Events


Figure B. 15 Age Demographics for Organization 3 Events


Figure B.16 Education Demographics for Organization 3 Events

| Variable | Units | Mean | Standard Deviation |
| ---: | :---: | :---: | :---: |
| Actual Travel Cost | U.S. $\$$ | 60 | 25.6 |
| Willingness to Pay | U.S. $\$$ | 92 | 58.2 |
| Actual Round Trip Distance | miles | 20 | 20.3 |
| Actual Round Trip Travel Time | hours | 0.6 | 0.3 |
| Willingness Round Trip Distance | miles | 80 | 92.7 |
| Total Travelers |  | 2.41 | 1.2 |
| Weighted Cost Per Mile | U.S. $\$$ | 0.3 | 0.2 |
| Registration Fee | U.S. $\$$ | 0 | 0.00 |
| Time at Event | hours | 1.59 | 0.51 |

## Table B. 3 Organization 3 Results

There were 2 events with $n=17$ participants.


Figure B. 17 Environmental Stewardship Primary and Trip Costs
For all participants in the environmental stewardship category of the entire study $n=191$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $86 \%$ of the costs and the trip costs accounted for $14 \%$ of the costs for all participants in this category.


Figure B. 18 Professional Development Primary and Trip Costs
For all participants in the environmental stewardship category of the entire study $n=84$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $82 \%$ of the costs and the trip costs accounted for $18 \%$ of the costs for all participants in this category.


Figure B.19 Traveling for Personal Reasons Primary and Trip Costs
For all participants traveling for personal reasons in the entire study $n=226$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $83 \%$ of the costs and the trip costs accounted for $17 \%$ of the costs for all participants in this category.


Figure B.20 Traveling for Work Primary and Trip Costs
For all participants traveling for personal reasons in the entire study $n=226$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $80 \%$ of the costs and the trip costs accounted for $20 \%$ of the costs for all participants in this category.

## Organization 4

This represents the 1 event hosted by this organization primarily in the Professional
Development Category. Of the $\mathrm{n}=21$ participants, $14 \%$ were attending for personal reasons, and $86 \%$ were attending for work-related reasons. The figures relevant to these categories are included in the report for this organization.


Figure B. 22 Gender Demographics for Organization 4 Events


Figure B.23: Age Demographics for Organization 4 Events


Figure B.24: Education Demographics for Organization 4 Events

| Variable | Units | Mean | Standard Deviation |
| ---: | :---: | :---: | :---: |
| Actual Travel Cost | U.S. $\$$ | 101 | 35.1 |
| Willingness to Pay | U.S. $\$$ | 190 | 106.0 |
| Actual Round Trip Distance | miles | 17 | 31.3 |
| Actual Round Trip Travel Time | hours | 0.5 | 0.65 |
| Willingness Round Trip Distance | miles | 144 | 131.4 |
| Total Travelers |  | 1.7 | 0.78 |
| Weighted Cost Per Mile | U.S. $\$$ | 0.4 | 0.17 |
| Registration Fee | U.S. $\$$ | 4 | 8.1 |
| Time at Event | hours | 1.5 | 0.29 |

## Table B.4: Organization 4 Results

There was 1 event with $n=21$ participants.


Figure B.25: Professional Development Primary and Trip Costs
For all participants in the environmental stewardship category of the entire study $n=84$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $82 \%$ of the costs and the trip costs accounted for $18 \%$ of the costs for all participants in this category.


Figure B.26: Traveling for Work Primary and Trip Costs
For all participants traveling for personal reasons in the entire study $n=226$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $80 \%$ of the costs and the trip costs accounted for $20 \%$ of the costs for all participants in this category.

## Organization 5

This represents the 2 events hosted by this organization primarily in the Educator Training Category. Of the $\mathrm{n}=14$ participants, $14 \%$ were attending for personal reasons, and $86 \%$ were attending for work-related reasons. The figures relevant to these categories are included in the report for this organization.


Figure B.27: Gender Demographics for Organization 5 Events


Figure B.28: Age Demographics for Organization 5 Events


Figure B.29: Education Demographics for Organization 5 Events

| Variable | Units | Mean | Standard Deviation |
| ---: | :---: | :---: | :---: |
| Actual Travel Cost | U.S. $\$$ | 214 | 93.9 |
| Willingness to Pay | U.S. $\$$ | 288 | 160.5 |
| Actual Round Trip Distance | miles | 105 | 77.4 |
| Actual Round Trip Travel Time | hours | 2.1 | 1.35 |
| Willingness Round Trip Distance | miles | 206 | 192.6 |
| Total Travelers |  | 1.7 | 0.73 |
| Weighted Cost Per Mile | U.S. \$ | 0.4 | 0.16 |
| Registration Fee | U.S. $\$$ | 0 | 0.0 |
| Time at Event | hours | 6.4 | 0.50 |

## Table B.5: Organization 5 Results

There were 2 events with $n=14$ participants.


Figure B.30: Educator Training Primary and Trip Costs
For all participants in the environmental stewardship category of the entire study $n=83$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $69 \%$ of the costs and the trip costs accounted for $31 \%$ of the costs for all participants in this category.


Figure B.31: Traveling for Work Primary and Trip Costs
For all participants traveling for personal reasons in the entire study $n=226$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $80 \%$ of the costs and the trip costs accounted for $20 \%$ of the costs for all participants in this category.

## Organization 6

This represents the 2 events hosted by this organization primarily in the Educator Training Category. Of the $\mathrm{n}=29$ participants, $34 \%$ were attending for personal reasons, and $66 \%$ were attending for work-related reasons. The figures relevant to these categories are included in the report for this organization.


Figure B.32: Gender Demographics for Organization 6 Events


Figure B.33: Age Demographics for Organization 6 Events


Figure B.34: Education Demographics for Organization 6 Events

| Variable | Units | Mean | Standard Deviation |
| ---: | :---: | :---: | :---: |
| Actual Travel Cost | U.S. $\$$ | 362 | 110.4 |
| Willingness to Pay | U.S. $\$$ | 390 | 109.9 |
| Actual Round Trip Distance | miles | 85 | 97.1 |
| Actual Round Trip Travel Time | hours | 1.4 | 1.4 |
| Willingness Round Trip Distance | miles | 140 | 97.8 |
| Total Travelers |  | 1.3 | 0.55 |
| Weighted Cost Per Mile | U.S. $\$$ | 0.5 | 0.14 |
| Registration Fee | U.S. $\$$ | 24 | 4.9 |
| Time at Event | hours | 12.8 | 3.92 |

## Table B.6: Organization 6 Results

There were 2 events with $n=29$ participants.


Figure B.35: Environmental Stewardship Primary and Trip Costs
For all participants in the environmental stewardship category of the entire study $n=191$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $86 \%$ of the costs and the trip costs accounted for $14 \%$ of the costs for all participants in this category.


Figure B.36: Educator Training Primary and Trip Costs
For all participants in the environmental stewardship category of the entire study $n=83$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $69 \%$ of the costs and the trip costs accounted for $31 \%$ of the costs for all participants in this category.


Figure B.37: Traveling for Personal Reasons Primary and Trip Costs
For all participants traveling for personal reasons in the entire study $n=226$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $83 \%$ of the costs and the trip costs accounted for $17 \%$ of the costs for all participants in this category.


Figure B.38: Traveling for Work Primary and Trip Costs
For all participants traveling for personal reasons in the entire study $n=226$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $80 \%$ of the costs and the trip costs accounted for $20 \%$ of the costs for all participants in this category.

## Organization 7

This represents the 2 events hosted by this organization primarily in the Environmental
Stewardship Category. Of the $\mathrm{n}=93$ participants, $100 \%$ were attending for personal reasons. The figures relevant to these categories are included in the report for this organization.


Figure B.39: Gender Demographics for Organization 7 Events


Figure B.40: Age Demographics for Organization 7 Events


Figure B.41: Education Demographics for Organization 7 Events

| Variable | Units | Mean | Standard Deviation |
| ---: | :---: | :---: | :---: |
| Actual Travel Cost | U.S. \$ | 170 | 132.2 |
| Willingness to Pay | U.S. $\$$ | 198 | 132.5 |
| Actual Round Trip Distance | miles | 35 | 102.4 |
| Actual Round Trip Travel Time | hours | 0.9 | 1.82 |
| Willingness Round Trip Distance | miles | 84 | 133.9 |
| Total Travelers |  | 1.5 | 0.67 |
| Weighted Cost Per Mile | U.S. $\$$ | 0.5 | 0.16 |
| Registration Fee | U.S. $\$$ | 24 | 54.1 |
| Time at Event | hours | 4.8 | 2.18 |

Table B.7: Organization 7 Results
There were 2 events with $n=93$ participants.


Figure B.42: Environmental Stewardship Primary and Trip Costs
For all participants in the environmental stewardship category of the entire study $n=191$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $86 \%$ of the costs and the trip costs accounted for $14 \%$ of the costs for all participants in this category.


Figure B.43: Traveling for Personal Reasons Primary and Trip Costs
For all participants traveling for personal reasons in the entire study $n=226$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $83 \%$ of the costs and the trip costs accounted for $17 \%$ of the costs for all participants in this category.

## Organization 8

This represents the 4 events hosted by this organization primarily in the Educator Training Category. Of the $\mathrm{n}=69$ participants, $70 \%$ were attending for personal reasons and $30 \%$ were attending for work-related reasons. The figures relevant to these categories are included in the report for this organization.


Figure B.44: Gender Demographics for Organization 8 Events


Figure B.45: Age Demographics for Organization 8 Events


Figure B.46: Education Demographics for Organization 8 Events

| Variable | Units | Mean | Standard Deviation |
| ---: | :---: | :---: | :---: |
| Actual Travel Cost | U.S. \$ | 117 | 64.8 |
| Willingness to Pay | U.S. $\$$ | 161 | 122.5 |
| Actual Round Trip Distance | miles | 58 | 61.6 |
| Actual Round Trip Travel Time | hours | 1.2 | 1.03 |
| Willingness Round Trip Distance | miles | 132 | 158.8 |
| Total Travelers |  | 2.0 | 1.47 |
| Weighted Cost Per Mile | U.S. \$ | 0.4 | 0.19 |
| Registration Fee | U.S. $\$$ | 20 | 0.0 |
| Time at Event | hours | 6.1 | 0.27 |

Table B.8: Organization 8 Results
There were 4 events with $n=69$ participants.


Figure B.47: Educator Training Primary and Trip Costs
For all participants in the environmental stewardship category of the entire study $n=83$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $69 \%$ of the costs and the trip costs accounted for $31 \%$ of the costs for all participants in this category.|


Figure B.48: Traveling for Personal Reasons Primary and Trip Costs
For all participants traveling for personal reasons in the entire study $n=226$ this shows the primary costs (registration fees, lodging costs, and time cost of event) and trip costs (mileage, time cost of trip, tolls). The primary costs accounted for $83 \%$ of the costs and the trip costs accounted for $17 \%$ of the costs for all participants in this category.

## Appendix C

The following shows the graphs for the binary probit outcome model for the entire study of $\mathrm{n}=358$ participants. They show three scenarios, where either distance, age or income is kept constant, but other the other two predictor variables are input in a combination of scenarios.


Figure C.1: Graph showing the binary probit outcome model equation where distance is the variable factor. For each curve, age and income were kept constant, with Q1: First Quartile, Q2: Second Quartile, and Q3: Third Quartile.


Figure C.2: Graph showing the binary probit outcome model equation where age is the variable factor. For each curve, distance and income were kept constant, with Q1: First Quartile, Q2: Second Quartile, and Q3: Third Quartile.


Figure C.3: Graph showing the binary probit outcome model equation where income is the variable factor. For each curve, distance and age were kept constant, with Q1: First Quartile, Q2: Second Quartile, and Q3: Third Quartile.

## Appendix D

The following includes the data from 25 environmental education events.


| Event 1 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (min) |
| 10 | 0.25 | 0.5 |
| 10 | 0.166666667 | 0.333333333 |
| 6 | 0.166666667 | 0.333333333 |
| 6 | 0.166666667 | 0.333333333 |
| 10 | 0.166666667 | 0.333333333 |
| 3 | 0.333333333 | 0.666666667 |
| 6 | 0.25 | 0.5 |
| 10 | 0.333333333 | 0.666666667 |
|  |  |  |
| 7.625 |  | 0.458333333 |
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| Organizer Benefit/Organizer Cost | 0.612296639 |  |
|  |  |  |
| Actual Value/Organizer Cost | 2.006627367 |  |
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| Willingness Value/Organizer Cost | 2.120583229 |  |
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| Ratio of Actual / Willingness | 0.946262019 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 2 | 4 | 0.166666667 |
| 5 | 10 | 0.25 |
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| Event 1 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance | Willingness to Travel (time, hr) |
| 5 | 10 | 0.25 |
| 30 | 60 | 0.5 |
| 30 | 60 | 0.5 |
| 30 | 60 | 0.5 |
| 10 | $20^{\prime}$ | 0.166666667 |
| 15 | $30^{\prime}$ | 0.25 |
| 30 | 60 | 0.5 |
| 20 | $40^{\prime}$ | 0.3333333333 |
|  |  |  |
|  | 42.5 |  |
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| Organizer Cost Per Participant | 130.655625 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 0.333333333 | 1 | 0 |
| 0.5 | 1 | 0 |
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| Event 1 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 0.5 | 1 | 2 | 0.58 |
| 1 | 2 | 3 | 0.58 |
| 1 | 1 | 2 | 0.58 |
| 1 | 1 | 2 | 0.58 |
| 0.3333333333 | 0 | 1 | 0.58 |
| 0.5 | 0 | 1 | 0.58 |
| 1 | 0 | 1 | 0.58 |
| 0.666666667 | 1 | 2 | 0.58 |
|  |  |  |  |
| 0.75 |  | 1.75 |  |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 2 | 8 |
| 0.58 | 0.58 | 2 | 8 |
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| Event 1 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Other Costs | Work Related? $\mathrm{N}=1 \mathrm{Y}=\mathbf{2}$ |
| 0.29 | 80 | 2 | 0 | 1 |
| 0.193333333 | 80 | 2 | 0 | 1 |
| 0.29 | 80 | 2 | 0 | 1 |
| 0.29 | 80 | 2 | 0 | 1 |
| 0.58 | 80 | 2 | 0 | 1 |
| 0.58 | 80 | 2 | 0 | 1 |
| 0.58 | 80 | 2 | 0 | 1 |
| 0.29 | 80 | 2 | 0 | 1 |
|  |  |  |  |  |
| 0.386666667 | 80 | 2 | 0 |  |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 9 | 80 | 18 |  |  |
| 9 | 80 | 31.25 |  |  |
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## Event 1 Page 6

Gender M=1F=2 Low Age High Age Representative Age Education Job Classification Average Annual Income

| 1 | 56 | 65 | 60.5 HS | Maintenance Worker | 31137.6 |
| ---: | ---: | ---: | ---: | :--- | ---: | ---: |
| 2 | 46 | 55 | 50.5 B | Office Worker | 30076.8 |
| 1 | 26 | 35 | 30.5 G | Physical Scientist | 50336 |
| 2 | 26 | 35 | 30.5 G | Research Admin | 68328 |
| 2 | 56 | 65 | 60.5 G | Not Employed | 42100 |
| 2 | 65 |  | 66 G | Retired | 62000 |
| 2 | 56 | 65 | 60.5 B | Office Staff | 30076.8 |
| 1 | 65 |  | 66 B | Retired Geoscientist | 62000 |


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## Event 1 Page 7

Hourly Income Average OK Dept of Commerce Region Used Central Ecosystem Profile (Oklahoma Dept of Commerce)

| 14.97 | Central OK | Maintenance and Repair Workers, General |
| :---: | :---: | :---: |
| 14.46 | Central OK | Bookkeeping, Accounting, and Auditing Clerks |
| 24.2 | Central OK | Chemists |
| 32.85 | Central OK | General and Operations Managers |
| 20.24038462 | Central OK | Average income for Cleveland County |
| 29.80769231 | Central OK | Average Income Science/Tech Industry |
| 14.46 | Central OK | Bookkeeping, Accounting, and Auditing Clerks |
| 29.80769231 | Central OK | Average Income Science/Tech Industry |
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## Event 1 Page 8

| Actual TC | Time At Event Cost | TC+Time Spent | Willing TC | Time at Event Cost | WTC+Time Spent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 85.395 | 29.94 | 115.335 | 85.395 | 29.94 | 115.335 |
| 83.54 | 28.92 | 112.46 | 96.42 | 28.92 | 125.34 |
| 84.42888889 | 48.4 | 132.8288889 | 105.4666667 | 48.4 | 153.8666667 |
| 85.39 | 65.7 | 151.09 | 108.35 | 65.7 | 174.05 |
| 88.04893162 | 40.48076923 | 128.5297009 | 93.84893162 | 40.48076923 | 134.3297009 |
| 88.36393162 | 59.61538462 | 147.9793162 | 102.3679487 | 59.61538462 | 161.9833333 |
| 85.89 | 28.92 | 114.81 | 119.62 | 28.92 | 148.54 |
| 89.52393162 | 59.61538462 | 149.1393162 | 98.22393162 | 59.61538462 | 157.8393162 |
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| Event 2 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 20 | 0.25 | 0.5 |
| 2 | 0.05 | 0.1 |
| 30 | 0.416666667 | 0.833333333 |
| 1 | 0.016666667 | 0.033333333 |
| 30 | 0.333333333 | 0.666666667 |
| 4 | 0.083333333 | 0.166666667 |
| 4 | 0.083333333 | 0.166666667 |
| 4 | 0.083333333 | 0.166666667 |
| 6 | 0.083333333 | 0.166666667 |
| 1 | 0.033333333 | 0.066666667 |
| 20 | 0.25 | 0.5 |
| 20 | 0.25 | 0.5 |
| 124.4 | 1.5 | 3 |
| 124 | 1 | 2 |
| 124 | 1.5 | 3 |
| 100 | 1.25 | 2.5 |
| 1 | 0.083333333 | 0.166666667 |
| 4 | 0.083333333 | 0.166666667 |
|  |  |  |
| 34.41111111 |  | 0.816666667 |
|  |  |  |
|  |  |  |
|  |  |  |
| Organizer Benefit/Organizer Cost | 0.876908372 |  |
|  |  |  |
| Actual Value/Organizer Cost | 0.703217169 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 0.994443783 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.853981037 |  |
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| Event 2 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance | Willingness to Travel (time, hr) |
| 30 | 60 | 0.5 |
| 60 | 120 | 1 |
| 60 | 120 | 1 |
| 30 | 60 | 0.5 |
| 60 | 120 | 1 |
| 30 | 60 | 0.5 |
| 15 | 30 | 0.25 |
| 30 | 60 | 0.5 |
| 13 | 26 | 0.2167 |
| 0.5 | 1 | 0.033333333 |
| 60 | 120 | 1 |
| 30 | 60 | 0.5 |
| 270 | 540 | 4.5 |
| 120 | 240 | 2 |
| 120 | 240 | 2 |
| 105 | 210 | 1.75 |
| 30 | 60 | 0.5 |
| 2 | 4 | 0.083333333 |
|  |  |  |
|  | 118.3888889 |  |
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| Organizer Cost Per Participant | 126.7077778 |  |
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| Event 2 Page 4 |  |  |
| :---: | :---: | :---: |
| Willingness Round Trip Travel Time | Additional Travellers | Total Travellers |
| 1 | 1 | 2 |
| 2 | 0 | 1 |
| 2 | 2 | 3 |
| 1 | 0 | 1 |
| 2 | 2 | 3 |
| 1 | 0 | 1 |
| 0.5 | 1 | 2 |
| 1 | 2 | 3 |
| 0.4334 | 0 | 1 |
| 0.066666667 | 0 | 1 |
| 2 | 1 | 2 |
| 1 | 1 | 2 |
| 9 | 1 | 2 |
| 4 | 1 | 2 |
| 4 | 1 | 2 |
| 3.5 | 1 | 2 |
| 1 | 0 | 1 |
| 0.166666667 | 0 | 1 |
|  |  |  |
| 1.981485185 |  | 1.777777778 |
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| Event 2 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Standard Cost Per Mile | Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Other Costs |
| 0.58 | 0.29 | 30 | 2 | 0 |
| 0.58 | 0.58 | 30 | 2 | 0 |
| 0.58 | 0.193333333 | 30 | 2 | 0 |
| 0.58 | 0.58 | 30 | 2 | 0 |
| 0.58 | 0.193333333 | 30 | 2 | 0 |
| 0.58 | 0.58 | 30 | 2 | 0 |
| 0.58 | 0.29 | 30 | 2 | 0 |
| 0.58 | 0.193333333 | 30 | 2 | 0 |
| 0.58 | 0.58 | 30 | 2 | 0 |
| 0.58 | 0.58 | 30 | 2 | 0 |
| 0.58 | 0.29 | 30 | 2 | 0 |
| 0.58 | 0.29 | 30 | 2 | 0 |
| 0.58 | 0.29 | 30 | 2 | 0 |
| 0.58 | 0.29 | 30 | 2 | 0 |
| 0.58 | 0.29 | 30 | 2 | 0 |
| 0.58 | 0.29 | 30 | 2 | 0 |
| 0.58 | 0.58 | 30 | 2 | 0 |
| 0.58 | 0.58 | 30 | 2 | 0 |
|  |  |  |  |  |
|  | 0.386666667 | 30 | 2 | 0 |
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| Event 2 Page 6 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Work Related? $\mathrm{N}=1 \mathrm{Y}=\mathbf{2}$ | Gender M=1 F=2 | Low Age | High Age | Representative Age | Education |
| 2 | 2 | 65 |  | 66 | G |
| 1 | 2 | 65 |  | 66 | G |
| 1 | 2 | 56 | 65 | 60.5 | HS |
| 2 | 2 | 36 | 45 | 40.5 | G |
| 1 | 2 |  |  | 78 | HS |
| 1 | 2 | 46 | 55 | 50.5 | A |
| 1 | 2 | 18 | 25 | 21.5 | HS |
| 1 | 1 | 36 | 45 | 40.5 | HS |
| 1 | 2 | 65 |  | 66 | HS |
| 1 | 2 | 56 | 65 | 60.5 | NA |
| 1 | 2 | 26 | 35 | 30.5 | HS |
| 1 | 1 | 26 | 35 | 30.5 | HS |
| 1 | 2 | 36 | 45 | 40.5 | HS |
| 1 | 2 | 26 | 35 | 30.5 | HS |
| 1 | 2 | 26 | 35 | 30.5 | B |
| 1 | 1 | 26 | 35 | 30.5 | A |
| 1 | 2 | 26 | 35 | 30.5 | B |
| 1 | 2 | 46 | 55 | 50.5 | G |
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| Event 2 Page 7 |  |  |  |
| :---: | :---: | :---: | :---: |
| Job Classification | Average Annual Income | Hourly Income Average | OK Dept. of Commerce Region Used |
| Health Administration | 69804.8 | 33.56 | Eastern Oklahoma Report |
| Public Health | 69804.8 | 33.56 | Eastern Oklahoma Report |
| Sales Assistant | 31824 |  | Eastern Oklahoma Report |
| Environmental Scientist | 180939.2 | 86.99 | Eastern Oklahoma Report |
| Retired | 35000 | 16.82692308 | Eastern Oklahoma Report |
| Business Owner | 37500 | 18.02884615 | Eastern Oklahoma Report |
| Student | 15080 |  | Eastern Oklahoma Report |
| IT | 29993.6 | 14.42 | Eastern Oklahoma Report |
| Retired | 35000 | 16.82692308 | Eastern Oklahoma Report |
| Barber | 22,000 | 10.78431373 | Eastern Oklahoma Report |
| Not Employed | 0 |  | Eastern Oklahoma Report |
| Veteran/ Contractor | 37500 | 18.02884615 | Eastern Oklahoma Report |
| Self Employed | 47500 | 22.83653846 | Tulsa Metro Report |
| Dental Assistant | 29681.6 | 14.27 | East Central Oklahoma Report |
| Homemaker | 32500 | 15.625 | East Central Oklahoma Report |
| Laborer | 24710.4 | 11.88 | East Central Oklahoma Report |
| Web Technician | 83865.6 | 40.32 | Eastern Oklahoma Report |
| Registered Nurse | 50315.2 | 24.19 | Eastern Oklahoma Report |
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| Event 2 Page 8 |  |  |  |
| :---: | :---: | :---: | :---: |
| OK Dept. of Commerce Job Title | Actual Travel Cost | Time At Event Cost | TC+Time Spent |
| General and Operations Managers Health Care | 41.39333333 | 67.12 | 108.5133333 |
| General and Operations Managers Health Care | 32.27866667 | 67.12 | 99.39866667 |
| Sales Representatives | 40.05 | 30.6 | 70.65 |
| Geoscientists (Agriculture \& Bioscience) | 31.54655556 | 173.98 | 205.5265556 |
| Average Earning by Industry: Science/Technology | 39.53931624 | 33.65384615 | 73.19316239 |
| Average Earning Cherokee County | 33.32160256 | 36.05769231 | 69.37929487 |
| Minimum Wage: Oklahoma | 31.56277778 | 14.5 | 46.06277778 |
| Computer Network Support Specialists | 31.57444444 | 28.84 | 60.41444444 |
| Average Earning by Industry: Science/Technology | 34.41482906 | 33.65384615 | 68.06867521 |
| Average Earning by Industry: Retail Trade | 30.81965142 | 21.56862745 | 52.38827887 |
| Unemployed High Schooler | 35.8 | 0 | 35.8 |
| Average Earning Cherokee County | 38.80480769 | 36.05769231 | 74.8625 |
| Average Earnings: Rogers County | 88.91253846 | 45.67307692 | 134.5856154 |
| Dental Assistants | 75.47333333 | 28.54 | 104.0133333 |
| Average Income: Mcintosh County | 81.585 | 31.25 | 112.835 |
| Construction Laborer | 68.9 | 23.76 | 92.66 |
| Computer Occupations, All Other | 32.82 | 80.64 | 113.46 |
| Registered Nurse | 33.66388889 | 48.38 | 82.04388889 |
|  |  |  |  |
|  | 44.58115252 | 44.52193229 | 89.10308482 |
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| Event 2 Page 9 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |  |
|  | 58.58666667 | 67.12 | 125.7066667 |  |
|  | 121.9733333 | 67.12 | 189.0933333 |  |
|  | 63.4 | 30.6 | 94 |  |
|  | 93.79666667 | 173.98 | 267.7766667 |  |
|  | 64.41794872 | 33.65384615 | 98.07179487 |  |
|  | 70.80961538 | 36.05769231 | 106.8673077 |  |
|  | 39.90833333 | 14.5 | 54.40833333 |  |
|  | 46.40666667 | 28.84 | 75.24666667 |  |
|  | 47.51092949 | 33.65384615 | 81.16477564 |  |
|  | 30.81965142 | 21.56862745 | 52.38827887 |  |
|  | 64.8 | 0 | 64.8 |  |
|  | 53.40961538 | 36.05769231 | 89.46730769 |  |
|  | 255.1096154 | 45.67307692 | 300.7826923 |  |
|  | 118.6266667 | 28.54 | 147.1666667 |  |
|  | 120.4333333 | 31.25 | 151.6833333 |  |
|  | 104.76 | 23.76 | 128.52 |  |
|  | 78.24 | 80.64 | 158.88 |  |
|  | 33.66388889 | 48.38 | 82.04388889 |  |
|  |  |  |  |  |
|  | 81.48182952 | 44.52193229 | 126.0037618 |  |
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| Event 3 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 Sand Springs - Tulsa County | 74 |
|  | 2 Tulsa- Osage | 74 |
|  | 3 Tulsa- Osage | 74 |
|  | 4 Grove- Delaware County | 38 |
|  | 5 Grove - Ottawa | 42 |
|  | 6 Big Cabin - Craig County | 20 |
|  | 7 Grove - Delaware Co | 17 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Number of Participants | 7 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 97.61171608 |  |
| Total Travel Cost | 683.2820126 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 140.5195458 |  |
| Total Actual Travel + Time at Event | 983.6368203 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 194.2717826 |  |
| Total Willingness Travel Cost Per Participant | 1359.902479 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 237.1796123 |  |
| Total Willingness Travel + Time at Event | 1660.257286 |  |
|  |  |  |
| Total Organzier Costs | 5564.33715 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 6547.97397 |  |
| Total Willing Participant + Organizer Costs Value | 7224.594436 |  |
|  |  |  |
| Response Rate |  |  |
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| Organizer Data |  |  |
| Organizers | Expenditures | Planning Time (hrs) |
| Organizer 1 | 686.41 | 20 |
| Organizer 2 |  | 6 |
| Organizer 3 |  | 2 |
| Organizer 4 | 2000 | 120 |
| Organizer 5 |  |  |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Total Travel + Preparation Time + Time Spent at Event + Expenditures | 5564.33715 |  |
|  |  |  |
| Total Participants Registration Fee | 450 |  |


