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Estimating the Net Economic Value of National Forest Recreation: An Application of the National Visitor Use Monitoring Database

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I. INTRODUCTION

The USDA Forest Service (FS) manages 193 million acres of public land in the United States. These public resources include vast quantities of natural resources including timber, wildlife, watersheds, air sheds, and ecosystems. The Forest Service was established in 1905, and the FS has been directed by Congress to manage the National Forests and Grasslands for the benefit of the American people. Initially, this guiding principle was to maximize the sustainable yield of timber products from forest lands. Beginning in the 1960's, the FS was directed to manage these lands for multiple uses and benefits, as well as for the sustained yield of renewable resources such as water, forage, wildlife, wood, and recreation.¹

In 1974 Congress passed the Forest and Rangeland Renewable Resources Act (RPA), and in 1976 passed the National Forest Management Act (NFMA). The RPA calls for planning at both the national and forest level. Two key documents produced at the national level are the RPA Assessment and the RPA Program. The Assessment describes the current state of forest and rangeland situation and trends likely to affect the resource situation over a 50 year planning horizon. Based upon the findings of the Assessment, a 50-year Program is recommended to the FS. The recommended Program is a strategic plan that establishes long-term resource management goals (McCollum et al., 1990).

By 1995, the RPA Program had been replaced by the Government Performance and Results Act (GPRA) Strategic Plan, which is on a 3-year cycle, and only looks 5 years into the future. The RPA Program is basically defunct, having been replaced by the GPRA Strategic Plan. The need for resource values stems from the need to have a common dollar-based metric with which to compare recreation related resources with more traditional resources such as

grazing and timber. Forest managers and others find these values beneficial in the planning process under both the RPA Program and the newer GPRA.²

The goal of this study is to provide research into the Net Economic Value (NEV) of FS lands in support of the work conducted by the FS Strategic Planning and Resource Assessment (SPRA) staff in their strategic planning efforts. Our primary focus is to assess the net economic value (NEV) of recreation on National Forests. More specifically, we measure net willingness to pay for access (WTPA) to recreation opportunities on the National Forests.

To address our main objective of measuring net willingness to pay for recreation access on National Forest lands, we approach the problem as follows. First, we develop a national aggregate (multi-site) level recreation demand model for visitors to all National Forests, this model, using on-site survey data and a revealed preference estimation method (travel cost) is designed to be sufficiently flexible to allow estimating demand nationally for fourteen different recreation activity aggregates. Based on the parameters of the demand model, we are able to estimate WTPA for each of the fourteen recreation activities, on per-visit and per-activity day levels. Next, we develop four regional models which allow estimation of WTPA for the same fourteen activities at the RPA macro-region level. Related to the development and estimation of these models, we explore and report the sensitivity of WTPA estimates to a number of empirical judgments that are necessary to implement our modeling approach. Finally, we address the efficacy of using the National Visitor Use Monitoring (NVUM) database as the foundation for developing our models and WTPA estimates.

This report is comprised of six sections and a number of appendices. There is also a CD supplement to this report available upon request from the authors containing EXCEL spreadsheets with Table 1-9. The organization of the report is as follows: Section II provides a

background discussion of previous valuation work for the FS and a brief review of the related literature; Section III describes the data used in the analysis; Section IV develops the models and methods used in estimation; Section V presents preliminary models and results; and Section VI provides some concluding remarks and areas for continuing research.

The appendices are arranged as follows: Appendix A contains technical information describing data preparation; the on-site sampling procedure and the resulting choice-based sample weights used in the empirical methods are discussed in Appendix B; Appendix C describes the model development process and presents some of the econometric issues considered during modeling. Appendices A-C are included as part of this Word document. Appendix D describes the data and provides descriptive statistics; Appendix E contains a full set of results for different recreation activities, spatial scales, and model specifications. Appendices D and E are in Microsoft Excel format and are available as electronic supplements to this document. Appendix F provides the SAS input files used to compile and generate the estimation data set, and is provided as electronic SAS files. Appendix G provides the LIMDEP files used in regression and value calculation, and is provided as electronic LIMDEP files. All tables listed in the text are provided in Appendices D and E, and are numbered as they appear in those appendices.

II. BACKGROUND

II.A. History of Forest Service Recreation Values

The passage of NMFA and RPA provided the impetus for significant research into the economic value of recreation and of nonmarket public resources held in trust by the FS. The valuation work done for the RPA Program has focused on providing values to planners and

forest managers, with little emphasis on generating comprehensive values for FS resources as a whole.

Previous RPA Program analyses provided recreation values using a variety of data sources and methods. Sorg and Loomis (1984) provided an early literature review of recreation values which was later updated by Walsh, Johnson and McKean (1988). Values published in 1990 by McCollum et al. provide an extensive series of values based upon FS region and primary activity using a subset of the 1985-1986 Public Area Recreation Visitor Survey (PARVS) data. They used a reverse-gravity zonal travel cost method to estimate net economic value or consumer surplus for forest recreation. A more recent set of values is provided by Rosenberger and Loomis (2001) using a meta-analysis benefit transfer technique.

The Rosenberger and Loomis (2001) recreation value estimates are based on a detailed meta-analysis of previously published recreation valuation studies. An in-depth literature review was used to construct a database where the characteristics and values of each study were coded into numeric variables. Reported values were derived from 163 separate studies containing 760 different recreation valuation estimates. This information was then used to generate tables containing average per person per activity day net economic values, as well as regression models that allowed for the estimation of average WTPA per person per activity day for 21 different activities. Their methodology provides a comprehensive statistical summary of the literature that can be used for benefit transfer and to investigate the effects of a variety of factors on recreation values. Limitations of the study for National Forest policy and planning include reliance on secondary data estimates of recreation value and inclusion of recreation resources not in the National Forest inventory meaning that the reported values are not strictly National Forest recreation values.

The recreation value estimates presented in this report are based on a unique recreation use dataset containing only observations from National Forest visitors across the U.S. based on a scientifically designed and implemented sampling frame. To date, recreation value estimates for the National Forest system as a whole and by RPA regions based on primary data collected solely at National Forests have not been available.

II.B. Recreation Demand Modeling Background

For many of the goods and services provided by National Forests, valuing the costs and benefits of utilization are relatively straightforward through the use of market information. However, valuing recreation related benefits poses difficulties because traditional markets comparable to those for extractible goods like timber do not exist.

In a utilitarian framework, the net economic value (NEV) of a good or service is derived from the relationship between an individual's demand function for the good or service and the equilibrium price and quantity consumed. The net economic value per unit is the difference between the individual's maximum willingness to pay (WTP) as defined by the individual's underlying demand for the good or service and the price actually paid. The NEV is also commonly called consumer surplus (CS). While an individual's demand is not observed, prices and quantities are readily observable for goods and services traded in private markets. These observed prices and quantities can be combined with standard econometric methods to derive estimates of NEV for typical individuals or for market aggregates. Since access to National Forests for recreation is not typically traded in private markets, NEV must be estimated using nonmarket valuation techniques.

Several methods have been developed to estimate NEV for recreation opportunities. These same methods are also commonly used to estimate the economic value associated with a

change in quality for a recreation resource. Stated preference (or attitude-based) methods involve directly asking individuals about their willingness to pay for a good or service or, in some cases, how their consumption of the good would be affected by a price or quality change. NEV is then estimated from the willingness to pay responses. Contingent valuation and contingent behavior methods are the most popular examples of stated preference methods.

Revealed preference methods for nonmarket valuation are based on actual behavior rather than stated intentions. Two of the most popular revealed preference methods used for valuing recreation opportunities are the hedonic method and travel cost method (Freeman 1999). The travel cost method (TCM) is by far the most commonly used revealed preference technique when valuing access to public lands for recreation activities. In its different variants (e.g., zonal and individual models) it has regularly been used since the 1960's to estimate the net economic value of recreation access (Clawson and Knetsch 1966; Freeman 1999; Loomis and Walsh, 1997).

In order to estimate demand and net economic value for recreation access on National Forests using the TCM, a crucial assumption is made that the cost of travel to the site (including associated fees) is a proxy, or shadow price, for recreation. Thus, the price-quantity relationship described by a demand model is captured as the relationship between travel cost and the number of visits to the site. Formally, the assumption is referred to as weak complementarity (Haab and McConnell 2002, p.15). The underlying insight is attributed to Harold Hotelling in a 1947 letter to the National Park Service, and later popularized by Clawson and Knetsch (1966).

The literature on recreation demand and TCM is expansive. The history of recreation demand begins with the first zonal travel cost methods (ZTCM) applied by Clawson and Knetsch (1966) which used aggregate data to estimate demand. These methods were later replaced, to a great extent, with individual travel cost methods (ITCM) using household or individual micro-

level data. The next major advancement in recreation demand came from Hanemann (1984) in describing the Random Utility Model (RUM) that better captures the site/trip choice discrete modeling process. RUM models are particularly well-suited for modeling recreation demand in areas offering numerous substitute sites. A comprehensive review of the development of recreation demand models and the current state of TCM can be found in Phaneuf and Smith (2004). Additional detail concerning recreation demand modeling and the TCM can be found in, Bockstael and McConnell (1983); Bockstael, Strand, and Hanemann (1987); Bockstael and Strand (1987); Kling (1992), Freeman (1999), Haab and McConnell (2002) and Loomis and Walsh (1997). A critique of the travel cost methods can be found in Randall (1994).

The research presented here uses the ITCM to value public recreation on National Forests and Grasslands. As noted by Phaneuf and Smith (2004), despite more than fifty years of research into valuing the benefits of recreation using travel cost demand models, serious issues in the theoretical and empirical application of these methods remain. We acknowledge and discuss our approach to these issues as they apply to the modeling and results reported herein. Nevertheless, as long as recreation opportunities are provided on publicly owned lands and are not traded strictly in private markets, travel cost recreation demand models will provide a viable alternative to estimate the net economic value of recreation because the relationship between travel costs and visits (travel distance is costly) has proven empirical support.

III. DATA

In 2000, the FS began a comprehensive effort to scientifically estimate recreation visitation levels on National Forest lands on a continuous basis. The National Visitor Use Monitoring Program (NVUM), in its first 4-year cycle, collected data from 120 National Forests and Grasslands (hereafter referred to as National Forests or NFs) using a stratified random

sampling procedure (English et al. 2002). In addition to providing a scientific basis from which to estimate visitation to the NF system and to individual NFs, an on-site survey was administered to obtain visitor information on the number of annual visits, primary activity, local area expenditures, satisfaction with facilities, and limited demographic information.^{3,4} The preliminary or master dataset for the first cycle of on-site surveying (2000-2003 inclusive) contains 90,542 individual recreation visitor observations from 7,532 different sites aggregated from 120 National Forests and includes more than 200 variables per observation (English et al., 2002).⁵

For both theoretical and empirical reasons, a number of adjustments were performed on the preliminary dataset. Table 3 provides a detailed accounting of the adjustments made to yield the final sample used for travel cost model estimation. The data set was transformed as follows. Observations from Alaska were deleted from the master sample because the nature of recreation on the Alaska National Forests is significantly different from recreation on National Forests in the contiguous U.S. Alaska visitation is characterized by large numbers of tour groups including cruise liners and buses, as well as large numbers of locals who take numerous daily visits to the National Forests, particularly the Tongass. In addition, the physical characteristics of the National Forests in Alaska are dissimilar from other National Forests and the majority of nonresidents are not typically visiting the state solely to visit either of the two National Forests. Likewise, observations from Puerto Rico were deleted from the master sample due to the significantly dissimilar patterns of recreation relative to the rest of the NFs.

Visitors for whom the NF was not the primary purpose of their trip to the area (PRIME=0) were also deleted from the master sample. This action was necessitated because travel cost modeling assumes that all visits to a given recreation site are for the primary purpose

of visiting that site. Incidental visits are not included in the estimation sample because adequate methods have not been developed to apportion the costs of the total trip to the incidental (non-primary purpose) visit. Foreign observations were also deleted from the master sample because of the high likelihood of being on a multi-purpose trip and also because of the intractability of accurately measuring travel costs.

Observations with missing values for the following relevant variables were also deleted from the master sample: annual number of visits to a National Forest (NFV12MO), distance traveled (PRACTD1S), gender (GENDER1) and whether or not the visit involved an overnight stay on the National Forest (ONITE). With respect to suspected outliers, observations were deleted from the master sample if annual visits were greater than 52 and distance traveled was greater than 720 miles as this translates into visiting at least once per week and traveling more than 12 hours each way.⁶ Finally, observations where the number of people traveling in the vehicle was reported as more than 10 were deleted from the master sample.

After deleting observations from the master sample as described above, an adjusted sample consisting of 68,669 observations remained, this is referred to as the ‘ALL’ sample. Additionally, during estimation an additional dataset was created where the largest 5% of distances were trimmed from the adjusted sample, leaving 64,894 observations. This data is referred to as the ‘trimmed’ or ‘TOP5’ dataset. For key variables including age (AGE), people traveling in the vehicle (PEOPVEH), and income (INCES), missing values were replaced with the weighted sample mean for the variable.⁷ The mean used to replace missing observations is based upon the adjusted samples.

The NVUM survey did not collect any income or substitute site information from respondents. Economic theory suggests that income and substitute prices should be included in

travel cost demand models. To provide a proxy for income, U.S. Internal Revenue Service (IRS) data on adjusted gross income, tax returns, and Zip Code for Tax Year 2002 were used. Thus, income (INCES) is represented by the average after tax income as reported by the IRS for the Zip Code in which the individual resides. A substitute distance/price variable was constructed using the Geographic Names Information Service (GNIS) latitude-longitude for each National Forest in the NVUM sample. This information was used to construct a substitute distance (SUBDISTZ) variable that provides a one way distance from the individual's home Zip Code to the next nearest NF not visited. The substitute variable construction assumed that for each NF visitor, the relevant substitute site would be the nearest NF to the visitors origin exclusive of the NF visited on the current trip.⁸

Table 4 displays descriptive statistics for the untrimmed adjusted dataset (ALL) and Table 5 provides the descriptive statistics for the trimmed adjusted dataset (TOP5). As reported in Table 4 (ALL, National Sample), the weighted average number of annual visits per individual to a National Forest was 3.708 with a standard deviation of 10.272.⁹ The average weighted one-way travel distance per individual visitor in our sample was 486.441 miles. Using a conversion factor of \$0.12 per mile, the average travel cost (including necessary fees) with no opportunity cost for travel time included was \$120.37 with a standard deviation of \$169.58; the average travel cost with an income based opportunity cost included was \$214.09; and the mean travel cost with a fixed wage rate opportunity cost included was \$211.85. The travel cost constructions are discussed in more detail in Section IV.¹⁰ The average after tax per person income in the sample was \$29,100 per year. The average number of people per vehicle was 2.724. Females comprised 33.1% of our sample, and the average age for respondents was 43.44 years.¹¹ The most frequently listed primary activity per individual respondent was hiking (15.0%), followed

by skiing (14.6%), camping (8.5%), fishing (7.4%), and hunting (6.6%). Further information about the dataset used in this study and adjustments thereto is detailed in Appendix A (Data Documentation) and Appendix D (Descriptive Statistics).

IV. MODELING

To estimate the net economic value of recreation access to National Forests with NVUM data, many theoretical and empirical issues must be addressed. This section describes our modeling efforts. It is divided into two subsections, one describing the economic theory on which our models are based, and the other detailing issues and consequent judgments used to develop our empirical models.

IV.A. Theoretical Considerations

The primary focus of this study is to estimate the net economic value (NEV) of recreation on National Forest lands. In this study, NEV is measured in terms of willingness-to-pay for access (WTPA) to National Forests for recreation. As Haab and McConnell (2002, p.158) point out, there are two types of welfare or value measures associated with valuing recreation – the value of access to the site and the value of a change in quality at the site. We are concerned primarily with the value of access to the National Forest site rather than the value associated with quality changes. WTPA is interpreted as a visitor's willingness-to-pay above current expenditures to participate in recreation at a National Forest site rather than not recreate at that site. Hence, WTPA is a visitor's maximum net willingness-to-pay (consumer surplus or CS) associated with continued use of the site for recreation (Haab and McConnell 2002).

The process of estimating WTPA involves estimating the parameters of an individual or household demand function and then calculating the welfare measure (termed NEV, WTPA, or CS) given the estimated parameters (Haab and McConnell 2002, p.159). This process

necessitates the use of demand theory, which in turn is underpinned by utility theory. The essential result of utility theory is the link between the unobservable utility function of the individual and observable prices and quantities. The constructs provided by utility theory allow economists to model what motivates the consumer, and retrieve demand estimates that are guided by behavioral characteristics of the consumer.

An ideal recreation demand model would be rigorously derived from the underlying utility theory and implemented in a manner consistent with that theory. However, when modeling recreation behavior, the recreation commodity or service being valued can be ambiguously defined and subject to different constructions and interpretations. The cost of recreation is not observable in the market, indeed the cost of recreation is only truly known to the individual engaged in the visit. Therefore, the number of recreation visits (the quantity consumed) is not related to external, objectively observable prices, and thus must be constructed by the analyst (Randall, 1994).

Thus, in modeling demand for National Forest visits, we begin with the utility framework represented by the household production approach (Deaton and Muellbauer, 1980; Bockstael and McConnell 1983) as described by Freeman (1999, p.445-447). Utility is a function of market goods, X , the number of visits to the site, R , environmental quality of the site, Q , subject to the dual constraints of money, M and time, T^* . The price of time is valued at P_w , with T_w representing the quantity of time worked, which is equal to the amount of the numeraire good purchased (where X is valued at a price of \$1 per unit) plus the product of recreation visits to the site, R , and the monetary cost per visit, C . Total discretionary time is given by summing the amount of time spent recreating on-site t_1 , and round-trip travel time t_2 times the number of

visits made plus the amount of time spent working T_w . Thus, the utility maximization process for the household can be represented by,

Max

$$\begin{aligned}
 & U(X, R, Q) \\
 & s.t. \\
 & M + P_w * T_w = X + C \cdot R \\
 & \text{and} \\
 & T^* = T_w + (t_1 + t_2) * R
 \end{aligned} \tag{1}$$

From this utility maximization problem we can detail the relevant characteristics of recreation consumption. For the household, utility is derived from consuming market goods, recreation, and environmental quality. Environmental quality is assumed to be complementary to recreation, so that increases in environmental quality increase recreation that then increases utility. As shown by the constraints, it takes time to recreate and recreation is traded for time spent working for wages that can be used in the consumption of X ; thus, there is an opportunity cost of time associated with recreation. Other critical assumptions of this model include: each visit to the site is for the sole purpose of recreating at the site so that non-primary purpose visits are not included in the model; each visit entails the same amount of time spent on-site; travel time is considered utility neutral; and the wage rate is the appropriate opportunity cost of time (Freeman 1999, p.445-447).¹² The utility maximization problem above can be solved for the general recreation demand function:

$$R = (P_R, P_S, M, T, H, Q) \tag{2}$$

where, R is the number of visits demanded, P_R is the per visit recreation price, P_S is the price of substitutes, M is annual income, T is a measure of time on-site, H is a vector of individual specific socio-demographic measures, and Q is a measure of site quality¹³ In the current study,

we do not address quality changes because of lack of adequate data and therefore drop this vector from the general recreation demand function.

When estimating a recreation demand model, it is critical to base the model in utility theory, since theory is what guides the interpretation of the results and provides economic meaning to the statistical results. Much of the debate in the TCM literature is centered on the assumptions embodied by this type of utility function/demand model and the restrictions it places on estimating and interpreting results. A significant portion of recent research discusses how applications of this theory often violate many of the underlying theoretical constructs, and thus make strict interpretations of the models problematic. This theme is re-iterated strongly by Phaneuf and Smith (2004).¹⁴

Our empirical models are based on pooling the available NVUM observations across sites and across all four years of sampling to form a single data set that can be segmented into regions, and activity groupings. By pooling observations across sites (within and among NFs) and estimating them as a single equation model with dummy variables and dummy interaction terms, we are basically following a varying parameters approach (Vaughan and Russell 1982; Bowker and Leeworthy 1998). The data were collected from more than 7,500 different sites measuring visits to more than 120 National Forests. We could estimate TCM models for each forest separately; however, this would produce a smaller number of observations per equation and limit our ability to estimate values for activities. Moreover, separate models by forest and activity would require estimation of 1,680 equations (120 forests \times 14 activity aggregates), yielding a cumbersome strategic planning tool. Because the primary purpose of this study is to generate values for recreation to all the National Forests corresponding to RPA regions and activities, the

multi-site pooled model is more tractable and practical for application to policy and management.

IV.B. Empirical Considerations

To apply the general theoretical framework described above, several empirical modeling issues must be addressed. These issues can be classified under two general headings. The first pertains to the type of estimator best suited for the NVUM sampling scheme, while the second pertains to variable selection and construction. Regarding the latter, we discuss the logic behind our variable selection and construction in the Application section below. Regarding the former, the type of estimator selected must be capable of mitigating the effects of four potential problems: (1) choice based sampling frame and sample weights; (2) over-dispersed non-negative count data; (3) high frequency visitors and endogenous stratification; and (4) spatial scale and aggregation. We detail our approach in addressing each of these issues below. Appendix C contains additional discussions concerning the modeling issues related to the NVUM data.

IV.B.1. Choice Based Sampling Frame and Sample Weights

The primary goal of NVUM is to accurately estimate visitation to all National Forests. This goal was achieved with a stratified on-site sampling methodology developed by English et al. 2002. The objective of the stratification was to achieve minimum variance in the estimate of visits up to the National Forest level. The sampling used a two stage method. The first sampling stage selected a stratified random sample of times and locations where recreation visitors can be counted as they exited the sites, creating a set of potential sites and times at which to survey. The survey sites were then classified by site type and use level. The site types were: day use developed sites (DUDS), overnight use developed sites (OUDS), wilderness sites (WILDERNESS), and general forest areas (GFA). The exit volume use-level strata were: low,

medium, and high. Finding all the combinations of site-types and use levels then forms the total number of sampling strata. From within these strata and from across the forests to be sampled, random draws were selected from the available sampling days. For each sampling time and location, traffic counts were conducted concurrently with interviews of visitors to calibrate traffic counts to the number of unique visits. Thus, site visit estimates were obtained for each sample day, averaged by strata, and then expanded according to classical random sampling methodology (Cochran 1977).¹⁵ Appendix B contains a further discussion of the NVUM weighting. English et al. (2002) provide detailed documentation concerning the NVUM sampling methodology.

The NVUM visit expansion weights (NVEXPAND) were developed in order to describe the characteristics of the estimate of total number of annual visits to the National Forest. These weights can be used to expand each sampled observation up to the number of visits it represents in a given stratum. Specifically, in NVUM the unit of measure is a National Forest visit, which is defined as, “one person entering and exiting a National Forest or National Grassland for recreation” (English et al. 2002). The weight, which is calculated for every individual interviewed, $i = 1 \dots N$, is then defined as:

$$\text{NVEXPAND}_i = \left(\frac{(\text{existing traffic}) \times (\text{proportion last exiting})}{\frac{\times (\text{persons in } j^{\text{th}} \text{ vehicle})}{(\text{number of sites visited}_i)}} \right) \cdot N \quad [3]$$

Where:

- (Exiting traffic) is the average exiting traffic count per day for the stratum;
- (Proportion last exiting) is the ratio of last exiting vehicles to total count of vehicles;
- (Persons in j^{th} vehicle) is defined as the average people per vehicle for recreating vehicles sampled in the stratum;

- (N) is defined as the number of site days in the stratum; and
- ($\text{Number of sites visited}_i$) is the total number of sites visited by the individual during the current NF visit.

This weight essentially replicates each observation up to the number of visits to the specific National Forest that it represents based upon the total proportion of last exiting vehicles.

The strata weights were designed to estimate visits with minimum variance. Applying these weights to other variables and in a recreation demand context may distort the distribution of data rather than create a representative sample.¹⁶ Appendix B contains a numerical example of these choice based sample weights and some additional discussion concerning their use.

IV.B.2. On-site Count Data

Modeling on-site count data poses several challenges. As described by Shaw (1988, p. 211-212) on-site data are characterized by the following:

1. Non-negative integers: the number of visits taken to the site by the individual during a given time period is a count of non-negative integer values;
2. Truncation: only those individuals who participate in recreation and who have taken at least one visit are sampled, thus the sample is truncated at zero and contains only positive observations;
3. Endogenous Stratification: the probability of being included in the sample increases as the number of visits taken by the individual increases.

A key result of Shaw (1988) was defining endogenous stratification, or avidity bias, as being proportional to the number of visits taken. If the density function for the i^{th} person in the population is $f(y_i^* | X_i)$, given $y_i = y_i^*$ if $y_i^* > 0$, then the probability of being included in the sample for the i^{th} observation, given $y = t$ and $X = X^0$, is

$$\frac{yF(y)}{\sum_{y=t} f(y=t | x_i)} \quad [4]$$

Using this information Shaw (1988, p. 215-216, Equations 6, 9, 10-12) derives a Truncated Stratified Poisson (TSP) estimator that accounts for the non-negative count data and the avidity bias related to visit frequency. The model is given by

Let $y_i^* = X_i\beta + u_i$
 Where $i = 1, \dots, N$
 and
 $y_i = y_i^*$ for
 $y_i^* > 0$ [5]

Then the probability density function is given by

$$h(y | X_i) = \frac{\exp(-\lambda_i)\lambda_i^{y_i-1}}{(y_i-1)!}$$

With expected value $E(y_i | X_i) = \lambda_i + 1 = \exp(X_i\beta) + 1$
 and variance $(y_i | X_i) = \lambda_i$

The avidity bias correction shown in Equation [4] can be applied to any family of discrete distributions.¹⁷ The model in Equation [5] is based on a Poisson process, where the mean and variance are restricted to equality. Applications of the TSP can be found in the literature, including Ovaskainen et al. (2001). However, the TSP (or Poisson estimators in general) can yield inconsistent and inefficient parameter estimates if the mean and variance are not equal (Englin and Shonkwiler 1995; Cameron and Trivedi 1998; Greene 2000).

Recreation visit data often displays significant dispersion around the mean, i.e., the visits variable has a large variance, typically exceeding the mean. This could result from a segmented user population comprised of high frequency and low frequency visitors. This over-dispersion of visits can lead to unexplained heterogeneity and a form of heteroskedasticity in the demand model (Cameron and Trivedi 1998).

To accommodate this variance in the dependent variable, the Poisson assumption of equal mean and variance is relaxed and a parameter (α) is introduced that captures the unexplained heterogeneity. Different parameterizations of (α) can be used, but the most common is Cameron and Trivedi's NEGBINII (Cameron and Trivedi 1998, p.71, Equation 3.26). The variance function for visits can be parameterized as ($\mu + \alpha\mu^2$), and a probability density function

$$f(t | \mu, \alpha) = \frac{\Gamma(y + \alpha^{-1})}{\Gamma(y + 1)\Gamma(\alpha^{-1})} \left(\frac{\alpha^{-1}}{\alpha^{-1} + \mu} \right)^{\alpha^{-1}} \left(\frac{\mu}{\alpha^{-1} + \mu} \right)$$

where

$$\alpha \geq 0 \text{ and } y = 0, 1, 2, \dots N \quad [6]$$

and

Γ is the gamma function

The NEGBINII allows for over-dispersion and is frequently used outside economic applications (Gourieroux, Monfort, and Trognon 1984). Numerous variants that allow for complex modeling have been developed and appear as pre-programmed estimators in many econometric packages (Greene 2002), including truncated versions of Equation [6]. So, while this estimator improves upon the Poisson count data estimators popularized by Hellerstein (1991); and Hellerstein and Mendelsohn (1993), it does not contain an adjustment for the sampling process (endogenous stratification) as discussed above.

To overcome the inconsistency of the Poisson in the presence of over-dispersion while correcting for the non-negative integer nature of on-site data, Englin and Shonkwiler (1995) use Shaw's (1988) result presented in Equation [4] to derive a model that corrects for the non-negative integer nature of the data, the avidity bias from on-site sampling, and the tendency for recreation data to be over-dispersed. Using Shaw's (1988) results and Cameron and Trivedi's (1998) NEGBINII, they derive the following Truncated Stratified Negative Binomial (TSNB) estimator where,

$$f(t | \lambda, \alpha) = \frac{\Gamma(y + \frac{1}{\alpha})(\alpha)^y(\lambda)^y(1 + \alpha\lambda)^{-(y + \frac{1}{\alpha})}}{1 - (1 + \alpha\lambda)^{-\frac{1}{\alpha}} \Gamma(y + 1)\Gamma(\frac{1}{\alpha})} \quad [7]$$

The TSNB has not been incorporated as an estimator in any current econometric packages, and only a few applications of it can be found in the literature. Applications of the estimator can be found in Ovaskainen et al. (2001); Englin and Shonkwiler (1995); and Curtis (2002). For a discussion of some of the econometric issues related to count data models, readers are referred to: Cameron and Trivedi (1986); Shaw (1988); Cameron and Trivedi (1998); Gourieroux (2000); Englin and Shonkwiler (1995); Gourieroux, Monfort, and Trognon (1984); Grogger and Carson (1991); Ovaskainen et al. (2001); Ozuna and Gomez (1995); Waldman (2000); and Winklemann and Zimmerman (1995).

IV.B.3. Spatial Scale and Aggregation

The NVUM data were collected from more than 7,500 sites across 120 aggregated forest units. Each observation was collected from a single site. Individuals were asked to report the number of visits taken to the NF in which the site was located during the previous 12 months. Thus, the individual observations are aggregated up to the forest level and each forest then represents a ‘site’. There are 120 forest units, or ‘sites’, that occur within 8 Forest Service regions, omitting Puerto Rico and Alaska.¹⁸ Additionally, there are 29 different reported primary activities across all forests, which we aggregate into 14 activities because most individual forests typically have only a few observations for many of the activities. The nature of the data necessitates aggregation in order to avoid a proliferation of models and generating samples with too few observations. Table 1 provides a detailed description of the activities and the aggregated activities.

IV.B.4. High Frequency Visitors, Over-Dispersion, and Endogenous Stratification

The estimators developed by Shaw (1988) and Englin and Shonkwiler (1995) correct for the non-random sampling created by using on-site surveys, for the discrete nature of recreation demand data, and for the unobserved heterogeneity often observed in recreation data. The consensus in the TCM literature has been the need for an estimator that uses a count data generating process combined with an adjustment for the on-site nature of the data.

Shaw (1988) observed that the probability of being included in the sample is proportional to the number of visits taken, thus the TSP essentially weights the observation by the number of visits. By applying this insight to the NVUM choice based sampling scheme, we can generate the following weight that brings each NVUM observation up to its representative value and accounts for the endogenous stratification. Thus, the choice-based sample weight for NVUM can be defined as

$$NVY_i = \left(\frac{NVEXPAND_i}{NFV12MO1_i} \right)$$

where

$$\begin{aligned} NVEXPAND_i &= \text{expansion weight for } i \\ NFV12MO1_i &= \text{number of annual visits for } i \end{aligned} \quad [8]$$

Dividing NVEXPAND by NFV12MO1 adjusts the observation by the probability of being included in the sample, which is proportional to the number of visits taken. This provides a correction for the endogenous stratification, or avidity bias, found in choice based recreation samples. For example, if observation 1 has an NVEXPAND weight of 903.03 and annual visits

of 5, then $NVY_1 = 903.03/5 = 180.606$. If observation 2 has an NVEXPAND weight of 301.01 and visits 40 times, then $NVY_2 = 301.01/40 = 4.5752$.

The avidity bias is also related to the unobserved heterogeneity in the count of visits. High frequency visitors take numerous short visits during the year, and these visits typically involve lower costs as these individuals tend to live close to the site and incur lower visit costs. Combining these observations with recreationists who take a few planned visits where large recreation costs are incurred is problematic and leads to the observed over-dispersion in the visits variable. The differences in these individuals are not captured in the data, and thus while we can identify the source of the over-dispersion (high-frequency, local visitors); the selection mechanism by which high-frequency and low-frequency visitors are determined is still unobserved.¹⁹ Thus, the data contains unobserved heterogeneity in the dependent variable. To accommodate this over-dispersion, the choice based sampling frame, and the non-negative count nature of the data, we use a Truncated Negative Binomial (TNB) estimator weighted by NVY.

The form of the estimator we use is given by

$$prob(Y = y | Y > 0) = \frac{\left[\Gamma\left(\frac{y+1}{\alpha}\right) / \Gamma(y+1)\Gamma\left(\frac{1}{\alpha}\right) \right] (\alpha\lambda)^y (1+\alpha\lambda)^{-\left(\frac{y+1}{\alpha}\right)} [1 - F_{NB}(0)]^{-1}}{1}$$

with conditional mean

$$E(Y|X, Y>0) = \lambda [1 - F_{NB}(0)]^{-1} = \left(\frac{e^\lambda}{1 - e^{-\lambda}} \right) \quad [9]$$

where λ is parameterized as $e^{X'\beta}$

Equation[9] is weighted by NVY during the estimation procedure. The NVY weight adjusts the observation so that it is representative of the target population, thereby correcting for the avidity bias and the stratified random sampling frame. This TNB estimator accounts for the truncation and over-dispersion in the dependent variable. Thus, this estimator addresses the key data issues related to the NVUM sampling process.

IV.C. Empirical Estimation

We use the general demand function presented in Equation[2] and the estimator as described by Equation[9] to specify an empirical TCM demand model as follows:

$$\text{Visits}_r = R \left(\begin{array}{l} \text{ONE}, \text{TC}_{r,m}, \text{TC}_{r,m} \square \text{ACT}_{r,k}^i, \text{ACT}_{r,k}^i, \text{PEOPVEH}_r, \\ \text{HF}_r, \text{ONITE}_r, \text{INCES}_r, \text{GENDER1}_r, \text{AGE}_r \end{array} \right) \quad [10]$$

Where:

- $r = 0 \dots 4$ the National pooled model and each of the 4 RPA regions;
- $m = 1 \dots 3$ for the three travel cost variants;
- And $k = 1 \dots 14$ for the aggregated activities.

The dependent variable in Equation[10] is the number of annual recreation visits to a National Forest per individual/group; this corresponds to the (Y) in Equation[9]. Demand for visits is a function of: own price (TC_m), travel cost-activity interaction terms ($\text{TC}_m \square \text{ACT}_k^i$) for each of the 14 RPA activity groupings, primary activity indicator ACT_k^i , number of people in the vehicle (PEOPVEH), annual income (INCES), gender (GENDER1), age (AGE), and an indicator for staying overnight (ONITE). An additional term has been incorporated to capture the differences between high and low frequency users (HF), where HF=1 if number of annual visits was greater than 15, else zero. The activity variables and price interaction terms are included to

generate demand estimates for different activities and are designed to capture any differences in demand resulting from the different primary activity type. This structure allows us to estimate WTPA nationally and regionally by activity aggregates. Overall, we develop 30 models (3 travel cost constructions for the national model, and 3 travel cost constructions for each of the 4 RPA regions, by the ALL and TOP5 datasets). The regression results are presented in Tables 8 and 9. Below we expand on our travel cost constructions, including a discussion of the opportunity cost of time, and our treatment of substitutes.

The distance used in the travel cost variable (TC_m) was calculated using the respondent's Zip Code and the latitude and longitude for the *site* or *forest centroid* where they were surveyed.²⁰ The three travel cost variables were constructed as

$$\begin{aligned} TCH &= 2(.12 \cdot PRACTD1S) + RECFEES \\ TCWH &= 2(.12 \cdot PRACTD1S) + 2\left[.33\left(\frac{INCE}{2000}\right) \square PRACTIME\right] + RECFEES \\ TCFWH &= 2(.12 \cdot PRACTD1S) + 2[5.75 \square PRACTIME] + RECFEES \end{aligned} \quad [11]$$

Where PRACTD1S is the one-way distance described above, and RECFEES are the self-reported *on-site* recreation fees. A per mile cost of \$0.12 was used. This is the current (2004) value listed in AAA travel services and by the IRS for charity and personal vehicle use.²¹ It is important to include an estimate for the opportunity cost of recreation time in the demand model since the use of travel cost as a shadow price of recreation is predicated upon the assumption of weak complementarity between time on-site and visits to the site (Freeman 1999). Additionally, using the household production approach that incorporates a time budget into the constraint implies a trade off between hours spent earning income and hours spent in leisure, including recreation. This trade off implies that the opportunity cost of time is the income foregone during time spent recreating (Bockstael, Strand, and Hanemann 1987).

There is no general consensus in the literature about treatment of time cost. Standard practice is to assume individuals can freely trade labor and leisure at the margin and that the opportunity cost of time is a fraction of the hourly income earned by the individual. We use two different methods to incorporate an opportunity cost of time in the travel cost variable. One variant uses 1/3 of the ‘wage’ rate, where the individual wage rate was calculated as the annual income (INCE) proxy divided by 2,000 hours. The second variant used the federal minimum wage of \$5.25/hour as a proxy for the opportunity cost of time. Phaneuf and Smith (2004) note that many studies that have estimated an opportunity cost of time have found it to be roughly 1/3 the wage rate, which is often the standard estimate used in the TCM literature (the range is usually 0.25 to 0.50). Given that the total average private hourly wage rate in the U.S. for August 2004 was \$15.77, our use of \$5.25 is roughly 1/3 the average U.S. wage rate.²²

Bowker and Leeworthy (1998) found that approximately 85% of their sample indicated that wages were not given up for their recreational visit to the Florida Keys. Similarly, Leeworthy (personal communication 2005) noted that in an ongoing study of marine fishing in Southern California, 92% percent of respondents indicated that they could not trade work time for leisure time. The Bowker and Leeworthy (1998) result indicates that including the opportunity cost of time in a travel cost model when information regarding the labor-leisure trade is unavailable may over-estimate the cost of the visit. Given the different methods present in the literature, we present results with these three constructions of travel cost to provide a range of values that incorporate different assumptions about the opportunity cost of time. Other recent papers regarding the opportunity cost of time include: Alvarez-Farizo, Hanley, and Barberan (2001); Casey, Vukina, and Danielson (1995); Common, Bull, and Stoeckl (1999); and Larson (1993); Shaw and Feather (1999).

Related to the issue of valuing the opportunity cost of time is the issue of time spent on-site. The travel cost model assumes the length of time spent on-site for each visit and by each individual is equal and that the good being valued is a recreation unit defined for a fixed measure of time, i.e., a recreation visitor day, an 8-hour recreation day, or a 4-hour recreation day (McConnell 1992; Freeman 1999; Rosenberger and Loomis 2001). This is assumed in order to avoid the issue of endogenous on-site time. If time on-site is not fixed but chosen as the number of visits are chosen, then time on-site cannot be included as a covariate and must be jointly determined with the visit frequency choice. Different treatments have been used to model time on-site. Some models use the fixed length visit specification; and other models assume it to be exogenous and include it as a covariate; others analyze total time spent on-site instead of number of visits (Bell and Leeworthy 1990); and yet other models estimate it separately in a two-stage estimation procedure (McConnell 1992). Other papers examining this and related issues are Berman and Hong (1999); Fix, Loomis, and Eichhorn (2000); Kerkvliet and Nowell (1999); and Smith and Kopp (1980).

Among the observations in the NVUM raw data set, time on-site ranges from 0.020 hours to more than 1,584 hours per National Forest visit, with a mean of 27.9 hours spent on-site. Thus, assuming equal visit lengths across the sample is not supported by the data. There are several approaches to modeling time on-site using NVUM. The first approach is to use it as a covariate and assume it to be exogenous to the choice of visits, and a second approach is to assume it is endogenous and use a two-stage or FIML estimation method (McConnell 1992). A third approach would be to segment the data into equal-visit lengths and estimate separate models for each segment.²³ We assume time on-site is exogenous and include a proxy (ONITE=1 if the individual stayed overnight, else=0) for time spent on the National Forest. The

dummy variable ONITE differentiates the visitors into those who take day visits and those who stay longer.

As discussed above, demand for a good or service is theoretically considered to be a function of own price, prices of substitutes, income, and other variables related to tastes and preferences. In the case of recreation demand, defining substitutes is difficult because the choice of a substitute is known only to the individual and may include a different site within the same forest, a different forest, a non-forest area for the same activity, a different activity altogether, or the individual may choose not to participate at all if the ‘price’ of the current site/activity changed.²⁴ The analyst must therefore adopt a heuristic rule that captures some substitution behavior, albeit imperfectly. Excluding substitute prices from the demand equation is likely to cause the estimated demand to be more inelastic than the true demand relationship, and imply a higher willingness to pay for access; however, the effect of the collinearity between own-price and substitute prices is to reduce the precision of the estimated price coefficients which makes hypothesis testing more difficult (Haab and McConnell 2002, p. 173). Additional discussions regarding the effects of omitting substitute prices can be found in Kling (1989) and Rosenthal (1987). Caulkins, Bishop, and Bouwes (1986) provide examples of incorporating substitution effects into recreation demand models.

Because the main NVUM modules did not collect any information on substitute sites or substitute behavior, we developed a substitute price proxy based on the heuristic rule that the nearest National Forest to their Zip Code of origin that they did not visit would be the most likely alternative recreation destination. We attempted to estimate models based on this substitute price variable; however the own-price and substitute-price variable had a correlation factor greater than 0.95. Additionally, in the models where the substitute variable was included, it was not

significant at the 0.10 or better level and did not have the expected sign. Given that our only available substitute price and own-price are correlated at the 0.95 level we opted to omit substitute price and acknowledge the potential bias in the estimated coefficient in order to gain increased reliability in the estimated parameters.

IV.D. Net Economic Value Measures

Using the estimated models described by Equation[9] and Equation[10], we can estimate the per visit per individual and the per activity day per individual net economic (WTPA) value for National Forest recreation. We provide WTPA estimates for each of the 15 model specifications. In addition, we examine the effect on estimated WTPA of removing observations where the one-way travel distance was greater than 1,250 miles (the top 5% of PRACTD1S).

As discussed in detail previously, we seek to calculate the value of access to the site as the net willingness to pay to visit the site (WTPA). This is calculated as the area under the utility and income constant demand curve for the site, where the area under the demand curve provides an estimate of willingness to pay for access to the site (Haab and McConnell 2002, p. 159). In general terms we calculate

$$WTPA = \int_{C_i^0}^{C^*} f(P_R, M, T, H) dp \quad [12]$$

Where $C_i^0 = TC$, the cost of visiting the site, and C^* is the relevant choke price at which demand goes to zero (Haab and McConnell 2002, p. 159). Under an exponential distribution the relevant choke price is infinite. As given in Haab and McConnell (2002, p.167), for any finite travel cost, the seasonal or annual, WTPA can be defined as

$$WTPA = \int_{C^0}^{\infty} e^{\beta_0 + \beta_{TC} \cdot C} dC = \left[\frac{e^{\beta_0 + \beta_{TC} \cdot C}}{\beta_{TC}} \right]_{C=C^0}^{C \rightarrow \infty} = -\frac{\lambda}{\beta_{TC}} \quad [13]$$

For the per visit WTPA we divide the result of Equation[13] by λ , the predicted number of trips, which simplifies to

$$WTPA = -\frac{1}{\beta_{TC}} \quad [14]$$

Equation[14] is the essential per visit consumer surplus calculation under an exponential distribution. We calculate the following for each of the five spatial scales and ($k = 1 \dots 14$) activities. This results in the following calculation for each individual i ,

$$CS_k^i = \left(\frac{-1}{(TC + TC \square ACT)} \right) / PEOPVEH_i \quad [15]$$

After calculating the individual values we adjust the results to incorporate the sampling structure of NVUM. To do this we calculate the following weighted consumer surplus CS_k^w ,

$$CS_k^w = \left(\frac{\sum_{i=1}^N CS_k^i \square NVEXPAND_i}{\sum_{i=1}^{N+D} NVEXPAND_i} \right) \quad [16]$$

The term in the denominator is the sum of the expansion weights for the given region, including the non-primary purpose and foreign visitors (N+D). The numerator is the sum of the consumer surplus values times its expansion weight, and summed over the sample (for the region-activity combination, excluding non-primary and foreign visitors whose net economic value is conservatively assumed to be zero²⁵). This method allows us to derive the average WTPA per individual accounting for the stratified on-site sampling methodology of NVUM. Using the same methods as described in Equations [15] and [16] we adjust the WTPA values for the average days per visit for each activity. The activity days are based on the average time on-site for each activity and are counted in day integers

V. RESULTS

As discussed above, we used a weighted truncated negative binomial travel cost model to describe recreation demand to National Forests and to calculate the net economic value or WTPA associated with recreation access. Our demand models are estimated at the national level and for each of the four RPA regions and for each of fourteen primary activities, using three different travel cost constructions on the ALL and TOP5 datasets. The parameter estimates for the demand models are reported in Tables 8 and 9, respectively.²⁶ The total numbers of observations for each of these estimated models for the ALL dataset are: 68,669 for the National; 24,202 for Region 1 (Pacific); 31,209 for Region 2 (Rocky Mountain); 7,058 for Region 3 (Northern); and 6,187 observations for Region 4 (Southern). For the TOP5 dataset the total numbers of observations are: 64,894 for the National; 22,968 for Region 1 (Pacific); 28,860 for Region 2 (Rocky Mountain); 6,939 for Region 3 (Northern); and 6,126 observations for Region 4 (Southern). All the models reach stable convergence values, and the likelihood ratio indices, or pseudo r-squares, range from 0.126 to 0.158.