| Event 3 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 148 | 1.5 | 3 |
| 148 | 1.5 | 3 |
| 148 | 1.5 | 3 |
| 76 | 0.66 | 1.32 |
| 84 | 0.833 | 1.666 |
| 40 | 0.5 | (1 |
| 34 | 0.5833 | 1.1666 |
|  |  |  |
| 96.85714286 |  | 2.0218 |
|  |  |  |
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|  |  |  |
| Organizer Benefit/Organizer Cost | 0.080872166 |  |
|  |  |  |
| Actual Value/Organizer Cost | 0.176775201 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 0.298374675 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.592460475 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 0 | 0 | 0 |
| 62 | 124 | $\square$ |
| 62 | 124 | 1 |
| 165 | 330 | 2.6667 |
| 184 | 368 | 3 |
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| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance | Willingness to Travel (time, hr) |
| 172.67 | 345.34 | 3.5 |
| 172.67 | 345.34 | 3.5 |
| 123.33 | 246.66 | 2.5 |
| 200 | 400 | - 4 |
| 142.8 | 285.6 | 2.833 |
| 80 | 160 | - 2 |
| 60 | 120 | 2.05 |
|  |  |  |
|  | 271.8485714 |  |
|  |  |  |
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| Organizer Cost Per Participant | 794.9053071 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 0 | 1 | 0 |
| 2 | 2 | 150 |
| 2 | 2 |  |
| 5.3334 | 1 |  |
| 6 | 1 |  |
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| Event 3 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 7 | 2 | 3 | 0.58 |
| 7 | 2 | 3 | 0.58 |
| 5 | 2 | 3 | 0.58 |
| 8 | 0 | 1 | 0.58 |
| 5.666 | 0 | 1 | 0.58 |
| 4 | 1 | 2 | 0.58 |
| 4.1 | 0 | 1 | 0.58 |
|  |  |  |  |
| 5.823714286 |  | 2 |  |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 2 | 11 |
| 0.58 | 0.29 | 2 |  |
| 0.58 | 0.29 | 2 |  |
| 0.58 | 0.58 | 2 |  |
| 0.58 | 0.58 | 2 |  |
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| Event 3 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.193333333 | 50 | 2 |  | 0 |
| 0.193333333 | 50 | 2 |  | 0 |
| 0.193333333 | 50 | 2 |  | 0 |
| 0.58 | 50 | 2 |  | 0 |
| 0.58 | 75 | 2 |  | 0 |
| 0.29 | 50 | 2 |  | 0 |
| 0.58 | 50 | 2 |  | 0 |
|  |  |  |  |  |
| 0.372857143 | 53.57142857 | 2 |  | 0 |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 9 | 50 | 27 |  |  |
|  |  | 44 |  |  |
|  |  | 25 |  |  |
|  |  | 7.25 |  |  |
|  |  | 18 |  |  |
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| Event 3 Page 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ | Gender M=1 F=2 | Low Age | High Age | Representative Age | Education | Job Classification |
| 1 | 2 | 26 | 35 | 30.5 | B | Teacher |
| 2 | 2 | 46 | 55 | 50.5 | B | Teacher |
| 2 | 2 | 36 | 45 | 40.5 | G | Teacher |
| 2 | 1 | 36 | 45 | 40.5 | G | Teacher |
| 2 | 2 | 36 | 45 | 40.5 | G | Teacher |
| 1 | 2 | 46 | 55 | 50.5 | G | Teacher |
| 2 | 1 | 56 | 65 | 60.5 | B | Teacher |
|  |  |  |  |  |  |  |
|  |  |  |  | 44.78571429 |  |  |
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|  |  |  |  |  | Actual Travel Cost | Travel + Preparation + Event Time |
|  |  |  |  |  | 0 | 594 |
|  |  |  |  |  | 273.96 | 625.96 |
|  |  |  |  |  | 85.96 | 185.96 |
|  |  |  |  |  | 230.06715 | 1114.56715 |
|  |  |  |  |  | 321.44 | 357.44 |
|  |  |  |  |  |  |  |
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| Event 3 Page 7 |  |  |  |
| :---: | :---: | :---: | :---: |
| Annual Average Income | Hourly Income Average | OK STATE Teacher Salary Schedule | Experience Used |
| 35,895 | 17.25721154 | Sand Springs (Teacher Salary Schedule) | Bachelor's + 5 Years Experience |
| 45,343 | 21.79951923 | Sand Springs (Teacher Salary Schedule) | Bachelor's + 25 Years Experience |
| 41,757 | 20.07548077 | Sand Springs (Teacher Salary Schedule) | Master's + 15 Years Experience |
| 47,645 | 22.90625 | Delaware- Grove (Teacher Salary Schedule) | Master's + 15 Years Experience |
| 47,645 | 22.90625 | Delaware- Grove (Teacher Salary Schedule) | Master's + 15 Years Experience |
| 44,910 | 21.59134615 | Craig County Vinita (Teacher Salary Schedule) | Master's + 25 Years Experience |
| 49,174 | 23.64134615 | Delaware- Grove (Teacher Salary Schedule) | Bachelor's +35 Years Experience |
|  |  |  |  |
| 44,624 | 21.45391484 |  |  |
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## Event 3 Page 8

| Actual Travel Cost | Time At Event Cost | TC+Time Spent | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 95.87054487 | 34.51442308 | 130.3849679 | 157.0325603 | 34.51442308 | 191.5469833 |
| 100.4128526 | 43.59903846 | 144.011891 | 167.6312782 | 43.59903846 | 211.2303167 |
| 98.6888141 | 40.15096154 | 138.8397756 | 131.1467346 | 40.15096154 | 171.2976962 |
| 104.15875 | 45.8125 | 149.97125 | 343.0833333 | 45.8125 | 388.8958333 |
| 136.4406042 | 45.8125 | 182.2531042 | 283.9102708 | 45.8125 | 329.7227708 |
| 68.79711538 | 43.18269231 | 111.9798077 | 125.1884615 | 43.18269231 | 168.3711538 |
| 78.91333147 | 47.28269231 | 126.1960238 | 151.9098397 | 47.28269231 | 199.1925321 |
|  |  |  |  |  |  |
| 97.61171608 | 42.90782967 | 140.5195458 | 194.2717826 | 42.90782967 | 237.1796123 |
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| Event 4 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 20 | 0.5 | 1 |
| 4 | 0.25 | 0.5 |
| 40 | 0.5 | 1 |
| 40 | 0.3333 | 0.6666 |
| 60 | 0.5 | 1 |
| 4 | 0.0833 | 0.1666 |
| 60 | 0.5833 | 1.1666 |
| 3 | 0.0833 | 0.1666 |
| 8 | 0.25 | 0.5 |
| 4 | 0.0833 | 0.1666 |
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| Organizer Benefit/Organizer Cost | 0 |  |
|  |  |  |
| Actual Value/Organizer Cost | 1.1032581 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 1.82515834 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.604472541 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 5 | 10 | 0.0833 |
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| Event 4 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Willingness to Travel (time, hr) |
| 20 | 40 | 1 |
| 75 | 150 | 1.25 |
| 60 | 120 | 1.5 |
| 30 | 60 | 0.5 |
| 50 | 100 | 0.8333 |
| 200 | 400 | - 3 |
| 30 | 60 | 0.5833 |
| 5 | 10 | 0.2833 |
| 19 | 38 | 1.1875 |
| 62 | 124 | 2.5 |
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| Organizer Cost Per Participant | 64.400785 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 0.1666 | 1 | 0 |
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| Event 4 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 2 | 3 | 4 | 0.58 |
| 2.5 | 1 | 2 | 0.58 |
| 3 | 3 | 4 | 0.58 |
| 1 | 3 | 4 | 0.58 |
| 1.6666 | 3 | 4 | 0.58 |
| 6 | 1 | 2 | 0.58 |
| 1.1666 | 2 | 3 | 0.58 |
| 0.5666 | 0 | 1 | 0.58 |
| 2.375 | 0 | 1 | 0.58 |
| 5 | 0 | 1 | 0.58 |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 2 | 38 |
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| Event 4 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.145 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 1 | 0 |
| 0.145 | 0 | 2 | 0 | 0 |
| 0.145 | 0 | 2 | 0 | 0 |
| 0.145 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 1 | 0 |
| 0.193333333 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0.5 | 10 |
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| Attended | Registration Cost | Organizer Hourly Rate |  | Notes: |
| 26 | 0 | 7.25 |  |  |
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## Event 4 Page 6

## Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ Gender M=1 F=2 Low Age High Age Representative Age Education Job Classification

| 2 | 2 | 36 | 45 | 40.5 G | State Regulator |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 2 | 18 | 25 | 21.5 B | Environmental Science Student |
| 2 | 2 | 26 | 35 | 30.5 B | Environmental Protection Specialist |
| 2 | 1 | 26 | 35 | 30.5 B | Civil Engineer |
| 2 | 1 | 65 |  | 66 G | Civil Engineer |
| 2 | 1 | 46 | 55 | 50.5 H | General Manager |
| 2 | 1 | 36 | 45 | 40.5 H | Maintenance Worker |
| 2 | 1 | 65 |  | 66 B | Builder |
| 2 | 1 | 56 | 65 | 60.5 G | Developer/Builder |
| 2 | 2 | 46 | 55 | 50.5 G | City Planner |
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|  |  |  |  |  | Actual Travel Cost |
|  |  |  |  |  | 7.00785 |
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| Event 4 Page 7 |  |  |
| :---: | :---: | :---: |
| Average Annual Income | Hourly Income Average | OK Dept of Commerce Region Used |
| 79456 | 38.2 | Central Ecosystem Profile |
| 46904 | 22.55 | ntral Ecosystem Profile |
| 46904 | 22.55 | Central Ecosystem Profile |
| 72550.4 | 34.88 | Central Ecosystem Profile |
| 72550.4 | 34.88 | Central Ecosystem Profile |
| 53643.2 | 25.79 | Central Ecosystem Profile |
| 32489.6 | 15.62 | Central Ecosystem Profile |
| 54204.8 | 26.06 | Central Ecosystem Profile |
| 79456 | 38.2 | Central Ecosystem Profile |
| 79456 | 38.2 | Central Ecosystem Profile |
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| Travel + Preparation + Event Time |  |  |
| 94.00785 |  |  |
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| Event 4 Page 8 |  |  |  |
| :---: | :---: | :---: | :---: |
| Central Ecosystem Profile (Oklahoma Dept of Commerce) | Actual Travel Cost | Time At Event Cost | C+Time Spent |
| General + Operations Managers Agriculture/Bioscience | 15.63333333 | 76.4 | 92.03333333 |
| Environmnetal Scientist/ Bachelor's Degree | 4.918333333 | 45.1 | 50.01833333 |
| Environmnetal Scientists \& Specialists/ Bachelor's Degree | 13.31666667 | 45.1 | 58.41666667 |
| Civil Engineers | 13.550336 | 69.76 | 83.310336 |
| Civil Engineers | 20.32666667 | 69.76 | 90.08666667 |
| Supervisors of Farming Fishing and Forestry Workers (HS + Job Experience) | 2.592204667 | 51.58 | 54.17220467 |
| Maintenance Workers, Machinery | 17.67409733 | 31.24 | 48.91409733 |
| Construction Managers (Bachelors) /Construction | 3.187198667 | 52.12 | 55.30719867 |
| General \& Operations Managers Construction | 11.00666667 | 76.4 | 87.40666667 |
| General \& Operations Managers Transportation/Distribution | 14.44137333 | 76.4 | 90.84137333 |
|  |  |  |  |
|  | 11.66468767 | 59.386 | 71.05068767 |
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| Event 4 Page 9 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willing Travel Cost | Time at Event Cost | WTC+Time Spent |  |
| 31.26666667 | 76.4 | 107.6666667 |  |
| 62.29166667 | 45.1 | 107.3916667 |  |
| 39.95 | 45.1 | 85.05 |  |
| 20.32666667 | 69.76 | 90.08666667 |  |
| 33.87700267 | 69.76 | 103.6370027 |  |
| 167.58 | 51.58 | 219.16 |  |
| 17.67409733 | 31.24 | 48.91409733 |  |
| 10.72186533 | 52.12 | 62.84186533 |  |
| 52.28166667 | 76.4 | 128.6816667 |  |
| 145.5866667 | 76.4 | 221.9866667 |  |
| 58.15562987 | 59.386 | 117.5416299 |  |
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| Event 5 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 0.378 | 0.0167 | 0.0334 |
| 10 | 0.0833 | 0.1666 |
| 30 | 0.3333 | 0.6666 |
| 6 | 0.1667 | 0.3334 |
| 2 | 0.0667 | 0.1334 |
| 4 | 0.1667 | 0.3334 |
| 2 | 0.05 | 0.1 |
| 20 | 0.1667 | 0.3334 |
| 10 | 0.25 | 0.5 |
| 2 | 0.1333 | 0.2666 |
| 70 | 0.5833 | 1.1666 |
| 10 | 0.1667 | 0.3334 |
| 4 | 0.25 | 0.5 |
| 1.8 | 0.05 | 0.1 |
| 0.1894 | 0.0167 | 0.0334 |
| 2 | 0.05 | 0.1 |
| 4 | 0.0833 | 0.1666 |
| 10 | 0.1667 | 0.3334 |
| 2 | 0.083333333 | 0.166666667 |
| 134 | 1.5 | 3 |
| 30 | 0.5 | 1 |
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| Organizer Benefit/Organizer Cost | 0.173852573 |  |
|  |  |  |
| Actual Value/Organizer Cost | 4.940635485 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 9.256263438 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.53376133 |  |
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| Event 5 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Willingness to Travel (time, hr) |
| 200 | 400 | 3 |
| 5 | 10 | 0.0833 |
| 90 | 180 | 2 |
| 63 | 126 | 1.05 |
| 20 | 40 | 0.3333 |
| 30 | 60 | 0.5 |
| 60 | 120 | 1 |
| 10 | 20 | 0.1667 |
| 120 | 240 | 2 |
| 20 | 40 | 0.3333 |
| 95 | 190 | 1.6833 |
| 200 | 400 | 3 |
| 20 | 40 | 0.3333 |
| 200 | 400 | 3 |
| 0.947 | 1.894 | 0.1667 |
| 10 | $20^{\prime \prime}$ | 0.166666667 |
| 90 | 180 | 1.5 |
| 60 | 120 | 1 |
| 15 | 30 | 0.25 |
| 127 | 254 | 2.5 |
| 75 | 150 | 1.25 |
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| Organizer Cost Per Participant | 20.54285714 |  |
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| Event 5 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 6 | 0 | 1 | 0.58 |
| 0.1666 | 0 | 1 | 0.58 |
| 4 | 0 | 1 | 0.58 |
| 2.1 | 0 | 1 | 0.58 |
| 0.6666 | 2 | 3 | 0.58 |
| 1 | 2 | 3 | 0.58 |
| 2 | 1 | 2 | 0.58 |
| 0.3334 | 0 | 1 | 0.58 |
| 4 | 0 | 1 | 0.58 |
| 0.6666 | 1 | 2 | 0.58 |
| 3.3666 | 0 | 1 | 0.58 |
| 6 | 1 | 2 | 0.58 |
| 0.6666 | 1 | 2 | 0.58 |
| 6 | 2 | 3 | 0.58 |
| 0.3334 | 1 | 2 | 0.58 |
| 0.333333333 | 2 | 3 | 0.58 |
| 3 | 1 | 2 | 0.58 |
| 2 | 0 | 1 | 0.58 |
| 0.5 | 1 | 2 | 0.58 |
| 5 | 0 | 1 | 0.58 |
| 2.5 | 0 | 1 | 0.58 |
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| Event 5 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.58 | 25 | 2 | 0 | 0 |
| 0.58 | 0 | 1.5 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.193333333 | 0 | 1.5 | 0 | 0 |
| 0.193333333 | 0 | 1.5 | 0 | 0 |
| 0.29 | 0 | 1.5 | 0 | 0 |
| 0.58 | 25 | 1.5 | 0 | 0 |
| 0.58 | 0 | 1.5 | 0 | 0 |
| 0.29 | 0 | 1.5 | 0 | 0 |
| 0.58 | 0 | 1.5 | 0 | 0 |
| 0.29 | 0 | 1.5 | 0 | 0 |
| 0.29 | 0 | 1.5 | 0 | 0 |
| 0.193333333 | 0 | 1.5 | 0 | 0 |
| 0.29 | 0 | 1 | 0 | 0 |
| 0.193333333 | 12.5 | 1.5 | 0 | 0 |
| 0.29 | 12.5 | 1.5 | 0 | 0 |
| 0.58 | 0 | 1 | 0 | 0 |
| 0.29 | 0 | 1 | 0 | 0 |
| 0.58 | 0 | 1.5 | 0 | 0 |
| 0.58 | 0 | 1 | 0 | 0 |
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Event 5 Page 6
Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ Gender $\mathrm{M}=1 \mathrm{~F}=2$ Low Age High Age Representative Age Education Job Classification


| Event 5 Page 7 |  |  |
| ---: | ---: | :--- |
| Annual Average Income | Hourly Income Average | Bureau of Labor Statistics US DEPT OF LABOR |
| 113040 | 54.34615385 | Oklahoma Mean Wage Lawyer |
| 113040 | 54.34615385 | Oklahoma Mean Wage Lawyer |
| 113040 | 54.34615385 | Oklahoma Mean Wage Lawyer |
| 113040 | 54.34615385 | Oklahoma Mean Wage Lawyer |
| 113040 | 54.34615385 | Oklahoma Mean Wage Lawyer |
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| 113040 | 54.34615385 | Oklahoma Mean Wage Lawyer |
| 113040 | 54.34615385 | Oklahoma Mean Wage Lawyer |
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## Event 5 Page 8

| Actual Travel Cost | Time At Event Cost | TC+Time Spent | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 25.82429385 | 108.6923077 | 134.5166015 | 365.6923077 | 108.6923077 | 474.3846154 |
| 8.818023077 | 81.51923077 | 90.33725385 | 8.818023077 | 81.51923077 | 90.33725385 |
| 29.47571538 | 108.6923077 | 138.1680231 | 176.8615385 | 108.6923077 | 285.5538462 |
| 9.519669231 | 108.6923077 | 118.2119769 | 111.1223077 | 108.6923077 | 219.8146154 |
| 2.803258974 | 81.51923077 | 84.32248974 | 19.80904872 | 81.51923077 | 101.3282795 |
| 6.813002564 | 81.51923077 | 88.33223333 | 29.71538462 | 81.51923077 | 111.2346154 |
| 2.391538462 | 81.51923077 | 83.91076923 | 71.03076923 | 81.51923077 | 152.55 |
| 42.63966923 | 81.51923077 | 124.1589 | 42.63966923 | 81.51923077 | 124.1589 |
| 14.85769231 | 81.51923077 | 96.37692308 | 211.6615385 | 81.51923077 | 293.1807692 |
| 5.409561538 | 81.51923077 | 86.92879231 | 23.67571538 | 81.51923077 | 105.1949462 |
| 61.73340769 | 81.51923077 | 143.2526385 | 171.1872538 | 81.51923077 | 252.7064846 |
| 8.939669231 | 81.51923077 | 90.4589 | 224.6923077 | 81.51923077 | 306.2115385 |
| 10.21769231 | 81.51923077 | 91.73692308 | 23.67571538 | 81.51923077 | 105.1949462 |
| 2.159538462 | 81.51923077 | 83.67876923 | 186.025641 | 81.51923077 | 267.5448718 |
| 0.659979846 | 54.34615385 | 55.00613369 | 6.588929231 | 54.34615385 | 60.93508308 |
| 14.69820513 | 81.51923077 | 96.2174359 | 22.40512821 | 81.51923077 | 103.924359 |
| 16.67802308 | 81.51923077 | 98.19725385 | 119.0461538 | 81.51923077 | 200.5653846 |
| 11.83966923 | 54.34615385 | 66.18582308 | 105.8307692 | 54.34615385 | 160.1769231 |
| 3.599230769 | 54.34615385 | 57.94538462 | 17.75769231 | 54.34615385 | 72.10384615 |
| 132.0661538 | 81.51923077 | 213.5853846 | 237.8969231 | 81.51923077 | 319.4161538 |
| 35.51538462 | 54.34615385 | 89.86153846 | 132.2884615 | 54.34615385 | 186.6346154 |
|  |  |  |  |  |  |
| 21.26949423 | 80.22527473 | 101.494769 | 109.9248228 | 80.22527473 | 190.1500975 |
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| Event 6 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 Norman, Cleveland | 2.8 |
|  | 2 Norman, Cleveland | 0.1 |
|  | 3 Norman, Cleveland | 20 |
|  | Norman, Cleveland | 4 |
|  | 5 Norman, Cleveland | 12 |
|  | 6 Norman, Cleveland | 2 |
|  | 7 Norman, Cleveland | 10 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Number of Participants | 7 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 10.50764918 |  |
| Total Travel Cost | 73.55354423 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 43.92317115 |  |
| Total Actual Travel + Time at Event | 307.4621981 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 22.63481731 |  |
| Total Willingness Travel Cost Per Participant | 158.4437212 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 56.05033929 |  |
| Total Willingness Travel + Time at Event | 392.352375 |  |
|  |  |  |
| Total Organzier Costs | 129.09843 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 436.5606281 |  |
| Total Willing Participant + Organizer Costs Value | 521.450805 |  |
|  |  |  |
| Response Rate | 70\% |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Organizer Data |  |  |
| Organizers | Expenditures | Planning Time (hrs) |
| Organizer 1 | 0 | 1 |
| Organizer 2 |  | 3 |
| Organizer 3 |  | 3 |
|  |  |  |
|  |  |  |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Total Travel + Preparation Time + Time Spent at Event + Expenditures | 129.09843 |  |
|  |  |  |
| Total Participants Registration Fee | 0 |  |


| Event 6 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 5.6 | 0.167 | 0.334 |
| 0.2 | 0.05 | 0.1 |
| 40 | 0.417 | 0.834 |
| 8 | 0.167 | 0.334 |
| 24 | 0.25 | 0.5 |
| 4 | 0.25 | 0.5 |
| 20 | 0.25 | 0.5 |
|  |  |  |
| 14.54285714 |  | 0.443142857 |
|  |  |  |
|  |  |  |
|  |  |  |
| Organizer Benefit/Organizer Cost | 0 |  |
|  |  |  |
| Actual Value/Organizer Cost | 2.381610668 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 3.03917232 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.783637918 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 2.5 | 5 | 0.16667 |
| 2.5 | 5 | 0.16667 |
| 24 | 48 | 0.5 |
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| Event 6 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Willingness to Travel (time, hr) |
| 4.2 | 8.4 | 0.25 |
| 0.1 | 0.2 | 0.05 |
| 25 | 50 | 0.52 |
| 24 | 48 |  |
| 42 | 84 | 0.875 |
| 17 | 34 | 0.25 |
| 20 | 40 | 0.5 |
|  |  |  |
|  | 37.8 |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Organizer Cost Per Participant | 18.44263286 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 0.33334 | 1 | 0 |
| 0.33334 | 1 | 0 |
| 1 | 1 | 0 |
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| Event 6 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 0.5 | 1 | 2 | 0.58 |
| 0.1 | 0 | 1 | 0.58 |
| 1.04 | 0 | 1 | 0.58 |
| 2 | 1 | 2 | 0.58 |
| 1.75 | 3 | 4 | 0.58 |
| 0.5 | 2 | 3 | 0.58 |
| 1 | 1 | 2 | 0.58 |
|  |  |  |  |
| 0.984285714 |  | 2.142857143 |  |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 1.5 | 12 |
| 0.58 | 0.58 | 1.5 |  |
| 0.58 | 0.58 | 1.5 |  |
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| Event 6 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.29 | 0 | 1 | 0 | 0 |
| 0.58 | 0 | 1 | 0 | 0 |
| 0.58 | 0 | 1 | 0.5 | 0 |
| 0.29 | 0 | 1 | 0.5 | 0 |
| 0.145 | 0 | 1 | 0.5 | 0 |
| 0.193333333 | 0 | 1 | 0 | 0 |
| 0.29 | 0 | 1 | 0 | 0 |
|  |  |  |  |  |
| 0.338333333 | 0 | 1 |  | 0 |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 10 | 0 | 7.25 |  |  |
|  |  | 7.25 |  |  |
|  |  | 7.25 |  |  |
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| Event 6 Page 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ | Gender M=1 F=2 | Low Age | High Age | Representative Age | Education | Job Classification |
| 1 | 1 | 26 | 35 | 30.5 | G | Health |
| 1 | 1 | 36 | 45 | 40.5 | G | Professor |
| 1 | 1 | 46 | 55 | 50.5 | G | Farmer/Rancher General Manager |
| 1 | 1.5 | 46 | 55 | 50.5 | G | Student |
| 1 | 2 | 36 | 45 | 40.5 | G | Lawyer |
| 1 | 2 | 46 | 55 | 50.5 | Tech School | Laborer |
| 1 | 1 | 56 | 65 | 60.5 | G | General Manager |
|  |  |  |  |  |  |  |
|  |  |  |  | 46.21428571 |  |  |
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|  |  |  |  |  |  |  |
|  |  |  |  |  | Actual Travel Cost | Travel + Preparation + Event Time |
|  |  |  |  |  | 5.316715 | 23.441715 |
|  |  |  |  |  | 5.316715 | 37.941715 |
|  |  |  |  |  | 35.09 | 67.715 |
|  |  |  |  |  | 0 | 0 |
|  |  |  |  |  | 0 | 0 |
|  |  |  |  |  |  |  |
|  |  |  |  | Sum | 45.72343 | 129.09843 |
|  |  |  |  |  |  |  |
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| Event 6 Page 7 |  |  |  |
| :---: | :---: | :---: | :---: |
| Average Annual Income | Hourly Income Average | OK Dept of Commerce Region Used | Source |
| 68328 | 32.85 | Central Ecosystem Profile | Health General and Operations Management |
| 69770 | 33.54326923 |  | (Bureau of Labor Statistics) Postsecondary Environmental Science |
| 79456 |  | Central Ecosystem Profile | Agriculture General and Operations Managers |
| 26590 | 12.78365385 |  | (Bureau of Labor Statistics) Graduate Teaching Assistant Wage |
| 142130 | 68.33173077 |  | (Bureau of Labor Statistics) Mena Annual Wage Lawyers |
| 20800 |  | Central Ecosystem Profile | Farmworkers and Laborers, Crop, Nursery, and Greenhouse |
| 79456 |  | Central Ecosystem Profile | General and Operations Managers |
|  |  |  |  |
| 69,504 | 33.41552198 |  |  |
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| Event 7 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 OKC, Oklahoma County | 7 |
|  | 2 Moore, Cleveland | 21 |
|  | 3 OKC, Oklahoma County | 8 |
|  | 4 El Reno, Canadian | 35 |
|  | 5 Morris, Okmulgee County | 90 |
|  | 6 Henryetta, Okmulgee | 90 |
|  | 7 El Reno, Canadian | 35 |
|  | Newkirk, Kay County | 112 |
|  | 9 Moore, Cleveland | 20 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Number of Participants | 9 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 81.73422244 |  |
| Total Travel Cost | 735.6080019 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 186.9223635 |  |
| Total Actual Travel + Time at Event | 1682.301271 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 141.1791548 |  |
| Total Willingness Travel Cost | 1270.612393 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 246.3672958 |  |
| Total Willingness Travel + Time at Event | 2217.305663 |  |
|  |  |  |
| Total Organzier Costs | 1300.86218 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 2983.163451 |  |
| Total Willing Participant + Organizer Costs Value | 3518.167843 |  |
|  |  |  |
| Response Rate | 90\% |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Organizer Data |  |  |
| Organizers | Expenditures | Planning Time (hrs) |
| Organizer 1 | 221.16 | 20 |
| Organizer 2 |  | 9 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Total Travel + Preparation Time + Time Spent at Event + Expenditures | 1300.86218 |  |
|  |  |  |
| Total Participants Registration Fee | 0 |  |