The number of predicted visits per individual is stable across the different travel cost constructions (no opportunity cost of time, 1/3 of the wage rate, and a minimum wage of \$5.25 opportunity cost of time value). The overall predicted mean visits for the ALL data vary between the national and regional samples; ranging from 1.9 per year for Region 1 (Pacific), to 3.7 per year for Region 3 (Northern), and 2.3 visits per year for the pooled National; for the TOP5 sample average predicted visits vary from 2.4 per year for Region 1 (Pacific) to 3.7 for Region 4 (Southern), and 2.7 for the national pooled sample. It should be noted that these average predicted trip values include both the high-frequency and low-frequency visitors.

In all of the models, the estimated coefficient on travel cost is negative and significant at the 0.01 or better significance level, with estimated coefficients ranging from -0.007 to -0.013 for

the ALL data, and -0.002 to -0.010 for the TOP5 data. In most of the models ONITE is negative, indicating that overnight visitors to National Forests are likely to make fewer visits annually. The number of persons traveling in the vehicle (PEOPVEH) is negative and significant at the 0.10 level in all but Region 4 (Southern) across all the travel cost variants and across both data sets, so that as the number of people traveling in the group increases the number of annual visits on average decreases.

Results for the constructed income proxy, (INCES) are mixed. Income is negative in the specifications with either no opportunity cost of time or a flat \$5.25 per hour, but positive where travel cost includes an income based opportunity cost of time specification. The income proxy is significant at the 0.10 level in 25 of the 30 models. If recreational access to the National Forest is a normal good then we would expect income to be positive, as increasing income corresponds to an increasing number of recreational visits. The positive sign on the income variable when using the 1/3 wage rate is consistent with the normal good assumption and supports the use of the income-based opportunity cost of time construction. However, it is possible that certain activities may have a negative income effect as increasing incomes may decrease the tendency to take recreational visits to the forest. It is important to remember, however, that NVUM did not collect information on income or the opportunity cost of time and it may be difficult to extrapolate our results to general findings on the opportunity cost of time in travel cost studies. Moreover, in numerous published travel cost studies, income is often found to be statistically insignificant.

Being female (GENDER1) is negative and significant at the 0.01 level for most of the models (except for Region 3, Northern) where it is insignificant across all travel cost specifications); this indicates that, with the exception of the Northern region, females typically

take fewer annual visits to the National Forests. Age (AGE) is positive and significant at the 0.10 or better level in 27 of the models indicating older people make more visits to the NFs. However, it should be reiterated that the age variable is for the respondent, and only those over 16 are interviewed.

The binary variable (HF) for high-frequency visitors (those who take more than 15 visits per year) is statistically significant at the 0.01 or better level and the estimated coefficient ranges from 2.789 to 3.174. Results suggest the HF binary variable helps to capture the unspecified heterogeneity present in the count of visits related to the two groups of users, and allows the models to converge more readily. When HF is removed from the models the (α) parameter becomes very large (some models had (α) values of more than 2,000), the models fail to converge, and the consumer surplus values are outside the range of range of values reported within the relevant body of literature, as the estimated coefficient is attenuated to near zero. In conjunction with the HF variable, the estimated coefficient on the over-dispersion parameter (α) for the truncated negative binomial model is significant at the .01 level or better in all 30 of the models and ranges from 1.210 to 2.409 for the ALL data, and 1.126 to 1.823 for the TOP5 sample. These results indicate strongly that the variance and mean of visits are unequal and that the truncated negative binomial estimator is statistically superior to the truncated Poisson in the current study.

The estimated travel cost coefficient (TC) is negative and significant at the 0.01 or better level across all 30 models suggesting an inverse relationship between travel cost and the number of recreation visits. In this study, hiking was selected as the base case activity for our estimates because it is the most frequently reported main activity. The estimated travel cost coefficient combined with equations [15] and [16] above, generates base case (hiking) WTPA values which

range from \$58.01 in Region 4 (Southern) to a high of \$215.83 for Region 3 (Northern) for the ALL dataset; and from \$34.45 for Region 1 (Pacific) to \$121.96 per person per visit for the TOP5 dataset. The base case WTPAs, appropriately indexed for units and inflation (2004 U.S. dollars per visit per person, or per person per activity day), are within the range of values in the literature for forest recreation (Rosenberger and Loomis 2001). The base case (hiking) values can be found at the bottom of Tables 8 and 9 and also include the own-price elasticity measures for the base case (hiking).

The base case (hiking) elasticity for Region 3 (Northern) using the income-based wage rate for opportunity cost was -0.313296 (ALL data); Region 4 (Southern) had a base elasticity of -0.674462 using a flat wage (ALL data); Region 3 (Northern) had an elasticity of -0.507108 using no opportunity cost (TOP5 data); and Region 1 (Pacific) had an estimated elasticity of -0.750633 using the flat wage (TOP5 data). This indicates that recreational access is relatively price inelastic suggesting that increasing the cost of recreational access will have a much less than proportional effect on the number of base case visits to National Forests. For example, using the -0.313296 elasticity estimate above, a \$10 increase to an average travel cost of \$100 would result in a 3-percent decrease in hiking visits for Region 3.

Tables 8 and 9 report the regression results and provide the base case WTPA and elasticity measures. Overall, our modeling results are consistent with a priori expectations, economic theory, and previous recreation demand studies. Across all 30 models the estimated coefficient on the travel cost variable is significant at the 0.01 level and has the expected negative sign. Thus, in all 30 of our models price and quantity are inversely related, and we find the primary demand relationship predicted by theory is robust to a large variety of modeling

specifications. The socio-demographic characteristics of gender (GENDER1) and age (AGE) are generally consistent with prior expectations based on previous studies.

The estimated coefficient on the income proxy (INCES) indicates that as income increases the number of visits per individual on average declines. This may indicate that as income rises there is less leisure time available for forest recreation, and that individuals in our sample do trade labor (wages) for leisure (forest recreation) as postulated by recreation demand theory. It is interesting to note that in the models using the income-based opportunity cost of time construction, the estimated coefficient on income becomes positive. It could be that using the income variable in the construction of the travel cost variable and including income as a variable in the vector of regressors creates collinearity problems, however other studies use this construction and we therefore include it in our set of results.

Consistent with previous literature, the models that include opportunity cost of time in the travel cost have higher consumer surplus values. We present the three different constructions to allow users of these values to determine the cost construction most appropriate for the policy/research setting of interest.

The effect of trimming the largest 5% of distance values (one-way distances greater than 1,250 miles) was surprisingly large. While we trimmed only 3,775 observations, the consumer surplus (WTPA) for the base case (hiking) where no opportunity cost of time is included for the National model drops from \$111.48 for the untrimmed (ALL) data to only \$55.28 for the trimmed (TOP5) data. Thus, trimming 5% of the distance values reduces the WTPA per visit by \$56.20 (about 50 percent). This indicates that a small portion of the visitors who take few trips and travel great distances significantly influence the average WTPA values. This finding is consistent with others in the literature who examined recreation demand for sites with regional or

national market areas. Hence, it is important to examine the sensitivity of the WTPA estimates to changes in the underlying distance distribution of visitors. Nevertheless, because the researcher can never know whether the given visit is truly single purpose, decisions to identify and exclude potential outliers will remain somewhat arbitrary and subject to professional judgment

One of the main goals of using NVUM data for assessing the value forest recreation was to attempt to estimate region-activity specific values. Using the travel cost varying parameter models and methods described in the previous sections we calculate a total of 840 region-activity based WTPA values and 420 own-price elasticity measures. The fourteen activities we examine are: camping (CAMP), scenic driving (DRIVE), fishing (FISH), general recreation (GEN), hiking (HIKE), hunting (HUNT), nature viewing (NAT), off-highway vehicle use (OHV), primitive camping and backpacking (PCAMP), picnicking (PICNIC), cross country and downhill skiing (SKI), snowmobile use (SNOWMB), trail use (TRAIL), and scenic viewing (VIEW). A complete description of activities and their aggregation can be found in Table 1.

For each of the five spatial scales (National, Pacific, Rocky Mountain, Northern, and Southern) we calculate the per person per visit consumer surplus and the per person per activity day consumer surplus measure across each of the three travel cost constructions (no opportunity cost, income based opportunity cost, and flat wage based opportunity costs) for each of the two datasets (ALL, and TOP5) for each of the fourteen activities. Table 10 presents the per person per visit and per person per activity day WTPA values for the untrimmed (ALL) data, and Table 11 provides the values for the trimmed (TOP5) data.

At the national scale using the untrimmed data, per person per visit values for camping (CAMP) were estimated across the three travel cost constructions at: \$52.13 (no opportunity

cost of time included); \$75.85 (one-third income based wage opportunity cost of time); and \$85.89 (\$5.25 flat wage rate opportunity cost of time). The same camping (CAMP) values for the trimmed (TOP5) data are: \$24.98, \$40.02, and \$40.45 respectively. Thus, the influence of different assumptions regarding the opportunity cost of time and the treatment of outliers on WTPA estimates is apparent. While the literature has no clear consensus regarding the best method for valuing the opportunity cost of time, theory suggests a positive rate at which individuals trade labor for leisure and thus suggests a measure of opportunity cost of time should be included in the demand model. The models that do not include an opportunity cost of time represent a lower-bound value and the flat wage based values provide upper bound values. The effect of long-distance travelers (those whose one-way distance from the forest is in the top 5% of the travel distance distribution) on per person per visit WTPA values are marked. The values for camping drop from \$52.13 to \$24.98, a reduction of 47.9%. As discussed above we believe those long-distance travelers may be outliers within the context of estimating average WTPA values because it is highly likely that their trip includes multiple sites and/or multiple purposes.

We also examine the effect of the spatial scale on the WTPA values. Continuing with camping (CAMP) values, the per person per visit estimates for the TOP5 data and a no opportunity cost of time assumption are: \$24.98 (National); \$25.25 Region 1(Pacific); \$21.44 Region 2 (Rocky Mountain); and \$58.67 Region 3 (Northern). We find the Northern U.S. to have the highest estimated values for camping, while the Pacific region has the lowest per person per visit WTPA values.

Off-highway vehicle use has become increasingly controversial on public lands as conflicts between different forest users become more frequent. We estimate the per person per visit value of off-highway use (OHV) activity under the no opportunity cost of time assumption

for the TOP5 data at: \$58.86 (National); \$41.62 Region 1 (Pacific); and \$71.57 Region 2 (Rocky Mountain). We note that the Rocky Mountain region has the highest OHV values while the Pacific has the lowest values. The forests of the Rocky Mountain region (including forests in Wyoming, New Mexico, Arizona, and Montana) tend to have large numbers of OHV users and substantial areas of land available for OHV use. Our WTPA estimates reflect these regional forest differences.

If we examine the Rocky Mountain region and look across the different activities we see the highest value per person per visit WTPA (for the TOP5 data with no opportunity cost of time) is for non-motorized trail use (TRAIL) at \$143.35. TRAIL use includes biking, horseback riding, and non-motorized water uses such as canoeing. The lowest per visit values for the Rocky Mountain are for \$21.35 for general recreation (GEN). General recreation includes hanging out, swimming, and non-specific forest recreation. Overall, we see that per person per visit values vary significantly by region and by activity as well as vary by activity within and between regions. These differences in WTPA values reflect the differing quantity, quality, and accessibility of recreation resources across the NF system, as well as the regional and activity specific differences in demand for recreation.

Previous RPA recreation valuation efforts have focused on the per person per activity day WTPA values, and our analysis includes 420 such values. These values take the estimated consumer surplus values and adjust them for the amount of time spent on-site for an average visit of the specified activity. These activity day calculations then allow our estimates to be compared with the Rosenberger and Loomis (2001) meta-analysis values. If we examine the camping (CAMP) values for the TOP5 data on the models that do not include any opportunity cost of time, for the National model, we estimate the per person per activity values of \$10.37. This

compares with the Rosenberger and Loomis (2001, Table 1 p.4) mean value of \$30.36 per activity day per person. Rosenberger and Loomis (2001, Table 3, p.13) report an average per person per activity day value of \$25.87 (\$28.38 in 2004 dollars) for the Rocky Mountain (Intermountain) region compared with our value of \$21.44 (2004 dollars) with no opportunity cost of time (TOP5 data) or \$34.56 per person per activity day for the 1/3 income based wage rate opportunity cost of time WTPA value. For hunting (HUNT) use, we estimate \$29.08 (no opportunity cost) and \$42.90 (income based opportunity cost) for the Rocky Mountain region (TOP5) data, compared with the Rosenberger and Loomis (2001, Table 3, p. 13) mean value of \$43.56 (\$47.78 in 2004 dollars).

In addition to the two types of WTPA values (per visit and per activity day) we also present the own-price elasticity measures for the region-activity combinations. These values appear in Table 10 for the untrimmed (ALL) values, and in Table 11 for the trimmed (TOP5) estimates. Examining the trimmed (TOP5) National estimates (no opportunity cost of time) we estimate the activity specific own-price elasticities as: -0.6045 (CAMP), -0.6039 (DRIVE), -0.4699 (FISH), -0.6228 (GEN), -0.5976 (HIKE), -0.6306 (HUNT), -0.8688 (NAT), -0.6292 (OHV), -0.5824 (PCAMP), -0.4373 (PICNIC), -0.6156 (SKI), -0.6067 (SNOWMOB), -0.3489 (TRAIL), and -0.8175 (VIEW). These estimates indicate that NF recreation has relatively inelastic demand, with non-motorized trail use (TRAIL) having the most inelastic demand (visits taken changes the least as the price of visiting increases) and nature viewing (NAT) has the most elastic demand (visits taken decreases the most as the price of visiting increases). For trail use (TRAIL) if the cost of visiting increases by 10% the number of visits taken annually will decrease by 3.489%, and for nature viewing (NAT) if prices rise by 10% visits will decrease by 8.688%.

Comparing the National estimates to the Rocky Mountain region we find that TRAIL has an elasticity of -0.4160 (versus -0.3489 for the National); and NAT has an elasticity of -0.8844 (versus -0.8688 for the National). Thus, for the Rocky Mountain region demand for trail use on National Forests is more elastic (more responsive to price) than the National model, while nature viewing has a very similar price response between the two spatial scales. It is important to remember that all the values and elasticities reported herein are only for recreation that occurs on National Forests, whereas other comparative values (e.g., the Rosenberger and Loomis, 2001) meta-analysis) include a much broader base of areas and whose values may diverge from FS-only values.

In addition to the WTPA values presented in Tables 10 and 11, we provide 90% confidence intervals around the point CS estimates in Table 12 (for the untrimmed ALL data) and Table 13 (the trimmed TOP5 data) using the method of differentials (Kmenta, p. 444). The CS values presented in Tables 10 and 11 will vary from the values presented in Tables 12 and 13 due to the different methods used to calculate the point-estimate interval versus the mean of the expected individual CS values. In Table 13 for the National model, the per person per visit value for CAMP (no opportunity cost of time) was \$36.55 with a 90% confidence interval lower bound value of \$35.12 and an upper bound of \$37.98. For the Rocky Mountain region the per person per visit value was \$42.54 with a lower bound of \$40.04 and an upper bound of \$45.03. The per person per visit value for CAMP (Rocky Mountain, ALL data) when the opportunity cost of time was valued at one-third the income based wage was \$78.99 with a lower bound of \$74.23 and an upper bound \$83.75.²⁷

In Table 14 and Table 15 we provide additional information regarding the WTPA values presented in Table 10 and Table 11. In the WTPA tables we replace any region-activity value

where the estimated coefficient on the travel cost activity interaction term was not statistically significant at the 0.10 or better level with the base case (HIKE) for that region. In such cases, the estimates would not be statistically different. For the trimmed (TOP5) data, 18.1% of the region-activity models were not statistically significant at the 0.10 or better level. Additionally, if the estimated travel cost activity interaction term was significant but the WTPA value was less than \$1.00 or greater than \$500.00 the value was replaced with the base case for that region. For the TOP5 data 9 of the 210 models (4.29%) were less than \$1.00, while no values were negative. Additionally, only three values in this set were greater than \$500 (1.43%). Table 14 provides the ‘raw’ values for the untrimmed (ALL) data and Table 15 for the trimmed (TOP5) data and a series of codes that indicate the significance of the estimated coefficient on the travel cost activity interaction term and if it fell within the bounds considered reasonable for these types of recreation values as based upon the literature.

In general, we find significant variation across the spatial scales (regions) and the activities, indicating that demand for National Forest recreation varies among different activities and different regions, both within and among the sets of strata. Additionally, the method of travel cost construction and the treatment of outliers significantly affects the estimated WTPA values. Our estimated price elasticities confirm the significant variation in the different region-activity segments, and our confidence intervals suggest that for most of our results, the range of estimates falls within the bounds of previous studies and within the values found in the Rosenberger and Loomis (2001) meta-analysis.

VI. CONCLUSIONS

The primary focus of this study is to assess the net economic value (NEV) of recreation on National Forests using the National Visitor Use Monitoring data (NVUM). This study

explores the suitability of NVUM data for the generation of willingness to pay for access values on the National Forests. Using this unique dataset we develop a series of models that allow us to estimate willingness to pay for access (WTPA) values for five different spatial scales and fourteen different primary activities. The data contain some unique features not present in other datasets including the large scale, the diversity of sampled sites, and the careful year-long scientifically based sampling frame with resulting sampling weights. A key element not heretofore attempted in previous FS recreation valuation studies is using the same National Forest visitation dataset to generate WTPA measures for recreation visits solely to National Forests.

Examining our WTPA results, we see differences across regions as well as across activities. Our results support the hypothesis that different regions of the U.S., with their different climates, natural amenities, tastes and preferences, and perhaps availability of substitutes, have different values for recreation access to National Forests. Additionally, our analysis indicates different activities have significantly different WTPA estimates.

Using a truncated negative binomial estimator weighted by a compound weight that adjusts for the sampling frame and for endogenous stratification we estimate a series of net economic values (average consumer surplus per person per activity and per person per activity day) for five different spatial scales (National, Pacific, Rocky Mountain, Northern, Southern) for each of fourteen activity groupings. We present each set of region-activity models for three different travel constructions and two different sets of data – one that includes all available observations (ALL) and one where the top 5% of one-way distance values (TOP5) have been removed from the estimating sample. This results in a total of 30 models and 840 consumer surplus values and 420 own-price elasticity estimates.

This research contributes a comprehensive analysis of forest recreation valuation using NVUM data and contributes a large set of net economic values and price elasticity estimates using the current best-practice approach to modeling and estimation. The choices made during the data construction, model development, and estimation emphasized conservative choices and methods that would best represent aggregate forest recreation values for the regions and activities for which we were deriving values. In many cases we explicitly chose lower-bound values or methods. Thus, we feel our estimates represent a conservative set of recreation values. Both the net economic value and price elasticity estimates are useful for National Forest policy and planning at the national, regional and National Forest levels. However, given the nature of the sample, and modeling assumptions, the results should be interpreted as being representative of the given spatial scale (national or region) and activity combination; not for a particular activity on a particular national forest.

Some of the more significant limitations of the NVUM data and the methods used to estimate net economic value and price elasticity estimates should be noted. For use in recreation demand modeling, the most significant limitations of the NVUM data were: (1) the lack of information on household/individual income; (2) individual site-characteristics; (3) the lack of substitute behavior information (if the individual chose not to go to the site where they were surveyed what would they have done or where would they have gone); and (4) the aggregation up to the forest-level visit. These limitations: (1) required us to use an IRS Zip Code based income level for the individual; (2) precluded any modeling that would include using site-characteristics to explain variation in visits; (3) introduced potential bias in the WTPA values by excluding any substitution behavior; and (4) meant we had to assume that the visit on which the individual was surveyed is typical of all visits taken by the individual to that NF, implying that

the group size and activity would be the same for all reported visits (it should be noted, however, that this is a common assumption in ITCM). Other modeling/data limitations included: (1) the pooling of the eight available FS regions (Alaska, Region 10 is excluded) into four RPA macro-regions to ensure enough density of observations and to simplify the output; (2) forests in some states (e.g., North Carolina, Florida, Nebraska, and others) were pooled so that all National Forests and National Grasslands in that state were combined into an aggregate forest that covered that entire state; and (3) the aggregation of activities in order to increase the number of observations of each activity type, e.g., TRAIL was the aggregation of bicycling, horseback riding, and canoeing.

The sensitivity of the results to the treatment of potential outliers is important to note, but not unusual in empirical research, e.g., the rejection of individuals who traveled more than 1,250 miles each way and visited more than 52 times in a year reduced many of the estimated WTPA by nearly 48%. While NUVM provides a large sample size and broad-based view of National Forest recreation, the restrictions described above did limit our ability to utilize models that require better income, site-characteristics, or substitute behavior information.

In summary, the current generation of NVUM data provides a rich and unique set of information regarding National Forest recreation and visitation. Future years of NVUM and future recreation demand estimation could be improved by collecting information on household/individual incomes, substitute behavior, and information on site characteristics. Additionally, future research into better methods for handling the diverse nature of visitors and econometric methods to handle the structural nature of recreation data will further improve and refine the estimates of the value of recreation.

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APPENDIX A: DETAILED DATA DESCRIPTION

The NVUM Recreation Demand data set was created using four years of NVUM project data combined with several other data sources. The recreation demand data set is named NACQ1, and contains: all four currently available NVUM data series, census data, IRS income data, and NORSIS quality data. This data set was created using SAS Version 8. The details of construction are provided in this appendix, and the input files used to generate the dataset are available upon request from the authors. The input files below are referenced by their original directory and filename specification.

The information that follows is in outline format to aid in documenting the steps taken to create the NACQ1 dataset. Below you will also find the internet resources and links (valid at the time of data set construction) and file specifications. Please see Appendix F for the complete input files discussed here.

Data Documentation of Dataset: NVUM ALL CENSUS QUALITY (NACQ1)

1. Input File: 04STARBUCK/SAS/NACENS/geolocation creation.sas

- a. Generates a combined file that contains ZIPCODE, state, county, state FIPS, county FIPS, region, forest name, forest code, latitude and longitude of forest centroid as defined by the USGS Geographic Names Information System (GNIS).
- b. GNIS Source: http://geonames.usgs.gov/stategaz/us_concise.
 - i. This is an .XLS file containing all place names in the US with a latitude and longitude affixed. The last update to their US_CONCISE file was 4/23/2003. File contents are as follows (Column Width=Contents):
 1. 1-50=Feature Name
 2. 52-60=Feature Type
 3. 62-92=County Name
 4. 94-109=State Name
 5. 111-126=Latitude and Longitude (Geographic Coordinates)
 6. 128-132=Elevation.