| Event 7 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | p Travel Time (hr) |
| 14 | 0.333 | 0.666 |
| 42 | 0.5 | 1 |
| 16 | 0.25 | 0.5 |
| 70 | 0.75 | 1.5 |
| 180 | 2 | 4 |
| 180 | 1.5 | 3 |
| 70 | 0.75 | 1.5 |
| 224 | 2 | 4 |
| 40 | 0.667 | 1.334 |
|  |  |  |
| 132 |  | 2.667 |
|  |  |  |
|  |  |  |
|  |  |  |
| Organizer Benefit/Organizer Cost | 0 |  |
|  |  |  |
| Actual Value/Organizer Cost | 1.293220217 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 1.704489297 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.758714191 |  |
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|  |  |  |
| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 5 | 10 | 0.25 |
| 7 | 14 | 0.333 |
|  |  |  |
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| Event 7 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | illingness to Travel (time, hr) |
| 17 | 34 | 0.476 |
| 41 | 82 | 0.976 |
| 72 | 144 | 2.25 |
| 55 | 110 | 1.18 |
| 112 | 224 | 2.5 |
| 240 | 480 | 4 |
| 55 | 110 | 1.18 |
| 112 | 224 | 2 |
| 35 | 70 | 0.833 |
|  |  |  |
|  | 147 |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Organizer Cost Per Participant | 144.5402422 |  |
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|  |  |  |
| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 0.5 | 1 | 0 |
| 0.666 | 1 | 0 |
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| Event 7 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 0.952 | 0 | 1 | 0.58 |
| 1.952 | 0 | 1 | 0.58 |
| 4.5 | 1 | 2 | 0.58 |
| 2.36 | 1 | 2 | 0.58 |
| 5 | 0 | 1 | 0.58 |
| 8 | 0 | 1 | 0.58 |
| 2.36 | 1 | 2 | 0.58 |
| 4 | 0 | 1 | 0.58 |
| 1.666 | 1 | 2 | 0.58 |
|  |  |  |  |
| 2.833 |  | 1.5 |  |
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|  |  |  |  |
| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 6 | 18 |
| 0.58 | 0.58 | 6 |  |
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| Event 7 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.29 | 0 | 6 | 1 | 0 |
| 0.29 | 0 | 6 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.29 | 0 | 6 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.29 | 0 | 6 | 1.5 | 0 |
|  |  |  |  |  |
| 0.435 | 0 | 6 | 0.75 |  |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 10 | 0 | 28.85 |  |  |
|  |  | 19.23 |  |  |
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| Event 7 Page 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ | Gender M=1 F=2 | Low Age | High Age | Representative Age | Education | Job Classification |
| 2 | 1 | 65 |  | 66 | B | Teacher |
| 2 | 2 | 26 | 35 | 30.5 |  | Teacher |
| 2 | 2 | 26 | 35 | 30.5 |  | Educator |
| 2 | 2 | 18 | 25 | 21.5 |  | Student |
| 2 | 2 | 46 | 55 | 50.5 |  | Teacher Librarian |
| 1 | 2 | 36 | 45 | 40.5 |  | Teacher |
| 2 | 2 | 18 | 25 | 21.5 |  | Student |
| 2 | 2 | 56 | 65 | 60.5 | A | Teacher |
| 2 | 1 | 65 |  | 66 | GS | Teacher |
|  |  |  |  |  |  |  |
|  |  |  |  | 43.05555556 |  |  |
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|  |  |  |  |  | Actual Travel Cost | Travel + Preparation Time + Event Time |
|  |  |  |  |  | 20.225 | 770.325 |
|  |  |  |  |  | 20.92718 | 309.37718 |
|  |  |  |  |  |  |  |
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| Event 7 Page 7 |  |  |  |
| :---: | :---: | :---: | :---: |
| Average Annual Income | Hourly Income Average | OK State Dept of Education Region Used | Description of Salary Standing |
| 50579 | 24.31682692 | Oklahoma City School District | $25+$ Years with a Bachelor's |
| 36825 | 17.70432692 | Moore Public School District | 5 Years with a bachelors |
| 35660 | 17.14423077 | Oklahoma City School District | 5 Years with a bachelors |
| 15080 |  | High School STUDENT | Potentially makes minimum wage, over 18 years |
| 45875 | 22.05528846 | Morris Public Schools Okmulgee | $25+$ Years with Graduate Degree |
| 39,743 | 19.10721154 | Henryetta Public Schools Okmulgee | 15+ years with bachleors |
| 15080 | 7.25 | High School STUDENT | Potentially makes minimum wage, over 18 years |
| 31600 | 15.19230769 | Newkirk uses minimum slary schedule | Minimum bachelor's degree beccause has Associates |
| 57745 | 27.76201923 | Moore Public School District | $35+Y$ Years with a master's degree |
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## Event 7 Page 8

| Actual Travel Cost | Time At Event Cost | TC+Time Spent |  | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |
| ---: | ---: | ---: | :--- | ---: | ---: | ---: | ---: |
| 24.31500673 | 145.9009615 | 170.2159683 |  | 42.86961923 | 145.9009615 | 188.7705808 |
| 42.06432692 | 106.2259615 | 148.2902885 |  | 82.11884615 | 106.2259615 | 188.3448077 |
| 13.21211538 | 102.8653846 | 116.0775 |  | 118.9090385 | 102.8653846 | 221.7744231 |
| 31.175 | 43.5 | 74.675 | 49.01 | 43.5 | 92.51 |  |
| 192.6211538 | 132.3317308 | 324.9528846 |  | 240.1964423 | 132.3317308 | 372.5281731 |
| 161.7216346 | 114.6432692 | 276.3649038 |  | 431.2576923 | 114.6432692 | 545.9009615 |
| 31.175 | 43.5 | 74.675 | 49.01 | 43.5 | 92.51 |  |
| 190.6892308 | 91.15384615 | 281.8430769 |  | 190.6892308 | 91.15384615 | 281.8430769 |
| 48.63453365 | 166.5721154 | 215.206649 |  | 66.55152404 | 166.5721154 | 233.1236394 |


| Event 8 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 Warr Acres | 10 |
|  | 2 Warr Acres Oklahoma County | 40 |
|  | 3 Bixby Tulsa County | 100 |
|  | 4 Sasakwa | 80 |
|  | 5 Sasakwa, Seminole Co | 90 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Number of Participants | 5 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 94.30423308 |  |
| Total Travel Cost | 471.5211654 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 263.69481 |  |
| Total Actual Travel + Time at Event | 1318.47405 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 194.1600344 |  |
| Total Willingness Travel Cost | 970.8001718 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 363.5506113 |  |
| Total Willingness Travel + Time at Event | 1817.753056 |  |
|  |  |  |
| Total Organzier Costs | 2279.1668 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 3597.64085 |  |
| Total Willing Participant + Organizer Costs Value | 4096.919856 |  |
|  |  |  |
| Response Rate | 33\% |  |
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| Organizer Data |  |  |
| Organizers | Expenditures | Planning Time (hrs) |
| Organizer 1 | 555.27 | 40 |
| Organizer 2 |  | 10 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Total Travel + Preparation Time + Time Spent at Event + Expenditures | 2279.1668 |  |
|  |  |  |
| Total Participants Registration Fee | 0 |  |


| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| :---: | :---: | :---: |
| 20 | 0.25 | 0.5 |
| 80 | 0.667 | 1.334 |
| 200 | 2 | 4 |
| 160 | 1.5 | 3 |
| 180 | 1.5 | 3 |
|  |  |  |
| 170 |  | 3 |
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| Organizer Benefit/Organizer Cost | 0 |  |
|  |  |  |
| Actual Value/Organizer Cost | 0.578489494 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 0.797551569 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.725331774 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 5 | 10 | 0.25 |
| 7 | 14 | 0.33 |
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| Event 8 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Willingness to Travel (time, hr) |
| 30 | 60 | 0.75 |
| 40 | 80 | 0.667 |
| 200 | 400 | 4 |
| 80 | 160 | 1.5 |
| 350 | 700 | 5 |
|  |  |  |
|  | 430 |  |
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| Organizer Cost Per Participant | 455.83336 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 0.5 | 1 | 0 |
| 0.66 | 1 | 0 |
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| Event 8 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 1.5 | 1 | 2 | 0.58 |
| 1.334 | 2 | 3 | 0.58 |
| 8 | 0 | 1 | 0.58 |
| 3 | 1 | 2 | 0.58 |
| 10 | 2 | 3 | 0.58 |
|  |  |  |  |
| 6.5 |  | 2.5 |  |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 7 | 23 |
| 0.58 | 0.58 | 7 |  |
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| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.29 | 0 | 7 | 0 | 0 |
| 0.193333333 | 0 | 7 | 0 | 0 |
| 0.58 | 0 | 7 | 0 | 0 |
| 0.29 | 0 | 7 | 0 | 0 |
| 0.193333333 | 0 | 7 | 0 | 0 |
|  |  |  |  |  |
| 0.241666667 | 0 | 7 | 0 |  |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 15 | 0 | 28.85 |  |  |
|  |  | 19.23 |  |  |
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Event 8 Page 6
Work Related? $\mathrm{N}=\mathbf{1} \mathrm{Y}=\mathbf{2}$ Gender $\mathbf{M}=\mathbf{1 F = 2}$ Low Age High Age Representative Age Education

| 2 | 2 | 56 | 65 | 60.5 B |
| ---: | ---: | ---: | ---: | ---: |
| 1 | 2 | 65 |  | 66 B |
| 2 | 2 | 56 | 65 | 60.5 B |
| 2 | 2 | 46 | 55 | 50.5 B |
| 2 | 2 | 36 | 45 | 40.5 GS |


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| Event 8 Page 7 |  |  |
| :---: | :---: | :---: |
| Job Classification | Average Annual Income | Hourly Income Average |
| Teacher | 56,108 | 26.975 |
| Retired Teacher | 56,108 | 26.975 |
| NonProfit | 55,000 | 26.44230769 |
| Teacher | 43,325 | 20.82932692 |
| Teacher | 41,125 | 19.77163462 |
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| Travel + Preparation + Event Time |  |  |
| 1376.175 |  |  |
| 347.7218 |  |  |
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| Event 8 Page 8 |  |  |
| :---: | :---: | :---: |
| OK State Dept of Education Region Used | Description of Salary Standing |  |
| Putnam City School District | 35+ Years Bachelors |  |
| Putnam City School District | 35+Years Bachelors |  |
| Workforce Data OK Dept Commerce | Tulsa County Average Yearly Income |  |
| Minimum Schedule, used by sasakwa | 25+Years Bachelors |  |
| Minimum Schedule, used by sasakwa | 15+ Years Grad Degree |  |
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## Event 8 Page 9

| Actual Travel Cost | Time At Event Cost | TC+Time Spent | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 19.2875 | 188.825 | 208.1125 | 57.8625 | 188.825 | 246.6875 |
| 27.46155 | 188.825 | 216.28655 | 27.46155 | 188.825 | 216.28655 |
| 221.7692308 | 185.0961538 | 406.8653846 | 443.5384615 | 185.0961538 | 628.6346154 |
| 108.8879808 | 145.8052885 | 254.6932692 | 108.8879808 | 145.8052885 | 254.6932692 |
| 94.11490385 | 138.4014423 | 232.5163462 | 333.0496795 | 138.4014423 | 471.4511218 |
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| Event 9 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 14 | 0.33 | 0.66 |
| 14 | 0.33 | 0.66 |
|  |  |  |
| 14 |  | 0.66 |
|  |  |  |
|  |  |  |
|  |  |  |
| Organizer Benefit/Organizer Cost | 1.17873982 |  |
|  |  |  |
| Actual Value/Organizer Cost | 0.784091409 |  |
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| Willingness Value/Organizer Cost | 0.993693238 |  |
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| Ratio of Actual / Willingness | 0.789067872 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 81 | 162 | 1.5 |
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| Event 9 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Willingness to Travel (time, hr) |
| 32 | 64 | 1.52 |
| 27 | 54 | 1.28 |
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|  | 59 |  |
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| Organizer Cost Per Participant | 139.98 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 3 | 1 | 0 |
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| Event 9 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 3.04 | 1 | 2 | 0.58 |
| 2.56 | 1 | 2 | 0.58 |
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| 2.8 |  | 2 |  |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 2 | 6 |
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| Event 9 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.29 | 55 | 2 | 0 | 0 |
| 0.29 | 55 | 2 | 0 | 0 |
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| 0.29 | 55 | 2 | 0 |  |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 3 | 55 | 18 |  |  |
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Event 9 Page 6
Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ Gender M=1 F=2 Low Age High Age Representative Age Education Job Classification

| 1 | 1 | 65 | 66 G | Retired |
| ---: | ---: | ---: | ---: | :--- |
| 1 | 1 | 65 | 66 G | Retired |


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Event 9 Page 7
Average Annual Income Hourly Income Average OK Dept of Commerce Region Used Central Ecosystem Profile (Oklahoma Dept of Commerce)

| 47500 | 22.83653846 | Southwestern | Average Income by Scientific/Technical Insdustry |
| :---: | :---: | :---: | :---: |
| 47500 | 22.83653846 | Southwestern | Average Income by Scientific/Technical Insdustry |
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## Event 9 Page 8

| Actual Travel Cost | Time At Event Cost | TC+Time Spent | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 64.08403846 | 45.67307692 | 109.7571154 | 96.70102564 | 45.67307692 | 142.3741026 |
| 64.08403846 | 45.67307692 | 109.7571154 | 90.14717949 | 45.67307692 | 135.8202564 |
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| Event 10 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 Bartlesville, Washington County | 50 |
|  | 2 Tulsa, Tulsa County | 10 |
|  | 3 Tulsa, Tulsa County | 15 |
|  | 4 Tulsa, Tulsa County | 8 |
|  | 5 Tulsa, Tulsa County | 10 |
|  | 6 Tulsa, Tulsa County | 4.8 |
|  | 7 Tulsa, Tulsa County | 5 |
|  | 8 Broken Arrow, Wagoner County | 20 |
|  | 9 Owasso, Tulsa County | 20 |
|  | 10 Stratford, Garvin County | 120 |
|  | 11 Stratford, Garvin County | 120 |
|  | 12 Tulsa, Tulsa County | 10 |
|  | 13 Tulsa, Tulsa County | 8 |
|  | 14 Okmulgee, Okmulgee County | 35 |
|  | 15 Okemah, Okfuskee County | 60 |
|  | 16 Norman, Cleveland | 105 |
|  | 17 Broken Arrow, Wagoner County | 25 |
|  | 18 Tulsa, Tulsa County | 8 |
|  | 19 Tulsa, Creek County | 4.6 |
|  | 20 Tulsa, Tulsa County | 10 |
|  | 21 Tulsa, Tulsa County | 6 |
|  | 22 Tulsa, Tulsa County | 6 |
|  | 23 Bristow, Creek County | 30 |
|  | 24 Beggs, Okmulgee County | 40 |
|  | 25 Tulsa, Tulsa County | 10 |
|  |  |  |


| Event 10 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 100 | 1 | 2 |
| 20 | 0.25 | 0.5 |
| 30 | 0.33 | 0.66 |
| 16 | 0.33 | 0.66 |
| 20 | 0.5 | $\square 1$ |
| 9.6 | 0.112 | 0.224 |
| 10 | 0.166 | 0.332 |
| 40 | 0.5 | - 1 |
| 40 | 0.33 | 0.66 |
| 240 | 3 | 6 |
| 240 | 2 | 4 |
| 20 | 0.25 | 0.5 |
| 16 | 0.25 | 0.5 |
| 70 | 0.75 | 1.5 |
| 120 | 1 | 2 |
| 210 | 1.9167 | 3.8334 |
| 50 | 0.4167 | 0.8334 |
| 16 | 0.2 | 0.4 |
| 9.2 | 0.133 | 0.266 |
| 20 | 1.1667 | 2.3334 |
| 12 | 0.1667 | 0.3334 |
| 12 | 0.25 | 0.5 |
| 60 | 0.5 | 1 |
| 80 | 0.667 | 1.334 |
| 20 | 0.25 | 0.5 |
|  |  |  |

Event 10 Page 3
Willingness to Travel (dist, miles) Willingness Round Trip Distance (mi) Willingness to Travel (time, hr)

| 100 | 200 | 2 |
| ---: | ---: | ---: |
| 33.33 | 66.66 | 0.75 |
| 60 | 120 | 1.15 |
| 25 | 50 | 2.08 |
| 40 | 80 | 0.666 |
| 64.8 | 129.6 | 1.575 |
| 5 | 10 | 0.166 |
| 80 | 160 | 2 |
| 20 | 40 | 0.33 |
| 160 | 320 | 4 |
| 180 | 360 | 3 |
| 40 | 80 | 1.25 |
| 32 | 64 | 1 |
| 58.33 | 116.66 | 1.25 |
| 60 | 120 | 1 |
| 105 | 210 | 1.9167 |
| 100 | 200 | 1.667 |
| 68 | 136 | 1.7 |
| 14.6 | 29.2 | 0.41 |
| 60 | 120 | 1 |
| 72 | 144 | 2 |
|  | 32 | 0.6667 |
|  | 120 | 1 |
|  | 120 | 1 |
|  | 40 | 0.5 |


| Event 10 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 4 | 0 | 1 | 0.58 |
| 1.5 | 0 | 1 | 0.58 |
| 2.3 | 0 | 1 | 0.58 |
| 4.16 | 0 | 1 | 0.58 |
| 1.332 | 0 | 1 | 0.58 |
| 3.15 | 0 | 1 | 0.58 |
| 0.332 | 0 | 1 | 0.58 |
| 4 | 0 | 1 | 0.58 |
| 0.66 | 1 | 2 | 0.58 |
| 8 | 1 | 2 | 0.58 |
| 6 | 2 | 3 | 0.58 |
| 2.5 | 1 | 2 | 0.58 |
| 2 | 1 | 2 | 0.58 |
| 2.5 | 1 | 2 | 0.58 |
| 2 | 1 | 2 | 0.58 |
| 3.8334 | 0 | 1 | 0.58 |
| 3.334 | 0 | 1 | 0.58 |
| 3.4 | $\square$ | 2 | 0.58 |
| 0.82 | 0 | 1 | 0.58 |
| 2 | 0 | 1 | 0.58 |
| 4 | 0 | 1 | 0.58 |
| 1.3334 | 0 | 1 | 0.58 |
| 2 | 0 | 1 | 0.58 |
| 2 | 0 | 1 | 0.58 |
| 1 | 0 | 1 | 0.58 |
|  |  |  |  |


| Event 10 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.58 | 35 | 14 | 0 | 0 |
| 0.58 | 25 | 8 | 0 | 0 |
| 0.58 | 15 | 8 | 0 | 0 |
| 0.58 | 25 | 7 | 0 | 0 |
| 0.58 | 15 | 8 | 0 | 0 |
| 0.58 | 25 | 16 | 0 | 0 |
| 0.58 | 25 | 16 | 0 | 0 |
| 0.58 | 25 | 16 | 0 | 0 |
| 0.29 | 25 | 17 | 0 | 0 |
| 0.29 | 25 | 16 | 0 | 100 |
| 0.193333333 | 25 | 16 | 0 | 100 |
| 0.29 | 25 | 14 | 0 | 10 |
| 0.29 | 25 | 8 | 0 | 0 |
| 0.29 | 25 | 16 | 0 | 0 |
| 0.29 | 25 | 16 | 0 | 0 |
| 0.58 | 25 | 16 | 0 | 200 |
| 0.58 | 25 | 8 | 0 | 0 |
| 0.29 | 25 | 8 | 0 | 0 |
| 0.58 | 25 | 16 | 0 | 0 |
| 0.58 | 25 | 16 | 0 | 0 |
| 0.58 | 25 | 16 | 0 | 0 |
| 0.58 | 25 | 16 | 0 | 0 |
| 0.58 | 25 | 16 | 0 | 0 |
| 0.58 | 35 | 16 | 0 | 0 |
| 0.58 | 25 | 14 | 0 |  |
|  |  |  |  |  |

## Event 10 Page 6

Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ Gender $\mathrm{M}=1 \mathrm{~F}=2$ Low Age High Age Representative Age Education Job Classification


| Event 10 Page 7 |  |  |  |
| :---: | :---: | :---: | :---: |
| Average Annual Income | Hourly Income Average | OK Dept of Commerce Region Used | Profile Used |
| 33966.4 | 16.33 | OK DEPT COMM: Tulsa Metro | Maintenance Worker |
| 75000 | 36.05769231 | OK DEPT COMM: Tulsa Metro | Average Income Professional, Scientific and Technical Services |
| 55000 | 26.44230769 | OK DEPT COMM: Tulsa Metro | Tulsa Metro Average Income |
| 55000 | 26.44230769 | OK DEPT COMM: Tulsa Metro | Tulsa Metro Average Income |
| 55000 | 26.44230769 | OK DEPT COMM: Tulsa Metro | Tulsa Metro Average Income |
| 35900 | 17.25961538 | Oklahoma Teacher Salary Schedule Tulsa-Tulsa | Teacher 5 Years, Bachelors |
| 43844 | 21.07884615 | 5 Oklahoma Teacher Salary Schedule Tulsa-Tulsa | Teacher 15 Years, Masters |
| 39959 | 19.21105769 | Oklahoma Teacher Salary Schedule -Broken Arrown | Teacher 15 Years Bachelors |
| 26590 | 12.78365385 | (Bureau of Labor Statistics) | Graduate Teaching Assistant Wage |
| 15080 |  | Minimum Wage | High School Student 18+ |
| 50000 | 24.03846154 | OK DEPT COMM: Southern | Average Income Professional, Scientific and Technical Services |
| 75000 | 36.05769231 | OK DEPT COMM: Tulsa Metro | Average Income Professional, Scientific and Technical Services |
| 55000 | 26.44230769 | OK DEPT COMM: Tulsa Metro | Tulsa Metro Average Income |
| 42000 | 20.19230769 | OK DEPT COMM Region: East Central | Average Income Professional, Scientific and Technical Services |
| 43325 | 20.82932692 | 2 Ok ahoma Teacher Salary Schedule | Teacher 25+ Years Experience, Bachelor's Min. Salary |
| 15080 |  | Minimum Wage | College Student, no bachelors |
| 75000 | 36.05769231 | OK DEPT COMM: Tulsa Metro | Average Income Professional, Scientific and Technical Services |
| 55000 | 26.44230769 | OK DEPT COMM: Tulsa Metro | Tulsa Metro Average Income |
| 40700 | 19.56730769 | Oklahoma Teacher Salary Schedule | Teacher 15 Years Experience, Master's Min Salary |
| 52044 | 25.02115385 | Oklahoma Teacher Salary Schedule Tulsa-Tulsa | Teacher 25 Years, Masters |
| 37094 | 17.83365385 | Oklahoma Teacher Salary Schedule Tulsa-Tulsa | Teacher 5 Years, Masters |
| 35900 | 17.25961538 | Oklahoma Teacher Salary Schedule Tulsa-Tulsa | Teacher 5 Years, Bachelors |
| 39841 | 19.15432692 | Oklahoma Teacher Salary Schedule Creek/Bristow | Teacher 15 Years Experience, Bachelors |
| 42000 | 20.19230769 | OK DEPT COMM Region: East Central | Average Income Professional, Scientific and Technical Services |
| 43844 | 21.07884615 | Oklahoma Teacher Salary Schedule Tulsa-Tulsa | Teacher 15 Years Experience, Master's |
|  |  |  |  |