- ii. This file was used to provide a Lat/Long for each Forest (based on the GNIS location – these appear to be a “centroid” for each forest in the US. This allowed the creation of a ‘geolocation’ file for each forest.
- iii. Final output file contains: state FIP, FIPS place, state abbreviation (state PO), place name, county FIPS, county name, ZIPCODE, state name, forest name.
- iv. Final output file: nacens.forestgeolocation.
- v. Note: DO NOT DELETE nacens.geolocation – this file was created as a fixed format/schema file and there is no input file to re-run to correctly import the data from the raw download state. The nacens.geolocation file contains all the GNIS information (105,791) observations.
 - 1. ALL_FIPS55 used in creating the geolocation file are derived from the US GNIS database under the download file name FIPS55. This is a fixed schema file. The data and schema can be found at:
<http://geonames.usgs.gov/fips55> and
<http://geonames.usgs.gov/layout>.

2. Input File: 04STARBUCK/census projections/by5 creation.sas

- a. This is the SAS input file that generates the census projections by race and age for all 50 states by five year increments from 2000-2025. The input data are in files transferred using STATTRANSFER and in the 04STARBUCK/census projections/by5/ folder.
- b. In SAS this in the folder called PROJECT. The base data set created is, “project.Statepopby5”.
- c. The output files are “project.by5columns00...project.by5columns25”.
- d. The data are derived and downloaded from the US Census Bureau at http://www.census.gov/population/www/projections/st_yrby5 for the data files. Each state has eight files in total. By going to the “Every Fifth Year” link 50 compressed folders are found where each state file containing 1204 rows x 20 columns containing all the race, gender, age, population projections are located. These are ASCII files.
- e. For use in NVUM (for all states) the files were set together to generate a file containing the (1204*50) x (20) observations for the National set.
- f. The “by5 creation” input file merges, and then separates by five year increments this larger data set.
- g. NOTE: for PROJECTIONS the finest detail level is the STATE, but if county population estimates by race, age, and gender for 2000-2003 are wanted the data is available, cleaned, and one version of an NVUM set with this data exists. ***County level estimates are available*** – but not for projections. The files are available at: http://eire.census.gov/popest/data/counties/coarso_detail.php. Or go to the following census menus: population estimates, counties, characteristics. Each state has its own separate comma delimited file. These were downloaded,

transferred using STATTRANSFER, and set together and formatted and incorporated into NVUM using the following input file(s): 04STARBUCK/1990 Census by county demo/SAS county1900-1990/ growthratesbycounty.sas. This was also incorporated with income data by county in the files: 04STARBUCK/census_population/ “incpopgrowthdemoginp”.

- i. *NOTE: THIS IS NOT HOW THE INCOME PROJECTIONS OR POPULATION PROJECTIONS WERE CREATED. BUT THE DATA AND FILES MIGHT BE USEFUL IN SOME ANALYSIS SO ARE NOTED HERE.*
- ii. *NOTE: Bureau of Economic Analysis has county level income data for 2000-2002. This was found at: <http://bea.doc.gov/bea/regiona/reis>, under Local Area Personal Income. Provides one line of data for each county in the US. Again – this is not the income used in the final output (071604) but may be a useful data set.*

3. Input File: 04STARBUCK/SAS/census_population/deltainccpi_071604.sas

- a. This is the file that generates the income growth projections. The “deltainccpi_071604” file contains the formulas for calculating the average growth rate from 1980-2000 and the average change in prices from 1980-2000. This is then used in the NACENS_1_CREATION file to generate the income growth rates by 5 year intervals from 2000-2025.
- b. To generate values in terms of real values, and not nominal, the US Census Bureau’s Consumer Price Index tables using the Bureau of Labor Statistics information were used. The CPI information can be found at:
 - i. <http://www.bls.gov/cpi/cpirsdc.html>. Information on these values can also be located at: <http://www.bls.gov.cpi/cpifaq>. The table used in this file comes from a Census Bureau’s compilation, available at <http://www.census.gov/hhes/income/income02/cpiurs.html>. This table provides the CPI-U-RS 1 values from 1947 to 2002. To calculate the percentage change in prices between any two years divide the year of interest by the base year (CPIt/CPIt-1).
- c. Using the output table nacens.adjincfrb in the NACENS_1_CREATION file to generate the income growth (*NOTE: Those calculations are presented in the NACENS_1_CREATION file section*).
- d. To generate the income projections three sources of data/information were utilized.
 - i. Using the IRS Statistical service website, an .XLS file was downloaded containing adjusted gross income, number of returns, and ZIPCODE for all ZIPCODES in the US for 1990. (www.irs.gov/taxstats/article/0,,id=96947,00.html – available through the IRS Statistics of Income (SOI). Going to the TAXSTATS link will get you the downloadable data files in .XLS v4).

- ii. A data series downloaded from the BEA (Bureau of Economic Analysis): Regional Economic Accounts provides a per capita income series for 1969-2002 by county for the entire US. A subset of 1980-2000 for each county was used. This file was downloaded from <http://www.bea.doc.gov/bea/regional/reis/default.cfm>, Under the Regional Economic Accounts Local Area Personal Income section click on the “single line of data for all counties” radio button, then “CA05 – Personal Income by Major Source and Earnings by Industry (SIC), then 030- Per capita personal income (dollars) for whatever years the data user wishes to analyze. This file was saved as: C:\04STARBUCK\SAS\census_population\ “percapincbycounty0080”. Transferred into SAS (same directory) is “percapincbycounty0080a.sasdb7”. The raw SAS file was then saved as “census.deltainc1”.
- iii. A third data source from the Bureau of Labor Statistics (BLS) as found and used by the Federal Reserve Bank (FRB) Minneapolis. Their website is <http://minneapolisfed.org/research/data/us/calc>, click on the link “Consumer Price Index and Inflation Rates, 1913” to find the CPI and inflation rate from 1913 to 2004. The FRB uses the BLS CPI-U series and provides the following method for computing real dollars for any two years of examination:

$$\text{RealDollars}_t = \text{Value}_t$$

$$\text{REALDOLLARS}_t = \frac{\text{VALUE}_{t-1} * \text{CPI}_t}{\text{CPI}_{t-1}}$$

- iv. for example if ($t=2004$)

and ($t - 1=1980$)

then

$$\text{Real Dollars}_{2004} = \text{Dollars}_{1980} * \text{CPI}_{2004}/\text{CPI}_{1980}$$

- v. This was used to convert the BEA series from nominal dollars to real dollars, then the change between each year from 1980-2000 was calculated then averaged over the 20 year time period. Then the average inflation rate over the 20 year period was calculated from the CPI table and added to the growth rate using the method described above, and then used as the growth factor (incgrowa) in the following formula:

$$\text{incag}_t = \text{zinc00} * (1 + \text{incgrowa})^t,$$

- vi. where

$$t = (2005, 2010, 2015, 2020, 2025)$$

- vii. and zinc00 is the IRS income for 1990 adjusted for 2000 real dollars. This method should provide for a projected income in real terms for each of the time periods in each question – based on a county level historical income

growth rate and national average inflation rates for zipcode level income data.

- viii. These calculations are found in:

C:\04STARBUCK\SAS\census_population\ “deltainccpi_071604” and in C:\04STARBUCK\SAS\ “nacens_1_creation”.

4. Substitute Distance Creation: C:\04STARBUCK\SAS\census_population\ substitute distance creation.sas

- a. This file calculates a substitute distance variable using the following steps and data sources:
- b. Using the same USCONCISE (which contains the lat/longs) file described above the forest names were reformatted to conform exactly to NVUM saved as “census.forlat”. Then a base NVUMALL file was used and sorted by zipcode.
- c. Then an SQL procedure was used:
 - i. The SQL took the lat/long from forlat and the zipcode from NVUM and constructed a file with all possible combinations of zipcode/latlong. That is – EACH zipcode in NVUM was paired with the lat/long for EACH forest, so each of the 40k or so unique zip codes found in NVUM was paired with EACH of the 100 or so forest names/latlongs in USCONCISE (GNIS lat/long centroid). This generated a file with 2.4 million observations labeled: “census.odpairsub” **WARNING – DO NOT DELETE THIS FILE!** This file was then formatted so that the lat/long was conformable to PCMILER needs and an “odpairsub” file was created that contains an origin destination pair for all 2.4 million zipcode/latlong combinations. This was then exported to a plain text file and used in PCMILER BATCHPRO to calculate a distance for each origin destination pair. This was then imported back into SAS as “census.odpairsubsa” **WARNING – DO NOT DELETE THIS FILE!!!**
 - ii. The odpairsubsa file was then merged back into the odpairsub file to generate a file with calculated distances, latlong, and formatted forest names.
 - iii. This file is then sorted by zipcode and the calculated substitute distance. The SAS “rank” procedure is then used and the file then sorted by descending order by zipcode and rank, the “lag” procedure is used to generate 3 lags of the distance.
 - iv. Then NVUM is sorted by zipcode and forest name as is the substitute distance file. The files are then merged by zipcode and forest name. Then cleaned up and saved as census.subdistnvum, with the substitute distance file “subdistz” (which is the 2nd lagged, ranked variable).
1. ***Note: DO NOT DELETE census.subdist – critical intermediate file.***
- v. Using the SQL and ranking/lagging procedures described above, the substitute distance file generates a distance variable that provides a

- distance value from the zip code of origin to the next forest (from zip code) not visited.
- vi. The rationale for NOT using the rank/lag procedure on the existing set of zip code/forest destinations is as follows:
 - 1. In examining NM – using the NVUM data the substitute sites for three of the Albuquerque area zip codes were Rio Grande (in Colorado) and Coconino (Arizona) and a forest in Montana. Substitutes should be Santa Fe, Carson, Lincoln, and Gila (if visited Cibola from Albuquerque).
 - 2. The set of observations on zip code/forest in NVUM cannot provide sufficient coverage of all possible combinations in order to construct a distance from each observed zip code to the next nearest forest from origin.

5. NACENS_1_Creation: C:\04STARBUCK\NACENS\ nacens_1_creation.sas

- a. This input file generates the actual NACENS file constructed from the above sections. It also generates the VISMOD subsets.
- b. Essentially, the above sub-files are merged into the base NVUMALL file using what ever variable is present in both files, the geolocation files simplifies this since it contains all the relevant identify/merge information.
- c. This file uses the NVUMALL8 or 7 (NVUMALL CREATION) base file that contains Don English's transformations and the setting of the different years of NVUM into one file.
- d. Any of the NACENSMASTER files will contain all the different variable/subsets described above.
- e. Note: NORSIS was added to NVUM using the county as the merge variable. Since the USCONCISE data contains the county in which the forest centroid sits the NORSIS quality data is available for at least a portion of the forest.

DATA SOURCES and WEBLINKS USED IN NACENS CREATION:

- http://geonames.usgs.gov/stategaz/us_concise
- <http://geonames.usgs.gov/fips55>
- <http://geonames.usgs.gov/layout>
- http://www.census.gov/population/www/projections/st_yrby5
- http://eire.census.gov/popest/data/counties/coarso_detail.php
- <http://bea.doc.gov/bea/regiona/reis>
- <http://www.bls.gov/cpi/cpirsdc.html>
- <http://www.bls.gov.cpi/cpifaq>

<http://www.census.gov/hhes/income/income02/cpiurs.html>

www.irs.gov/taxstats/article/0,,id=96947,00.html

<http://www.bea.doc.gov/bea/regional/reis/defalult.cfm>

<http://minneapolisfed.org/research/data/us/calc>

APPENDIX B: NVUM SAMPLING AND WEIGHTING ISSUES

There are two components to the weight used in this analysis. The first weight expands the observations to the stratum total and is given by

$$SV_h = N_h \sum_{i=1}^{n_h} \frac{C_{hi} P_{hi} V_{hij}}{n_h} \quad [B.1]$$

where $i = 1, 2, 3, \dots, n_h$ is the sampled site-day; $h = 1, 2, 3, \dots, H$ is the stratum; C_{hi} is the total traffic count; V_{hij} is the number of persons in the j^{th} sampled vehicle on site-day i ;

$$P_{hi} = \sum_{j=1}^J \frac{LR_{hij}}{J} \quad [B.2]$$

is the proportion of vehicles on-site day i that were last exiting, with LR_{hij} an indicator variable that equals 1 if the j^{th} vehicle sampled on site-day is a last exiting recreation vehicle and zero else; J is the mean persons per recreation vehicle for last-exiting recreation vehicles; and N_h is the total number of site days in stratum h . The second weight is

$$NV = \frac{\left(\frac{SV_h}{M_h} \right)}{SF_i} \quad [B.3]$$

where the weight for each site stratum is SV_h , M_h is the number of visitors, and SF_i is the number of sites the individual visited (English et al. 2002).

For example, in the Cibola National Forest some of which sits adjacent to Albuquerque, New Mexico three surveyed sites were Sandia Crest Observatory, the Crest Trail, and the La Luz trail. The Crest Observatory draws many visits from individuals visiting New Mexico. The

view from the 10,600 foot peak over Albuquerque is a popular attraction and most visits to the site are of short duration and usually involve walking and viewing as the primary activity. The Crest Trail which is near the observatory is a wilderness trail that attracts a wide variety of hikers and nature viewing. Trip duration is usually longer than at the observatory and the site draws both locals and non-locals. The La Luz trail is a very popular attraction for Albuquerque residents as the main trailhead sits adjacent to the city and provides locals easy access to a world class hiking trail. The La Luz rises from 5,280 feet at its base to more than 10,600 feet at the Crest all within a few short miles. Many of the visitors hike this trail several times a week as part of their fitness routine and many live within walking or biking distance of the trailhead. Additionally, the trailhead connects to Sandia Tram allowing hikers to complete the trail and take the tram down the mountain. Most of the visitors to this site are local and have very high visit counts.

Table B.1 Effect of Expansion Weights

Site	Strata	NV**	Trips*	Weighted Trips*	Distance*	Weighted Distance*
Sandia						
Observation	DUDSH	903.02	4.719	3.570	468.067	720.374
Crest Trail	DUDSL	17,674.03	4.094	4.143	476.019	483.140
La Luz	WILDH	471.27	33.553	33.473	148.056	148.664

*Means of the trimmed data, using the 5,000 observation random sample from the master NACQ1 dataset. NV=NEXPAND.

The NVUM visit expansion weights (NEXPAND) were developed in order to describe the characteristics of the estimate of the total number of annual visits to the forest. These weights can be used to expand each sampled observation up to the number of visits it represents in a given stratum. Specifically, in NVUM the unit of measure is a National Forest visit, which is defined as, “one person entering and exiting a National Forest or National Grassland for

recreation" (English et al. 2002). The weight, which is calculated for every individual $i = 1 \dots N$, is then defined as:

$$NVEXPAND_i = \left(\frac{(exiting\ traffic) \times (proportion\ last\ exiting)}{\frac{(persons\ in\ j^{th}\ vehicle)}{(number\ of\ sites\ visited_i)}} \right) \cdot N \quad [B.4]$$

Where:

- (N) is the number of site days in the stratum;
- (Exiting traffic) is the average exiting traffic count per day for the stratum;
- (Proportion last exiting) is the ratio of last exiting recreation vehicles to total count of vehicles;
- (Average persons) is defined as the average number of people per vehicle for recreating vehicles sampled in the stratum;
- (Number sampled in stratum) is the number of people sampled in the stratum;
- (Number of sites visited by i) is the total number of sites visited by the individual during the current NF visit.

For illustration, assume that a surveyed forest has three sites with the following observations for NFV12MO, PEOPVEH, and NVEXPAND weights.

Table B.2 Illustrating Weights

OBS	NVEXPAND	NFV12MO	NVEXPAND *NFV12MO	PEOPVEH	PEOPVEH* NFV12MO	NVEXPAND *NFV12MO*
						PEOPVEH
1	903.03	5	4515.13	1	5	4515.13
2	301.01	40	12040.33	5	200	60201.67
3	903.03	20	18060.50	1	20	18060.50
4	451.51	6	2709.08	1	6	2709.08
5	150.50	0	0.00	1	0	0.00
6	225.76	1	225.76	1	1	225.76
7	301.01	1	301.01	7	7	2107.06
8	225.76	36	8127.23	9	324	73145.03
9	225.76	3	677.27	3	9	2031.81
10	180.61	0	0.00	1	0	0.00
Average	386.80	11.2	12.06	3	57.2	42.14

In Table B.2 the effect of the weights on the means of visits and distance are illustrated.

Since NVUM is drawn from a stratified sample, the strata must be incorporated in the estimation, and thus the NVEXPAND weight is used in the estimators, descriptive statistics, and calculations according to standard sampling theory (English et al. 2002). For each observation in our sample there is a corresponding NVEXPAND value which is used to weight the moments and the variance-covariance matrices.

Each observation is expanded up to its representative value according to the sampling information. For example, for observation 1 the weight is 903.03 thus the 5 visits sampled in NVUM represents 4,515 visits based on the proportion of total cars to last exiting vehicles.

In the NVUM framework a visit is defined as one person entering and last-exiting a National Forest area. The NVEXPAND weight then expands the observations up to the visit level by taking the proportion of last exiting vehicles to the total count of vehicles and multiplying by the number of people in the j^{th} sampled vehicle to generate the representative number of PERSON TRIPS (i.e. total visits). In modeling demand using NVUM we are assuming that the reported visit value is for the household, then include the number of people in

vehicle as a regressor then divide the consumer surplus by the number of people in the vehicle to retrieve a per person per visit consumer surplus value.

An additional set of issues in applying the current NVEXPAND weight to the estimation of a demand model was raised by Stynes et al. (2003) in his work estimating expenditure profiles using the NVUM data. Stynes et al. (2003) has found that the large variance in the weights has a tendency to distort the means of the expenditures and can be traced to a few observations with very large weights dominating the expenditures. The same issue may arise in the demand data as a few observations with very large weights will dominate the travel cost and visits values and if those values are significantly different from the means, the demand estimates and resulting welfare values could be biased.

APPENDIX C: DETAILED MODELING DESCRIPTION

In using the NVUM data to generate forest recreation values, it is important to generate estimates that are theoretically correct in methodology since the potential uses of the estimates include benefits transfer and benefit cost analyses. Thus, it is necessary to select an estimator that models the stratified, on-site nature of the data and incorporates the latest advances in econometric modeling.²⁸ This appendix presents the exploratory econometric models we used in developing the recreation demand models presented in this research.^{29, 30}

1. Log-Linear (M1):

The modeling begins with the simplest functional form. This is a linear model where OLS is used. The form is (Adamowicz et al. 1989):

$$\ln Trips = \alpha_1 + \beta' X \quad [C.1]$$

This model relies on a continuous LHS variable that is normally distributed. It is known to be inconsistent if the distribution violates the assumption of a normal distribution. This model is the least ‘best fit’ to the NVUM data, and represents a naïve model.

2. Truncated Log-Linear (M2):

This is a limited dependant variable (LDV) model, where the distribution is truncated at zero and the probabilities adjusted for the limit on the dependant variable. This is a linear model using the log of the dependant variable. As in the case with the log-linear model, the effect of using a semi-continuous distribution for a count distribution may yield inconsistent results.

However, since this a more linear model it is likely to be more stable and more robust relative to the non-linear models. The form is (Greene 2002, E21-19 and E22-1):

$$\log L = \sum_{y_i=L_i} \log \Phi\left(\frac{L_i - x_i' \beta}{\sigma}\right) + \sum_{y_i=y_i^*} \log \left[\frac{1}{\sigma} \phi\left(\frac{y_i - x_i' \beta}{\sigma}\right) \right] \quad [C.2]$$

$$E[y_i | x_i, L_i \leq y_i \leq U_i] = \beta' x_i + \sigma \frac{\phi_L - \phi_U}{\Phi_U - \Phi_L} \quad [C.3]$$

3. Truncated Poisson (M3):

This is the most basic form of count data estimator applied to travel cost models. It is a robust, stable estimator, but known to provide inefficient and potentially inconsistent estimates when over-dispersion in the dependant variable is significant. The inefficient standard errors can be corrected using a robust covariance matrix, but if the dependant variable is over-dispersed then the estimates are to be considered inconsistent. The form is (Greene 2000, 2002; Ovaskainen et al. 2001:

$$\Pr[y_i = j | y_i > C] = \frac{\exp(-\lambda_i) \lambda_i^{y_i} / y_i!}{1 - \sum_{j=0}^C \exp(-\lambda_i) \lambda_i^j / j!} \quad [C.4]$$

where
 $C > 0$

$$\log L_i = \log \Pr ob[Y_i = y_i] - \log \left(1 - \sum_{j=0}^C P_j \right) \quad [C.5]$$

Alternatively,

$$\Pr[y_i = j | y_i > C] = \frac{\exp(-\lambda_i) \lambda_i^{y_i} / y_i!}{1 - \sum_{j=0}^C \exp(-\lambda_i) \lambda_i^j / j!} \quad [C.6]$$

with conditional mean

$$E(Y|X, Y>0) = \lambda [1 - F_p(0)]^{-1} = \left(\frac{e^{X'\beta}}{1 - e^{-e^{X'\beta}}} \right)$$

5. Truncated Negative Binomial (M4):

This is an extension of the Poisson [truncated] where an additional parameter α is estimated that allows for dispersion in the dependant variable. As given in Ovaskainen (2001, 129):

$$prob(Y = y | Y > 0) = \frac{\Gamma\left(\frac{y+1}{\alpha}\right)}{\Gamma(y+1)\Gamma\left(\frac{1}{\alpha}\right)} (\alpha\lambda)^y (1+\alpha\lambda)^{-\left(\frac{y+1}{\alpha}\right)} [1 - F_{NB}(0)]^{-1}$$

with conditional mean [C.7]

$$E(Y|X, Y>0) = \lambda[1-F_{NB}(0)]^{-1} = \left(\frac{e^{X'\beta}}{1-e^{-e^{X'\beta}}} \right)$$

6. Truncated Stratified Poisson (M5):

As derived in Shaw (1988) the truncated, endogenously stratified, Poisson model is given by the following

$$y_i^* = X_i\beta + u_i$$

For $i = 1, \dots, N$, where $y_i = y_i^*$ when $y_i^* > 0$, then

$$h(y | X_i) = \frac{\exp(-\lambda_i)\lambda_i^{y_i-1}}{(y_i-1)!} \quad [C.8]$$

with conditional mean and variance

$$E(y_i | X_i) = \lambda_i + 1 = \exp(X_i\beta) + 1$$

$$\text{var}(y_i | X_i) = \lambda_i$$

These correspond to equations 10-12 in Shaw (1988, 216). This is the theoretically preferred model when the variance and mean of the trips data are equal. However, as noted in Englin and Shonkwiler (1995), Cameron and Trivedi (1998), and Greene (2000) the Poisson yields inconsistent and inefficient parameter estimates in the presence of over or under

dispersion in the dependant variable. The reader is referred to Cameron and Trivedi (1998), Englin and Shonkwiler (1995), and Shaw (1988) for a more complete discussion of the issues of choice based samples and count data estimation.