## Event 10 Page 8

Actual Travel Cost Time At Event Cost TC+Time Spent

| 103.8866667 | 228.62 | 332.5066667 | 172.7733333 | 228.62 | 401.3933333 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 54.62884615 | 288.4615385 | 343.0903846 | 81.69164615 | 288.4615385 | 370.1531846 |
| 49.85192308 | 211.5384615 | 261.3903846 | 104.8724359 | 211.5384615 | 316.4108974 |
| 40.09730769 | 185.0961538 | 225.1934615 | 90.66666667 | 185.0961538 | 275.7628205 |
| 53.04230769 | 211.5384615 | 264.5807692 | 73.14038462 | 211.5384615 | 284.6788462 |
| 34.43415385 | 276.1538462 | 310.588 | 118.2905962 | 276.1538462 | 394.4444423 |
| 37.79817692 | 337.2615385 | 375.0597154 | 33.13272564 | 337.2615385 | 370.3942641 |
| 67.41105769 | 307.3769231 | 374.7879808 | 143.4147436 | 307.3769231 | 450.7916667 |
| 39.41240385 | 217.3221154 | 256.7345192 | 39.41240385 | 217.3221154 | 256.7345192 |
| 209.1 | 116 | 325.1 | 237.1333333 | 116 | 353.1333333 |
| 203.4512821 | 384.6153846 | 588.0666667 | 242.6769231 | 384.6153846 | 627.2923077 |
| 58.82884615 | 504.8076923 | 563.6365385 | 88.24807692 | 504.8076923 | 593.0557692 |
| 34.04705128 | 211.5384615 | 245.5855128 | 61.18820513 | 211.5384615 | 272.7266667 |
| 75.58846154 | 323.0769231 | 398.6653846 | 75.65832308 | 323.0769231 | 398.7352462 |
| 73.68621795 | 333.2692308 | 406.9554487 | 73.68621795 | 333.2692308 | 406.9554487 |
| 356.06405 | 116 | 472.06405 | 356.06405 | 116 | 472.06405 |
| 84.05048077 | 288.4615385 | 372.5120192 | 181.0721154 | 288.4615385 | 469.5336538 |
| 40.21692308 | 211.5384615 | 251.7553846 | 94.40794872 | 211.5384615 | 305.9464103 |
| 35.54090385 | 313.0769231 | 348.6178269 | 47.28439744 | 313.0769231 | 360.3613205 |
| 94.98436038 | 400.3384615 | 495.3228219 | 111.2807692 | 400.3384615 | 511.6192308 |
| 37.90574019 | 285.3384615 | 323.2442017 | 132.2982051 | 285.3384615 | 417.6366667 |
| 40.58980769 | 276.1538462 | 316.7436538 | 51.23132372 | 276.1538462 | 327.3851699 |
| 78.95432692 | 306.4692308 | 385.4235577 | 107.3695513 | 306.4692308 | 413.8387821 |
| 108.3365385 | 323.0769231 | 431.4134615 | 118.0615385 | 323.0769231 | 441.1384615 |
| 47.13942308 | 295.1038462 | 342.2432692 | 55.22628205 | 295.1038462 | 350.3301282 |
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| Event 10 Page 10 |  |  |
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| Organizer Benefit/Organizer Cost | 0.161064771 |  |
|  |  |  |
| Actual Value/Organizer Cost | 1.707529433 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 1.865038451 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.915546504 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 392 | 784 | 1.5 |
| 784 | 1568 | 3 |
| 15 | 30 | 0.25 |
| 127 | 254 | 1.25 |
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| Event 10 Page 11 |  |  |
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| Organizer Cost Per Participa | 211.0952 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 3 | 1 | 0 |
| 6 | 1 | 0 |
| 0.5 | 1 | 0 |
| 2.5 | 1 | 0 |
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| Event 10 Page 12 |  |  |  |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 8 | 34 |
| 0.58 | 0.58 | 16 |  |
| 0.58 | 0.58 | 16 |  |
| 0.58 | 0.58 | 16 |  |
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| Event 10 Page 13 |  |  |  |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |
| 28 | 25 | 25 |  |
|  |  | 25 |  |
|  |  | 25 |  |
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| Actual Travel Cost | Travel + Preparation + Event Time |  |
| 529.72 | 1354.72 |  |
| 1059.44 | 1459.44 |  |
| 29.9 | 429.9 |  |
| 209.82 | 609.82 |  |
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| Event 11 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 OKC, Oklahoma County | 80 |
|  | 2 Jones, Oklahoma County | 90 |
|  | 3 OKC, Oklahoma County | 80 |
|  | 4 Ada, Pontotoc County | 120 |
|  | 5 Indiahoma, OK Comanche County | 30 |
|  | 6 Lawton, Comanche County | 10 |
|  | 7 Elgin, Comanche County | 30 |
|  | 8 Lawton, Comanche County | 2 |
|  | 9 Altus, Jackson County | 50 |
|  | 10 Yukon, Canadian County | 83 |
|  | 11 OKC Nichols Hills, Oklahoma County | 90 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Number of Participants | 11 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 306.3676538 |  |
| Total Travel Cost | 3370.044191 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 524.4834579 |  |
| Total Actual Travel + Time at Event | 5769.318037 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 398.2290367 |  |
| Total Willingness Travel Cost Per Participant | 4380.519404 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 616.3448409 |  |
| Total Willingness Travel + Time at Event | 6779.79325 |  |
|  |  |  |
| Total Organzier Costs | 470.8 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 6240.118037 |  |
| Total Willing Participant + Organizer Costs Value | 7250.59325 |  |
|  |  |  |
| Response Rate | 100\% |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Organizer Data |  |  |
| Organizers | Expenditures | Planning Time (hrs) |
| Organizer 1 | 0 | 10 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Total Travel + Preparation Time + Time Spent at Event + Expenditures | 470.8 |  |
|  |  |  |
| Total Participants Registration Fee | 2200 |  |


| Event 11 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 160 | 1.5 | 3 |
| 180 | 1.5 | 3 |
| 160 | 1.5 | 3 |
| 240 | 2 | 4 |
| 60 | 0.5 | 1 |
| 20 | 0.25 | 0.5 |
| 60 | 0.5 | 1 |
| 4 | 0.083 | 0.166 |
| 100 | 1 | 2 |
| 166 | 1.5 | 3 |
| 180 | 1.5 | 3 |
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| Organizer Benefit/Organizer Cost | 4.672897196 |  |
|  |  |  |
| Actual Value/Organizer Cost | 12.2542864 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 14.40058039 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.850957813 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 80 | 160 | 1.5 |
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| Event 11 P |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Willingness to Travel (time, hr) |
| 236 | 472 | 3.5 |
| 150 | 300 | 2.5 |
| 80 | 160 | 1.5 |
| 120 | 240 | 2 |
| 60 | 120 | 1 |
| 350 | 700 | 5.833 |
| 120 | 240 | 2 |
| 102 | 204 | 4.25 |
| 138 | 276 | 3 |
| 100 | 200 | 1.76 |
| 210 | 420 | 3.5 |
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| Organizer Cost Per Participant | 42.8 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 3 | 1 | 0 |
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| Event 11 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 7 | 2 | 3 | 0.58 |
| 5 | 2 | 3 | 0.58 |
| 3 | 2 | 3 | 0.58 |
| 4 | 0 | 1 | 0.58 |
| 2 | 0 | 1 | 0.58 |
| 11.666 | 2 | 3 | 0.58 |
| 4 | 0 | 1 | 0.58 |
| 8.5 | 2 | 3 | 0.58 |
| 6 | 0 | 1 | 0.58 |
| 3.52 | 0 | 1 | 0.58 |
| 7 | 1 | 2 | 0.58 |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 8 | 11 |
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| Event 11 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.193333333 | 200 | 8 | 1 | 0 |
| 0.193333333 | 200 | 8 | 0 | 0 |
| 0.193333333 | 200 | 8 | 1 | 0 |
| 0.58 | 200 | 8 | 0 | 0 |
| 0.58 | 200 | 8 | 0 | 0 |
| 0.193333333 | 200 | 8 | 0 | 0 |
| 0.58 | 200 | 8 | 0 | 0 |
| 0.193333333 | 200 | 8 | 0 | 0 |
| 0.58 | 200 | 8 | 0 | 0 |
| 0.58 | 200 | 8 | 0 | 0 |
| 0.29 | 200 | 8 | 0 | 0 |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 11 | 200 | 18 |  |  |
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| Event 11 Page 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ | Gender M=1 F=2 | Low Age | High Age | Representative Age | Education | Job Classification |
| 2 | 21 | 26 | 35 | 30.5 |  | Environmental Scientist/Engineer |
| 2 | 1 | 18 | 25 | 21.5 |  | Environmental Scientist |
| 2 | 2 | 26 | 35 | 30.5 |  | Environmental Scientist |
| 2 | 2 | 46 | 55 | 50.5 |  | Environmental Specialist |
| 2 | 2 | 26 | 35 | 30.5 |  | Environmental Scientist |
| 2 | 21 | 56 | 65 | 60.5 |  | Inspector |
| 2 | 2 | 36 | 45 | 40.5 |  | Environmental Scientist |
| 2 | 1 | 65 |  | 65 |  | Civil Engineer |
| 2 | 21 | 46 | 55 | 50.5 |  | Civil Engineer |
| 2 | 2 | 46 | 55 | 50.5 |  | Stormwater Program Manager |
| 2 | 2 | 56 | 65 | 60.5 |  | Environmental Scientist/Geoscientist/Hydrologist |
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|  |  |  |  |  | Actual Travel Cost | Travel + Preparation + Event Time |
|  |  |  |  |  | 146.8 | 470.8 |
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## Event 11 Page 7

| Average Annual | 兂 | d | Central Ecosystem Profile (Oklahoma Dept of Commerce) |
| :---: | :---: | :---: | :---: |
| 46904 |  | Central Oklahoma | Env. Scientist/Specialists |
| 46904 |  | Central Oklahoma | Env. Scientist/Specialists |
| 46904 |  | Central Oklahoma | Env. Scientist/Specialists |
| 46000 | 22.11538462 | Southern Oklahoma | Avg Earning by Industry: Professional Scientific and Technical Services |
| 48000 | 23.07692308 | Southwestern Oklahoma | Avg Earning by Industry: Professional Scientific and Technical Services |
| 29140.8 |  | Southwestern Oklahoma | Inspectors, Testers, Sorters, Samplers \& Weighers |
| 48000 | 23.07692308 | Southwestern Oklahoma | Avg Earning by Industry: Professional Scientific and Technical Services |
| 76523.2 |  | Southwestern Oklahoma | Industrial Engineers |
| 76523.2 |  | Southwestern Oklahoma | Industrial Engineers |
| 79456 |  | Central Oklahoma | General/Operations Managers (Graduate Degree) |
| 79456 |  | Central Oklahoma | General/Operations Managers (Graduate Degree) |
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Event 11 Page 8

| Actual Travel Cost | Time At Event Cost | TC+Time Spent | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 298.5833333 | 180.4 | 478.9833333 | 388.7833333 | 180.4 | 569.1833333 |
| 302.45 | 180.4 | 482.85 | 347.55 | 180.4 | 527.95 |
| 298.5833333 | 180.4 | 478.9833333 | 298.5833333 | 180.4 | 478.9833333 |
| 427.6615385 | 176.9230769 | 604.5846154 | 427.6615385 | 176.9230769 | 604.5846154 |
| 257.8769231 | 184.6153846 | 442.4923077 | 280.9538462 | 184.6153846 | 465.5692308 |
| 210.8716667 | 112.08 | 322.9516667 | 367.3073267 | 112.08 | 479.3873267 |
| 257.8769231 | 184.6153846 | 442.4923077 | 327.1076923 | 184.6153846 | 511.7230769 |
| 206.8804733 | 294.32 | 501.2004733 | 513.4883333 | 294.32 | 807.8083333 |
| 331.58 | 294.32 | 625.9 | 478.74 | 294.32 | 773.06 |
| 410.88 | 305.6 | 716.48 | 430.744 | 305.6 | 736.344 |
| 366.8 | 305.6 | 672.4 | 519.6 | 305.6 | 825.2 |
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| Event 12 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
| 1 | Norman, Cleveland County | 3 |
| 2 | Lexington, Cleveland County | 40 |
| 3 | Oklahoma County | 25 |
| 4 | Midwest City, Oklahoma County | 20 |
| 5 | Midwest City, Oklahoma County | 50 |
| 6 | Norman, Cleveland County | 5 |
| 7 | Edmond, Oklahoma City | 50 |
| 8 | Norman, Cleveland County | 10 |
| 9 | Edmond, Oklahoma City | 37 |
| 10 | Midwest City, Oklahoma County | 30 |
| 11 | Quapaw, OK, Ottawa County | 215 |
| 12 | Miami, OK, Ottawa County | 204.7 |
| 13 | Edmond, Oklahoma City | 32.4 |
| 14 | Midwest City, Oklahoma County | 30 |
| 15 | Anadarko, Caddo County | 55 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Number of Participants | 15 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 274.7511611 |  |
| Total Travel Cost | 4121.267417 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 628.4250073 |  |
| Total Actual Travel + Time at Event | 9426.375109 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 375.9632928 |  |
| Total Willingness Travel Cost Per Participant | 5639.449391 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 729.6371389 |  |
| Total Willingness Travel + Time at Event | 10944.55708 |  |
|  |  |  |
| Total Organzier Costs | 635 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 10061.37511 |  |
| Total Willing Participant + Organizer Costs Value | 11579.55708 |  |
|  |  |  |
| Response Rate | 100\% |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Organizer Data |  |  |
| Organizers | Expenditures | Planning Time (hrs) |
| Organizer 1 | 635 | 25 |
| Organizer 2 |  | 25 |
| Organizer 3 |  | 3 |
| Organizer 4 |  | 3 |
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| Averages |  |  |
|  |  |  |
| Total Travel + Preparation Time+ Time Spent at Event + Expenditures | 2183.2764 |  |
|  |  |  |
| Total Participants Registration Fee | 2625 |  |


| Event 12 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 6 | 0.25 | 0.5 |
| 80 | 0.75 | 1.5 |
| 50 | 0.667 | 1.334 |
| 40 | 0.583 | 1.166 |
| 100 | 0.833 | 1.666 |
| 10 | 0.25 | 0.5 |
| 100 | 1 | 2 |
| 20 | 0.33 | 0.66 |
| 74 | 1 | 2 |
| 60 | 0.5 | - 1 |
| 430 | 3.5 | 7 |
| 409.4 | 3 | 6 |
| 64.8 | 0.75 | 1.5 |
| 60 | 0.833 | 1.666 |
| 110 | 0.917 | 1.834 |
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| Organizer Benefit/Organizer Cost | 1.202321428 |  |
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| Actual Value/Organizer Cost | 4.3175363 |  |
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| Willingness Value/Organizer Cost | 5.012904955 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.861284293 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 4 | 8 | 0.0833 |
| 4 | 8 | 0.0833 |
| 4 | 8 | 0.0833 |
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| Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Willingness to Travel (time, hr) |
| 75 | 150 | 1.25 |
| 90 | 180 | 1.688 |
| 45 | 90 | 1.2 |
| 120 | 240 | 3.5 |
| 50 | 100 | 0.833 |
| 5 | 10 | 0.25 |
| 50 | 100 | 1 |
| 50 | 100 | 1.33 |
| 74 | 148 | 2 |
| 90 | 180 | 1.5 |
| 450 | 900 | 4.5 |
| 204.7 | 409.4 | 3 |
| 350 | 700 | 5.833 |
| 350 | 700 | 5.833 |
| 55 | 110 | 0.917 |
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| Organizer Cost Per Participant | 42.33333333 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 0.1666 | 2 | 0 |
| 0.1666 | 2 |  |
| 0.1666 | 1 |  |
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| Event 12 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 2.5 | 0 | 1 | 0.58 |
| 3.376 | 0 | 1 | 0.58 |
| 2.4 | 3 | 4 | 0.58 |
| 7 | 0 | 1 | 0.58 |
| 1.666 | 3 | 4 | 0.58 |
| 0.5 | 0 | 1 | 0.58 |
| 2 | 2 | 3 | 0.58 |
| 2.66 | 0 | 1 | 0.58 |
| 4 | 2 | 3 | 0.58 |
| 3 | 4 | 5 | 0.58 |
| 9 | 1 | 2 | 0.58 |
| 6 | 1 | 2 | 0.58 |
| 11.666 | 3 | 4 | 0.58 |
| 11.666 | 3 | 4 | 0.58 |
| 1.834 | 0 | 1 | 0.58 |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.29 | 14 | 15 |
| 0.58 | 0.29 | 14 |  |
| 0.58 | 0.58 | 4 |  |
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| Event 12 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.58 | 175 | 16 | 0 | 0 |
| 0.58 | 175 | 16 | 0 | 0 |
| 0.145 | 175 | 16 | 0 | 0 |
| 0.58 | 175 | 16 | 0 | 0 |
| 0.145 | 175 | 16 | 0 | 0 |
| 0.58 | 175 | 16 | 0 | 0 |
| 0.193333333 | 175 | 16 | 0 | 0 |
| 0.58 | 175 | 16 | 0 | 0 |
| 0.193333333 | 175 | 8 | 0 | 0 |
| 0.116 | 175 | 16 | 0 | 0 |
| 0.29 | 175 | 16 | 0 | 0 |
| 0.29 | 175 | 16 | 0 | 300 |
| 0.145 | 175 | 16 | 0 | 0 |
| 0.145 | 175 | 16 | 0 | 0 |
| 0.58 | 175 | 16 | 0 | 0 |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 15 | 175 | 18 |  |  |
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## Event 12 Page 6

Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ Gender M=1 F=2 Low Age High Age Representative Age Education Job Classification

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 2 | 18 | 25 | 21.5 |  | Environmental Scientist/Hydrologist |
| 2 | 2 | 36 | 45 |  |  | Stormwater Inspector |
| 2 | 1 | 26 | 35 | 30.5 |  | Environmental Scientist/Stormwater Tech |
| 2 | 2 | 26 | 35 | 30.5 | HS | Environmental Tech |
| 2 | 2 | 26 | 35 | 30.5 | B | Environmental Scientist |
| 2 | 1 | 26 | 35 | 30.5 | HS | Environmental Scientist |
| 2 | 1 | 46 | 55 | 50.5 | GS | Civil Engineer |
| 2 | 1 | 26 | 35 | 30.5 | GS | Hydrologist |
| 2 | 2 | 26 | 35 | 30.5 | GS | Water Quality Specialist |
| 2 | 1 | 18 | 25 | 21.5 | A | Stormwater Quality Technician |
| 2 | 2 | 18 | 25 | 21.5 | B | Environmental Scientist |
| 2 | 2 | 18 | 25 | 21.5 | B | Environmental Scientist |
| 2 | 2 | 26 | 35 | 30.5 | B | Water Specialist |
| 2 | 1 | 36 | 45 | 40.5 | A | Environmental Specialist |
| 2 | 1 | 26 | 35 | 30.5 | HS | Environmental Scientist |
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|  |  |  |  |  |  | Actual Travel Cost |
|  |  |  |  |  |  | 5.3188 |
|  |  |  |  |  |  | 5.3188 |
|  |  |  |  |  |  | 7.6388 |
|  |  |  |  |  |  |  |

Event 12 Page 7

| Annual Average Income | Hourly Income Average | ept of Commerce Region Used | ral Ecosystem Profile (Oklahoma Dept of Commerce) |
| :---: | :---: | :---: | :---: |
| 46904 |  | Central Oklahoma | Environmental Scientists and Specialists |
| 24835.2 |  | Central Oklahoma | Inspectors, Testers, Sorters, Samplers \& Weighers |
| 46904 |  | Central Oklahoma | Environmental Scientists and Specialists |
| 24835.2 |  | Central Oklahoma | Inspectors, Testers, Sorters, Samplers \& Weighers |
| 46904 |  | Central Oklahoma | Environmental Scientists and Specialists |
| 24835.2 |  | Central Oklahoma | Inspectors, Testers, Sorters, Samplers \& Weighers |
| 72550.4 | 34.88 | Central Oklahoma | Civil Engineers |
| 79456 |  | Central Oklahoma | General \& Operations Managers: Grad Degree |
| 79456 |  | Central Oklahoma | General \& Operations Managers: Grad Degree |
| 46904 |  | Central Oklahoma | Inspectors, Testers, Sorters, Samplers \& Weighers |
| 47000 | 22.59615385 | Eastern Oklahoma | Average Income: Professional Scientific and Tech Services |
| 47000 | 22.59615385 | Eastern Oklahoma | Average Income: Professional Scientific and Tech Services |
| 46904 |  | Central Oklahoma | Environmental Scientists and Specialists |
| 46904 | 22.55 | Central Oklahoma | Environmental Scientists and Specialists |
| 48000 | 23.07692308 | Southwestern Oklahoma | Average Income: Professional Scientific and Tech Services |
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| Travel + Preparation + Event Time |  |  |  |
| 707.3188 |  |  |  |
| 707.3188 |  |  |  |
| 133.6388 |  |  |  |
|  |  |  |  |




| Event 13 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 16 | 0.25 | 0.5 |
| 10 | 0.1667 | 0.3334 |
| 16 | 0.1667 | 0.3334 |
| 16 | 0.1667 | 0.3334 |
| 30 | 0.333 | 0.666 |
| 30 | 0.33 | 0.66 |
| 12 | 0.1667 | 0.3334 |
| 20 | 0.333 | 0.666 |
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|  |  |  |
| Organizer Benefit/Organizer Cost | 1.019024256 |  |
|  |  |  |
| Actual Value/Organizer Cost | 1.398263348 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 1.618284658 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.864040415 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 37.7 | 75.4 | 0.75 |
| 37.7 | 75.4 | 0.75 |
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| Event 13 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Willingness to Travel (time, hr) |
| 16 | 32 | 0.5 |
| 25 | 50 | 0.833 |
| 23 | 46 | 0.479 |
| 44 | 88 | 0.9167 |
| 45 | 90 | 1 |
| 45 | 90 | 1 |
| 6 | 12 | 0.1667 |
| 25 | 50 | 0.833 |
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| Organizer Cost Per Participant | 67.4665 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 1.5 | 2 | 0 |
| 1.5 | 2 | 0 |
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| Event 13 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 1 | 0 | 1 | 0.58 |
| 1.666 | 1 | 2 | 0.58 |
| 0.958 | 1 | 2 | 0.58 |
| 1.8334 | 1 | 2 | 0.58 |
| 2 | 2 | 3 | 0.58 |
| 2 | 2 | 3 | 0.58 |
| 0.3334 | 0 | 1 | 0.58 |
| 1.666 | 1 | 2 | 0.58 |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.29 | 2 | 10 |
| 0.58 | 0.29 | 2 | 10 |
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| Event 13 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration | Time at Event (hrs) | Time in Town (Outside Event Hrs) | r Costs |
| 0.58 | 55 | 2 | 0 | 0 |
| 0.29 | 55 | 2 | 0 | 0 |
| 0.29 | 55 | 2 | 0 | 0 |
| 0.29 | 55 | 2 | 0 | 0 |
| 0.193333333 | 55 | 2 | 0 | 0 |
| 0.193333333 | 55 | 2 | 0 | 0 |
| 0.58 | 55 | 2 | 0 | 0 |
| 0.29 | 55 | 2 | 0 | 0 |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 8 | 55 | 18 |  |  |
| 8 |  | 18 |  |  |
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## Event 13 Page 6

| Work Related? $\mathrm{N}=1 \mathrm{Y}=\mathbf{2}$ | Gender M=1 F=2 | Low Age | High Age | Representative Age | Education | ob Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 36 | 45 | 40.5 | B | Teacher |
| 1 | 1 | 36 | 45 | 40.5 | GS | Medical |
| 1 | 1 | 56 | 65 | 60.5 | HS | Retired |
| 1 | 2 | 46 | 55 | 50.5 | B | Medical Billing |
| 1 | 2 | 65 |  | 66 | GS | Not Employed |
| 1 | 2 | 65 |  | 66 | HS | Not Employed |
| 1 | 2 | 56 | 65 | 60.5 | BS | Caregiver |
| 1 | 2 | 36 | 45 | 40.5 | BS | Accountant |
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|  |  |  |  |  |  | Actual Travel Cost |
|  |  |  |  |  |  | 48.866 |
|  |  |  |  |  |  | 48.866 |
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| Event 13 Page 7 |  |  |  |
| :---: | :---: | :---: | :---: |
| Average Annual Income | Hourly Income Average | Region Used | Central Ecosystem Profile (Oklahoma Dept of Commerce) |
| 43336 | 20.83461538 | Yukon School District Teacher Salaries Schedule | Bachleor's +15 years of experience |
| 25126.4 |  | OK DEPT of Commerce: Central | Medical Assistants |
| 55500 | 26.68269231 | OK DEPT of Commerce: Central | Oklahoma County Average Income |
| 28537.6 |  | OK DEPT of Commerce: Central | Medical Records and Health Information Technicians |
| 15080 |  | OK DEPT of Commerce: Central | Unemployed |
| 15080 |  | OK DEPT of Commerce: Central | Unemployed |
| 22547.2 |  | OK DEPT of Commerce: Central | Home Health Aides |
| 54142.4 |  | OK DEPT of Commerce: Central | Accountant Wages |
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| Travel + Preparation + Event Time |  |  |  |
| 129.866 |  |  |  |
| 129.866 |  |  |  |
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Event 13 Page 8

| Actual Travel Cost | Time At Event Cost | Spent | illing Travel Cost | Time at Event Cost | TC+Time Spent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 67.7524359 | 41.66923077 | 109.4216667 | 80.50487179 | 41.66923077 | 122.1741026 |
| 59.24249067 | 24.16 | 83.40249067 | 76.20842667 | 24.16 | 100.3684267 |
| 62.60533654 | 53.36538462 | 115.9707212 | 76.86067308 | 53.36538462 | 130.2260577 |
| 61.16474933 | 27.44 | 88.60474933 | 88.90474933 | 27.44 | 116.3447493 |
| 62.4095 | 14.5 | 76.9095 | 77.23333333 | 14.5 | 91.73333333 |
| 62.395 | 14.5 | 76.895 | 77.23333333 | 14.5 | 91.73333333 |
| 63.16468533 | 21.68 | 84.84468533 | 63.16468533 | 21.68 | 84.84468533 |
| 66.57866 | 52.06 | 118.63866 | 83.95532667 | 52.06 | 136.0153267 |
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| Event 14 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 Ardmore, Carter County | 2 |
|  | 2 Ardmore, Carter County | 3 |
|  | 3 Ardmore, Carter County | 4 |
|  | 4 Carter County | 3.5 |
|  | 5 Ardmore, Carter County | 1 |
|  | 6 Madill, Marshall County | 10 |
|  | 7 Madill, Marshall County | 20 |
|  | 8 Ardmore, Carter County | 1 |
|  | 9 Ardmore, Carter County | 10 |
|  | 10 Ardmore, Carter County | 6 |
|  | 11 Marietta, Love County | 20 |
|  | 12 Ardmore, Carter County | 20 |
|  | 13 Ardmore, Carter County | 5 |
|  | 14 Ardmore, Carter County | 5 |
|  | 15 Marietta, Love County | 20 |
|  | 16 Marietta, Love County | 15 |
|  | 17 Ardmore, Carter County | 3 |
|  | 18 Ardmore, Carter County | 3 |
|  | 19 Lebanon OK, Marshall County | 27 |
|  | 20 Marietta, Love County | 10 |
|  | 21 Dickson, Carter County | 3 |
|  | 22 Ardmore, Carter County | 2 |
|  | 23 Lone Grove, Carter County | 17 |
|  | 24 Ardmore, Carter County | 2 |
|  | 25 Ardmore, Carter County | 18 |
|  | 26 Ardmore, Carter County | 2 |
|  | 27 Ardmore, Carter County | 1.5 |
|  | 28 Ardmore, Carter County | 5 |
|  | 29 Ardmore, Carter County | 5 |
|  | 30 Ardmore, Carter County | 5 |
|  | 31 Ardmore, Carter County | 3 |
|  | 32 Durant, Bryan County | 51.2 |
|  |  |  |