7. Truncated Stratified Negative Binomial (M6):

This is found in Englin and Shonkwiler (1995) and Ovaskainen et al. (2001). The probability is derived by applying the following probabilistic structure to the negative binomial distribution,

$$\frac{yF(y)}{\sum_{y=t} f(y=t | x_i)} \quad [C.9]$$

Note: this is the same formula provided by Shaw (1988) for the truncated stratified Poisson. This yields the truncated stratified negative binomial (TSNB) model

$$\frac{\Gamma(y + \frac{1}{\alpha})(\alpha)^y(\lambda)^y(1 + \alpha\lambda)^{-(y + \frac{1}{\alpha})}}{1 - (1 + \alpha\lambda)^{-\frac{1}{\alpha}}\Gamma(y + 1)\Gamma(\frac{1}{\alpha})} \quad [C.10]$$

Where $\lambda = e^{X^B}$ and α is the dispersion or nuisance parameter. This model is found twice in the literature, as cited above.

8. Finite Mixture Truncated Stratified Negative Binomial (M7):

This initial application is found in Cameron and Trivedi (1998) on pages 128-133. No applications to the recreation demand literature have been found. Two articles appear by Trivedi that use a finite mixture negative binomial (FMNB) that are cited and discussed in Cameron and Trivedi (1998). The finite mixture allows a series of classes to be defined into which subpopulations of the data belong. The general probabilistic structure is then derived that allows

for different classes within the master population C. In the NVUM data this corresponds to the ‘high frequency’ and ‘low frequency’ users. Modifying Cameron and Trivedi’s (1998) FMNB model to two separate TSNB estimators results in the following functional form

$$f(y_i | \Theta) = \sum_{j=1}^{C-1} \pi_j f_j(y_i | \theta_j) + \pi_c f_c(y_i | \theta_c)$$

where π is further parameterized as

$$\pi_j = \frac{e^{x^j \varepsilon}}{1 + e^{x^j \varepsilon}} \text{ and estimated along with the other parameters.}$$

[C.11]

The log-likelihood is $\ln L(\pi, \Theta | y) = d_{ij} [\ln f_j(y_{ij}; \theta_j) + \ln \pi_j]$

Using the Englin and Shonkwiler (1995) TSNB as $f(y_j; \theta_j) \sim TSNB$ yields the FMTSNB distribution.

Modeling Summary

In developing the truncated, negative binomial model weighted by NVY we explored the above specifications. The linear family of models performed poorly with few significant coefficient estimates, low R^2 values, and often negative consumer surplus estimates. While the linear models are typically more robust than the exponential families, and represent well developed econometric methods, they are theoretically inconsistent with our data generating process. The Poisson models and the Negative Binomial variants are the appropriate class of distributions for the modeling NVUM data. We estimated a series of models using the truncated and stratified variants of both the Poisson and the Negative Binomial, as well as the finite mixture model. These models were run using NVEXPAND, NVY, and no weighting variable. The results of our modeling led us to the truncated, negative binomial using the NVY weight.

Further work using the finite mixture models and continued exploration of the endogenous stratification and effects of the sampling frame on estimation, as well as omitted

variable bias, and measurement error in the dependant variable and travel cost variables are important areas in recreation demand research that NVUM could be used to explore.

ENDNOTES

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- ¹ This information is available from the USDA Forest Service website, <http://www.fs.fed.us/aboutus/meetfs.html>. This site was accessed on 04/21/2005.
- ² It should be noted that RPA Assessments are the responsibility of the Strategic Planning and Resource Assessment staff and the Research and Development staff provides assistance, while the Forest Plans are completed and administered by FS National Forest Systems. The resource values are expected to provide a consistent set of values to be used in these forest plans and in planning forest projects. The values are developed by researchers and peer reviewed in order to provide a set of values which can be used by FS personnel and others in National Forest management and research.
- ³ This represents most of the FS system. Some aggregation of the forest data were done such that in states such as Florida, North Carolina, Mississippi, and others were aggregated into a single forest entity. Thus, while there are 155 listed National Forests these are represented by the 120 forests described herein.
- ⁴ These expenditures are limited to within a 50 mile radius of the forest visited.
- ⁵ The “Economics Addendum” and “Satisfaction Addendum” are only available for a portion of the data, as the primary focus of this iteration of NVUM sampling was to generate visitation estimates.
- ⁶ We suspect that some high frequency visitors were surveyed at a site on a National Forest that was far from home relative to a location on the same forest that is very close to their residence. This would give some high frequency users distance values that appear to be erroneous. Additionally, if someone spends several weeks on-site or near the forest making multiple visits

over the course of their stay but live far away and report their home Zip Code instead of their local Zip Code, the visit-distance combination will also appear erroneous. Note: for the way we have constructed the dependent variable, trimming these observations may introduce some bias if sampling is random within strata.

⁷ For INCES we replaced 361 observations (.53%); PEOPVEH was missing 267 (.39%); and we replaced 1,307 missing AGE observations (1.90%).

⁸ It should be noted that the distances used to construct this are not the distances for the own-price variable construction. The latitude-longitude from the GNIS uses the location identified by the USGS as the *National Forest*, whereas the own-price (PRACTD1) variable uses the latitude-longitude for the specific *site* where the individual was interviewed. SAS was used to generate a dataset that contained all the possible combinations of forest and Zip Code, which resulted in more than 2.1 million observations for which PCMILER software was used to construct a distance from the Forest center to the Zip Code, SAS was then used to find the next nearest forest from their home.

⁹ All estimations, calculations, and descriptive statistics reported here are based upon the stratification weights developed by English et al. (2002), and described in Section IV Modeling, Subsection IV.B.1 Choice Based Sampling Frame and Sample Weights. The descriptive statistics provided here come from Table 4 (ALL) National Sample.

¹⁰ We used the IRS 2004 standard mileage rate for charitable use of private vehicles.

¹¹ NVUM was conducted only on individuals over the age 16. Any visitors under 16 are not included in the NVUM sample.

¹² This makes it possible to measure site usage by the number of visits or by viewing time on-site as endogenous to the choice of visits.

¹³ The socio-demographic variables (H) are sometimes termed “human capital” as they represent the household skills, talents, and other individual or household specific characteristics that are essential inputs to the production of the recreation visit. In the fundamental household production framework, human capital is combined with physical/recreation capital and time to produce a recreation visit. Deaton and Muellbauer (1980, 245-253) present a good discussion of the household production approach and the concept of human capital. Bockstael and McConnell (1983) and Bockstael, Strand, and Hanemann (1987) develop the household production approach in a recreation demand setting.

¹⁴ As shown by Bockstael and McConnell (1983) the standard household production approach based on a commodity space approach yields non-unique Marshallian demand curves due to the jointness in production. The implicit commodity prices of household goods become endogenous. Thus, they argue, because prices are endogenous, Roy’s identity cannot be used to identify Marshallian demands. However, the household production approach can be used to derive the compensated Hicksian demands. Subsequent work by Bockstael and Strand (1987) and Kling (1992) show that the Marshallian approximations to the compensated demands can be used and that in most cases Willig’s bounds apply. Theoretical and empirical analysis suggests that the errors in the specification of demand cause greater bias in the welfare estimates than the failure to use an exact measure of welfare.

¹⁵ In addition to physical counts of vehicles, some sites had sufficient information on visitation to allow the use of ‘proxy’ counts of visitors. For example, ski areas with lift tickets, fee demonstration areas (fee envelopes); use permits that accurately and completely count the number of visitors are valid proxy sources. The use of proxy information resulted in smaller samples being drawn at these sites since only enough information to convert proxy information

into visit information was required. The proxy and non-proxy weights are constructed in the same manner. For more information refer to English et al. (2002).

¹⁶ Stynes et al. (2003) provides a discussion of applying the strata weights to the expenditure information collected in NVUM.

¹⁷ Shaw (1988) also derives the correction for continuous data.

¹⁸ It is important to note that some of the forests were aggregated. For example, all forests in Florida were grouped as National Forests in Florida, and all North Carolina forests were grouped into one unit. Additionally, some forests that the FS has classified as separate units were grouped in NVUM. This results in the 120 units used here, which differs from the current FS defined units.

¹⁹ Other examples of count data that displays this type of ‘grouped’ dependant variables can be found in Dobbs (1993); Deb and Trivedi (1997); Deb, Ming, and Trivedi (1998); and Kerkvleit and Nowell (1999).

²⁰ The distances were calculated using PCMILER software to generate a one-way distance from home Zip Code to forest sample point latitude-longitude using road distances; for the 2004 data series the self-reported one-way distance was used instead of the PCMILER distance; for observations where the FS generated latitude-longitude was missing the GNIS forest geolocation information was used to calculate the distances/times; if the PRACTIME value was missing it was replaced with the weighted mean.

²¹ The choice of per mile cost can significantly impact the estimated travel cost and resulting consumer surplus values. Larger per mile values yield larger travel cost values and generally larger consumer surplus values.

²² Table B-3 Average hourly and weekly earnings of production or non-supervisory workers on private non-farm payrolls by industry sector and selected industry detail. Available at: <http://www.bls.gov/news.release/empsit.t16.htm>. Accessed 9/24/2004.

²³ Because of the large sample size afforded by NVUM this last approach may be feasible. To define the visit lengths, cluster analysis could be used to identify the visit groupings with the greatest between grouping variance and minimum within grouping variance. These could be estimated as separate equations, as there should be no correlation between the time on-site groupings.

²⁴The Random Utility Model (RUM) developed by Hanemann captures the participation modeling better than the ITCM but does not capture total choice of visits. While we could combine RUM with ITCM or use a nested RUM structure, the NVUM data is not well suited to this type of analysis.

²⁵ The value is assumed to be zero since it is problematic to parse out the portion of travel costs relevant to the visit to the National Forest and it is unlikely that all, or even a substantial portion, of the costs are attributable to the visit to the National Forest.

²⁶ As noted previously, all tables are in EXCEL spreadsheet form and are available from the authors upon request.

²⁷ Please see Creel and Loomis (1991) for an example of confidence intervals and truncated counts.

²⁸ Note the use of the term stratified, on-site sample. This is to indicate that the NVUM data is, by sampling design, stratified – and the data is truncated, endogenously stratified, and count data in nature.

²⁹ Two additional specifications were examined based upon the Tobit model. The grouped dependant limited dependent variable model and the Tobit. These are censored linear regression models. However, due to their difficulty in convergence and poor performance, they are not presented here. Numerous articles have explored the inconsistency of the Tobit under non-normal disturbances, Greene provides a test and in the NVUM data the null hypothesis of normal disturbances is strongly rejected. Some variants of the Tobit allow for heteroskedastic data, grouped dependant variables, and the following disturbance structures: Weibull, Logistic, and Exponential. The additional flexibility of the Tobit model may allow its use even under the non-normal errors in the NVUM data. The form as given in Greene (2002, E21-10):

$$L_i \Phi_L + U_i(1 - \Phi_U) + (\Phi_U - \Phi_L)\beta' x_i + \sigma_i(\phi_L - \phi_U) \text{ and } CS = -1/(2\beta_1).$$

³⁰ This is an extension of the Tobit (censored linear regression) model. This model is not yet well developed, and an example of the estimator applied to recreation values has not yet been found. This differs from the ordered probit in that the threshold values are known, and it is unnecessary to scale normalize σ to 1 and an estimate is produced. This gives rise to the inclusion [potentially] of an ordered probit for high-frequency observations. The conditional function is the same as for the Tobit above. As given in Greene (2002, E21-54 to 55):

$$y^* = \beta' X + \varepsilon \sim N[0, \sigma^2] \text{ unobserved, and } y = j, A_{j-1} \leq y^* < A_j, j = 1 \dots J, A_0 = -\infty, A_J = +\infty$$

$$CS = -1/(2\beta_1)$$

Legend		
Sheet Name	Contents	Tables
NOTES	Information regarding the data used in this analysis and brief notations on methods and aspects of the results.	NA
ACTIVITIES	Description of the activities and their aggregation.	Table 1 Description of Activities
REGION	Description of RPA Region construction	Table 2 Region Description
TRIMMING	Description of the observations trimmed from the raw data	Table 3 Trimmed Observations
DSTATAALL	Descriptive statistics for each region-activity combination. Variable descriptions are provided based on the full set of observations.	Table 4 Descriptive Statistics ALL Data
TOP5DSTAT	Descriptive statistics for each region-activity combination. Variable descriptions are provided along with the mean. Based on NAC4 TOP5, where distances greater than 1,270 miles from Zip Code of origin to Forest where surveyed (the TOP5%) of distance values were trimmed from the dataset.	Table 5 Descriptive Statistics TOP5 Data
DSTATACT	A table that provides the mean and NOBS for select variables stratified by activity. The table provides the values for both the ALL and TOP5 data sets, and also weighted by NVY and unweighted.	Table 6 Means for Select Variables Stratified by Activity Participation
DSTATWTS	A table that compares provides descriptive statistics for selected variables using three different weights: unweighted, weighted by the simple NVEXPAND, and weighted by NVY=NVEXPAND/Y.	Table 7 Comparing Weighted and Unweighted Means for Selected Variables
CORALL	Correlation between variables for the full (NAC4 ALL) set of observations.	Table 8 Correlation ALL Data
TOP5CORR	Correlation between variables for the trimmed dataset (NAC4 TOP5) set	Table 9 Correlation TOP5 Data
ALLRESULTS	Complete regression results for the region-activities analyzed based on the full set of observations. Values in parentheses are t-statistics.	Table 10 Regression Results ALL data
TOP5RESULTS	Complete set of regression results for the region-activities analyzed based on the trimmed dataset. Value in parentheses are t-stats.	Table 11 Regression Results TOP5 Data
NOTCINTALLRES	Complete set of regression results for the region-activities analyzed based on the untrimmed dataset. These models exclude all the travel cost interaction terms. Value in parentheses are t-stats.	Table 12 Regression Results ALL data: No Travel Cost Interactions
SULTS	Value in parentheses are t-stats.	
NOTCINTTOP5RESULTS	Complete set of regression results for the region-activities analyzed based on the trimmed dataset. These models exclude the travel cost interaction terms. Value in parentheses are t-stats.	Table 13 Regression Results TOP5 Data: No Travel Cost Interactions
ALLCSACTS	Consumer surplus results for each region-activity set based on the full set of observations.	Table 14 Consumer Surplus Values ALL Data
TOP5CSACTS	Consumer surplus results for each region-activity set based on the trimmed dataset.	Table 15 Consumer Surplus Results TOP5 Data
CIALL	90% confidence intervals around the reported consumer surplus values for each region-activity set based on the full set of observations.	Table 16 90% Confidence Intervals for Consumer Surplus ALL Data
CITOPS	90% confidence intervals around the reported consumer surplus values for each region-activity set based on the trimmed dataset.	Table 17 90% Confidence Interval around Consumer Surplus TOP5 Data

Notes

These models are based on the "NAC4" data set. Use 'nac4limu' or 'nac4limt' during estimation. This version incorporates D.B.K. English's Activity Days coding and the latest grouping of RPA activities (14 total). The substitute distance variable has been dropped from the vector of regressors. Since the PCMILER calculated

1 distances between zipcode and forest center (as defined by GNIS) are not being used in the regression (the substitute distance variable was correlated more than 95% with own distance) it can be used to fill in some of the missing distances (where the latitude and longitude were not available). ALL the travel cost variables are based on this combination distance variable.

2 The models use a dummy variable approach for the activities, and are run for each of the 4 RPA macro regions (Pacific, Rocky Mountain, North, South).

3 The models use a truncated negative binomial estimator weighted by NVY=NEXPAND/NFV12MO1. ALL descriptive statistics and regressions use this weight.

4 The consumer surplus values are given for per individual per visit and for per individual per activity day, where calendar days are counted in whole integers. The calculation and construction of these and the RPA activity groupings were provided by D.B.K. English.

5 The consumer surplus values are calculated using the NEXPAND weight and values non-primary purpose visitors and foreign visitors with a zero consumer surplus value.

6 Three different travel cost variables were used: TCH uses on opportunity cost of time value; TCWH uses the IRS income data to value travel time (computed by PCMILER) at 1/3 the 'wage' rate; TCFW uses a flat wage rate of \$5.25 times the PCMILER calculated travel time.

7 The sheet labeled ACTIVITY DESCRIPTION provides a detailed description of the activities used in this analysis as drawn from RPA research.

8 The ALLRESULTS tab contains all three travel cost models for each of the four regions presented side by side for comparision. The base elasticity measures are provided at the bottom of the table. The values in the table are of the form (coefficient/tstat), so that the t-statistic is in parentheses underneath the coefficient estimate. YHAT is the predicted trips based on the truncated negative binomial model weighted by NVY. This is calculated for each individual and the weighted mean taken. LRI is the likelihood ratio calculation comparing the restricted and unrestricted log likelihoods.

9 The CSACTS tabs provides the Activity Based CS values both on a per individual per visit and per individual per day value. These are calculated for each individual and the weighted mean for the sample reported.

10 If a cell=1 it is a replacement value and means the observation is missing.

11 ALL endings are models run on the full 68,669 observations. TOP5 endings are models run on the data where the largest 5% of distance values were removed from the dataset, leaving 64,894 observations.

12 The two sheets labeled CIALL and CITOP5 provide 90% confidence intervals around the consumer surplus estimates. These are provided for all reported values. Please note that in the CS results tables, the CS values were replaced by the base case consumer surplus value (no travel cost interaction) if the travel cost interaction term was insignificant, if the value was less than \$0, or if the value was greater than \$500. In the CI table, the values were not replaced. So, for the activity CS values where the value was repalced, the CI table will show the non-replacement CS value.

Table 1 Description of Activities

Activity	Aggregation/Coding	Description
CAMP	IF CAMPING7=1 OR RESORT7=1 THEN CAMP=1; ELSE CAMP =0;	Camping or resort stay on the forest
DRIVE	IF DRIVING7=1 OR H2OMOTR7=1 OR OTHMOTR7=1 OR SITESEE7=1 THEN DRIVE=1; ELSE DRIVE=0;	Motorized recreation, including: driving, motor-boating, site seeing, and other motorized activities (excluding off- highway vehicle use)
FISH	IF FISHING7=1 THEN FISH=1; ELSE FISH=0;	Fishing.
GENERAL	IF GENERAL7=1 THEN GENERAL=1; ELSE GENERAL=0;	Generalized recreation, including: hanging out, swimming, and non-specific forest recreation
HIKE	IF HIKE7=1 THEN HIKE=1; ELSE HIKE=0;	Hiking
HUNT	IF HUNTING7=1 THEN HUNT=1; ELSE HUNT=0;	Hunting
NATURE	IF GATHER7=1 OR HISTORY7=1 OR NATCENT7=1 OR NATSTUD7=1 THEN NATURE=1; ELSE NATURE=0;	Nature based activities, including: special forest product gathering, historical site visit, nature center visit, and nature study
OHVUSE	IF OHVUSE7=1 THEN OHVUSE=1; ELSE OHVUSE=0;	Off-Highway Vehicle (OHV) activities, including: three/four wheelers, and motorcycles
PCAMP	IF PCAMP7=1 OR BPACK7=1 THEN PCAMP=1; ELSE PCAMP =0;	Primitive Camping, including: primitive camping (undeveloped sites), and backpacking (typicALLY with overnight stays, backcountry activities)
PICNIC	IF PICNIC7=1 THEN PICNIC=1; ELSE PICNIC=0;	Picnicking
SKI	IF DOWNSKI7=1 OR XCSKI7=1 THEN SKI=1; ELSE SKI =0;	Skiing, including downhill and cross country
SNOWMOB	IF SNOWMOB7=1 THEN SNOWMOB=1; ELSE SNOWMOB=0;	Snowmobiling
TRAIL	IF BIKING7=1 OR HORSE7=1 OR H2ONMOT7=1 THEN TRAIL=1; ELSE TRAIL=0;	Trail use, including: bicycling, horseback riding, and non-motorized water activities such as canoeing
VIEW	IF VIEWNAT7=1 OR VIEWWLD7=1 OR VIEWOFF7=1 THEN VIEW =1; ELSE VIEW=0;	Viewing activities, including: nature viewing, and off-site viewing, wildlife viewing

Table 2 Region Description

RPA REG	RPA REG NAME	REGION	REGION NAME
1	Pacific	5	Pacific Southwest
1	Pacific	6	Pacific Northwest
1	Pacific	10	Alaska
2	Rocky Mountain	1	Northern
2	Rocky Mountain	2	Rocky Mountain
2	Rocky Mountain	3	Southwestern
2	Rocky Mountain	4	Intermountain
3	North	9	Eastern
4	South	8	Southern

Table 3 Trimmed Observations

Reject	Start Obs	End Obs	Difference	% Base	% Remaining
Raw NVUM	90,542	90,542	0	0.000%	100.000%
Delete Alaska	90,542	88,744	1,798	1.986%	98.014%
Delete Puerto Rico	90,542	90,048	494	0.546%	99.454%
Non-Primary Purpose Trips	90,542	89,028	1,514	1.672%	98.328%
Foreign Visitors	90,542	89,207	1,335	1.474%	98.526%
Base Data: Delete AK=1, PR=1, Prime=0, Foreign=1	90,542	85,706	4,836	5.341%	94.659%
NVUM Base Data	85,707	85,707	0	0.000%	100.000%
If Distance Blank, Delete	85,707	72,806	12,901	15.052%	84.948%
If Visits Blank, Delete	85,707	75,491	10,216	11.920%	88.080%
If Distance or Visits Blank, Delete	85,707	72,376	13,331	15.554%	84.446%
If Visits>52 and Distance>720, Delete	72,376	72,305	71	0.098%	99.902%
If Overnite (1=Yes, 0=No) Blank, Delete	72,305	71,517	788	1.090%	98.910%
If Gender (Female=1, Male=0) Blank, Delete	72,305	71,547	758	1.048%	98.952%
If Groupsize was more than 10 (PEOPVEH>10), Delete	72,305	71,817	488	0.675%	99.325%
Trimmed dataset including PRIME=0 and FOREIGN=1, for use in the CS calculations and the total visits/expansion values	90,542	77,373	13,169	14.545%	85.455%
If ACT was missing (ACTOK=.)	88,745	70,303	18,442	20.781%	79.219%
TOP5% of distance trimmed (PRACTD1S>1250)	68,683	64,901	3,782	5.506%	94.494%
Total Trimmed (exclusive of greatest 5% PRACTD1S trimmed; including 14 trimmed income observations)	90,542	68,669	21,873	24.158%	75.842%
Total Trimmed (including greatest 5% PRACTD1S trimmed, including 7 trimmed income observations)	90,542	64,894	25,648	28.327%	71.673%