| Event 14 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 4 | 0.083 | 0.166 |
| 6 | 0.083 | 0.166 |
| 8 | 0.15 | 0.3 |
| 7 | 0.05 | 0.1 |
| 2 | 0.0833 | 0.1666 |
| 20 | 0.333 | 0.666 |
| 40 | 0.33 | 0.66 |
| 2 | 0.0833 | 0.1666 |
| 20 | 0.25 | 0.5 |
| 12 | 0.1667 | 0.3334 |
| 40 | 0.5 | 1 |
| 40 | 0.5 | 1 |
| 10 | 0.1667 | 0.3334 |
| 10 | 0.11667 | 0.23334 |
| 40 | 0.4167 | 0.8334 |
| 30 | 0.333 | 0.666 |
| 6 | 0.0833 | 0.1666 |
| 6 | 0.1667 | 0.3334 |
| 54 | 0.533 | 1.066 |
| 20 | 0.333 | 0.666 |
| 6 | 0.16667 | 0.33334 |
| 4 | 0.16667 | 0.33334 |
| 34 | 0.5 | 1 |
| 4 | 0.0833 | 0.1666 |
| 36 | 0.333 | 0.666 |
| 4 | 0.25 | 0.5 |
| 3 | 0.1333 | 0.2666 |
| 10 | 0.25 | 0.5 |
| 10 | 0.25 | 0.5 |
| 10 | 0.1667 | 0.3334 |
| 6 | 0.1 | 0.2 |
| 102.4 | 1 | 2 |
|  |  |  |


| Event 14 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Willingness to Travel (time, hr) |
| 150 | 300 | 2.5 |
| 3 | 6 | 0.083 |
| 15.11 | 30.22 | 0.5667 |
| 123.5 | 247 | 1.76 |
| 60 | 120 | 1 |
| 10 | 20 | 0.333 |
| 65 | 130 | 1.083 |
| 6 | 12 | 0.5 |
| 50 | 100 | 1.25 |
| 6 | 12 | 0.1667 |
| 314 | 628 | 7.85 |
| 20 | 40 | 0.5 |
| 5 | 10 | 0.1667 |
| 5 | 10 | 0.11667 |
| 40 | 80 | 0.833 |
| 35 | 70 | 0.778 |
| 21 | 42 | 0.58333 |
| 33 | 66 | 0.55 |
| 77.625 | 155.25 | 1.533 |
| 10 | 20 | 0.333 |
| 103 | 206 | 1.716 |
| 122 | 244 | 2.033 |
| 37 | 74 | 1.088 |
| 2 | 4 | 0.0833 |
| 18 | 36 | 0.333 |
| 2 | 4 | 0.25 |
| 16.5 | 33 | 0.275 |
| 5 | 10 | 0.25 |
| 25 | 50 | 0.41667 |
| 20 | 40 | 0.6667 |
| 3 | 6 | 0.1 |
| 51.2 | 102.4 | 1 |
|  |  |  |


| Event 14 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 5 | 0 | 1 | 0.58 |
| 0.166 | 2 | 3 | 0.58 |
| 1.1334 | 0 | 1 | 0.58 |
| 3.52 | 0 | 1 | 0.58 |
| 2 | 2 | 3 | 0.58 |
| 0.666 | 1 | 2 | 0.58 |
| 2.166 | 1 | 2 | 0.58 |
| 1 | 1 | 2 | 0.58 |
| 2.5 | 2 | 3 | 0.58 |
| 0.3334 | 0 | 1 | 0.58 |
| 15.7 | 2 | 3 | 0.58 |
| 1 | 1 | 2 | 0.58 |
| 0.3334 | 2 | 3 | 0.58 |
| 0.23334 | 1 | 2 | 0.58 |
| 1.666 | 1 | 2 | 0.58 |
| 1.556 | 1 | 2 | 0.58 |
| 1.16666 | 0 | 1 | 0.58 |
| 1.1 | 1 | 2 | 0.58 |
| 3.066 | 0 | 1 | 0.58 |
| 0.666 | 2 | 3 | 0.58 |
| 3.432 | 0 | 1 | 0.58 |
| 4.066 | 1 | 2 | 0.58 |
| 2.176 | 0 | 1 | 0.58 |
| 0.1666 | 1 | 2 | 0.58 |
| 0.666 | 1 | 2 | 0.58 |
| 0.5 | 1 | 2 | 0.58 |
| 0.55 | 2 | 3 | 0.58 |
| 0.5 | 1 | 2 | 0.58 |
| 0.83334 | 1 | 2 | 0.58 |
| 1.3334 | 1 | 2 | 0.58 |
| 0.2 | 0 | 1 | 0.58 |
| 2 | 0 | 1 | 0.58 |
|  |  |  |  |


| Event 14 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.193333333 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.193333333 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 1 | 0 |
| 0.29 | 0 | 2 | 1 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.193333333 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.193333333 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.193333333 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 1 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.193333333 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.58 | 20 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.193333333 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
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## Event 14 Page 6

Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ Gender M=1 F=2 Low Age High Age Representative Age Education Job Classification


| Event 14Page 7 |  |  |  |
| :---: | :---: | :---: | :---: |
| Average Annual Income | Hourly Income Average | Region Used | Central Ecosystem Profile (Oklahoma Dept of Commerce) |
| 46000 | 22.11538462 | 2 Southern Oklahoma Ecosystem | Average Income Carter County |
| 46000 | 22.11538462 | 2 Southern Oklahoma Ecosystem | Average Income Carter County |
| 21340.8 |  | 6 Southern Oklahoma Ecosystem | Laborers and Freight, Stock, and Material Movers, Hand |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 38000 | 18.26923077 | Southern Oklahoma Ecosystem | Average Income Marshall County |
| 38000 | 18.26923077 | Southern Oklahoma Ecosystem | Average Income Marshall County |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 38000 | 18.26923077 | Southern Oklahoma Ecosystem | Average Income Love County |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 38000 | 18.26923077 | Southern Oklahoma Ecosystem | Average Income Love County |
| 38000 | 18.26923077 | Southern Oklahoma Ecosystem | Average Income Love County |
| 20675.2 |  | Southern Oklahoma Ecosystem | Farmworkers and Laborers, Crop, Nurser, and Greenhouse |
| 20675.2 |  | Southern Oklahoma Ecosystem | Farmworkers and Laborers, Crop, Nurser, and Greenhouse |
| 26832 |  | Southern Oklahoma Ecosystem | Bookkeeping, Accounting, and Auditing Clerks |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income for Love County |
| 120785.6 |  | Southern Oklahoma Ecosystem | Aerospace Engineers |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 26832 |  | Southern Oklahoma Ecosystem | Bookkeeping, Accounting, and Auditing Clerks |
| 46000 | 22.11538462 | Southern Oklahoma Ecosystem | Average Income Carter County |
| 40000 | 19.23076923 | Southeast Corridor | Average Income Bryan County |
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Event 14 Page 8
Actual Travel Cost Time At Event Cost TC+Time Spent



| Event 14 Page 10 |  |  |
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| Organizer Benefit/Organizer Cost | 0.072695551 |  |
|  |  |  |
| Actual Value/Organizer Cost | 6.176521674 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 10.48946973 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.588830688 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 82 | 164 | 1.5 |
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| Event 14 Page 11 |  |  |
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| Organizer Cost Per Participant | 8.5975 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 3 | 1 | 0 |
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| Event 14 Page 12 |  |  |  |
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|  |  |  |  |
| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 2 |  |
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| Event 14 Page 13 |  |  |  |
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| 14 Page 14 |  |  |
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| Actual Travel Cost | Travel + Preparation + Event Time |  |
| 149.12 | 275.12 |  |
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| Event 15 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 Norman, Cleveland County | 0.15 |
|  | 2 Norman, Cleveland County | 0.5 |
|  | 3 Norman, Cleveland County | 0.5 |
|  | 4 Norman, Cleveland County | 0.113636 |
|  | 5 Norman, Cleveland County | 0.113636 |
|  | 6 Norman, Cleveland County | 0.113636 |
|  | 7 Norman, Cleveland County | 0.5 |
|  | 8 Norman, Cleveland County | 0.1 |
|  | 9 Norman, Cleveland County | 0.25 |
|  | 10 Norman, Cleveland County | 0.25 |
|  | 11 Norman, Cleveland County | 0.05 |
|  | 12 Norman, Cleveland County | 3 |
|  | 13 Norman, Cleveland County | 0.25 |
|  | 14 Norman, Cleveland County | 1 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Number of Participants | 14 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 1.354255459 |  |
| Total Travel Cost | 18.95957642 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 45.48481865 |  |
| Total Actual Travel + Time at Event | 636.787461 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 4.969954119 |  |
| Total Willingness Travel Cost Per Participant | 69.57935766 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 49.10051731 |  |
| Total Willingness Travel + Time at Event | 687.4072423 |  |
|  |  |  |
| Total Organzier Costs | 179.6 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 816.387461 |  |
| Total Willing Participant + Organizer Costs Value | 867.0072423 |  |
|  |  |  |
| Response Rate | 100\% |  |
|  |  |  |


| Event 15 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 0.3 | 0.08333 | 0.16666 |
| 1 | 0.03333 | 0.06666 |
| 1 | 0.01667 | 0.03334 |
| 0.227272 | 0.05 | 0.1 |
| 0.227272 | 0.08333 | 0.16666 |
| 0.227272 | 0.08333 | 0.16666 |
| 1 | 0.08333 | 0.16666 |
| 0.2 | 0.016667 | 0.033334 |
| 0.5 | 0.033333 | 0.066666 |
| 0.5 | 0.08333 | 0.16666 |
| 0.1 | 0.016667 | 0.033334 |
| 6 | 0.083333 | 0.166666 |
| 0.5 | 0.08333 | 0.16666 |
| 2 | 0.05 | 0.1 |
|  |  |  |
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| Organizer Benefit/Organizer Cost | 0 |  |
|  |  |  |
| Actual Value/Organizer Cost | 3.5455872 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 3.827434534 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.926361292 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 5 | 10 | 0.25 |
| 5 | 10 | 0.25 |


| Event 15 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Willingness to Travel (time, hr) |
| 5 | 10 | 0.16667 |
| 1.5 | 3 | 0.1 |
| 0.5 | 1 | 0.01667 |
| 10 | 20 | 0.1667 |
| 5 | 10 | 0.16667 |
| 2 | 4 | 0.116667 |
| 3.5 | 7 | 0.1116667 |
| 0.1 | 0.2 | 0.016667 |
| 0.25 | 0.5 | 0.033333 |
| 3 | 6 | 0.166667 |
| 0.05 | 0.1 | 0.016667 |
| 15 | 30 | 0.25 |
| 5 | 10 | 0.166667 |
| 3 | 6 | 0.25 |
|  |  |  |
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|  |  |  |
|  |  |  |
| Organizer Cost Per Participant | 12.82857143 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 0.5 | 1 | 0 |
| 0.5 | 1 | 0 |


| Event 15 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 0.33334 | 2 | 3 | 0.58 |
| 0.2 | 1 | 2 | 0.58 |
| 0.03334 | 1 | 2 | 0.58 |
| 0.3334 | 2 | 3 | 0.58 |
| 0.33334 | 1 | 2 | 0.58 |
| 0.233334 | 1 | 2 | 0.58 |
| 0.2233334 | 0 | 1 | 0.58 |
| 0.033334 | 0 | 1 | 0.58 |
| 0.066666 | 0 | 1 | 0.58 |
| 0.333334 | 1 | 2 | 0.58 |
| 0.033334 | 0 | 1 | 0.58 |
| 0.5 | 0 | 1 | 0.58 |
| 0.333334 | 0 | 1 | 0.58 |
| 0.5 | 0 | 1 | 0.58 |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 1.5 | 14 |
| 0.58 | 0.58 | 1.5 | 14 |


| Event 15 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.193333333 | 0 | 1 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.193333333 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 1.5 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 14 | 0 | 11 |  |  |
| 14 |  | 31 |  |  |

Event 15 Page 6

| Work Related? $\mathrm{N}=1 \mathrm{Y}=$ | Gender M=1 F=2 | Low Age | High Age | Representative Age | Education | sification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 56 | 65 | 60.5 | B | Retired |
| 1 | 2 | 36 | 45 | 40.5 | B | Self-Employed |
| 1 | 1 | 46 | 55 | 50.5 | B |  |
| 1 | 1 | 56 | 65 | 60.5 | GS | Educator |
| 1 | 2 | 18 | 25 | 21.5 | HS | Not Employed |
| 1 | 1 | 26 | 35 | 30.5 | GS | Project Manager |
| 1 | 2 | 56 | 65 | 60.5 | DVM | Veternarian |
| 1 | 2 | 56 | 65 | 60.5 | A | Retired |
| 1 | 1 | 36 | 45 | 40.5 | B | Teacher |
| 1 | 1 | 56 | 65 | 60.5 | B | Retired |
| 1 | 1 | 65 |  | 66 | B | Retired |
| 1 | 2 | 56 | 65 | 60.5 | GS | Clinical Social Worker |
| 1 | 2 | 36 | 45 | 40.5 | GS | culty Professor |
| 1 | 1 | 36 | 45 | 40.5 | B | Small Business Owner |
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|  |  |  |  |  |  | Actual Travel Cost |
|  |  |  |  |  |  | 11.3 |
|  |  |  |  |  |  | 21.3 |


| Event 15 Page 7 |  |  |  |
| :---: | :---: | :---: | :---: |
| Average Annual Income | Hourly Income Average | Region Used | Central Ecosystem Profile (Oklahoma Dept of Commerce) |
| 42100 | 20.24038462 | Central Oklahoma | Average Income for the county |
| 42100 | 20.24038462 | Central Oklahoma | Average Income for the county |
| 68744 | 33.05 | Central Oklahoma | Software Development, Systems Software |
| 66611 | 32.02451923 | Norman Public Schools | 30 Years Graduate Degree Schedule Pay |
| 15080 | 7.25 | Central Oklahoma | Minimum Wage |
| 64396.8 | 30.96 | Central Oklahoma | Management Analyst |
| 52166.4 | 25.08 | Central Oklahoma | Agriculture/Bioscience: Doctoral Degree |
| 42100 | 20.24038462 | Central Oklahoma | Average Income for the county |
| 54537 | 26.21971154 | Norman Public Schools | 20 Years Bachelors Degree Schedule Pay |
| 42100 | 20.24038462 | Central Oklahoma | Average Income for the county |
| 42100 | 20.24038462 | Central Oklahoma | Average Income for the county |
| 37980.8 | 18.26 | Central Oklahoma | Licensed Practical and Licensed Vocational Nurses |
| 62000 | 29.80769231 | Central Oklahoma | Central OK Professional, Technical Services |
| 42100 | 20.24038462 | Central Oklahoma | Average Income for the county |
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| Travel + Preparation + Event Time |  |  |  |
| 49.8 |  |  |  |
| 129.8 |  |  |  |

Event 15 Page 8

| Actual Travel Cost | Time At Event Cost | TC+Time Spent | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1.182420833 | 20.24038462 | 21.42280545 | 4.182309936 | 20.24038462 | 24.42269455 |
| 0.739741346 | 40.48076923 | 41.22051058 | 2.219358974 | 40.48076923 | 42.70012821 |
| 0.657295667 | 66.1 | 66.75729567 | 0.657295667 | 66.1 | 66.75729567 |
| 1.111423228 | 64.04903846 | 65.16046169 | 7.425658237 | 64.04903846 | 71.4746967 |
| 0.468670547 | 14.5 | 14.96867055 | 3.705571667 | 14.5 | 18.20557167 |
| 1.78584008 | 61.92 | 63.70584008 | 3.56800688 | 61.92 | 65.48800688 |
| 1.9732776 | 50.16 | 52.1332776 | 5.927067224 | 50.16 | 56.08706722 |
| 0.34089766 | 40.48076923 | 40.82166689 | 0.34089766 | 40.48076923 | 40.82166689 |
| 0.87265443 | 52.43942308 | 53.31207751 | 0.87265443 | 52.43942308 | 53.31207751 |
| 1.269420833 | 30.36057692 | 31.62999776 | 3.988936122 | 30.36057692 | 34.34951304 |
| 0.28289766 | 40.48076923 | 40.76366689 | 0.28289766 | 40.48076923 | 40.76366689 |
| 4.494440387 | 36.52 | 41.01444039 | 20.44333333 | 36.52 | 56.96333333 |
| 1.945916667 | 59.61538462 | 61.56130128 | 9.111972436 | 59.61538462 | 68.72735705 |
| 1.834679487 | 40.48076923 | 42.31544872 | 6.853397436 | 40.48076923 | 47.33416667 |
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| Event 16 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 Norman, Cleveland County | 0.05 |
|  | 2 Norman, Cleveland County | 0.15 |
|  | 3 Norman, Cleveland County | 0.5 |
|  | 4 Norman, Cleveland County | 0.15 |
|  | 5 Norman, Cleveland County | 0.1 |
|  | 6 Norman, Cleveland County | 0.25 |
|  | 7 Norman, Cleveland County | 0.1 |
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| Averages |  |  |
|  |  |  |
| Number of Participants | 7 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 1.029566647 |  |
| Total Travel Cost | 7.206966526 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 60.59297324 |  |
| Total Actual Travel + Time at Event | 424.1508127 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 13.80220272 |  |
| Total Willingness Travel Cost Per Participant | 96.61541904 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 73.36560931 |  |
| Total Willingness Travel + Time at Event | 513.5592652 |  |
|  |  |  |
| Total Organzier Costs | 179.6 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 603.7508127 |  |
| Total Willing Participant + Organizer Costs Value | 693.1592652 |  |
|  |  |  |
| Response Rate | 100\% |  |
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| Organizer Data: Sutton Norman |  |  |
| Organizers | Expenditures | Planning Time (hrs) |
| Organizer 1 | 0 | 2 |
| Organizer 2 |  | 2 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Total Travel + Preparation Time + Time Spent at Event + Expenditures | 179.6 |  |
|  |  |  |
| Total Participants Registration Fee | 0 |  |


| Event 16 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 0.1 | 0.05 | 0.1 |
| 0.3 | 0.01667 | 0.03334 |
| 1 | 0.01667 | 0.03334 |
| 0.3 | 0.01667 | 0.03334 |
| 0.2 | 0.00833 | 0.01666 |
| 0.5 | 0.25 | 0.5 |
| 0.2 | 0.0333 | 0.0666 |
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| Organizer Benefit/Organizer Cost | 0 |  |
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| Actual Value/Organizer Cost | 2.361641496 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 2.859461387 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.825904314 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 5 | 10 | 0.25 |
| 5 | 10 | 0.25 |
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| Event 16 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | (time, hr) |
| 30 | 60 | 0.5 |
| 0.75 | 1.5 | 0.0833 |
| 30 | 60 | 0.5 |
| 10 | 20 | 0.1667 |
| 2 | 4 | 0.0333 |
| 5 | 10 | 0.08333 |
| 20 | 40 | 0.333 |
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| Organizer Cost Per Participant | 0 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 0.5 | 1 | 0 |
| 0.5 | 1 | 0 |
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| vent 16 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 1 | 2 | 3 | 0.58 |
| 0.1666 | 1 | 2 | 0.58 |
| 1 | 0 | 1 | 0.58 |
| 0.3334 | 1 | 2 | 0.58 |
| 0.0666 | 2 | 3 | 0.58 |
| 0.16666 | 1 | 2 | 0.58 |
| 0.666 | - 1 | 2 | 0.58 |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 1.5 | 14 |
| 0.58 | 0.58 | 1.5 | 14 |
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| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.193333333 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.58 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.193333333 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
| 0.29 | 0 | 2 | 0 | 0 |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 14 | 0 | 11 |  |  |
| 14 |  | 31 |  |  |
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Event 16 Page 6
Work Related? N=1 Y=2 Gender M=1 F=2 Low Age High Age Representative Age Education Job Classification

| 1 | 2 | 56 | 65 | 60.5 | B | Physical Therapist |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | 56 | 65 | 60.5 | PhD | Retired Geoscientist |
| 1 | 2 | 36 | 45 | 40.5 | B | Outreach Specialist |
| 1 | 2 | 56 | 65 | 60.5 | B | Homemaker |
| 1 | 2 | 65 |  | 66 | GS | Retired |
| 1 | 1 | 65 |  | 66 | GS | Retired |
| 1 | 1 | 65 |  | 66 | A | Retired |
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|  |  |  |  |  |  | Actual Travel Cost |
|  |  |  |  |  |  | 11.3 |
|  |  |  |  |  |  | 21.3 |
|  |  |  |  |  |  | 32.6 |
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| Event 16 Pag |  |  |  |
| :---: | :---: | :---: | :---: |
| Annual Average Income | Hourly Income Average | Region Used | Central Ecosystem Profile (Oklahoma Dept of Commerce) |
| 57553.6 | 27.67 | Central Oklahoma | Registered Nurse (Bachelor's Degree) |
| 165568 | 79.6 | Central Oklahoma | Geoscientists |
| 42100 | 20.24038462 | Central Oklahoma | Average Income for the county |
| 42100 | 20.24038462 | Central Oklahoma | Average Income for the county |
| 42100 | 20.24038462 | Central Oklahoma | Average Income for the county |
| 42100 | 20.24038462 | Central Oklahoma | Average Income for the county |
| 42100 | 20.24038462 | Central Oklahoma | Average Income for the county |
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| Travel + Preparation Event Time |  |  |  |
| 49.8 |  |  |  |
| 129.8 |  |  |  |
| 179.6 |  |  |  |
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## Event 16 Page 8

| Actual Travel Cost | Time At Event Cost | TC+Time Spent | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 0.941666667 | 55.34 | 56.28166667 | 20.82333333 | 55.34 | 76.16333333 |
| 0.971621333 | 159.2 | 160.1716213 | 4.855453333 | 159.2 | 164.0554533 |
| 0.804938141 | 40.48076923 | 41.28570737 | 41.54679487 | 40.48076923 | 82.0275641 |
| 0.311938141 | 40.48076923 | 40.79270737 | 8.04938141 | 40.48076923 | 48.53015064 |
| 0.151068269 | 40.48076923 | 40.6318375 | 1.222669872 | 40.48076923 | 41.7034391 |
| 3.518397436 | 40.48076923 | 43.99916667 | 4.024420833 | 40.48076923 | 44.50519006 |
| 0.507336538 | 40.48076923 | 40.98810577 | 16.09336538 | 40.48076923 | 56.57413462 |
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| Event 17 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 Oklahoma City, Oklahoma County | 20 |
|  | 2 Oklahoma City, Oklahoma County | 18 |
|  | 3 Edmond, Oklahoma County | 8 |
|  | 4 Norman, Cleveland County | 37 |
|  | 5 Yukon, Oklahoma County | 20 |
|  | 6 Frisco, Texas | 198 |
|  | 7 Konawa, Seminole County | 70 |
|  | 8 Sulphur, Oklahoma | 99 |
|  | 9 Edmond, Oklahoma County | 5.4 |
|  | 10 Purcell, McClain County | 51 |
|  | 11 Edmond, Oklahoma County | 8 |
|  | 12 Oklahoma City, Oklahoma County | 20 |
|  | 13 Oklahoma City, Oklahoma County | 20 |
|  | 14 Oklahoma City, Oklahoma County | 20 |
|  | 15 Edmond, Oklahoma County | 20 |
|  | 16 Piedmont | 20 |
|  | 17 Edmond, Oklahoma County | 5.4 |
|  | 18 Edmond, Oklahoma County | 3 |
|  | 19 Edmond, Oklahoma County | 5 |
|  | 20 Newcastle, McClain | 50 |
|  | 21 Oklahoma City, Oklahoma County | 19 |
|  | 22 Oklahoma City, Oklahoma County | 15 |
|  | 23 Edmond, Oklahoma County | 10 |
|  | 24 Edmond, Oklahoma County | 5 |
|  | 25 Edmond, Oklahoma County | 7 |
|  | 26 Edmond, Oklahoma County | 10 |
|  | 27 Hennessey, Kingfisher County | 67 |
|  |  |  |


| Event 17 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 40 | 0.75 | 1.5 |
| 36 | 0.5 | - 1 |
| 16 | 0.25 | 0.5 |
| 74 | 0.75 | 1.5 |
| 40 | 0.5 | - 1 |
| 396 | 3 | 6 |
| 140 | 2 | - 4 |
| 198 | 1.75 | 3.5 |
| 10.8 | 0.333 | 0.666 |
| 102 | 0.9333 | 1.8666 |
| 16 | 0.25 | 0.5 |
| 40 | 0.3333 | 0.6666 |
| 40 | 0.333 | 0.666 |
| 40 | 0.416667 | 0.833334 |
| 40 | 0.3333 | 0.6666 |
| 40 | 0.66667 | 1.33334 |
| 10.8 | 0.333 | 0.666 |
| 6 | 0.166667 | 0.333334 |
| 10 | 0.166667 | 0.333334 |
| 100 | 0.75 | 1.5 |
| 38 | 0.416667 | 0.833334 |
| 30 | 0.33333 | 0.66666 |
| 20 | 0.16667 | 0.33334 |
| 10 | 0.25 | 0.5 |
| 14 | 0.16667 | 0.33334 |
| 20 | 0.166667 | 0.333334 |
| 134 | 1.1167 | 2.2334 |
|  |  |  |