Table 4 Descriptive Statistics ALL Data*

Variable	Description	National						
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
AGE	Age of respondent; median of age classes used	43.989	13.653	0.156	2.302	18	75	68,669
GENDER1	If female, then GENDER1=1; Else 0	0.300	0.458	0.872	1.760	0	1	68,669
HF	If NFV12MO1>15, HF=1; Else 0	0.050	0.219	4.108	17.877	0	1	68,669
INCES	IRS Average After Tax Income Per Zip Code	2.884	1.528	4.526	43.025	0	25	68,669
ONITE	If stayed overnight on National Forest=1; Else 0	0.225	0.417	1.318	2.737	0	1	68,669
PEOPVEH	Number of People in Vehicle on surveyed visit	2.090	1.151	1.866	8.578	1	10	68,669
PRACTD1S	One way distance from zip code of origin to National Forest site/GNIS centroid	475.611	694.661	2.278	8.755	0.000	7000	68,669
TCFWH	Travel cost variable with opportunity cost of time valued at a flat \$5.25/per hour. TCFWH=(.12*2*practd1s)+((5.25)*2 *TIME2)+recfees	206.513	292.945	2.356	9.767	0	4,289	68,669
TCH	Travel cost variable with no opportunity cost of time included. TCH=(.12*2*practd1s)+recfees	117.235	170.649	2.341	9.574	0	4,244	68,669
TCWH	Travel cost variable with opportunity cost valued at 1/3 the income-based wage rate TCWH=(.12*2*practd1s)+(.3333*(I NCE/2000))*2*TIME2)+recfees	207.519	313.865	2.778	13.505	0	4,291	68,669
Y	National Forest Visits in the Past 12 Months (NFV12MO+1)	4.304	12.375	13.410	270.064	1	365	68,669

Table 4 Descriptive Statistics ALL Data*

Variable	Description	National						
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
CAMP**	IF CAMPING7=1 OR RESORT7=1 THEN CAMP=1; ELSE CAMP =0;	0.075	0.264	3.218	11.355	0	1	68,669
DRIVE	IF DRIVING7=1 OR H2OMOTR7=1 OR OTHMOTR7=1 OR SITESEE7=1 THEN DRIVE=1; ELSE DRIVE=0;	0.077	0.266	3.183	11.129	0	1	68,669
FISH	IF FISHING7=1 THEN FISH=1; ELSE FISH=0;	0.082	0.274	3.058	10.354	0	1	68,669
GENERAL	IF GENERAL7=1 THEN GENERAL=1; ELSE GENERAL=0;	0.112	0.316	2.458	7.040	0	1	68,669
HIKE	IF HIKE7=1 THEN HIKE=1; ELSE HIKE=0;	0.159	0.366	1.866	4.480	0	1	68,669
HUNT	IF HUNTING7=1 THEN HUNT=1; ELSE HUNT=0;	0.081	0.273	3.071	10.431	0	1	68,669
NATURE	IF GATHER7=1 OR HISTORY7=1 OR NATCENT7=1 OR NATSTUD7=1 THEN NATURE=1; ELSE NATURE=0;	0.039	0.194	4.745	23.517	0	1	68,669
OHVUSE	IF OHVUSE7=1 THEN OHVUSE=1; ELSE OHVUSE=0;	0.029	0.166	5.665	33.088	0	1	68,669
PCAMP	IF PCAMP7=1 OR BPACK7=1 THEN PCAMP=1; ELSE PCAMP =0;	0.037	0.188	4.922	25.228	0	1	68,669
PICNIC	IF PICNIC7=1 THEN PICNIC=1; ELSE PICNIC=0;	0.022	0.147	6.490	43.124	0	1	68,669
SKI	IF DOWNSKI7=1 OR XCSKI7=1 THEN SKI=1; ELSE SKI =0;	0.136	0.343	2.125	5.517	0	1	68,669

Table 4 Descriptive Statistics ALL Data*

Variable	Description	National						
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
SNOWMOB	IF SNOWMOB7=1 THEN SNOWMOB=1; ELSE SNOWMOB=0;	0.013	0.113	8.650	75.830	0	1	68,669
TRAIL	IF BIKING7=1 OR HORSE7=1 OR H2ONMOT7=1 THEN TRAIL=1; ELSE TRAIL=0;	0.042	0.200	4.577	21.952	0	1	68,669
VIEW	IF VIEWNAT7=1 OR VIEWWLD7=1 OR VIEWOFF7=1 THEN VIEW =1; ELSE VIEW=0;	0.133	0.339	2.168	5.699	0	1	68,669

Table 4 Descriptive Statistics ALL Data*

Variable	Description	National						
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
TCCAMP	TCCAMP=TCH*CAMP	6.730	41.893	10.065	135.421	0	2,007	68,669
TCDRIVE	TCDRIVE=TCH*DRIVE	9.200	57.159	8.573	86.939	0	1,464	68,669
TCFISH	TCFISH=TCH*FISH	6.143	38.127	10.408	145.710	0	1,601	68,669
TCGEN	TCGEN=TCH*GENERAL	9.925	53.586	9.008	103.464	0	1,200	68,669
TCHIKE	TCHIKE=TCH*HIKE	19.700	82.981	6.003	44.802	0	1,457	68,669
TCHUNT	TCHUNT=TCH*HUNT	4.631	27.684	10.964	167.831	0	1,055	68,669
TCNAT	TCNAT=TCH*NATURE	5.281	43.927	12.285	193.363	0	1,680	68,669
TCOHV	TCOHV=TCH*OHVUSE	2.923	35.079	17.214	326.009	0	768	68,669
TCPCAMP	TCPCAMP=TCH*PCAMP	3.615	32.789	15.192	296.068	0	1,235	68,669
TCPICNIC	TCPICNIC=TCH*PICNIC	1.450	20.156	22.430	606.679	0	1,521	68,669
TCSKI	TCSKI=TCH*SKI	25.020	101.608	5.877	47.869	0	4,244	68,669
TCSNOWMB	TCSNOWMB=TCH*SNOWMOB	1.120	17.464	25.094	879.251	0	1,609	68,669
TCTRAIL	TCTRAIL=TCH*TRAIL	4.857	39.647	11.498	167.635	0	2,506	68,669
TCVIEW	TCVIEW=TCH*VIEW	21.427	90.225	5.658	40.585	0	1,542	68,669

Table 4 Descriptive Statistics ALL Data*

Variable	Description	National						
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
TCWCAMP	TCWCAMP=TCWH*CAMP	11.270	69.121	10.241	143.201	0	2,703	68,669
TCWDRIVE	TCWDRIVE=TCWH*DRIVE	15.591	97.040	8.931	99.040	0	2,385	68,669
TCWFISH	TCWFISH=TCWH*FISH	10.331	64.648	11.669	213.392	0	3,320	68,669
TCWGEN	TCWGEN=TCWH*GENERAL	17.735	98.325	9.706	123.308	0	2,637	68,669
TCWHIKE	TCWHIKE=TCWH*HIKE	34.968	148.193	6.232	49.131	0	2,728	68,669
TCWHUNT	TCWHUNT=TCWH*HUNT	7.740	46.127	11.934	234.035	0	1,749	68,669
TCWNAT	TCWNAT=TCWH*NATURE	9.588	93.098	20.035	557.495	0	3,100	68,669
TCWOHV	TCWOHV=TCWH*OHVUSE	4.625	53.316	16.901	319.861	0	1,532	68,669
TCWPCAMP	TCWPCAMP=TCWH*PCAMP	6.225	55.183	14.780	279.035	0	1,751	68,669
TCWPIC	TCWPIC=TCWH*PICNIC	2.510	37.343	27.834	1,055.000	0	2,609	68,669
TCWSKI	TCWSKI=TCWH*SKI	47.166	194.749	5.934	45.472	0	4,291	68,669
TCWSNWMB	TCWSNWMB=TCWH*SNOWMOB	1.917	30.349	26.157	935.363	0	2,676	68,669
TCWTRAIL	TCWTRAIL=TCWH*TRAIL	9.059	76.494	13.091	230.563	0	3,055	68,669
TCWVIEW	TCWVIEW=TCWH*VIEW	37.075	159.413	6.321	54.445	0	3,232	68,669

Table 4 Descriptive Statistics ALL Data*

Variable	Description	National						
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
TCFWCAMP	TCFWCAMP=TCFWH*CAMP	11.950	72.982	9.946	128.234	0	2,014	68,669
TCFWDRVE	TCFWDRVE=TCFWH*DRIVE	16.337	100.246	8.624	89.387	0	2,724	68,669
TCFWFISH	TCFWFISH=TCFWH*FISH	11.021	66.729	10.295	147.658	0	3,002	68,669
TCFWGEN	TCFWGEN=TCFWH*GENERAL	18.001	95.107	8.999	106.698	0	2,250	68,669
TCFWHIKE	TCFWHIKE=TCFWH*HIKE	35.004	145.718	6.094	47.568	0	2,732	68,669
TCFWHUNT	TCFWHUNT=TCFWH*HUNT	8.576	49.471	10.246	146.753	0	1,485	68,669
TCFWNAT	TCFWNAT=TCFWH*NATURE	9.333	76.924	12.601	212.179	0	3,150	68,669
TCFWOHV	TCFWOHV=TCFWH*OHVUSE	5.015	58.553	17.478	342.889	0	1,307	68,669
TCFWPCMP	TCFWPCMP=TCFWH*PCAMP	6.497	57.811	15.242	306.845	0	1,800	68,669
TCFWPIC	TCFWPIC=TCFWH*PICNIC	2.640	35.907	22.076	582.660	0	1,861	68,669
TCFWSKI	TCFWSKI=TCFWH*SKI	42.837	170.569	5.678	44.187	0	4,289	68,669
TCFWSNWM	TCFWSNWM=TCFWH*SNOWMOB	2.026	30.919	25.387	946.526	0	2,995	68,669
TCFWTRL	TCFWTRL=TCFWH*TRAIL	8.551	68.762	11.589	177.761	0	2,925	68,669
TCFWVIEW	TCFWVIEW=TCFWH*VIEW	37.598	157.143	5.796	44.201	0	2,891	68,669

*ALL currently available observations, stratified by RPA region and

weighted by the composite weight

NVY=NEXPAND/NFV12MO1; **Please see sheet labeled

Table 4 Descriptive Statistics ALL Data*

Variable	Description	Pacific						
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
AGE	Age of respondent; median of age classes used	44.049	13.321	0.154	2.355	18	75	24,202
GENDER1	If female, then GENDER1=1; Else 0	0.335	0.472	0.697	1.486	0	1	24,202
HF	If NFV12MO1>15, HF=1; Else 0	0.040	0.195	4.718	23.257	0	1	24,202
INCES	IRS Average After Tax Income Per Zip Code	3.071	1.578	3.707	28.273	0	25	24,202
ONITE	If stayed overnight on National Forest=1; Else 0	0.268	0.443	1.049	2.101	0	1	24,202
PEOPVEH	Number of People in Vehicle on surveyed visit	2.103	1.142	1.796	8.074	1	10	24,202
PRACTD1S	One way distance from zip code of origin to National Forest site/GNIS centroid	505.745	822.318	2.275	7.257	0	6,378	24,202
TCFWH	Travel cost variable with opportunity cost of time valued at a flat \$5.25/per hour. TCFWH=(.12*2*practd1s)+((5.25)*2 *TIME2)+recfees	222.096	345.518	2.294	7.695	0	4,289	24,202
TCH	Travel cost variable with no opportunity cost of time included. TCH=(.12*2*practd1s)+recfees	124.742	198.420	2.240	7.280	0	4,244	24,202
TCWH	Travel cost variable with opportunity cost valued at 1/3 the income-based wage rate TCWH=(.12*2*practd1s)+(.3333*(I NCE/2000))*2*TIME2)+recfees	227.261	372.491	2.790	12.436	0	4,291	24,202
Y	National Forest Visits in the Past 12 Months (NFV12MO+1)	3.823	10.798	14.627	330.968	1	365	24,202

Table 4 Descriptive Statistics ALL Data*

Pacific								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
CAMP**	IF CAMPING7=1 OR RESORT7=1 THEN CAMP=1; ELSE CAMP =0;	0.074	0.262	3.243	11.516	0	1	24,202
DRIVE	IF DRIVING7=1 OR H2OMOTR7=1 OR OTHMOTR7=1 OR SITESEE7=1 THEN DRIVE=1; ELSE DRIVE=0;	0.074	0.262	3.247	11.544	0	1	24,202
FISH	IF FISHING7=1 THEN FISH=1; ELSE FISH=0;	0.076	0.265	3.203	11.261	0	1	24,202
GENERAL	IF GENERAL7=1 THEN GENERAL=1; ELSE GENERAL=0;	0.122	0.327	2.313	6.351	0	1	24,202
HIKE	IF HIKE7=1 THEN HIKE=1; ELSE HIKE=0;	0.143	0.350	2.037	5.151	0	1	24,202
HUNT	IF HUNTING7=1 THEN HUNT=1; ELSE HUNT=0;	0.047	0.211	4.285	19.364	0	1	24,202
NATURE	IF GATHER7=1 OR HISTORY7=1 OR NATCENT7=1 OR NATSTUD7=1 THEN NATURE=1; ELSE NATURE=0;	0.031	0.175	5.366	29.794	0	1	24,202
OHVUSE	IF OHVUSE7=1 THEN OHVUSE=1; ELSE OHVUSE=0;	0.030	0.170	5.545	31.742	0	1	24,202
PCAMP	IF PCAMP7=1 OR BPACK7=1 THEN PCAMP=1; ELSE PCAMP =0;	0.035	0.184	5.055	26.555	0	1	24,202
PICNIC	IF PICNIC7=1 THEN PICNIC=1; ELSE PICNIC=0;	0.017	0.129	7.463	56.695	0	1	24,202
SKI	IF DOWNSKI7=1 OR XCSKI7=1 THEN SKI=1; ELSE SKI =0;	0.182	0.386	1.646	3.708	0	1	24,202

Table 4 Descriptive Statistics ALL Data*

Variable	Description	Pacific						Nobs
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	
SNOWMOB	IF SNOWMOB7=1 THEN SNOWMOB=1; ELSE SNOWMOB=0;	0.004	0.066	15.049	227.483	0	1	24,202
TRAIL	IF BIKING7=1 OR HORSE7=1 OR H2ONMOT7=1 THEN TRAIL=1; ELSE TRAIL=0;	0.039	0.194	4.740	23.469	0	1	24,202
VIEW	IF VIEWNAT7=1 OR VIEWWLD7=1 OR VIEWOFF7=1 THEN VIEW =1; ELSE VIEW=0;	0.130	0.336	2.202	5.848	0	1	24,202

Table 4 Descriptive Statistics ALL Data*

Variable	Description	Pacific						
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
TCCAMP	TCCAMP=TCH*CAMP	5.245	38.202	14.201	244.705	0	960	24,202
TCDRIVE	TCDRIVE=TCH*DRIVE	9.073	60.940	9.274	95.670	0	1,125	24,202
TCFISH	TCFISH=TCH*FISH	4.134	31.435	16.779	335.521	0	788	24,202
TCGEN	TCGEN=TCH*GENERAL	11.490	63.818	8.514	83.229	0	1,080	24,202
TCHIKE	TCHIKE=TCH*HIKE	19.159	88.530	6.019	41.119	0	1,200	24,202
TCHUNT	TCHUNT=TCH*HUNT	1.881	13.415	23.653	1,093.660	0	792	24,202
TCNAT	TCNAT=TCH*NATURE	5.335	52.069	12.479	175.759	0	1,416	24,202
TCOHV	TCOHV=TCH*OHVUSE	5.775	56.202	11.714	143.957	0	768	24,202
TCPCAMP	TCPCAMP=TCH*PCAMP	4.189	38.596	15.897	313.856	0	960	24,202
TCPICNIC	TCPICNIC=TCH*PICNIC	1.312	21.369	24.734	687.698	0	742	24,202
TCSKI	TCSKI=TCH*SKI	29.630	114.156	5.120	31.119	0	4,244	24,202
TCSNOWMB	TCSNOWMB=TCH*SNOWMOB	0.227	6.224	54.992	3,592.260	0	423	24,202
TCTRAIL	TCTRAIL=TCH*TRAIL	2.649	23.330	17.672	408.679	0	960	24,202
TCVIEW	TCVIEW=TCH*VIEW	24.625	112.897	5.716	38.192	0	1,531	24,202

Table 4 Descriptive Statistics ALL Data*

Pacific								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
TCWCAMP	TCWCAMP=TCWH*CAMP	9.443	67.974	13.999	245.353	0	2,703	24,202
TCWDRIVE	TCWDRIVE=TCWH*DRIVE	15.444	101.979	9.255	97.162	0	2,353	24,202
TCWFISH	TCWFISH=TCWH*FISH	7.332	53.631	16.024	315.690	0	1,660	24,202
TCWGEN	TCWGEN=TCWH*GENERAL	21.294	117.436	8.925	98.689	0	2,360	24,202
TCWHIKE	TCWHIKE=TCWH*HIKE	34.362	159.455	6.401	48.647	0	2,485	24,202
TCWHUNT	TCWHUNT=TCWH*HUNT	3.222	21.838	18.329	664.307	0	1,104	24,202
TCWNAT	TCWNAT=TCWH*NATURE	11.455	133.313	18.282	390.549	0	3,100	24,202
TCWOHV	TCWOHV=TCWH*OHVUSE	8.535	81.550	12.080	155.775	0	1,322	24,202
TCWPCAMP	TCWPCAMP=TCWH*PCAMP	7.210	62.770	15.015	288.500	0	1,751	24,202
TCWPIC	TCWPIC=TCWH*PICNIC	2.322	38.793	26.510	826.837	0	1,657	24,202
TCWSKI	TCWSKI=TCWH*SKI	56.537	221.805	5.464	35.073	0	4,291	24,202
TCWSNWMB	TCWSNWMB=TCWH*SNOWMOB	0.440	12.435	54.671	3,522.820	0	840	24,202
TCWTRAIL	TCWTRAIL=TCWH*TRAIL	5.231	46.479	18.822	511.124	0	2,702	24,202
TCWVIEW	TCWVIEW=TCWH*VIEW	44.025	203.556	6.201	47.920	0	3,232	24,202

Table 4 Descriptive Statistics ALL Data*

Variable	Description	Pacific						
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
TCFWCAMP	TCFWCAMP=TCFWH*CAMP	9.694	69.982	14.198	246.262	0	1,800	24,202
TCFWDRVE	TCFWDRVE=TCFWH*DRIVE	16.370	108.179	9.263	96.602	0	2,109	24,202
TCFWFISH	TCFWFISH=TCFWH*FISH	7.603	54.575	15.868	307.580	0	1,438	24,202
TCFWGEN	TCFWGEN=TCFWH*GENERAL	20.717	113.072	8.553	85.393	0	2,025	24,202
TCFWHIKE	TCFWHIKE=TCFWH*HIKE	34.332	156.102	5.998	41.383	0	2,250	24,202
TCFWHUNT	TCFWHUNT=TCFWH*HUNT	3.648	25.349	22.557	1,028.790	0	1,485	24,202
TCFWNAT	TCFWNAT=TCFWH*NATURE	9.508	92.002	12.740	188.499	0	2,655	24,202
TCFWOHV	TCFWOHV=TCFWH*OHVUSE	9.494	91.905	12.278	160.568	0	1,307	24,202
TCFWPCMP	TCFWPCMP=TCFWH*PCAMP	7.654	69.720	16.009	322.916	0	1,800	24,202
TCFWPIC	TCFWPIC=TCFWH*PICNIC	2.415	38.792	24.569	677.012	0	1,350	24,202
TCFWSKI	TCFWSKI=TCFWH*SKI	51.806	197.816	5.138	30.410	0	4,289	24,202
TCFWSNWM	TCFWSNWM=TCFWH*SNOWMOB	0.426	11.020	51.856	3,272.390	0	731	24,202
TCFWTRL	TCFWTRL=TCFWH*TRAIL	4.879	41.275	16.635	370.060	0	1,800	24,202
TCFWVIEW	TCFWVIEW=TCFWH*VIEW	43.719	198.889	5.843	41.156	0	2,870	24,202

*ALL currently available observations, stratified by RPA region and

weighted by the composite weight

NVY=NEXPAND/NFV12MO1; **Please see sheet labeled

Table 4 Descriptive Statistics ALL Data*

Variable	Description	Rocky Mtn.						Nobs
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	
AGE	Age of respondent; median of age classes used	43.812	13.717	0.140	2.278	18	75	31,209
GENDER1	If female, then GENDER1=1; Else 0	0.300	0.458	0.871	1.759	0	1	31,209
HF	If NFV12MO1>15, HF=1; Else 0	0.050	0.217	4.142	18.156	0	1	31,209
INCES	IRS Average After Tax Income Per Zip Code	2.933	1.610	5.105	51.952	0	25	31,209
ONITE	If stayed overnight on National Forest=1; Else 0	0.207	0.405	1.449	3.100	0	1	31,209
PEOPVEH	Number of People in Vehicle on surveyed visit	2.130	1.213	1.875	8.550	1	10	31,209
PRACTD1S	One way distance from zip code of origin to National Forest site/GNIS centroid	558.479	690.409	1.733	7.291	0	7,000	31,209
TCFWH	Travel cost variable with opportunity cost of time valued at a flat \$5.25/per hour. TCFWH=(.12*2*practd1s)+((5.25)*2 *TIME2)+recfees	240.915	293.303	1.884	8.789	0	3,150	31,209
TCH	Travel cost variable with no opportunity cost of time included. TCH=(.12*2*practd1s)+recfees	137.847	172.941	1.940	9.015	0	2,007	31,209
TCWH	Travel cost variable with opportunity cost valued at 1/3 the income-based wage rate TCWH=(.12*2*practd1s)+(.3333*(INCE/2000))*2*TIME2)+recfees	242.541	315.522	2.142	9.677	0	3,320	31,209
Y	National Forest Visits in the Past 12 Months (NFV12MO+1)	4.257	12.667	13.288	260.287	1	365	31,209

Table 4 Descriptive Statistics ALL Data*

Rocky Mtn.								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
CAMP**	IF CAMPING7=1 OR RESORT7=1 THEN CAMP=1; ELSE CAMP =0;	0.072	0.259	3.311	11.962	0	1	31,209
DRIVE	IF DRIVING7=1 OR H2OMOTR7=1 OR OTHMOTR7=1 OR SITESEE7=1 THEN DRIVE=1; ELSE DRIVE=0;	0.077	0.266	3.181	11.120	0	1	31,209
FISH	IF FISHING7=1 THEN FISH=1; ELSE FISH=0;	0.070	0.255	3.370	12.356	0	1	31,209
GENERAL	IF GENERAL7=1 THEN GENERAL=1; ELSE GENERAL=0;	0.112	0.316	2.456	7.032	0	1	31,209
HIKE	IF HIKE7=1 THEN HIKE=1; ELSE HIKE=0;	0.166	0.372	1.796	4.226	0	1	31,209
HUNT	IF HUNTING7=1 THEN HUNT=1; ELSE HUNT=0;	0.095	0.293	2.762	8.629	0	1	31,209
NATURE	IF GATHER7=1 OR HISTORY7=1 OR NATCENT7=1 OR NATSTUD7=1 THEN NATURE=1; ELSE NATURE=0;	0.032	0.176	5.321	29.317	0	1	31,209
OHVUSE	IF OHVUSE7=1 THEN OHVUSE=1; ELSE OHVUSE=0;	0.027	0.162	5.828	34.968	0	1	31,209
PCAMP	IF PCAMP7=1 OR BPACK7=1 THEN PCAMP=1; ELSE PCAMP =0;	0.031	0.173	5.432	30.506	0	1	31,209
PICNIC	IF PICNIC7=1 THEN PICNIC=1; ELSE PICNIC=0;	0.022	0.145	6.589	44.419	0	1	31,209
SKI	IF DOWNSKI7=1 OR XCSKI7=1 THEN SKI=1; ELSE SKI =0;	0.150	0.357	1.965	4.860	0	1	31,209

Table 4 Descriptive Statistics ALL Data*

Rocky Mtn.								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
SNOWMOB	IF SNOWMOB7=1 THEN SNOWMOB=1; ELSE SNOWMOB=0;	0.014	0.119	8.180	67.907	0	1	31,209
TRAIL	IF BIKING7=1 OR HORSE7=1 OR H2ONMOT7=1 THEN TRAIL=1; ELSE TRAIL=0;	0.048	0.213	4.248	19.044	0	1	31,209
VIEW	IF VIEWNAT7=1 OR VIEWWLD7=1 OR VIEWOFF7=1 THEN VIEW =1; ELSE VIEW=0;	0.138	0.345	2.101	5.416	0	1	31,209

Table 4 Descriptive Statistics ALL Data*

Variable	Description	Rocky Mtn.						Nobs
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	
TCCAMP	TCCAMP=TCH*CAMP	7.026	42.727	9.282	123.399	0	2,007	31,209
TCDRIVE	TCDRIVE=TCH*DRIVE	10.805	60.864	7.221	63.525	0	1,464	31,209
TCFISH	TCFISH=TCH*FISH	7.865	47.059	8.076	86.603	0	1,601	31,209
TCGEN	TCGEN=TCH*GENERAL	11.233	53.052	8.001	94.055	0	1,200	31,209
TCHIKE	TCHIKE=TCH*HIKE	22.534	89.360	5.476	38.930	0	1,058	31,209
TCHUNT	TCHUNT=TCH*HUNT	7.628	38.356	8.028	85.983	0	1,055	31,209
TCNAT	TCNAT=TCH*NATURE	4.745	40.446	11.792	194.405	0	1,680	31,209
TCOHV	TCOHV=TCH*OHVUSE	1.968	22.197	16.506	324.304	0	648	31,209
TCPCAMP	TCPCAMP=TCH*PCAMP	2.594	26.118	16.641	348.065	0	1,235	31,209
TCPICNIC	TCPICNIC=TCH*PICNIC	1.723	22.720	19.118	441.180	0	1,521	31,209
TCSKI	TCSKI=TCH*SKI	33.484	115.090	5.121	40.896	0	1,440	31,209
TCSNOWMB	TCSNOWMB=TCH*SNOWMOB	1.798	24.242	19.095	498.238	0	1,609	31,209
TCTRAIL	TCTRAIL=TCH*TRAIL	8.079	54.523	8.455	89.487	0	1,560	31,209
TCVIEW	TCVIEW=TCH*VIEW	24.396	88.463	4.264	22.292	0	1,542	31,209

Table 4 Descriptive Statistics ALL Data*

Variable	Description	Rocky Mtn.						Nobs
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	
TCWCAMP	TCWCAMP=TCWH*CAMP	11.724	70.628	9.289	116.157	0	2,415	31,209
TCWDRIVE	TCWDRIVE=TCWH*DRIVE	18.478	105.815	7.944	83.356	0	2,385	31,209
TCWFISH	TCWFISH=TCWH*FISH	13.113	79.904	9.559	150.142	0	3,320	31,209
TCWGEN	TCWGEN=TCWH*GENERAL	19.619	95.190	8.476	103.586	0	2,637	31,209
TCWHIKE	TCWHIKE=TCWH*HIKE	40.165	159.215	5.460	38.303	0	2,728	31,209
TCWHUNT	TCWHUNT=TCWH*HUNT	12.726	64.058	8.961	128.962	0	1,749	31,209
TCWNAT	TCWNAT=TCWH*NATURE	7.973	69.583	12.687	228.708	0	3,005	31,209
TCWOHV	TCWOHV=TCWH*OHVUSE	3.506	39.726	16.881	347.231	0	1,532	31,209
TCWPCAMP	TCWPCAMP=TCWH*PCAMP	4.399	44.387	16.807	351.702	0	1,644	31,209
TCWPIC	TCWPIC=TCWH*PICNIC	3.027	43.300	25.525	911.695	0	2,609	31,209
TCWSKI	TCWSKI=TCWH*SKI	62.589	218.800	4.960	34.955	0	2,637	31,209
TCWSNWMB	TCWSNWMB=TCWH*SNOWMOB	3.012	41.750	20.135	542.151	0	2,676	31,209
TCWTRAIL	TCWTRAIL=TCWH*TRAIL	14.930	105.237	9.737	126.053	0	3,055	31,209
TCWVIEW	TCWVIEW=TCWH*VIEW	41.517	153.520	4.802	31.434	0	2,584	31,209

Table 4 Descriptive Statistics ALL Data*

Rocky Mtn.								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
TCFWCAMP	TCFWCAMP=TCFWH*CAMP	12.440	73.523	8.699	94.975	0	2,014	31,209
TCFWDRVE	TCFWDRVE=TCFWH*DRIVE	18.992	106.184	7.297	66.094	0	2,724	31,209
TCFWFISH	TCFWFISH=TCFWH*FISH	13.949	82.560	8.196	93.440	0	3,002	31,209
TCFWGEN	TCFWGEN=TCFWH*GENERAL	20.610	95.320	8.005	98.634	0	2,250	31,209
TCFWHIKE	TCFWHIKE=TCFWH*HIKE	39.952	157.196	5.666	43.416	0	1,800	31,209
TCFWHUNT	TCFWHUNT=TCFWH*HUNT	14.034	68.258	7.447	72.750	0	1,377	31,209
TCFWNAT	TCFWNAT=TCFWH*NATURE	8.291	70.331	12.149	220.729	0	3,150	31,209
TCFWOHV	TCFWOHV=TCFWH*OHVUSE	3.620	40.157	16.386	325.726	0	1,215	31,209
TCFWPCMP	TCFWPCMP=TCFWH*PCAMP	4.690	45.598	15.692	306.970	0	1,672	31,209
TCFWPIC	TCFWPIC=TCFWH*PICNIC	3.124	40.051	18.480	403.139	0	1,861	31,209
TCFWSKI	TCFWSKI=TCFWH*SKI	56.543	188.831	4.773	36.896	0	2,700	31,209
TCFWSNWM	TCFWSNWM=TCFWH*SNOWMOB	3.197	42.798	19.508	544.771	0	2,995	31,209
TCFWTRL	TCFWTRL=TCFWH*TRAIL	14.065	94.388	8.625	98.189	0	2,925	31,209
TCFWVIEW	TCFWVIEW=TCFWH*VIEW	42.343	152.166	4.289	23.159	0	2,891	31,209

*ALL currently available observations, stratified by RPA region and

weighted by the composite weight

NVY=NEXPAND/NFV12MO1; **Please see sheet labeled

Table 4 Descriptive Statistics ALL Data*

Northern								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
AGE	Age of respondent; median of age classes used	43.662	13.762	0.262	2.393	18	75	7,071
GENDER1	If female, then GENDER1=1; Else 0	0.256	0.436	1.121	2.256	0	1	7,071
HF	If NFV12MO1>15, HF=1; Else 0	0.063	0.243	3.595	13.921	0	1	7,071
INCES	IRS Average After Tax Income Per Zip Code	2.824	1.482	3.932	31.176	1	22	7,071
ONITE	If stayed overnight on National Forest=1; Else 0	0.209	0.407	1.431	3.048	0	1	7,071
PEOPVEH	Number of People in Vehicle on surveyed visit	2.050	1.047	1.767	8.400	1	10	7,071
PRACTD1S	One way distance from zip code of origin to National Forest site/GNIS centroid	286.721	448.403	3.840	20.626	0	6,070	7,071
TCFWH	Travel cost variable with opportunity cost of time valued at a flat \$5.25/per hour. TCFWH=(.12*2*practd1s)+((5.25)*2 *TIME2)+recfees	126.204	184.700	3.739	20.401	0	2,732	7,071
TCH	Travel cost variable with no opportunity cost of time included. TCH=(.12*2*practd1s)+recfees	70.520	108.597	3.787	20.401	0	2,506	7,071
TCWH	Travel cost variable with opportunity cost valued at 1/3 the income-based wage rate TCWH=(.12*2*practd1s)+(.3333*(I NCE/2000))*2*TIME2)+recfees	123.798	187.703	4.231	27.265	0	2,711	7,071
Y	National Forest Visits in the Past 12 Months (NFV12MO+1)	4.831	12.986	12.261	241.006	1	365	7,071

Table 4 Descriptive Statistics ALL Data*

Northern								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
CAMP**	IF CAMPING7=1 OR RESORT7=1 THEN CAMP=1; ELSE CAMP =0;	0.083	0.277	3.013	10.076	0	1	7,071
DRIVE	IF DRIVING7=1 OR H2OMOTR7=1 OR OTHMOTR7=1 OR SITESEE7=1 THEN DRIVE=1; ELSE DRIVE=0;	0.054	0.225	3.959	16.674	0	1	7,071
FISH	IF FISHING7=1 THEN FISH=1; ELSE FISH=0;	0.097	0.296	2.723	8.415	0	1	7,071
GENERAL	IF GENERAL7=1 THEN GENERAL=1; ELSE GENERAL=0;	0.073	0.260	3.293	11.841	0	1	7,071
HIKE	IF HIKE7=1 THEN HIKE=1; ELSE HIKE=0;	0.212	0.409	1.412	2.993	0	1	7,071
HUNT	IF HUNTING7=1 THEN HUNT=1; ELSE HUNT=0;	0.077	0.267	3.163	11.002	0	1	7,071
NATURE	IF GATHER7=1 OR HISTORY7=1 OR NATCENT7=1 OR NATSTUD7=1 THEN NATURE=1; ELSE NATURE=0;	0.036	0.186	4.975	25.752	0	1	7,071
OHVUSE	IF OHVUSE7=1 THEN OHVUSE=1; ELSE OHVUSE=0;	0.030	0.171	5.481	31.039	0	1	7,071
PCAMP	IF PCAMP7=1 OR BPACK7=1 THEN PCAMP=1; ELSE PCAMP =0;	0.053	0.223	4.007	17.059	0	1	7,071
PICNIC	IF PICNIC7=1 THEN PICNIC=1; ELSE PICNIC=0;	0.025	0.156	6.108	38.311	0	1	7,071
SKI	IF DOWNSKI7=1 OR XCSKI7=1 THEN SKI=1; ELSE SKI =0;	0.110	0.313	2.485	7.177	0	1	7,071

Table 4 Descriptive Statistics ALL Data*

Northern								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
SNOWMOB	IF SNOWMOB7=1 THEN SNOWMOB=1; ELSE SNOWMOB=0;	0.051	0.220	4.082	17.659	0	1	7,071
TRAIL	IF BIKING7=1 OR HORSE7=1 OR H2ONMOT7=1 THEN TRAIL=1; ELSE TRAIL=0;	0.032	0.175	5.346	29.575	0	1	7,071
VIEW	IF VIEWNAT7=1 OR VIEWWLD7=1 OR VIEWOFF7=1 THEN VIEW =1; ELSE VIEW=0;	0.132	0.339	2.170	5.708	0	1	7,071

Table 4 Descriptive Statistics ALL Data*

Variable	Description	Northern						
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
TCCAMP	TCCAMP=TCH*CAMP	6.962	44.242	10.350	119.433	0	720	7,071
TCDRIVE	TCDRIVE=TCH*DRIVE	5.027	38.724	10.925	153.024	0	1,440	7,071
TCFISH	TCFISH=TCH*FISH	4.107	18.629	9.968	190.018	0	603	7,071
TCGEN	TCGEN=TCH*GENERAL	4.930	29.078	10.832	150.059	0	624	7,071
TCHIKE	TCHIKE=TCH*HIKE	22.492	79.110	5.915	45.836	0	1,457	7,071
TCHUNT	TCHUNT=TCH*HUNT	2.744	13.696	9.203	154.972	0	528	7,071
TCNAT	TCNAT=TCH*NATURE	2.613	23.291	18.045	462.330	0	960	7,071
TCOHV	TCOHV=TCH*OHVUSE	1.185	8.135	8.407	82.053	0	157	7,071
TCPCAMP	TCPCAMP=TCH*PCAMP	4.813	37.308	11.788	155.515	0	600	7,071
TCPICNIC	TCPICNIC=TCH*PICNIC	0.723	7.094	25.543	1,106.260	0	420	7,071
TCSKI	TCSKI=TCH*SKI	5.607	27.409	17.865	528.999	0	1,056	7,071
TCSNOWMB	TCSNOWMB=TCH*SNOWMOB	2.387	16.236	13.509	264.984	0	548	7,071
TCTRAIL	TCTRAIL=TCH*TRAIL	1.620	13.270	23.745	2,341.290	0	2,506	7,071
TCVIEW	TCVIEW=TCH*VIEW	14.639	61.028	5.934	45.431	0	840	7,071

Table 4 Descriptive Statistics ALL Data*

Variable	Description	Northern						
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
TCWCAMP	TCWCAMP=TCWH*CAMP	10.294	59.955	10.229	140.682	0	2,102	7,071
TCWDRIVE	TCWDRIVE=TCWH*DRIVE	8.118	61.821	10.983	157.182	0	2,314	7,071
TCWFISH	TCWFISH=TCWH*FISH	7.323	33.412	9.552	175.006	0	1,027	7,071
TCWGEN	TCWGEN=TCWH*GENERAL	8.142	46.284	9.990	130.516	0	1,000	7,071
TCWHIKE	TCWHIKE=TCWH*HIKE	40.513	142.264	6.477	58.841	0	2,711	7,071
TCWHUNT	TCWHUNT=TCWH*HUNT	4.936	24.849	8.980	163.463	0	1,079	7,071
TCWNAT	TCWNAT=TCWH*NATURE	4.389	39.572	20.474	644.744	0	1,898	7,071
TCWOHV	TCWOHV=TCWH*OHVUSE	1.955	13.367	8.405	84.094	0	279	7,071
TCWPCAMP	TCWPCAMP=TCWH*PCAMP	8.867	69.157	12.553	183.208	0	1,175	7,071
TCWPIC	TCWPIC=TCWH*PICNIC	1.182	11.861	28.354	1,362.660	0	774	7,071
TCWSKI	TCWSKI=TCWH*SKI	10.856	49.102	16.468	549.203	0	2,012	7,071
TCWSNWMB	TCWSNWMB=TCWH*SNOWMOB	4.225	28.689	13.603	269.871	0	963	7,071
TCWTRAIL	TCWTRAIL=TCWH*TRAIL	3.076	24.175	13.676	401.825	0	2,509	7,071
TCWVIEW	TCWVIEW=TCWH*VIEW	25.446	105.934	6.442	59.349	0	1,721	7,071

Table 4 Descriptive Statistics ALL Data*

Variable	Description	Northern						
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
TCFWCAMP	TCFWCAMP=TCFWH*CAMP	12.002	74.154	10.208	117.510	0	1,350	7,071
TCFWDRVE	TCFWDRVE=TCFWH*DRIVE	8.988	67.885	11.088	165.825	0	2,700	7,071
TCFWFISH	TCFWFISH=TCFWH*FISH	7.742	33.945	9.059	159.205	0	1,035	7,071
TCFWGEN	TCFWGEN=TCFWH*GENERAL	8.758	50.742	10.579	143.467	0	1,125	7,071
TCFWHIKE	TCFWHIKE=TCFWH*HIKE	39.824	135.882	5.692	43.013	0	2,732	7,071
TCFWHUNT	TCFWHUNT=TCFWH*HUNT	5.213	25.184	8.681	145.823	0	990	7,071
TCFWNAT	TCFWNAT=TCFWH*NATURE	4.757	41.258	18.184	496.081	0	1,800	7,071
TCFWOHV	TCFWOHV=TCFWH*OHVUSE	2.150	14.521	8.192	78.254	0	276	7,071
TCFWPCMP	TCFWPCMP=TCFWH*PCAMP	8.521	64.372	11.741	157.395	0	1,125	7,071
TCFWPIC	TCFWPIC=TCFWH*PICNIC	1.336	13.122	26.027	1,147.080	0	788	7,071
TCFWSKI	TCFWSKI=TCFWH*SKI	9.789	44.655	19.662	743.333	0	1,980	7,071
TCFWSNWM	TCFWSNWM=TCFWH*SNOWMOB	4.528	29.540	12.871	248.403	0	1,010	7,071
TCFWTRL	TCFWTRL=TCFWH*TRAIL	2.948	22.987	15.064	504.659	0	2,511	7,071
TCFWVIEW	TCFWVIEW=TCFWH*VIEW	26.066	106.122	5.746	42.721	0	1,575	7,071

*ALL currently available observations, stratified by RPA region and

weighted by the composite weight

NVY=NEXPAND/NFV12MO1; **Please see sheet labeled

Table 4 Descriptive Statistics ALL Data*

Southern								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
AGE	Age of respondent; median of age classes used	44.685	14.094	0.131	2.196	18	75	6,187
GENDER1	If female, then GENDER1=1; Else 0	0.251	0.433	1.151	2.324	0	1	6,187
HF	If NFV12MO1>15, HF=1; Else 0	0.069	0.253	3.410	12.629	0	1	6,187
INCES	IRS Average After Tax Income Per Zip Code	2.332	0.897	2.931	18.385	1	16	6,187
ONITE	If stayed overnight on National Forest=1; Else 0	0.198	0.399	1.516	3.297	0	1	6,187
PEOPVEH	Number of People in Vehicle on surveyed visit	1.957	1.014	1.893	8.790	1	10	6,187
PRACTD1S	One way distance from zip code of origin to National Forest site/GNIS centroid	264.884	401.853	3.214	17.213	0	4,605	6,187
TCFWH	Travel cost variable with opportunity cost of time valued at a flat \$5.25/per hour. TCFWH=(.12*2*practd1s)+((5.25)*2 *TIME2)+recfees	113.270	163.678	3.169	17.346	0	1,986	6,187
TCH	Travel cost variable with no opportunity cost of time included. TCH=(.12*2*practd1s)+recfees	64.599	96.686	3.193	17.075	0	1,105	6,187
TCWH	Travel cost variable with opportunity cost valued at 1/3 the income-based wage rate TCWH=(.12*2*practd1s)+(.3333*(I NCE/2000))*2*TIME2)+recfees	105.012	163.979	3.817	23.892	0	1,641	6,187
Y	National Forest Visits in the Past 12 Months (NFV12MO+1)	5.194	14.169	12.311	221.222	1	365	6,187

Table 4 Descriptive Statistics ALL Data*

Southern								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
CAMP**	IF CAMPING7=1 OR RESORT7=1 THEN CAMP=1; ELSE CAMP =0;	0.083	0.275	3.030	10.183	0	1	6,187
DRIVE	IF DRIVING7=1 OR H2OMOTR7=1 OR OTHMOTR7=1 OR SITESEE7=1 THEN DRIVE=1; ELSE DRIVE=0;	0.099	0.298	2.691	8.243	0	1	6,187
FISH	IF FISHING7=1 THEN FISH=1; ELSE FISH=0;	0.122	0.327	2.309	6.332	0	1	6,187
GENERAL	IF GENERAL7=1 THEN GENERAL=1; ELSE GENERAL=0;	0.118	0.323	2.364	6.586	0	1	6,187
HIKE	IF HIKE7=1 THEN HIKE=1; ELSE HIKE=0;	0.134	0.341	2.149	5.618	0	1	6,187
HUNT	IF HUNTING7=1 THEN HUNT=1; ELSE HUNT=0;	0.116	0.320	2.399	6.757	0	1	6,187
NATURE	IF GATHER7=1 OR HISTORY7=1 OR NATCENT7=1 OR NATSTUD7=1 THEN NATURE=1; ELSE NATURE=0;	0.084	0.277	2.998	9.989	0	1	6,187
OHVUSE	IF OHVUSE7=1 THEN OHVUSE=1; ELSE OHVUSE=0;	0.029	0.169	5.565	31.965	0	1	6,187
PCAMP	IF PCAMP7=1 OR BPACK7=1 THEN PCAMP=1; ELSE PCAMP =0;	0.049	0.217	4.162	18.320	0	1	6,187
PICNIC	IF PICNIC7=1 THEN PICNIC=1; ELSE PICNIC=0;	0.034	0.182	5.122	27.234	0	1	6,187
SKI	IF DOWNSKI7=1 OR XCSKI7=1 THEN SKI=1; ELSE SKI =0;	0.000	0.020	50.643	2,565.680	0	1	6,187

Table 4 Descriptive Statistics ALL Data*

Southern								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
SNOWMOB	IF SNOWMOB7=1 THEN SNOWMOB=1; ELSE SNOWMOB=0;	0.000	0.000	0.000	0.000	0	0	6,187
TRAIL	IF BIKING7=1 OR HORSE7=1 OR H2ONMOT7=1 THEN TRAIL=1; ELSE TRAIL=0;	0.036	0.185	5.018	26.180	0	1	6,187
VIEW	IF VIEWNAT7=1 OR VIEWWLD7=1 OR VIEWOFF7=1 THEN VIEW =1; ELSE VIEW=0;	0.121	0.326	2.325	6.404	0	1	6,187