## Event 17 Page 3

Willingness to Travel (dist, miles) Willingness Round Trip Distance (mi) Willingness to Travel (time, hr)

| 46.6667 | 93.3334 | 1.75 |
| :---: | :---: | :---: |
| 54 | 108 | 1.5 |
| 13.333 | 26.666 | 0.416667 |
| 49.333 | 98.666 | 1 |
| 20 | 40 | 0.5 |
| 198 | 396 | 3 |
| 70 | 140 | 2 |
| 113.14 | 226.28 | 2 |
| 10.8 | 21.6 | 0.666 |
| 100 | 200 | 1.8666 |
| 18 | 36 | 33.75 |
| 30 | 60 | 0.5 |
| 30 | 60 | 0.5 |
| 40 | 80 | 0.8333 |
| 30 | 60 | 0.5 |
| 20 | 40 | 0.66667 |
| 8.1 | 16.2 | 0.5 |
| 9 | 18 | 0.5 |
| 20 | 40 | 0.666667 |
| 50 | 100 | 0.75 |
| 26.6 | 53.2 | 0.58333 |
| 30 | 60 | 0.6666 |
| 40 | 80 | 0.666667 |
| 15 | 30 | 0.5 |
| 35 | 70 | 0.8333 |
| 30 | 60 | 0.5 |
| 134 | 268 | 2 |
|  |  |  |


| Event 17 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 3.5 | 0 | 1 | 0.58 |
| 3 | 1 | 2 | 0.58 |
| 0.833334 | 0 | 1 | 0.58 |
| 2 | 1 | 2 | 0.58 |
| 1 | 0 | 1 | 0.58 |
| 6 | 1 | 2 | 0.58 |
| 4 | 1 | 2 | 0.58 |
| 4 | 1 | 2 | 0.58 |
| 1.332 | 0 | 1 | 0.58 |
| 3.7332 | 1 | 2 | 0.58 |
| 67.5 | 0 | 1 | 0.58 |
| 1 | 0 | 1 | 0.58 |
| 1 | 2 | 3 | 0.58 |
| 1.6666 | 1 | 2 | 0.58 |
| 1 | 1 | 2 | 0.58 |
| 1.33334 | 4 | 5 | 0.58 |
| 1 | 3 | 4 | 0.58 |
| 1 | 1 | 2 | 0.58 |
| 1.333334 | 4 | 5 | 0.58 |
| 1.5 | 0 | 1 | 0.58 |
| 1.16666 | 0 | 1 | 0.58 |
| 1.3332 | 0 | 1 | 0.58 |
| 1.333334 | 0 | 1 | 0.58 |
| 1 | 0 | 1 | 0.58 |
| 1.6666 | 0 | 1 | 0.58 |
| 1 | 0 | 1 | 0.58 |
| 4 | 0 | 1 | 0.58 |
|  |  |  |  |


| Event 17 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.58 | 20 | 7 | 0 | 0 |
| 0.29 | 20 | 7 | 0 | 0 |
| 0.58 | 20 | 7 | 0 | 0 |
| 0.29 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 7 | 0 | 0 |
| 0.29 | 20 | 7 | 0 | 0 |
| 0.29 | 20 | 6 | 0 | 0 |
| 0.29 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.29 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.193333333 | 20 | 6 | 0 | 0 |
| 0.29 | 20 | 6 | 0 | 0 |
| 0.29 | 20 | 6 | 0 | 0 |
| 0.116 | 20 | 6 | 0 | 0 |
| 0.145 | 20 | 6.5 | 0 | 0 |
| 0.29 | 20 | 6.5 | 0 | 0 |
| 0.116 | 20 | 6.5 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
|  |  |  |  |  |


| Event 17 Page 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ | Gender 1=M 2=F | Low Age | High Age | Average Age | Education | Job Classification |
| 1 | 2 | 18 | 25 | 21.5 | B | Student |
| 1 | 2 | 18 | 25 | 21.5 | B | Student |
| 2 | 2 | 18 | 25 | 21.5 | A | Student |
| 1 | 2 | 18 | 25 | 21.5 | A | Student |
| 1 | 2 | 18 | 25 | 21.5 | A | Student |
| 1 | 2 | 18 | 25 | 21.5 | B | Student |
| 2 | 2 | 46 | 55 | 50.5 | B | Teacher |
| 2 | 2 | 46 | 55 | 50.5 | G | Educator |
| 1 | 2 | 18 | 25 | 21.5 | HS | Nursing Assistant |
| 1 | 2 | 18 | 25 | 21.5 | A | Student |
| 1 | 1 | 36 | 45 | 40.5 | HS | Student |
| 1 | 2 | 18 | 25 | 21.5 | A | Student |
| 1 | 1 | 18 | 25 | 21.5 | A | Student |
| 1 | 2 | 18 | 25 | 21.5 | A | Student |
| 1 | 2 | 18 | 25 | 21.5 | A | Student |
| 1 | 2 | 36 | 45 | 40.5 | B | Bartender |
| 1 | 2 | 36 | 45 | 40.5 | B | Student |
| 1 | 2 | 18 | 25 | 21.5 | B | Student |
| 1 | 2 | 36 | 45 | 40.5 | B | Student |
| 1 | 1 | 18 | 25 | 21.5 | B | Student |
| 1 | 2 | 18 | 25 | 21.5 | A | Student |
| 1 | 2 | 18 | 25 | 21.5 | B | Student |
| 1 | 2 | 18 | 25 | 21.5 | B | Student |
| 1 | 2 | 18 | 25 | 21.5 | HS | Student |
| 1 | 2 | 18 | 25 | 21.5 | B | Student |
| 1 | 2 | 18 | 25 | 21.5 | B | Student |
| 1 | 2 | 18 | 25 | 21.5 | A | Student |
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| Event 17 Page 7 |  |  |  |
| :---: | :---: | :---: | :---: |
| Average Annual Income | Hourly Income Average | Region Used | Central Ecosystem Profile (Oklahoma Dept of Commerce) |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 51,232 | 24.63076923 |  | Teacher Salary Schedule |
| 53,153 | 25.55432692 |  | Teacher Salary Schedule |
| 22068.8 | 10.61 | Central Oklahoma | Nursing Assistant Wages |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 30000 | 14.42307692 | Central Oklahoma | Average Income by Trade (Retail Sales) |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
|  |  |  |  |

## Event 17 Page 8

Actual Travel Cost Time At Event Cost TC+Time Spent

| 46.825 | 50.75 | 97.575 | 82.59170533 | 50.75 | 133.3417053 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 32.85666667 | 50.75 | 83.60666667 | 58.57 | 50.75 | 109.32 |
| 32.905 | 50.75 | 83.655 | 41.5079515 | 50.75 | 92.2579515 |
| 45.085 | 43.5 | 88.585 | 53.44647333 | 43.5 | 96.94647333 |
| 45.61666667 | 50.75 | 96.36666667 | 45.61666667 | 50.75 | 96.36666667 |
| 149.34 | 50.75 | 200.09 | 149.34 | 50.75 | 200.09 |
| 159.1230769 | 147.7846154 | 306.9076923 | 159.1230769 | 147.7846154 | 306.9076923 |
| 166.8601442 | 153.3259615 | 320.1861058 | 187.8385077 | 153.3259615 | 341.1644692 |
| 28.61942 | 63.66 | 92.27942 | 37.23884 | 63.66 | 100.89884 |
| 54.09095 | 43.5 | 97.59095 | 87.0219 | 43.5 | 130.5219 |
| 30.48833333 | 43.5 | 73.98833333 | 204.005 | 43.5 | 247.505 |
| 44.81095 | 43.5 | 88.31095 | 57.21666667 | 43.5 | 100.7166667 |
| 29.34283333 | 43.5 | 72.84283333 | 34.01666667 | 43.5 | 77.51666667 |
| 33.6138905 | 43.5 | 77.1138905 | 47.22761667 | 43.5 | 90.72761667 |
| 33.21095 | 43.5 | 76.71095 | 39.81666667 | 43.5 | 83.31666667 |
| 31.05028846 | 86.53846154 | 117.58875 | 31.05028846 | 86.53846154 | 117.58875 |
| 23.1755 | 47.125 | 70.3005 | 24.76566667 | 47.125 | 71.89066667 |
| 22.54555717 | 47.125 | 69.67055717 | 27.63666667 | 47.125 | 74.76166667 |
| 21.96555717 | 47.125 | 69.09055717 | 27.86222383 | 47.125 | 74.98722383 |
| 81.625 | 43.5 | 125.125 | 81.625 | 43.5 | 125.125 |
| 44.0538905 | 43.5 | 87.5538905 | 53.67542833 | 43.5 | 97.17542833 |
| 39.011095 | 43.5 | 82.511095 | 58.0219 | 43.5 | 101.5219 |
| 32.40557167 | 43.5 | 75.90557167 | 69.62222383 | 43.5 | 113.1222238 |
| 27.00833333 | 43.5 | 70.50833333 | 39.81666667 | 43.5 | 83.31666667 |
| 28.92557167 | 43.5 | 72.42557167 | 64.62761667 | 43.5 | 108.1276167 |
| 32.40555717 | 43.5 | 75.90555717 | 57.21666667 | 43.5 | 100.7166667 |
| 103.1173833 | 43.5 | 146.6178833 | 185.1066667 | 43.5 | 228.6066667 |
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| Event 17 Page 10 |  |  |
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| Organizer Benefit/Organizer Cost | 0.321994938 |  |
|  |  |  |
| Actual Value/Organizer Cost | 1.678405646 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 2.015078128 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.83292336 |  |
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|  |  |  |
| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 38 | 76 | 0.66667 |
| 21 | 42 | 0.4333 |
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| Organizer Cost Per Participant | 64.41325087 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 1.33334 | 1 | 0 |
| 0.8666 | 1 | 0 |
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| Event 17 Page 12 |  |  |  |
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|  |  |  |  |
| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 6 | 28 |
| 0.58 | 0.58 | 6 |  |
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| Event 17 Page 13 |  |  |  |
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|  |  |  |  |
| Attended | Registration Cost | Organizer Hourly Rate | Notes: |
| 27 | 20 | 20.31 |  |
|  |  | 25.43 |  |
|  |  |  |  |
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| Event 17 Page 14 |  |  |
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|  |  |  |
| Actual Travel Cost | Travel + Preparation + Event Time |  |
| 71.1601354 | 436.7401354 |  |
| 46.397638 | 402.417638 |  |
| 117.5577734 | 839.1577734 |  |
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| Event 18 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 Norman, Cleveland County | 180 |
|  | 2 Oklahoma City, Oklahoma County | 170 |
|  | 3 Oklahoma City, Oklahoma County | 168 |
|  | 4 Moore, Cleveland County | 176 |
|  | 5 Tulsa, Tulsa County | 60 |
|  | 6 Broken Arrow, Tulsa County | 50 |
|  | 7 Chelsea, Rogers County | 27 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Number of Participants | 7 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 427.1535929 |  |
| Total Travel Cost | 2990.07515 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 1000.570736 |  |
| Total Actual Travel + Time at Event | 7003.99515 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 746.1446179 |  |
| Total Willingness Travel Cost Per Participant | 5223.012325 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 1319.561761 |  |
| Total Willingness Travel + Time at Event | 9236.932325 |  |
|  |  |  |
| Total Organzier Costs | 1889.953335 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 8893.948486 |  |
| Total Willing Participant + Organizer Costs Value | 11126.88566 |  |
|  |  |  |
| Response Rate | 78\% |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Organizer Data |  |  |
| Organizers | Expenditures | Planning Time (hrs) |
| Organizer 1 | 317.46 | 6 |
| Organizer 2 | 242 | 2 |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Total Travel + Preparation Time + Time Spent at Event + Expenditures | 1889.953335 |  |
|  |  |  |
| Total Participants Registration Fee | 1225 |  |


| Event 18 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | und Trip Travel Time (hr) |
| 360 | 3 | 6 |
| 340 | 2.5 | 5 |
| 336 | 2.5 | 5 |
| 352 | 2.5 | 5 |
| 120 | 1 | 2 |
| 100 | 1 | 2 |
| 54 | 0.51667 | 1.03334 |
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|  |  |  |
| Organizer Benefit/Organizer Cost | 0.648164151 |  |
|  |  |  |
| Actual Value/Organizer Cost | 3.70590904 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 4.887386451 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.758259875 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 1 | 2 | 0.08333 |
| 185 | 370 | 2.8666667 |
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| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Willingness to Travel (time, hr) |
| 210 | 420 | 3.5 |
| 744 | 1488 | 10.9167 |
| 497 | 994 | 7.5 |
| 176 | 352 | 2.5 |
| 120 | 240 | 2 |
| 100 | 200 | 2 |
| 108 | 216 | 2 |
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| Organizer Cost Per Participant | 269.9933336 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 1 | 1 | 0 |
| 5.7333334 | 1 |  |
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| Event 18 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 7 | 0 | 1 | 0.58 |
| 21.8334 | 0 | 1 | 0.58 |
| 15 | 3 | 4 | 0.58 |
| 5 | 2 | 3 | 0.58 |
| 4 | 0 | 1 | 0.58 |
| 4 | 0 | 1 | 0.58 |
| 4 | 0 | 1 | 0.58 |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 16 | 11 |
| 0.58 | 0.58 | 16 |  |
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| Event 18 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.58 | 175 | 16 | 0 | 150 |
| 0.58 | 175 | 16 | 0 | 0 |
| 0.145 | 175 | 16 | 0 | 0 |
| 0.193333333 | 175 | 16 | 0 | 0 |
| 0.58 | 175 | 16 | 0 | 0 |
| 0.58 | 175 | 16 | 0 | 0 |
| 0.58 | 175 | 16 | 0 | 0 |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 9 | 175 | 27 |  |  |
|  |  | 31 |  |  |
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| Event 18 Page 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ | Gender M=1 F=2 | Low Age | High Age | Representative Age | Education | Job Classification |
| 2 | 1 | 26 | 35 | 30.5 | G | Civil Engineer |
| 2 | 2 | 56 | 65 | 60.5 | B | Civil Engineer |
| 2 | 1 | 18 | 25 | 21.5 | B | nvironmental Engineer |
| 2 | 2 | 26 | 35 | 30.5 | B | Civil Engineer |
| 2 | 1 | 36 | 45 | 40.5 | G | Civil Engineer |
| 2 | 1 | 36 | 45 | 40.5 | B | Civil Engineer |
| 2 | 2 | 36 | 45 | 40.5 | B | Environmental Scientist |
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|  |  |  |  |  |  | Actual Travel Cost |
|  |  |  |  |  |  | 28.16 |
|  |  |  |  |  |  | 392.3333354 |
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|  |  |  |  |  |  | 420.4933354 |
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| Event 18 Page 7 |  |  |  |
| :---: | :---: | :---: | :---: |
| Average Annual Income | Hourly Income Average | Region Used | Ecosystem Profile (Oklahoma Dept of Commerce) |
| 72550.4 | 34.88 | Central Oklahoma | Civil Engineer |
| 72550.4 | 34.88 | Central Oklahoma | Civil Engineer |
| 72550.4 | 34.88 | Central Oklahoma | Civil Engineer |
| 72550.4 | 34.88 | Central Oklahoma | Civil Engineer |
| 92352 | 44.4 | Tulsa Metro | Civil Engineer |
| 92352 | 44.4 | Tulsa Metro | Civil Engineer |
| 46904 | 22.55 | Central Oklahoma | Environmental Scientist |
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| Travel + Preparation + Event Time |  |  |  |
| 622.16 |  |  |  |
| 950.3333354 |  |  |  |
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| 1572.493335 |  |  |  |
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| Event 18 Page 8 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Actual Travel Cost | Time At Event Cost | TC+Time Spent | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |
| 743.08 | 558.08 | 1301.16 | 812.76 | 558.08 | 1370.84 |
| 546.6 | 558.08 | 1104.68 | 1799.588992 | 558.08 | 2357.668992 |
| 398.12 | 558.08 | 956.2 | 842.33 | 558.08 | 1400.41 |
| 417.4533333 | 558.08 | 975.5333333 | 417.4533333 | 558.08 | 975.5333333 |
| 333.4 | 710.4 | 1043.8 | 491.8 | 710.4 | 1202.2 |
| 321.8 | 710.4 | 1032.2 | 468.6 | 710.4 | 1179 |
| 229.621817 | 360.8 | 590.421817 | 390.48 | 360.8 | 751.28 |
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| Event 19 Page 1 |  |  |
| :---: | :---: | :---: |
| Participants | Residence | Distance Travelled (mi) |
|  | 1 Sulphur, Murray County | 22 |
|  | 2 Ada, Pontotoc County | 10 |
|  | 3 Ada, Pontotoc County | 4 |
|  | 4 Ada, Pontotoc County | 5 |
|  | 5 Ada, Pontotoc County | 3 |
|  | 6 Stratford, Garvin County | 17 |
|  | 7 Ada, Pontotoc County | 2 |
|  | 8 Allen, Pontotoc | 20 |
|  | 9 Calvin, Hughes County | 30 |
|  | 10 Stratford, Garvin County | 20 |
|  | 11 Dibble, McClain County | 70 |
|  | 12 Blanchard, McClain County | 70 |
|  | 13 Springer, Carter County | 75 |
|  | 14 Ada, Pontotoc County | 1 |
|  | 15 Davis, Murray County | 30 |
|  | 16 Sulphur, Murray County | 36 |
|  | 17 Davis, Murray County | 36 |
|  | 18 Sulphur, Murray County | 30 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Number of Participants | 18 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 58.62278494 |  |
| Total Travel Cost | 1055.210129 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 163.456599 |  |
| Total Actual Travel + Time at Event | 2942.218783 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 159.6676498 |  |
| Total Willingness Travel Cost Per Participant | 2874.017696 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 264.5014639 |  |
| Total Willingness Travel + Time at Event | 4761.02635 |  |
|  |  |  |
| Total Organzier Costs | 1739.157773 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 4681.376556 |  |
| Total Willing Participant + Organizer Costs Value | 6500.184123 |  |


| Event 19 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 44 | 0.5 | 1 |
| 20 | 0.166666667 | 0.333333333 |
| 8 | 0.166666667 | 0.333333333 |
| 10 | 0.166666667 | 0.333333333 |
| 6 | 0.166666667 | 0.333333333 |
| 34 | 0.416667 | 0.833334 |
| 4 | 0.15 | 0.3 |
| 40 | 0.416667 | 0.833334 |
| 60 | 0.583333 | 1.166666 |
| 40 | 0.5 | 1 |
| 140 | 1.5 | 3 |
| 140 | 1.5 | 3 |
| 150 | 1.08333 | 2.16666 |
| 2 | 0.08333 | 0.16666 |
| 60 | 0.5 | 1 |
| 72 | 0.5 | 1 |
| 72 | 0.5 | 1 |
| 60 | 0.5 | 1 |
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| Organizer Benefit/Organizer Cost | 0.321994938 |  |
|  |  |  |
| Actual Value/Organizer Cost | 1.691749206 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 2.737547118 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.617979941 |  |
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## Event 19 Page 3

Willingness to Travel (dist, miles) Willingness Round Trip Distance (mi) Willingness to Travel (time, hr)

| 44 | 88 | 1 |
| :---: | :---: | :---: |
| 40 | 80 | 0.66667 |
| 72 | 144 | 3 |
| 5 | 10 | 0.166667 |
| 35 | 70 | 0.75 |
| 57.8 | 115.6 | 1.416667 |
| 60 | 120 | 1 |
| 20 | 40 | 0.416667 |
| 90 | 180 | 1.75 |
| 20 | 40 | 0.5 |
| 70 | 140 | 1.5 |
| 70 | 140 | 1.5 |
| 100 | 200 | 1.4444 |
| 2 | 4 | 0.166667 |
| 324 | 648 | 5.316667 |
| 307 | 614 | 5.08333 |
| 324 | 648 | 5.316667 |
| 307 | 614 | 5.08333 |
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| Organizer Cost Per Participant | 96.6198763 |  |
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| Event 19 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 2 | 0 | 01 | 0.58 |
| 1.33334 | 0 | 1 | 0.58 |
| 6 | 0 | 1 | 0.58 |
| 0.333334 | 0 | 01 | 0.58 |
| 1.5 | 0 | 1 | 0.58 |
| 2.833334 | 0 | 1 | 0.58 |
| 2 | 0 | 1 | 0.58 |
| 0.833334 | 1 | 2 | 0.58 |
| 3.5 | 1 | 2 | 0.58 |
| 1 | 0 | 1 | 0.58 |
| 3 | 2 | 3 | 0.58 |
| 3 | 2 | 3 | 0.58 |
| 2.8888 | 0 | 1 | 0.58 |
| 0.333334 | 0 | 1 | 0.58 |
| 10.633334 | 0 | 1 | 0.58 |
| 10.16666 | 3 | 4 | 0.58 |
| 10.633334 | 2 | 3 | 0.58 |
| 10.16666 | 2 | 3 | 0.58 |
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| nt 19 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.29 | 20 | 6 | 0 | 0 |
| 0.29 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.193333333 | 20 | 6 | 0 | 0 |
| 0.193333333 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.145 | 20 | 6 | 0 | 0 |
| 0.193333333 | 20 | 6 | 0 | 0 |
| 0.193333333 | 20 | 6 | 0 | 0 |
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## Event 19 Page 6

Work Related? $\mathrm{N}=1 \mathrm{Y}=\mathbf{2}$ Gender M=1 F=2 Low Age High Age Representative Age Education Job Classification

| 2 | 2 | 46 | 55 | 50.5 GS | Educator |
| ---: | ---: | ---: | ---: | :--- | :--- |
| 1 | 2 | 18 | 25 | 21.5 HS | Not Currently Employed |
| 2 | 2 | 26 | 35 | 30.5 A | Teacher Assistant |
| 1 | 2 | 18 | 25 | 21.5 B | Educator |
| 2 | 2 | 65 |  | 65 Some College | Special Needs Provider |
| 2 | 2 | 46 | 55 | 50.5 B | Teacher |
| 1 | 2 | 36 | 45 | 40.5 B | Teacher |
| 2 | 2 | 46 | 55 | 50.5 HS | Teacher Assistant |
| 2 | 2 | 26 | 35 | 30.5 B | Educator |
| 2 | 2 | 26 | 35 | 30.5 HS | Childcare Provider |
| 2 | 2 | 36 | 45 | 40.5 B | Educator |
| 2 | 2 | 46 | 55 | 50.5 GS | Educator |
| 2 | 2 | 46 | 55 | 50.5 B | Public School Teacher |
| 1 | 1 | 18 | 25 | 21.5 HS | Student |
| 2 | 2 | 46 | 55 | 50.5 B | Teacher |
| 2 | 2 | 46 | 55 | 50.5 B | Teacher Assistant |
| 2 | 2 | 36 | 45 | 40.5 GS | Teacher |
| 1 | 1 | 26 | 35 | 30.5 GS | Teacher |


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| Event 19 Page 7 |  |  |  |
| :---: | :---: | :---: | :---: |
| Average Annual Income | Hourly Income Average | Region Used | Ecosystem Profile (Oklahoma Dept of Commerce) |
| 53,153 | 25.55432692 |  | Oklahoma Teacher Salary Schedule |
| 15080 | 7.25 |  | Oklahoma Teacher Salary Schedule |
| 20000 | 9.615384615 |  | Oklahoma Teacher Salary Schedule |
| 37,964 | 18.25192308 |  | Oklahoma Teacher Salary Schedule |
| 27854 | 13.39134615 |  | Oklahoma Teacher Salary Schedule |
| 51,232 | 24.63076923 |  | Oklahoma Teacher Salary Schedule |
| 45,642 | 21.94326923 |  | Oklahoma Teacher Salary Schedule |
| 20000 | 9.615384615 |  | Oklahoma Teacher Salary Schedule |
| 39,968 | 19.21538462 |  | Oklahoma Teacher Salary Schedule |
| 20000 | 9.615384615 |  | Oklahoma Teacher Salary Schedule |
| 45,327 | 21.79182692 |  | Oklahoma Teacher Salary Schedule |
| 52,436 | 25.20961538 |  | Oklahoma Teacher Salary Schedule |
| 51,232 | 24.63076923 |  | Oklahoma Teacher Salary Schedule |
| 15080 | 7.25 |  | Oklahoma Teacher Salary Schedule |
| 51,232 | 24.63076923 |  | Oklahoma Teacher Salary Schedule |
| 20000 | 9.615384615 |  | Oklahoma Teacher Salary Schedule |
| 46,605 | 22.40625 |  | Oklahoma Teacher Salary Schedule |
| 41,358 | 19.88365385 |  | Oklahoma Teacher Salary Schedule |
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## Event 19 Page 8

| Actual Travel Cost | Time At Event Cost | TC+Time Spent | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 71.07432692 | 153.3259615 | 224.4002885 | 122.1486538 | 153.3259615 | 275.4746154 |
| 32.40555556 | 43.5 | 75.90555556 | 69.62223833 | 43.5 | 113.1222383 |
| 27.84512821 | 57.69230769 | 85.5374359 | 161.2123077 | 57.69230769 | 218.9046154 |
| 27.82799145 | 109.5115385 | 137.3395299 | 27.82799551 | 109.5115385 | 137.339534 |
| 27.94378205 | 80.34807692 | 108.291859 | 80.68701923 | 80.34807692 | 161.0350962 |
| 60.24565745 | 147.7846154 | 208.0302728 | 156.8351959 | 147.7846154 | 304.6198113 |
| 24.51432692 | 131.6596154 | 156.1739423 | 104.2288462 | 131.6596154 | 235.8884615 |
| 39.61282692 | 57.69230769 | 97.30513462 | 39.61282692 | 57.69230769 | 97.30513462 |
| 59.81793591 | 115.2923077 | 175.1102436 | 139.4538462 | 115.2923077 | 254.7461538 |
| 52.81538462 | 57.69230769 | 110.5076923 | 52.81538462 | 57.69230769 | 110.5076923 |
| 112.4421474 | 130.7509615 | 243.193109 | 112.4421474 | 130.7509615 | 243.193109 |
| 122.6955128 | 151.2576923 | 273.9532051 | 122.6955128 | 151.2576923 | 273.9532051 |
| 160.3665025 | 147.7846154 | 308.1511178 | 207.1533662 | 147.7846154 | 354.9379815 |
| 21.56276167 | 43.5 | 65.06276167 | 23.12555717 | 43.5 | 66.62555717 |
| 79.43076923 | 147.7846154 | 227.2153846 | 657.7471959 | 147.7846154 | 805.5318113 |
| 40.05538462 | 57.69230769 | 97.74769231 | 206.7863462 | 57.69230769 | 264.4786538 |
| 56.32625 | 134.4375 | 190.76375 | 383.5331399 | 134.4375 | 517.9706399 |
| 38.22788462 | 119.3019231 | 157.5298077 | 206.0901161 | 119.3019231 | 325.3920391 |
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| Event 20 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 Edmond, Oklahoma County | 8 |
|  | 2 Oklahoma City, Oklahoma County | 19 |
|  | 3 Edmond, Oklahoma County | 10 |
|  | 4 Edmond, Oklahoma County | 5 |
|  | 5 Oklahoma City, Oklahoma County | 19 |
|  | 6 Yukon, Canadian County | 31 |
|  | 7 Moore, Cleveland County | 26 |
|  | 8 Moore, Cleveland County | 26 |
|  | 9 Oklahoma City, Oklahoma County | 30 |
|  | 10 Moore, Cleveland County | 30 |
|  | 11 Moore, Cleveland County | 30 |
|  | 12 Stillwater, Payne County | 60 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Number of Participants | 12 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 39.13327107 |  |
| Total Travel Cost | 469.5992529 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 82.63327107 |  |
| Total Actual Travel + Time at Event | 991.5992529 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 74.46623078 |  |
| Total Willingness Travel Cost Per Participant | 893.5947693 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 117.9662308 |  |
| Total Willingness Travel + Time at Event | 1415.594769 |  |
|  |  |  |
| Total Organzier Costs | 936.7401354 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 1928.339388 |  |
| Total Willing Participant + Organizer Costs Value | 2352.334905 |  |
|  |  |  |
| Response Rate | 100\% |  |
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| Event 20 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 16 | 0.13333 | 0.26666 |
| 38 | 0.3333 | 0.6666 |
| 20 | 0.416667 | 0.833334 |
| 10 | 0.1166667 | 0.2333334 |
| 38 | 0.5 | 1 |
| 62 | 0.58333 | 1.16666 |
| 52 | 0.5 | 1 |
| 52 | 0.5 | 1 |
| 60 | 0.5 | 1 |
| 60 | 0.5 | 1 |
| 60 | 0.5 | 1 |
| 120 | 1 | 2 |
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| Organizer Benefit/Organizer Cost | 0.277558301 |  |
|  |  |  |
| Actual Value/Organizer Cost | 1.058563859 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 1.511192609 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.700482422 |  |
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|  |  |  |
| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 38 | 76 | 0.66667 |

## Event 19 Page 3

Willingness to Travel (dist, miles) Willingness Round Trip Distance (mi) Willingness to Travel (time, hr)

| 44 | 88 | 1 |
| :---: | :---: | :---: |
| 40 | 80 | 0.66667 |
| 72 | 144 | 3 |
| 5 | 10 | 0.166667 |
| 35 | 70 | 0.75 |
| 57.8 | 115.6 | 1.416667 |
| 60 | 120 | 1 |
| 20 | 40 | 0.416667 |
| 90 | 180 | 1.75 |
| 20 | 40 | 0.5 |
| 70 | 140 | 1.5 |
| 70 | 140 | 1.5 |
| 100 | 200 | 1.4444 |
| 2 | 4 | 0.166667 |
| 324 | 648 | 5.316667 |
| 307 | 614 | 5.08333 |
| 324 | 648 | 5.316667 |
| 307 | 614 | 5.08333 |
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| Organizer Cost Per Participant | 96.6198763 |  |
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| Event 20 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 0.533334 | 0 | 1 | 0.58 |
| 1 | 0 | 1 | 0.58 |
| 0.833334 | 0 | 1 | 0.58 |
| 0.93334 | 0 | 1 | 0.58 |
| 2 | 0 | 1 | 0.58 |
| 2.3332 | 1 | 2 | 0.58 |
| 1 | 5 | 6 | 0.58 |
| 1 | 5 | 6 | 0.58 |
| 1.5 | 4 | 5 | 0.58 |
| 1 | 4 | 5 | 0.58 |
| 9.4666 | 5 | 6 | 0.58 |
| 8 | 0 | 1 | 0.58 |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 6 | 13 |

## Event 20 Page 5

| Weighted Cost Per Mile | R | Time at Event (hrs) | Time in Town (Outside Event Hrs) | ther Costs |
| :---: | :---: | :---: | :---: | :---: |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.29 | 20 | 6 | 0 | 0 |
| 0.096666667 | 20 | 6 | 0 | 0 |
| 0.096666667 | 20 | 6 | 0 | 0 |
| 0.116 | 20 | 6 | 0 | 0 |
| 0.116 | 20 | 6 | 0 | 0 |
| 0.096666667 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 12 | 20 | 20.31 |  |  |

## Event 20 Page 6

Work Related? $\mathrm{N}=\mathbf{1} \mathrm{Y}=\mathbf{2}$ Gender $\mathrm{M}=1 \mathrm{~F}=\mathbf{2}$ Low Age High Age Representative Age Education Job Classification

| 1 | 2 | 18 | 25 | 21.5 H | Student |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 18 | 25 | 21.5 A | Student |
| 1 | 2 | 18 | 25 | 21.5 H | Student |
| 1 | 2 | 18 | 25 | 21.5 H | Student |
| 2 | 2 | 18 | 25 | 21.5 B | Student |
| 1 | 2 | 46 | 55 | 50.5 B | Student |
| 1 | 2 | 18 | 25 | 21.5 B | Student |
| 1 | 2 | 18 | 25 | 21.5 A | Student |
| 1 | 2 | 18 | 25 | 21.5 A | Student |
| 2 | 2 | 18 | 25 | 21.5 B | Student |
| 2 | 2 | 26 | 35 | 30.5 B | Student |
| 1 | 1 | 26 | 35 | 30.5 B | Student |
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|  |  |  |  |  | Actual Travel Cost |
|  |  |  |  |  | 71.1601354 |


| Event 20 Page 7 |  |  |
| :---: | :---: | :---: |
| Average Annual Income | Hourly Income Average (Reported/Researched) | Region Used |
| 15080 | 7.25 |  |
| 15080 | 7.25 |  |
| 15080 | 7.25 |  |
| 15080 | 7.25 |  |
| 15080 | 7.25 |  |
| 15080 | 7.25 |  |
| 15080 | 7.25 |  |
| 15080 | 7.25 |  |
| 15080 | 7.25 |  |
| 15080 | 7.25 |  |
| 15080 | 7.25 |  |
| 15080 | 7.25 |  |
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| Travel + Preparation + Event Time |  |  |
| 436.7401354 |  |  |

## Event 20 Page 8

| Actual Travel Cost | Time At Event Cost | TC+Time Spent | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 29.92442833 | 43.5 | 73.42442833 | 39.8488905 | 43.5 | 83.3488905 |
| 43.65095 | 43.5 | 87.15095 | 55.47666667 | 43.5 | 98.97666667 |
| 33.6138905 | 43.5 | 77.1138905 | 33.6138905 | 43.5 | 77.1138905 |
| 26.36388905 | 43.5 | 69.86388905 | 45.45557167 | 43.5 | 88.95557167 |
| 49.29 | 43.5 | 92.79 | 78.58 | 43.5 | 122.08 |
| 40.79942833 | 43.5 | 84.29942833 | 61.59856667 | 43.5 | 105.0985667 |
| 27.44333333 | 43.5 | 70.94333333 | 27.44333333 | 43.5 | 70.94333333 |
| 27.44333333 | 43.5 | 70.94333333 | 27.44333333 | 43.5 | 70.94333333 |
| 29.37666667 | 43.5 | 72.87666667 | 34.065 | 43.5 | 77.565 |
| 34.21 | 43.5 | 77.71 | 34.21 | 43.5 | 77.71 |
| 33.05 | 43.5 | 76.55 | 138.1261833 | 43.5 | 181.6261833 |
| 94.43333333 | 43.5 | 137.9333333 | 317.7333333 | 43.5 | 361.2333333 |
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| Event 21 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
| 1 | Hennessey, Kingfisher County | 67 |
| 2 | Yukon, Canadian County | 20 |
| 3 | Oklahoma City, Oklahoma County | 25 |
| 4 | Moore, Cleveland County | 30 |
|  | Edmond, Oklahoma County | 6 |
| 6 | Edmond, Oklahoma County | 5 |
|  | Purcell, McClain County | 50 |
| 8 | Norman, Cleveland County | 40 |
| A | Midwest City, Oklahoma County | 20 |
| 10 | Ardmore, Oklahoma | 100 |
| 11 | Oklahoma City, Oklahoma County | 17 |
| 12 | Oklahoma City, Oklahoma County | 17 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Number of Participants | 12 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 54.14843334 |  |
| Total Travel Cost | 649.7812001 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 103.6311257 |  |
| Total Actual Travel + Time at Event | 1243.573508 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 67.32246096 |  |
| Total Willingness Travel Cost Per Participant | 807.8695315 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 116.8051533 |  |
| Total Willingness Travel + Time at Event | 1401.661839 |  |
|  |  |  |
| Total Organzier Costs | 817.9801354 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 2061.553643 |  |
| Total Willing Participant + Organizer Costs Value | 2219.641975 |  |
|  |  |  |
| Response Rate | 100\% |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Organizer Data |  |  |
| Organizers | Expenditures | Planning Time (hrs) |
| Organizer 1 | 300 | 16 |
| Organizer 2 |  |  |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Total Travel + Preparation Time + Time Spent at Event + Expenditures | 817.9801354 |  |
|  |  |  |
| Total Participants Registration Fee | 260 |  |


| Event 21 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 134 | 1.08333 | 2.16666 |
| 40 | 0.41667 | 0.83334 |
| 50 | 0.416667 | 0.833334 |
| 60 | 0.5 | 1 |
| 12 | 0.25 | 0.5 |
| 10 | 0.083333 | 0.166666 |
| 100 | 0.9 | 1.8 |
| 80 | 0.58333 | 1.16666 |
| 40 | 0.5 | 1 |
| 200 | 2 | 4 |
| 34 | 0.5333 | 1.0666 |
| 34 | 0.3333 | 0.6666 |
|  |  |  |
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|  |  |  |
|  |  |  |
| Organizer Benefit/Organizer Cost | 0.31785613 |  |
|  |  |  |
| Actual Value/Organizer Cost | 1.520297931 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 1.713564644 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.887213644 |  |
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| Travel Distance (mi) | Round Trip Distanc | Travel Time (hr) |
| 38 | 76 | 0.66667 |
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| Event 21 Pag |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Willingness to Travel (time, hr) |
| 67 | 134 | 1.08333 |
| 30 | 60 | 0.625 |
| 35 | 70 | 0.58333 |
| 30 | 60 | 0.5 |
| 18 | 36 | 0.5 |
| 25 | 50 | 0.416667 |
| 90 | $180$ | $1.62$ |
| 60 | 120 | 0.875 |
| 20 | 40 | 0.5 |
| 150 | 300 | 3 |
| 21.25 | $42.5$ | 0.66667 |
| 21.25 | 42.5 | 0.46667 |
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| Organizer Cost Per Participant | 68.16501128 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 1.33334 | 1 | 0 |
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| Event 21 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 2.16666 | 0 | 1 | 0.58 |
| 1.25 | 0 | 1 | 0.58 |
| 1.16666 | 0 | 1 | 0.58 |
| 1 | 0 | 1 | 0.58 |
| 1 | 0 | 1 | 0.58 |
| 0.833334 | 0 | 1 | 0.58 |
| 3.24 | 2 | 3 | 0.58 |
| 1.75 | 1 | 2 | 0.58 |
| 1 | 0 | 1 | 0.58 |
| 6 | 4 | 5 | 0.58 |
| 1.33334 | 0 | 1 | 0.58 |
| 0.93334 | 0 | 1 | 0.58 |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hı | Registrants |
| 0.58 | 0.58 | 6 | 13 |
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| Event 21 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.193333333 | 20 | 6 | 0 | 0 |
| 0.29 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.116 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
| 0.58 | 20 | 6 | 0 | 0 |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 12 | 20 | 20.31 |  |  |
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Event 21 Page 6
Work Related? $\mathbf{N}=1 \mathbf{Y}=\mathbf{2}$ Gender $\mathbf{M}=1 \mathrm{~F}=\mathbf{2}$ Low Age High Age Representative Age Education Job Classification

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 18 | 25 | 21.5 | A | Student |
| 1 | 2 | 36 | 45 | 40.5 | B | Student |
| 1 | 2 | 18 | 25 | 21.5 | A | Student |
| 1 | 2 | 26 | 35 | 30.5 | A | Student |
| 1 | 2 | 18 | 25 | 21.5 | A | Student |
| 1 | 2 | 18 | 25 | 21.5 | B | Student |
| 1 | 2 | 18 | 25 | 21.5 | A | Student |
| 1 | 2 | 18 | 25 | 21.5 | A | Student |
| 1 | 2 | 18 | 25 | 21.5 | HS | Student |
| 2 | 2 | 26 | 35 | 30.5 | B | Teacher |
| 1 | 2 | 18 | 25 | 21.5 | B | Student |
| 1 | 2 | 18 | 25 | 21.5 | A | Student |
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|  |  |  |  |  |  | Actual Travel Cost |
|  |  |  |  |  |  | 71.1601354 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  | 71.1601354 |
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| :---: | :---: | :---: | :---: |
| Average Annual Income | Hourly Income Average | Region Used | Ecosystem Profile (Oklahoma Dept of Commerce) |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
| 39,968 | 19.21538462 |  | Oklahoma Teacher Salary Schedule |
| 15080 | 7.25 |  |  |
| 15080 | 7.25 |  |  |
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| Travel + Preparation + Event Time |  |  |  |
| 517.9801354 |  |  |  |
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| 517.9801354 |  |  |  |
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| Event 21 Page 8 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Actual Travel Cost | Time At Event Cost | TC+Time Spent | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |
| 102.956095 | 43.5 | 146.456095 | 102.956095 | 43.5 | 146.456095 |
| 45.213905 | 43.5 | 88.713905 | 57.82083333 | 43.5 | 101.3208333 |
| 51.0138905 | 43.5 | 94.5138905 | 63.41942833 | 43.5 | 106.9194283 |
| 57.21666667 | 43.5 | 100.7166667 | 57.21666667 | 43.5 | 100.7166667 |
| 28.16833333 | 43.5 | 71.66833333 | 43.29666667 | 43.5 | 86.79666667 |
| 26.20277617 | 43.5 | 69.70277617 | 51.0138905 | 43.5 | 94.5138905 |
| 43.68333333 | 43.5 | 87.18333333 | 62.63 | 43.5 | 106.13 |
| 46.01942833 | 43.5 | 89.51942833 | 59.02916667 | 43.5 | 102.5291667 |
| 45.61666667 | 43.5 | 89.11666667 | 45.61666667 | 43.5 | 89.11666667 |
| 120.0615385 | 115.2923077 | 235.3538462 | 170.0923077 | 115.2923077 | 285.3846154 |
| 42.29761667 | 43.5 | 85.79761667 | 47.87223833 | 43.5 | 91.37223833 |
| 41.33095 | 43.5 | 84.83095 | 46.90557167 | 43.5 | 90.40557167 |
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| Event 22 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 Norman, Cleveland Co | 3.5 |
|  | 2 Norman, Cleveland Co | 4.2 |
|  | 3 Norman, Cleveland Co | 5 |
|  | 4 Blanchard, Grady Co | 22 |
|  | 5 Goldsby, McClain Co | 10 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Number of Participants | 5 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 66.9249956 |  |
| Total Travel Cost | 334.624978 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 123.8871494 |  |
| Total Actual Travel + Time at Event | 619.4357472 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 79.74481718 |  |
| Total Willingness Travel Cost | 398.7240859 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 19.38505446 |  |
| Total Willingness Travel + Time at Event | 683.5348551 |  |
|  |  |  |
| Total Organzier Costs | 1045.245 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 1664.680747 |  |
| Total Willing Participant + Organizer Costs Value | 1728.779855 |  |
|  |  |  |
| Response Rate | 56\% |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Organizer Data |  |  |
| Organizers | Expenditures | Planning Time (hrs) |
| Organizer 1 | 326 | 12 |
| Organizer 2 |  | 12 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Total Travel + Preparation Time + Time Spent at Event + Expenditures | 1045.245 |  |
|  |  |  |
| Total Participants Registration Fee | 720 |  |


| Event 22 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 7 | 0.18333 | 0.36666 |
| 8.4 | 0.15 | 0.3 |
| 10 | 0.25 | 0.5 |
| 44 | 0.6333 | 1.2666 |
| 20 | 0.333 | 0.666 |
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| Organizer Benefit/Organizer Cost | 0.688833718 |  |
|  |  |  |
| Actual Value/Organizer Cost | 1.59262254 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 1.653947022 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.962922342 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 2 | 4 | 0.166666667 |
| 5 | 10 | 0.25 |
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| Event 22 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Willingness to Travel (time, hr) |
| 13.045 | 26.09 | 0.68333 |
| 14 | 28 | 0.5 |
| 5 | 10 | 0.25 |
| 34.74 | 69.48 | - 1 |
| 25 | 50 | 0.8333 |
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| Organizer Cost Per Participant | 209.049 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 0.333333333 | - 1 | 0 |
| 0.5 | 1 | 0 |
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| Event 22 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 1.36666 | 0 | 1 | 0.58 |
| 1 | 0 | 1 | 0.58 |
| 0.5 | 0 | 1 | 0.58 |
| 2 | 1 | 2 | 0.58 |
| 1.6666 | 1 | 2 | 0.58 |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 2 | 8 |
| 0.58 | 0.58 | 2 | 8 |
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| Event 22 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.58 | 55 | 2 | 0 | 0 |
| 0.58 | 55 | 2 | 0 | 0 |
| 0.58 | 55 | 2 | 0 | 0 |
| 0.29 | 55 | 2 | 0 | 0 |
| 0.29 | 55 | 2 | 0 | 0 |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 9 | 80 | 18 |  |  |
| 9 | 80 | 31.25 | Hourly Rate as 250/day, 12 hours = 1.5 days, 375/12 |  |
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Event 22 Page 6

| Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ | Gender M=1 | Low Age | h Age | Representative Age | Education | Job Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 26 | 35 | 30.5 |  | Meteorologist |
| 1 | 2 | 26 | 35 | 30.5 |  | Environmental Programs Specialist |
| 1 | 1 | 36 | 45 | 40.5 |  | Attorney |
| 1 | 1 | 36 | 45 | 40.5 |  | Truck Driver |
| 1 | 1 | 65 |  | 66 |  | Retired |
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|  |  |  |  |  | Actual Trav | Travel + Preparation + Event Time |
|  |  |  |  |  |  | 260.32 |
|  |  |  |  |  |  | 458.925 |
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| :---: | :---: | :---: | :---: |
| Average Annual Income | ourly Income Average (Reported/Researched) | Region Used | Ecosystem Profile (Oklahoma Dept of Commerce) |
| 62000 | 29.80769231 | Central | Average Income Profession Scientific and Techical Services |
| 46904 | 22.55 | Central | Environmnetal Scientists and Specialists |
| 113040 | 54.34615385 | Oklahoma Mean Wage | Lawyer (US Bureau of Labor Statistics) |
| 35,859.20 | 17.24 | Central | Heavy and Tractor Trailer Truck Drivers |
| 38400 | 18.46153846 | Cetnral | McClain County Average Earnings |
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## Event 22 Page 8

| Actual Travel Cost | Time At Event Cost | TC+Time Spent | Willing Travel Cost | Time at Event Cost | VTC+Time Spent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 62.70309615 | 59.61538462 | 122.3184808 | 83.71119359 | 59.61538462 | 143.3265782 |
| 62.127 | 45.1 | 107.227 | 78.75666667 | 45.1 | 123.8566667 |
| 69.85769231 | 108.6923077 | 178.55 | 69.85769231 | 108.6923077 | 178.55 |
| 75.038728 | 34.48 | 109.518728 | 86.64253333 | 34.48 | 121.1225333 |
| 64.89846154 | 36.92307692 | 101.8215385 | 79.756 | 36.92307692 | 116.6790769 |
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| Event 23 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 Oklahoma City, Oklahoma County | 15 |
|  | 2 Oklahoma City, Oklahoma County | 15 |
|  | 3 Harrah, Oklahoma County | 17 |
|  | 4 Edmond, Oklahoma County | 17 |
|  | 5 Oklahoma City, Oklahoma County | 9 |
|  | 6 Edmond, Oklahoma County | 10 |
|  | 7 Oklahoma City, Oklahoma County | 20 |
|  | 8 Oklahoma City, Oklahoma County | 8 |
|  | 9 Edmond, Oklahoma County | 7 |
|  | 10 Oklahoma City, Oklahoma County | 4 |
|  | 11 Choctaw, Oklahoma | 30 |
|  | 12 Harrah, Oklahoma County | 17 |
|  | 13 Oklahoma City, Oklahoma County | 12 |
|  | 14 Midwest City, Oklahoma County | 15 |
|  | 15 Oklahoma City, Oklahoma County | 15 |
|  | 16 Oklahoma City, Oklahoma County | 10 |
|  | 17 Edmond, Oklahoma County | 12 |
|  | 18 Edmond, Oklahoma County | 17 |
|  | 19 Edmond, Logan County | 24 |
|  | 20 Oklahoma City, Oklahoma County | 7 |
|  | 21 Edmond, Oklahoma County | 7 |
|  | 22 Oklahoma City, Oklahoma County | 6 |
|  | 23 Oklahoma City, Oklahoma County | 5 |
|  | 24 Edmond, Oklahoma County | 15 |
|  | 25 Jones, Oklahoma County | 7.4 |
|  | 26 Oklahoma City, Oklahoma County | 6 |
|  | 27 Edmond, Oklahoma County | 12 |
|  | 28 Oklahoma City, Oklahoma County | 8 |
|  | 29 Midwest City, Oklahoma County | 20 |
|  | 30 Edmond, Oklahoma County | 14 |



| Event 23 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 30 | 0.5 | 1 |
| 30 | 0.41667 | 0.83334 |
| 34 | 0.5833 | 1.1666 |
| 34 | 0.3333 | 0.6666 |
| 18 | 0.3333 | 0.6666 |
| 20 | 0.416667 | 0.833334 |
| 40 | 0.5 | 1 |
| 16 | 0.25 | 0.5 |
| 14 | 0.333 | 0.666 |
| 8 | 0.25 | 0.5 |
| 60 | 0.5 | 1 |
| 34 | 0.58333 | 1.16666 |
| 24 | 0.583333 | 1.166666 |
| 30 | 0.5 | 1 |
| 30 | 0.4166667 | 0.8333334 |
| 20 | 0.33333 | 0.66666 |
| 24 | 0.3333 | 0.6666 |
| 34 | 0.366667 | 0.733334 |
| 48 | 0.58333 | 1.16666 |
| 14 | 0.25 | 0.5 |
| 14 | 0.333 | 0.666 |
| 12 | 0.41667 | 0.83334 |
| 10 | 0.3333 | 0.6666 |
| 30 | 0.333 | 0.666 |
| 14.8 | 0.2 | 0.4 |
| 12 | 0.333 | 0.666 |
| 24 | 0.5 | 1 |
| 16 | 0.25 | 0.5 |
| 40 | 0.5 | 1 |
| 28 | 0.75 | 1.5 |


| 22 | 0.25 | 0.5 |
| ---: | ---: | ---: |
|  | 40 | 0.416667 |
|  | 00 | 0.666667 |
|  | 20 | 0.25 |
|  | 12 | 0.25 |
|  | 20 | 0.3333 |
|  | 0.333334 |  |
|  | 50 | 0.333 |
|  | 22 | 0.41667 |
|  | 0.3333 | 0.5 |
|  | 44 | 0.416667 |
|  | 0.16667 | 0.6666 |
|  | 20 | 0.333 |

Event 23 Page 3
Willingness to Travel (dist, miles) Willingness Round Trip Distance (mi) Willingness to Travel (time, hr)

| 15 | 30 | 0.5 |
| :---: | :---: | :---: |
| 15 | 30 | 0.41667 |
| 27 | 54 | 0.92647 |
| 17 | 34 | 0.3333 |
| 24 | 48 | 0.8888889 |
| 60 | 120 | 1 |
| 30 | 60 | 0.75 |
| 28 | 56 | 0.875 |
| 10 | 20 | 0.47619 |
| 45 | 90 | 0.75 |
| 30 | 60 | 0.5 |
| 46.1428571 | 92.2857142 | 1.35 |
| 12 | 24 | 0.583333 |
| 15 | 30 | 0.5 |
| 15 | 30 | 0.4166667 |
| 20 | 40 | 0.666667 |
| 36 | 72 | 1 |
| 27 | 54 | 0.58235 |
| 41.1429 | 82.2858 | 1 |
| 32 | 64 | 1.143 |
| 47 | 94 | 0.7833 |
| 26 | 52 | 0.43333 |
| 30 | 60 | 0.5 |
| 15 | 30 | 0.333 |
| 19.7333 | 39.4666 | 0.53333 |
| 31 | 62 | 0.516667 |
| 22 | 44 | 0.66667 |
| 38 | 76 | 1.19 |
| 20 | 40 | 0.5 |


|  | 18 | 36 |
| ---: | ---: | ---: |
|  | 33 | 66 |
|  | 50 | 100 |
|  | 60 | 120 |
|  | 20 | 40 |
|  | 18 | 36 |
|  | 10 | 20 |


| Event 23 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 1 | 0 | 1 | 0.58 |
| 0.83334 | 0 | 1 | 0.58 |
| 1.85294 | 1 | 2 | 0.58 |
| 0.6666 | 0 | 1 | 0.58 |
| 1.7777778 | 0 | 1 | 0.58 |
| 2 | 0 | 1 | 0.58 |
| 1.5 | 0 | 1 | 0.58 |
| 1.75 | 1 | 2 | 0.58 |
| 0.95238 | 0 | 1 | 0.58 |
| 1.5 | 0 | 1 | 0.58 |
| 1 | 0 | 1 | 0.58 |
| 2.7 | 1 | 2 | 0.58 |
| 1.166666 | 1 | 2 | 0.58 |
| 1 | 1 | 2 | 0.58 |
| 0.8333334 | 0 | 1 | 0.58 |
| 1.333334 | 0 | 1 | 0.58 |
| 2 | 0 | 1 | 0.58 |
| 1.1647 | 0 | 1 | 0.58 |
| 2 | 0 | 1 | 0.58 |
| 2.286 | 0 | 1 | 0.58 |
| 1.5666 | 0 | 1 | 0.58 |
| 0.86666 | 0 | 1 | 0.58 |
| 1 | 0 | 1 | 0.58 |
| 0.666 | 1 | 2 | 0.58 |
| 1.06666 | 0 | 1 | 0.58 |
| 1.033334 | 1 | 2 | 0.58 |
| 1.33334 | 0 | 1 | 0.58 |
| 2.38 | 0 | 1 | 0.58 |
| 1 | 0 | 1 | 0.58 |


| 2 | 0 | 1 | 0.58 |
| ---: | ---: | ---: | ---: |
|  | 1.5 | 0 | 1 |
| 2.083334 | 1 | 2 | 0.58 |
| 3.2 | 0 | 1 | 0.58 |
|  | 1 | 1 | 2 |
|  | 1.5 | 1 | 2 |
| 0.6666 | 0 | 0.58 |  |
| 1.8432 | 0 | 1 | 0.58 |
| 0.83334 | 0 | 1 | 0.58 |
| 0.6666 | 0 | 1 | 0.58 |
| 1.83334 | 0 | 1 | 0.58 |
| 0.666 | 0 | 1 | 0.58 |
| 0.666 | 0 | 1 | 0.58 |
| 1.5 | 0 | 1 | 0.58 |
| 1.5 | 0 | 1 | 0.58 |
| 0.666 | 0 | 1 | 0.58 |
| 0.6666 | 0 | 1 | 0.58 |
| 0.83334 | 1 | 1 | 0.58 |
| 2 | 0 | 2 | 0.58 |
| 0.833334 | 0 | 0.58 |  |
| 0.6666 | 0 | 1 | 0.58 |
| 13.48 | 1 | 0.58 |  |
| 1.666 | 1 | 1 | 0.58 |
| 0.83334 | 0 | 2 | 0.58 |
| 1.6666 | 2 | 1 | 0 |

Event 23 Page 5

| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| :---: | :---: | :---: | :---: | :---: |
| 0.58 | 0 | 7 | 0 | 0 |
| 0.58 | 0 | 5 | 0 | 0 |
| 0.29 | 0 | 4 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.58 | 0 | 8 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.29 | 0 | 7 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.58 | 150 | 6 | 0 | 0 |
| 0.58 | 150 | 6 | 0 | 0 |
| 0.29 | 0 | 7 | 0 | 0 |
| 0.29 | 150 | 7 | 0 | 0 |
| 0.29 | 0 | 4 | 0 | 0 |
| 0.58 | 0 | 7 | 0 | 0 |
| 0.58 | 0 | 4 | 0 | 0 |
| 0.58 | 150 | 7 | 0 | 0 |
| 0.58 | 0 | 7 | 0 | 0 |
| 0.58 | 150 | 7 | 0 | 0 |
| 0.58 | 0 | 7 | 0 | 0 |
| 0.58 | 0 | 6.5 | 0 | 0 |
| 0.58 | 150 | 6 | 0 | 0 |
| 0.58 | 0 | 7 | 0 | 0 |
| 0.29 | 150 | 6 | 0 | 0 |
| 0.58 | 0 | 7 | 0 | 0 |
| 0.29 | 0 | 6 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.58 | 0 | 7 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |


| 0.58 | 150 | 6 | 0 | 0 |
| :---: | :---: | :---: | :---: | :---: |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.29 | 0 | 6 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.29 | 0 | 6 | 0 | 0 |
| 0.29 | 0 | 6.5 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.58 | 0 | 5.5 | 0 | 0 |
| 0.58 | 0 | 6.5 | 0 | 0 |
| 0.58 | 0 | 8 | 0 | 0 |
| 0.58 | 0 | 7 | 0 | 0 |
| 0.58 | 150 | 6 | 0 | 0 |
| 0.58 | 75 | 6 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.58 | 0 | 7 | 0 | 0 |
| 0.58 | 150 | 7 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.29 | 150 | 8 | 0 | 0 |
| 0.58 | 0 | 7 | 0 | 0 |
| 0.58 | 150 | 7 | 0 | 0 |
| 0.58 | 0 | 7 | 0 | 0 |
| 0.29 | 0 | 6 | 0 | 0 |
| 0.58 | 150 | 6.5 | 0 | 0 |
| 0.29 | 0 | 7 | 0 | 0 |
| 0.58 | 0 | 4 | 0 | 0 |
| 0.58 | 150 | 7 | 0 | 0 |
| 0.58 | 0 | 8 | 0 | 0 |
| 0.29 | 0 | 5.5 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |
| 0.193333333 | 0 | 6 | 0 | 0 |
| 0.193333333 | 0 | 6 | 0 | 0 |
| 0.58 | 0 | 6 | 0 | 0 |

## Event 23 Page 6

Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ Gender M=1F=2 Low Age High Age Representative Age Education Job Classification

| 1 | 1 | 65 |  | 66 GS | Retired |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | 65 |  | 66 GS | Retired |
| 1 | 1 | 65 |  | 66 GS | Retired |
| 1 | 2 | 46 | 55 | 50.5 A | Retired |
| 1 | 2 | 65 |  | 66 B | Music |
| 1 | 1 | 46 | 55 | 50.5 GS | Retired |
| 1 | 1 | 65 |  | 66 |  |
| 1 | 2 | 56 | 65 | 60.5 A | Retired |
| 1 | 2 | 65 |  | 66 B | Retired |
| 1 | 2 | 26 | 35 | 30.5 B | Not Employed |
| 1 | 1.5 | 46 | 55 | 50.5 A | Student |
| 1 | 2 | 65 |  | 66 B | Retired |
| 1 | 2 | 65 |  | 66 B | Retired RN |
| 1 | 2 | 65 |  | 66 B | Retired |
| 1 | 2 | 36 | 45 | 40.5 GS | Web Developer |
| 1 | 2 | 56 | 65 | 60.5 B | Retired |
| 1 | 2 | 56 | 65 | 60.5 B | RN |
| 1 | 2 | 56 | 65 | 60.5 B | Not Employed |
| 1 | 1 | 65 |  | 66 GS | Retired |
| 1 | 2 | 65 |  | 66 B | Retired |
| 1 | 2 | 65 |  | 66 MBA | Retired |
| 1 | 2 | 65 |  | 66 GS | Retired |
| 1 | 2 | 46 | 55 | 50.5 B | Student/Real Estate |
| 1 | 2 | 56 | 65 | 60.5 GS | CPA |
| 1 | 2 | 56 | 65 | 60.5 B | General Manager |
| 1 | 1 | 65 |  | 65 B | Retired |
| 1 | 1 | 56 | 65 | 60.5 GS | Retired |
| 1 | 2 | 56 | 65 | 60.5 B | Retired |
| 1 | 2 | 65 |  | 66 Postgrad | Retired |


| 1 | 2 | 36 | 45 | 40.5 GS | Retired |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 26 | 35 | 30.5 GS | Hydrologist |
| 1 | 2 | 36 | 45 | 40.5 HS | GM Farmer/Rancher |
| 1 | 2 | 26 | 35 | 30.5 GS | Speech Language Pathologist |
| 1 | 2 | 46 | 55 | 50.5 HS | Homemaker |
| 1 | 1 | 65 |  | 66 B | Retired |
| 1 | 2 | 56 | 65 | 60.5 HS | Other |
| 1 | 2 | 46 | 55 | 50.5 GS | Purchasing Officer |
| 1 | 2 | 65 |  | 66 B | Retired |
| 1 | 2 | 65 |  | 66 A | Retired |
| 1 | 2 | 46 | 55 | 50.5 GS | Baker/Beekeeper |
| 1 | 1 | 26 | 35 | 30.5 Some College | Retail |
| 1 | 1 | 46 | 55 | 50.5 B | Remodeler |
| 1 | 2 | 65 |  | 66 GS | Not Employed |
| 1 | 2 | 18 | 25 | 21.5 HS | Not Employed |
| 1 | 1 | 65 |  | 66 MD | Retired Psychiatrist |
| 1 | 1 | 65 |  | 66 GS | Retired |
| 1 | 2 | 65 |  | 66 GS | Retired |
| 1 | 2 | 65 |  | 66 HS | Retired |
| 1 | 2 | 65 |  | 66 GS | Research RN |
| 1 | 2 | 65 |  | 66 GS | Retired |
| 1 | 2 | 65 |  | 66 B | Retired Accountant |
| 1 | 2 | 46 | 55 | 50.5 GS | Business Owner |
| 1 | 2 | 65 |  | 80 B | Retired |
| 1 | 2 | 56 | 65 | 60.5 GS | Retired |
| 1 | 2 | 65 |  | 66 GS | Retired |
| 1 | 2 | 65 |  | 66 HS | Retired |
| 1 | 2 | 65 |  | 66 B | Retired |
| 1 | 2 | 65 |  | 66 A | Retired |
| 1 | 1 | 65 |  | 66 GS | Retired |
| 1 | 2 | 65 |  | 66 B | Retired |
| 1 | 2 | 65 |  | 66 GS | Retired |


| Event 23 Page 7 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Average Annual Income | Hourly Income Average | Region Used | Ecosystem Profile (Oklahoma Dept of Commerce) |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 41683.2 | 20.04 | Central | Arts, Design, Entertainment, Sports, and Media Occupation |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 79456 | 38.2 | Central | Aerospace and Defense Software Developers, Applications |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 60528 | 29.1 | Central | Regisered Nurses |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 21736 | 10.45 | Central | Retail Salespersons |  |
| 59321.6 | 28.52 | Central | Accountants |  |
| 77147.2 | 37.09 | Central | Genergal Manager Operations |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |
| 54429 | 26.16778846 | Central | Average Income for Central OK |  |


| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| :---: | :---: | :---: | :---: |
| 58489.6 | 28.12 Central | Life, Physical, and Social Science Occupations |  |
| 26790.4 | 12.88 Central | Farmers Ranchers and Other Agricultural Managers |  |
| 61068.8 | 29.36 Central | Speech Language Pathologists |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 77147.2 | 37.09 Central | General Managers Operations |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 23025.6 | 11.07 Central | Farmworkers and Laborers, Crop, Nursery, and Greenhouse |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 33404.8 | 16.06 Central | Construction Carpenter |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 60528 | 29.1 Central | Registered Nurses |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 35700 | 17.16346154 Central | Average Income for Central OK |  |
| 58676.8 | 28.21 Central | Business and Financial Operations Occupations |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 55993 | 26.91971154 data.usa | Average Income for Hardin Co, TX |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |
| 54429 | 26.16778846 Central | Average Income for Central OK |  |

Event 23 Page 8
Actual Travel Cost Time At Event Cost TC+Time Spent


| 179.3238942 | 157.0067308 | 336.330625 | 188.3251923 | 157.0067308 | 345.3319231 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 17.44666667 | 168.72 | 186.1666667 | 52.34 | 168.72 | 221.06 |
| 15.17778064 | 77.28 | 92.45778064 | 37.94444473 | 77.28 | 115.2244447 |
| 42.04889541 | 176.16 | 218.2088954 | 100.9173333 | 176.16 | 277.0773333 |
| 10.16129808 | 157.0067308 | 167.1680288 | 20.32259615 | 157.0067308 | 177.3293269 |
| 7.841298077 | 170.090625 | 177.9319231 | 23.52389423 | 170.090625 | 193.6145192 |
| 17.4144826 | 157.0067308 | 174.4212134 | 17.4144826 | 157.0067308 | 174.4212134 |
| 27.95398 | 203.995 | 231.94898 | 77.308096 | 203.995 | 281.303096 |
| 36.26888828 | 170.090625 | 206.3595133 | 36.26888828 | 170.090625 | 206.3595133 |
| 18.5744826 | 209.3423077 | 227.9167903 | 18.5744826 | 209.3423077 | 227.9167903 |
| 28.59500246 | 77.49 | 106.0850025 | 62.9090246 | 77.49 | 140.3990246 |
| 164.5075902 | 157.0067308 | 321.514321 | 179.009249 | 157.0067308 | 336.0159798 |
| 90.16532 | 96.36 | 186.52532 | 90.16532 | 96.36 | 186.52532 |
| 26.12259615 | 157.0067308 | 183.1293269 | 39.18389423 | 157.0067308 | 196.190625 |
| 31.92259615 | 183.1745192 | 215.0971154 | 82.68389423 | 183.1745192 | 265.8584135 |
| 163.929249 | 183.1745192 | 347.1037683 | 163.929249 | 183.1745192 | 347.1037683 |
| 23.2144826 | 157.0067308 | 180.2212134 | 23.2144826 | 157.0067308 | 180.2212134 |
| 161.9088359 | 209.3423077 | 371.2511436 | 161.9088359 | 209.3423077 | 371.2511436 |
| 31.92259615 | 183.1745192 | 215.0971154 | 63.84519231 | 183.1745192 | 247.0197115 |
| 175.4833398 | 203.7 | 379.1833398 | 175.4833398 | 203.7 | 379.1833398 |
| 23.2144826 | 183.1745192 | 206.3890018 | 23.2144826 | 183.1745192 | 206.3890018 |
| 12.89551663 | 102.9807692 | 115.8762859 | 237.2011538 | 102.9807692 | 340.1819231 |
| 176.8033333 | 183.365 | 360.1683333 | 194.6659533 | 183.365 | 378.0309533 |
| 17.70883594 | 183.1745192 | 200.8833552 | 17.70883594 | 183.1745192 | 200.8833552 |
| 29.00924904 | 104.6711538 | 133.6804029 | 72.53707875 | 104.6711538 | 177.2082326 |
| 173.2144826 | 183.1745192 | 356.3890018 | 219.6451923 | 183.1745192 | 402.8197115 |
| 741.5182692 | 215.3576923 | 956.8759615 | 741.5182692 | 215.3576923 | 956.8759615 |
| 15.10259615 | 143.9228365 | 159.0254327 | 62.69741529 | 143.9228365 | 206.6202518 |
| 14.5075902 | 157.0067308 | 171.514321 | 65.28389423 | 157.0067308 | 222.290625 |
| 10.16129808 | 157.0067308 | 167.1680288 | 10.16129808 | 157.0067308 | 167.1680288 |
| 9.001298077 | 157.0067308 | 166.0080288 | 9.001298077 | 157.0067308 | 166.0080288 |
| 31.92259615 | 157.0067308 | 188.9293269 | 63.84519231 | 157.0067308 | 220.8519231 |


| Event 23 Page 9 |  |
| :---: | :---: |
| Number of Participants | 61 |
| Actual Travel Cost Per Participant | 68.06395976 |
| Total Travel Cost | 4151.901545 |
| Actual Travel + Time at Event Per Participant | 231.4690291 |
| Total Actual Travel + Time at Event | 14119.61078 |
| Willingness Travel Cost Per Participant | 91.05820478 |
| Total Willingness Travel Cost | 5554.550492 |
| Willingness Travel + Time at Event Per Participant | 254.4632741 |
| Total Willingness Travel + Time at Event | 15522.25972 |
| Total Organzier Costs | 0 |
| Total Actual Participant + Organizer Costs Value | 14119.61078 |
| Total Willing Participant + Organizer Costs Value | 15522.25972 |
| Response Rate | 100\% |


| Event 24 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | Rush Springs, Grady Co | 75 |
|  | Macomb, Pottawatamie Co | 46 |
|  | Edmond, Oklahoma Oklahoma Co | 30 |
|  | Owasso, OK Rogers Co | 122 |
|  | Claremore, Rogers Co | 160 |
|  | Yukon, Canadian Co | 20 |
|  | Ada, Pontotoc Co | 60 |
| 8 | Asher, OK Pottawatamie | 60 |
|  | Norman, OK Cleveland Co | 36 |
| 10 | Norman, OK Cleveland Co | 36 |
| 11 | Norman, OK Cleveland Co | 36 |
| 12 | Tulsa, OK, Tulsa Co | 110 |
| 13 | Tonkawa, Kay Co | 92 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Number of Participants | 13 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 281.3461823 |  |
| Total Travel Cost | 3657.50037 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 480.190916 |  |
| Total Actual Travel + Time at Event | 6242.481908 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 344.2792817 |  |
| Total Willingness Travel Cost | 4475.630662 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 543.1240154 |  |
| Total Willingness Travel + Time at Event | 7060.612201 |  |
|  |  |  |
| Total Organzier Costs | 836.45 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 7078.931908 |  |
| Total Willing Participant + Organizer Costs Value | 7897.062201 |  |
|  |  |  |
| Response Rate | 28\% |  |
|  |  |  |
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| Organizer Data |  |  |
| Organizers | Expenditures | Planning Time (hrs) |
| Organizer 1 | 519.22 | 10 |
| Organizer 2 | 300 | 2 |
|  |  |  |
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| Averages |  |  |
|  |  |  |
| Total Travel + Preparation Time + Time Spent at Event + Expenditures | 836.45 |  |
|  |  |  |
| Total Participants Registration Fee | 6900 |  |


| Event 24 Page 2 |  |  |
| :---: | :---: | :---: |
| Round Trip Distance Travelled (mi) | Travel Time (hr) | Round Trip Travel Time (hr) |
| 150 | 1.25 | 2.5 |
| 92 | 0.76667 | 1.53334 |
| 60 | 0.75 | 1.5 |
| 244 | $\square$ | 4 |
| 320 | - 3 | 6 |
| 40 | 0.58333 | 1.16666 |
| 120 | $\square$ | 2 |
| 120 | - 1 | 2 |
| 72 | 1 | 2 |
| 72 | -1 | 2 |
| 72 | 0.7166 | 1.4332 |
| 220 | 1.5 | 3 |
| 184 | 2 | 4 |
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|  |  |  |
|  |  |  |
| Organizer Benefit/Organizer Cost | 8.249148186 |  |
|  |  |  |
| Actual Value/Organizer Cost | 7.463066422 |  |
|  |  |  |
| Willingness Value/Organizer Cost | 8.441164685 |  |
|  |  |  |
| Ratio of Actual / Willingness | 0.88412757 |  |
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| Travel Distance (mi) | Round Trip Distance (mi) | Travel Time (hr) |
| 39 | 78 | 0.75 |
| 39 | $347 \quad 78$ | 0.75 |
|  |  |  |


| Event 24 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Willingness to Travel (time, hr) |
| 100 | 200 | 1.66667 |
| 266 | 532 | 4.48333 |
| 50 | 100 | 1.25 |
| 183 | 366 | 3 |
| 160 | 320 | 3 |
| 54.15 | 108.3 | 1.333 |
| 180 | 360 | 3 |
| 120 | 240 | 2 |
| 108 | 216 | 3 |
| 108 | 216 | 3 |
| 136 | 272 | 2.71 |
| 210 | 420 | 3 |
| 92 | 184 | 2 |
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| Organizer Cost Per Participant | 64.34230769 |  |
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|  |  |  |
| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 1.5 | 1 | 1 |
| 1.5 | 1 | 1 |
|  |  |  |


| Event 24 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 3.33334 | 1 | 2 | 0.58 |
| 8.96666 | 1 | 2 | 0.58 |
| 2.5 | 0 | 1 | 0.58 |
| 6 | 2 | 3 | 0.58 |
| 6 | 2 | 3 | 0.58 |
| 2.666 | 0 | 1 | 0.58 |
| 6 | 1 | 2 | 0.58 |
| 4 | 1 | 2 | 0.58 |
| 6 | 2 | 3 | 0.58 |
| 6 | 2 | 3 | 0.58 |
| 5.42 | 2 | 3 | 0.58 |
| 6 | 0 | 1 | 0.58 |
| 4 | 0 | 1 | 0.58 |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 8 | 41 |
| 0.58 | 0.58 | 8 |  |
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| Event 24 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.29 | 200 | 8 | 0 | 0 |
| 0.29 | 200 | 8 | 0 | 0 |
| 0.58 | 200 | 8 | 0 | 0 |
| 0.193333333 | 200 | 8 | 0 | 0 |
| 0.193333333 | 200 | 8 | 0 | 0 |
| 0.58 | 200 | 8 | 0 | 0 |
| 0.29 | 200 | 8 | 0 | 0 |
| 0.29 | 200 | 8 | 0 | 0 |
| 0.193333333 | 200 | 8 | 0 | 0 |
| 0.193333333 | 200 | 8 | 0 | 0 |
| 0.193333333 | 200 | 8 | 0 | 0 |
| 0.58 | 200 | 8 | 0 | 100 |
| 0.58 | 200 | 8 | 0 | 115 |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 46 | 150 | 7.25 |  |  |
|  |  | 7.25 |  |  |
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Event 24 Page 6

| Work Related? $\mathrm{N}=1 \mathrm{Y}=\mathbf{2}$ | Gender M=1 F=2 | Low Age | High Age | Representative Age | Education | Job Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 1 | 56 | 65 | 60.5 | HS | Construction Safety \& Risk Management |
| 2 | 1 | 46 | 55 | 50.5 | Other | Superindendent |
| 2 | 1 | 36 | 45 | 40.5 | B | Construction Manager |
| 2 | 1 | 46 | 55 | 50.5 | B | Environmental Scientist |
| 2 | 1 | 36 | 45 | 40.5 | B | Farmer/ Rancher |
| 2 | 1 | 36 | 45 | 40.5 | B | City Building Inspector |
| 2 | 1 | 36 | 45 | 40.5 | B | Environmental Scientist |
| 2 | 1 | 36 | 45 | 40.5 | B | EHS Specialist II |
| 2 | 1 | 26 | 35 | 30.5 | B | Environmental Scientist |
| 2 | 1 | 18 | 25 | 21.5 | GS | Student |
| 2 | 2 | 56 | 65 | 60.5 | B | Environmental Scientist |
| 2 | 1 | 18 | 25 | 21.5 | B | Civil Engineer |
| 2 | 2 | 26 | 35 | 30.5 | HS | Water Specialist |
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|  |  |  |  |  | Actual Travel Cost | Travel + Preparation + Event Time |
|  |  |  |  |  | 57.115 | 187.615 |
|  |  |  |  |  | 57.115 | 129.615 |
|  |  |  |  |  |  |  |

## Event 24 Page 7

| Average Annual In | Hourly lncome Averag | Region Used | e) |
| :---: | :---: | :---: | :---: |
| 79456 | 38.2 | Central | Construction General and Operations Managers |
| 45000 | 21.63461538 | East Central | Pottawatamie County Average Salary |
| 79456 | 38.2 | Central | Construction General and Operations Managers |
| 47000 | 22.59615385 | Tulsa Metro | Average Salary Rogers County |
| 20217.6 | 9.72 | Ports Region | Farmers, Laborers |
| 40705.6 | 19.57 | Central | Transportation \& Distribution: Inspectors |
| 43000 | 20.67307692 | Southern | Average Salary Pontotoc County |
| 44000 | 21.15384615 | East Central | Average Salary Pottawatomie County |
| 46904 | 22.55 | Central | Environmental Scientists |
| 42100 | 20.24038462 | Central | Cleveland County Average Salary |
| 46904 | 22.55 | Central | Environmental Scientists |
| 92352 | 44.4 | Tulsa Metro | Civil Engineers: Agriculture and Bioscience |
| 45000 | 21.63461538 | Northern | Kay County Average Salary |
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Event 24 Page 8

| Actual Travel Cost | Time At Event Cost | TC+Time Spent | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 275.3333333 | 305.6 | 580.9333333 | 300.4445293 | 305.6 | 606.0445293 |
| 237.7377404 | 173.0769231 | 410.8146635 | 418.9434135 | 173.0769231 | 592.0203365 |
| 253.9 | 305.6 | 559.5 | 289.8333333 | 305.6 | 595.4333333 |
| 277.3015385 | 180.7692308 | 458.0707692 | 315.9523077 | 180.7692308 | 496.7215385 |
| 281.3066667 | 77.76 | 359.0666667 | 281.3066667 | 77.76 | 359.0666667 |
| 230.8105121 | 156.56 | 387.3705121 | 280.2052067 | 156.56 | 436.7652067 |
| 248.5820513 | 165.3846154 | 413.9666667 | 345.7461538 | 165.3846154 | 511.1307692 |
| 248.9025641 | 169.2307692 | 418.1333333 | 297.8051282 | 169.2307692 | 467.0358974 |
| 228.9533333 | 180.4 | 409.3533333 | 286.86 | 180.4 | 467.26 |
| 227.4135897 | 161.9230769 | 389.3366667 | 282.2407692 | 161.9230769 | 444.1638462 |
| 224.6928867 | 180.4 | 405.0928867 | 293.327 | 180.4 | 473.727 |
| 472 | 355.2 | 827.2 | 632.4 | 355.2 | 987.6 |


| 450.5661538 | 173.0769231 | 623.6430769 | 450.5661538 | 173.0769231 | 623.6430769 |
| :---: | :---: | :---: | :---: | :---: | :---: |
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| Event 25 Page 1 |  |  |
| :---: | :---: | :---: |
| Participant | Residence | Distance Travelled (mi) |
|  | 1 Enid, Garfield County | 72 |
|  | 2 Norman, Cleveland County | 180 |
|  | 3 Oklahoma City, Oklahoma County | 110 |
|  | 4 El Reno, Canadian County | 128 |
|  |  |  |
| Averages |  |  |
|  |  |  |
| Number of Participants | 4 |  |
|  |  |  |
| Actual Travel Cost Per Participant | 198.7649679 |  |
| Total Travel Cost | 795.0598718 |  |
|  |  |  |
| Actual Travel + Time at Event Per Participant | 367.8915064 |  |
| Total Actual Travel + Time at Event | 1471.566026 |  |
|  |  |  |
| Willingness Travel Cost Per Participant | 198.7649679 |  |
| Total Willingness Travel Cost | 795.0598718 |  |
|  |  |  |
| Willingness Travel + Time at Event Per Participant | 367.8915064 |  |
| Total Willingness Travel + Time at Event | 1471.566026 |  |
|  |  |  |
| Total Organzier Costs | 3101.19715 |  |
|  |  |  |
| Total Actual Participant + Organizer Costs Value | 4572.763176 |  |
| Total Willing Participant + Organizer Costs Value | 4572.763176 |  |
|  |  |  |
| Response Rate |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Organizer Data |  |  |
| Organizers | Expenditures | Planning Time (hrs) |
| Organizer 1 | 900 | 232 |
| Organizer 2 |  |  |
|  |  |  |
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| Averages |  |  |
|  |  |  |
| Total Travel + Preparation Time + Time Spent at Event + Expenditures | 3101.19715 |  |
|  |  |  |
| Total Participants Registration Fee | 325 |  |


| Event 25 Page 3 |  |  |
| :---: | :---: | :---: |
| Willingness to Travel (dist, miles) | Willingness Round Trip Distance (mi) | Ilingness to Travel (time, hr) |
| 72 | 144 | 1 |
| 180 | 360 | 3 |
| 110 | 220 | 2.5 |
| 128 | 256 | 2.5 |
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| Organizer Cost Per Participant | 775.2992875 |  |
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| Round Trip Time (hr) | Total Travellers | Travel Expenditures |
| 5.3334 | 1 | 0 |
| 6 | 1 | 0 |
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| Event 25 Page 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Willingness Round Trip Travel Time (hr) | Additional Travellers | Total Travellers | Standard Cost Per Mile |
| 2 | 0 | 1 | 0.58 |
| 6 | 0 | 1 | 0.58 |
| 5 | 0 | 1 | 0.58 |
| 5 | 1 | 2 | 0.58 |
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| Standard Cost Per Mile | Weighted Cost Per Mile | Event Duration (hr) | Registrants |
| 0.58 | 0.58 | 1.5 | 13 |
| 0.58 | 0.58 | 1.5 |  |
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| Event 25 Page 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weighted Cost Per Mile | Registration Fee | Time at Event (hrs) | Time in Town (Outside Event Hrs) | Other Costs |
| 0.58 | 15 | 8 | 0 | 0 |
| 0.58 | 25 | 8 | 0 | 100 |
| 0.58 | 15 | 8 | 0 | 0 |
| 0.29 | 15 | 8 | 8 | 0 |
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| Attended | Registration Cost | Organizer Hourly Rate | Notes: |  |
| 11 | 25 | 7.25 |  |  |
|  |  | 7.25 |  |  |
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| Event 25 Page 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Work Related? $\mathrm{N}=1 \mathrm{Y}=2$ | Gender M=1 F=2 | Low Age | High Age | Representative Age | Education | Job Classification |
| 2 | 2 | 36 | 45 | 40.5 | B | Environmental Scientist |
| 2 | 1 | 36 | 45 | 40.5 | GS | University Professor |
| 1 | 2 | 18 | 25 | 21.5 |  | Geology Student |
| 1 | 1 | 46 | 55 | 50.5 | BS | Environmental Scientist |
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|  |  |  |  |  | Actual Travel Cost | Travel + Preparation+Event Time |
|  |  |  |  |  | 234.70715 | 1927.58215 |
|  |  |  |  |  | 262.74 | 273.615 |
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|  |  |  |  |  |  | 2201.19715 |
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## Event 25 Page 7

Average Annual Income Hourly Income Average Region Used Ecosystem Profile (Oklahoma Dept of Commerce)

| 44137.6 | 21.22 |  | Bureau of Labor Statistics Statewide mean for Env. Sci. |
| :---: | :---: | :---: | :---: |
| \$69,770 | \$33.54 | OK | Bureau of Labor Statistics Statewide mean for Postsecondary Env. Science Teachers |
| 15080 | 7.25 | Central | Minimum Wage (Student) |
| 46904 | 22.55 | Central | Environmental Scientists and Specialists |
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## Event 25 Page 8

| Actual Travel Cost | Time At Event Cost | TC+Time Spent | Willing Travel Cost | Time at Event Cost | WTC+Time Spent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 112.6666667 | 169.76 | 282.4266667 | 112.6666667 | 169.76 | 282.4266667 |
| 400.8865385 | 268.3461538 | 669.2326923 | 400.8865385 | 268.3461538 | 669.2326923 |
| 154.6833333 | 58 | 212.6833333 | 154.6833333 | 58 | 212.6833333 |
| 126.8233333 | 180.4 | 307.2233333 | 126.8233333 | 180.4 | 307.2233333 |
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[^0]:    Figure 2.1 Oklahoma Map of Event Locations
    Map of $n=25$ events across the state of Oklahoma that participated in the study. Larger circles represent larger attendance numbers.