Table 4 Descriptive Statistics ALL Data*

Southern								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
TCCAMP	TCCAMP=TCH*CAMP	9.020	45.255	5.984	40.033	0	602	6,187
TCDRIVE	TCDRIVE=TCH*DRIVE	7.147	44.972	11.276	150.332	0	639	6,187
TCFISH	TCFISH=TCH*FISH	6.514	27.659	7.864	115.584	0	574	6,187
TCGEN	TCGEN=TCH*GENERAL	5.529	41.167	12.480	173.174	0	629	6,187
TCHIKE	TCHIKE=TCH*HIKE	9.429	36.154	5.628	51.282	0	810	6,187
TCHUNT	TCHUNT=TCH*HUNT	2.336	11.428	9.396	160.474	0	490	6,187
TCNAT	TCNAT=TCH*NATURE	8.890	45.689	8.619	110.058	0	922	6,187
TCOHV	TCOHV=TCH*OHVUSE	0.764	6.518	13.823	246.284	0	310	6,187
TCPCAMP	TCPCAMP=TCH*PCAMP	4.837	34.546	9.599	104.316	0	504	6,187
TCPICNIC	TCPICNIC=TCH*PICNIC	1.382	13.356	16.604	357.062	0	589	6,187
TCSKI	TCSKI=TCH*SKI	0.023	1.603	80.745	6,622.140	0	132	6,187
TCSNOWMB	TCSNOWMB=TCH*SNOWMOB	0.000	0.000	0.000	0.000	0	0	6,187
TCTRAIL	TCTRAIL=TCH*TRAIL	1.530	14.498	20.642	593.710	0	632	6,187
TCVIEW	TCVIEW=TCH*VIEW	8.973	38.280	6.647	64.717	0	589	6,187

Table 4 Descriptive Statistics ALL Data*

Southern								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
TCWCAMP	TCWCAMP=TCWH*CAMP	14.696	72.639	5.838	37.614	0	865	6,187
TCWDRIVE	TCWDRIVE=TCWH*DRIVE	11.678	71.733	10.776	138.097	0	995	6,187
TCWFISH	TCWFISH=TCWH*FISH	10.154	44.525	9.912	186.141	0	1,056	6,187
TCWGEN	TCWGEN=TCWH*GENERAL	10.114	86.159	14.369	224.950	0	1,402	6,187
TCWHIKE	TCWHIKE=TCWH*HIKE	14.927	57.375	6.123	64.243	0	1,285	6,187
TCWHUNT	TCWHUNT=TCWH*HUNT	3.554	16.733	9.495	190.418	0	792	6,187
TCWNAT	TCWNAT=TCWH*NATURE	14.441	73.761	8.912	121.807	0	1,553	6,187
TCWOHV	TCWOHV=TCWH*OHVUSE	1.236	10.755	14.087	247.816	0	618	6,187
TCWPCAMP	TCWPCAMP=TCWH*PCAMP	8.140	57.345	9.431	100.418	0	864	6,187
TCWPIC	TCWPIC=TCWH*PICNIC	2.181	20.869	15.896	315.492	0	892	6,187
TCWSKI	TCWSKI=TCWH*SKI	0.042	3.034	81.496	6,712.710	0	250	6,187
TCWSNWMB	TCWSNWMB=TCWH*SNOWMOB	0.000	0.000	0.000	0.000	0	0	6,187
TCWTRAIL	TCWTRAIL=TCWH*TRAIL	2.607	22.756	17.970	466.196	0	972	6,187
TCWVIEW	TCWVIEW=TCWH*VIEW	14.481	62.431	7.062	73.884	0	967	6,187

Table 4 Descriptive Statistics ALL Data*

Southern								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
TCFWCAMP	TCFWCAMP=TCFWH*CAMP	15.511	76.868	5.917	39.066	0	996	6,187
TCFWDRVE	TCFWDRVE=TCFWH*DRIVE	12.689	77.299	11.034	145.326	0	1,090	6,187
TCFWFISH	TCFWFISH=TCFWH*FISH	11.523	47.812	7.354	100.152	0	953	6,187
TCFWGEN	TCFWGEN=TCFWH*GENERAL	9.652	68.923	12.284	169.024	0	1,054	6,187
TCFWHIKE	TCFWHIKE=TCFWH*HIKE	16.481	62.196	5.437	46.348	0	1,156	6,187
TCFWHUNT	TCFWHUNT=TCFWH*HUNT	4.169	18.885	9.342	195.740	0	914	6,187
TCFWNAT	TCFWNAT=TCFWH*NATURE	15.741	79.104	8.587	112.839	0	1,632	6,187
TCFWOHV	TCFWOHV=TCFWH*OHVUSE	1.374	11.195	12.582	197.382	0	520	6,187
TCFWPCMP	TCFWPCMP=TCFWH*PCAMP	8.400	58.717	9.363	99.256	0	945	6,187
TCFWPIC	TCFWPIC=TCFWH*PICNIC	2.482	23.288	16.238	343.069	0	974	6,187
TCFWSKI	TCFWSKI=TCFWH*SKI	0.040	2.799	80.423	6,582.900	0	230	6,187
TCFWSNWM	TCFWSNWM=TCFWH*SNOWMOB	0.000	0.000	0.000	0.000	0	0	6,187
TCFWTRL	TCFWTRL=TCFWH*TRAIL	2.662	24.370	19.786	548.951	0	1,033	6,187
TCFWVIEW	TCFWVIEW=TCFWH*VIEW	15.845	66.001	6.357	58.934	0	974	6,187

*ALL currently available observations, stratified by RPA region and

weighted by the composite weight

NVY=NEXPAND/NFV12MO1; **Please see sheet labeled

Table 5 Descriptive Statistics TOP5 Data*

Variable	Description	National						
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
AGE	Age of respondent; median of age classes used	43.622	13.565	0.178	2.323	18	75	64,894
GENDER1	If female, then GENDER1=1; Else 0	0.297	0.457	0.886	1.786	0	1	64,894
HF	If NFV12MO1>15, HF=1; Else 0	0.057	0.231	3.830	15.668	0	1	64,894
INCES	IRS Average After Tax Income Per Zip Code	2.828	1.478	4.922	51.418	0	25	64,894
ONITE	If stayed overnight on National Forest=1; Else 0	0.235	0.424	1.250	2.561	0	1	64,894
PEOPVEH	Number of People in Vehicle on surveyed visit	2.086	1.140	1.814	8.214	1	10	64,894
PRACTD1S	One way distance from zip code of origin to National Forest site/GNIS centroid	253.751	295.745	1.682	5.006	0.000	1250	64,894
TCFWH	Travel cost variable with opportunity cost of time valued at a flat \$5.25/per hour. TCFWH=(.12*2*practd1s)+((5.25)*2*TIME2)+recfees	114.943	132.209	2.222	13.164	0	4,289	64,894
TCH	Travel cost variable with no opportunity cost of time included. TCH=(.12*2*practd1s)+recfees	63.945	80.579	3.873	45.835	0	4,244	64,894
TCWH	Travel cost variable with opportunity cost valued at 1/3 the income-based wage rate TCWH=(.12*2*practd1s)+((.3333*(INCE/2000))*2*TIME2)+recfees	113.339	142.340	3.089	22.910	0	4,291	64,894

Table 5 Descriptive Statistics TOP5 Data*

Y	National Forest Visits in the Past 12 Months (NFV12MO+1)	4.695	13.132	12.679	240.837	1	365	64,894
CAMP**	IF CAMPING7=1 OR RESORT7=1 THEN CAMP=1; ELSE CAMP =0;	0.080	0.272	3.092	10.559	0	1	64,894
DRIVE	IF DRIVING7=1 OR H2OMOTR7=1 OR OTHMOTR7=1 OR SITESEE7=1 THEN DRIVE=1; ELSE DRIVE=0;	0.075	0.263	3.228	11.423	0	1	64,894
FISH	IF FISHING7=1 THEN FISH=1; ELSE FISH=0;	0.087	0.282	2.931	9.593	0	1	64,894
GENERAL	IF GENERAL7=1 THEN GENERAL=1; ELSE GENERAL=0;	0.119	0.324	2.347	6.509	0	1	64,894
HIKE	IF HIKE7=1 THEN HIKE=1; ELSE HIKE=0;	0.157	0.364	1.889	4.568	0	1	64,894
HUNT	IF HUNTING7=1 THEN HUNT=1; ELSE HUNT=0;	0.090	0.286	2.867	9.219	0	1	64,894
NATURE	IF GATHER7=1 OR HISTORY7=1 OR NATCENT7=1 OR NATSTUD7=1 THEN NATURE=1; ELSE NATURE=0;	0.039	0.193	4.786	23.903	0	1	64,894
OHVUSE	IF OHVUSE7=1 THEN OHVUSE=1; ELSE OHVUSE=0;	0.030	0.170	5.530	31.578	0	1	64,894
PCAMP	IF PCAMP7=1 OR BPACK7=1 THEN PCAMP=1; ELSE PCAMP =0;	0.039	0.193	4.779	23.835	0	1	64,894
PICNIC	IF PICNIC7=1 THEN PICNIC=1; ELSE PICNIC=0;	0.024	0.153	6.243	39.973	0	1	64,894
SKI	IF DOWNSKI7=1 OR XCSKI7=1 THEN SKI=1; ELSE SKI =0;	0.124	0.329	2.284	6.217	0	1	64,894

Table 5 Descriptive Statistics TOP5 Data*

SNOWMOB	IF SNOWMOB7=1 THEN SNOWMOB=1; ELSE SNOWMOB=0;	0.013	0.115	8.437	72.184	0	1	64,894
TRAIL	IF BIKING7=1 OR HORSE7=1 OR H2ONMOT7=1 THEN TRAIL=1; ELSE TRAIL=0;	0.041	0.199	4.614	22.290	0	1	64,894
VIEW	IF VIEWNAT7=1 OR VIEWWLD7=1 OR VIEWOFF7=1 THEN VIEW =1; ELSE VIEW=0;	0.120	0.325	2.343	6.492	0	1	64,894
TCCAMP	TCCAMP=TCH*CAMP	5.068	27.045	9.112	178.489	0	2,007	64,894
TCDRIVE	TCDRIVE=TCH*DRIVE	4.462	25.104	7.771	75.456	0	1,013	64,894
TCFISH	TCFISH=TCH*FISH	4.493	22.834	7.596	72.093	0	355	64,894
TCGEN	TCGEN=TCH*GENERAL	6.942	29.539	6.202	49.754	0	1,038	64,894
TCHIKE	TCHIKE=TCH*HIKE	10.135	37.391	4.833	29.098	0	810	64,894
TCHUNT	TCHUNT=TCH*HUNT	4.317	21.384	7.582	83.928	0	1,055	64,894
TCNAT	TCNAT=TCH*NATURE	2.878	20.906	9.493	107.211	0	610	64,894
TCOHV	TCOHV=TCH*OHVUSE	1.677	17.877	19.482	472.338	0	486	64,894
TCPCAMP	TCPCAMP=TCH*PCAMP	2.534	18.560	10.772	168.094	0	1,235	64,894
TCPICNIC	TCPICNIC=TCH*PICNIC	0.976	10.870	17.358	354.691	0	443	64,894
TCSKI	TCSKI=TCH*SKI	12.443	55.807	10.813	214.775	0	4,244	64,894
TCSNOWMB	TCSNOWMB=TCH*SNOWMOB	0.771	10.327	19.689	466.403	0	581	64,894
TCTRAIL	TCTRAIL=TCH*TRAIL	2.570	18.924	10.445	173.784	0	2,506	64,894
TCVIEW	TCVIEW=TCH*VIEW	8.996	36.758	5.188	31.677	0	477	64,894
TCWCAMP	TCWCAMP=TCWH*CAMP	8.738	46.345	8.280	91.711	0	2,012	64,894
TCWDRIVE	TCWDRIVE=TCWH*DRIVE	7.705	43.215	7.847	76.857	0	1,045	64,894
TCWFISH	TCWFISH=TCWH*FISH	7.662	38.952	7.817	79.714	0	1,378	64,894
TCWGEN	TCWGEN=TCWH*GENERAL	12.461	55.290	7.435	79.895	0	1,188	64,894
TCWHIKE	TCWHIKE=TCWH*HIKE	18.252	67.865	5.283	38.529	0	1,280	64,894
TCWHUNT	TCWHUNT=TCWH*HUNT	7.277	35.726	7.114	65.404	0	1,091	64,894

Table 5 Descriptive Statistics TOP5 Data*

TCWNAT	TCWNAT=TCWH*NATURE	4.871	35.236	9.482	106.467	0	1,090	64,894
TCWOHV	TCWOHV=TCWH*OHVUSE	2.751	27.123	16.938	372.687	0	837	64,894
TCWPCAMP	TCWPCAMP=TCWH*PCAMP	4.449	31.981	10.224	132.182	0	1,251	64,894
TCWPIC	TCWPIC=TCWH*PICNIC	1.639	18.367	18.514	443.221	0	1,375	64,894
TCWSKI	TCWSKI=TCWH*SKI	23.231	99.954	8.008	102.367	0	4,291	64,894
TCWSNWMB	TCWSNWMB=TCWH*SNOWMOB	1.293	17.082	19.635	471.090	0	739	64,894
TCWTRAIL	TCWTRAIL=TCWH*TRAIL	4.754	35.138	10.453	135.361	0	2,509	64,894
TCWVIEW	TCWVIEW=TCWH*VIEW	15.907	65.129	5.378	35.901	0	1,053	64,894
TCFWCAMP	TCFWCAMP=TCFWH*CAMP	9.102	46.957	7.738	78.550	0	2,014	64,894
TCFWDRVE	TCFWDRVE=TCFWH*DRIVE	8.124	44.524	7.354	63.525	0	1,028	64,894
TCFWFISH	TCFWFISH=TCFWH*FISH	8.215	40.776	7.402	69.054	0	556	64,894
TCFWGEN	TCFWGEN=TCFWH*GENERAL	12.858	53.552	5.869	42.510	0	1,153	64,894
TCFWHIKE	TCFWHIKE=TCFWH*HIKE	18.476	66.852	4.644	26.285	0	1,002	64,894
TCFWHUNT	TCFWHUNT=TCFWH*HUNT	8.115	39.327	7.022	63.277	0	1,113	64,894
TCFWNAT	TCFWNAT=TCFWH*NATURE	5.199	37.026	9.135	95.667	0	623	64,894
TCFWOHV	TCFWOHV=TCFWH*OHVUSE	2.860	26.401	14.125	243.544	0	561	64,894
TCFWPCMP	TCFWPCMP=TCFWH*PCAMP	4.659	33.520	10.061	120.421	0	1,268	64,894
TCFWPIC	TCFWPIC=TCFWH*PICNIC	1.812	19.722	16.877	332.568	0	540	64,894
TCFWSKI	TCFWSKI=TCFWH*SKI	21.299	85.812	6.847	80.441	0	4,289	64,894
TCFWSNWM	TCFWSNWM=TCFWH*SNOWMOB	1.426	18.571	18.761	411.416	0	827	64,894
	B							
TCFWTRL	TCFWTRL=TCFWH*TRAIL	4.640	33.382	9.832	117.316	0	2,511	64,894
TCFWVIEW	TCFWVIEW=TCFWH*VIEW	16.259	65.221	5.082	30.586	0	647	64,894

*TOP5 trimmed observations, stratified by RPA region and weighted by the composite weight

NVY=NEXPAND/NFV12MO1; **Please see sheet labeled "ACTIVITY DESCRIPTION" for descriptions of these variables.

Table 5 Descriptive Statistics TOP5 Data*

Variable	Description	Pacific						Nobs
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	
AGE	Age of respondent; median of age classes used	43.614	13.161	0.163	2.387	18	75	22,969
GENDER1	If female, then GENDER1=1; Else 0	0.341	0.474	0.671	1.450	0	1	22,969
HF	If NFV12MO1>15, HF=1; Else 0	0.045	0.208	4.381	20.190	0	1	22,969
INCES	IRS Average After Tax Income Per Zip Code	3.033	1.550	3.933	32.086	0	25	22,969
ONITE	If stayed overnight on National Forest=1; Else 0	0.282	0.450	0.971	1.942	0	1	22,969
PEOPVEH	Number of People in Vehicle on surveyed visit	2.108	1.156	1.799	7.985	1	10	22,969
PRACTD1S	One way distance from zip code of origin to National Forest site/GNIS centroid	209.685	216.924	2.081	7.833	0	1,242	22,969
TCFWH	Travel cost variable with opportunity cost of time valued at a flat \$5.25/per hour. TCFWH=(.12*2*practd1s)+((5.25)*2*TIME2)+recfees	99.162	99.976	2.094	11.348	0	4,289	22,969
TCH	Travel cost variable with no opportunity cost of time included. TCH=(.12*2*practd1s)+recfees	53.933	58.739	3.045	45.503	0	4,244	22,969
TCWH	Travel cost variable with opportunity cost valued at 1/3 the income-based wage rate TCWH=(.12*2*practd1s)+((.3333*(INCE/2000))*2*TIME2)+recfees	100.522	108.553	2.332	12.263	0	4,291	22,969

Table 5 Descriptive Statistics TOP5 Data*

Y	National Forest Visits in the Past 12 Months (NFV12MO+1)	4.206	11.510	13.764	292.426	1	365	22,969
CAMP**	IF CAMPING7=1 OR RESORT7=1 THEN CAMP=1; ELSE CAMP =0;	0.081	0.273	3.066	10.399	0	1	22,969
DRIVE	IF DRIVING7=1 OR H2OMOTR7=1 OR OTHMOTR7=1 OR SITESEE7=1 THEN DRIVE=1; ELSE DRIVE=0;	0.074	0.261	3.268	11.678	0	1	22,969
FISH	IF FISHING7=1 THEN FISH=1; ELSE FISH=0;	0.085	0.279	2.980	9.882	0	1	22,969
GENERAL	IF GENERAL7=1 THEN GENERAL=1; ELSE GENERAL=0;	0.128	0.334	2.222	5.938	0	1	22,969
HIKE	IF HIKE7=1 THEN HIKE=1; ELSE HIKE=0;	0.137	0.344	2.111	5.457	0	1	22,969
HUNT	IF HUNTING7=1 THEN HUNT=1; ELSE HUNT=0;	0.054	0.225	3.964	16.714	0	1	22,969
NATURE	IF GATHER7=1 OR HISTORY7=1 OR NATCENT7=1 OR NATSTUD7=1 THEN NATURE=1; ELSE NATURE=0;	0.029	0.167	5.647	32.888	0	1	22,969
OHVUSE	IF OHVUSE7=1 THEN OHVUSE=1; ELSE OHVUSE=0;	0.028	0.166	5.675	33.207	0	1	22,969
PCAMP	IF PCAMP7=1 OR BPACK7=1 THEN PCAMP=1; ELSE PCAMP =0;	0.038	0.190	4.859	24.605	0	1	22,969
PICNIC	IF PICNIC7=1 THEN PICNIC=1; ELSE PICNIC=0;	0.018	0.133	7.251	53.575	0	1	22,969
SKI	IF DOWNSKI7=1 OR XCSKI7=1 THEN SKI=1; ELSE SKI =0;	0.173	0.378	1.727	3.982	0	1	22,969

Table 5 Descriptive Statistics TOP5 Data*

SNOWMOB	IF SNOWMOB7=1 THEN SNOWMOB=1; ELSE SNOWMOB=0;	0.005	0.069	14.312	205.844	0	1	22,969
TRAIL	IF BIKING7=1 OR HORSE7=1 OR H2ONMOT7=1 THEN TRAIL=1; ELSE TRAIL=0;	0.044	0.205	4.450	20.802	0	1	22,969
VIEW	IF VIEWNAT7=1 OR VIEWWLD7=1 OR VIEWOFF7=1 THEN VIEW =1; ELSE VIEW=0;	0.113	0.317	2.441	6.959	0	1	22,969
TCCAMP	TCCAMP=TCH*CAMP	3.663	16.941	7.141	68.714	0	319	22,969
TCDRIVE	TCDRIVE=TCH*DRIVE	3.794	20.135	8.599	110.422	0	485	22,969
TCFISH	TCFISH=TCH*FISH	3.328	15.547	7.301	78.650	0	306	22,969
TCGEN	TCGEN=TCH*GENERAL	6.560	27.529	6.820	58.535	0	347	22,969
TCHIKE	TCHIKE=TCH*HIKE	7.072	28.158	5.911	44.377	0	442	22,969
TCHUNT	TCHUNT=TCH*HUNT	2.019	11.062	7.334	68.583	0	192	22,969
TCNAT	TCNAT=TCH*NATURE	1.525	12.793	11.450	154.713	0	293	22,969
TCOHV	TCOHV=TCH*OHVUSE	2.569	26.712	15.984	282.338	0	486	22,969
TCPCAMP	TCPCAMP=TCH*PCAMP	3.075	21.615	9.371	99.065	0	289	22,969
TCPICNIC	TCPICNIC=TCH*PICNIC	0.679	8.171	20.671	544.063	0	297	22,969
TCSKI	TCSKI=TCH*SKI	11.368	33.904	6.277	323.387	0	4,244	22,969
TCSNOWMB	TCSNOWMB=TCH*SNOWMOB	0.180	3.193	22.540	600.588	0	264	22,969
TCTRAIL	TCTRAIL=TCH*TRAIL	2.363	15.422	8.981	100.002	0	301	22,969
TCVIEW	TCVIEW=TCH*VIEW	6.085	25.115	5.937	45.085	0	308	22,969
TCWCAMP	TCWCAMP=TCWH*CAMP	6.821	34.201	9.329	124.768	0	755	22,969
TCWDRIVE	TCWDRIVE=TCWH*DRIVE	6.702	34.791	7.660	77.790	0	611	22,969
TCWFISH	TCWFISH=TCWH*FISH	6.050	28.449	6.816	62.529	0	537	22,969
TCWGEN	TCWGEN=TCWH*GENERAL	12.928	57.486	7.745	78.975	0	844	22,969
TCWHIKE	TCWHIKE=TCWH*HIKE	13.213	52.056	5.814	43.516	0	879	22,969
TCWHUNT	TCWHUNT=TCWH*HUNT	3.487	19.084	7.294	67.724	0	306	22,969

Table 5 Descriptive Statistics TOP5 Data*

TCWNAT	TCWNAT=TCWH*NATURE	2.920	25.327	12.141	175.940	0	596	22,969
TCWOHV	TCWOHV=TCWH*OHVUSE	3.688	32.406	12.964	196.563	0	534	22,969
TCWPCAMP	TCWPCAMP=TCWH*PCAMP	5.543	37.902	9.192	100.653	0	689	22,969
TCWPIC	TCWPIC=TCWH*PICNIC	1.192	14.765	22.915	697.588	0	641	22,969
TCWSKI	TCWSKI=TCWH*SKI	22.008	66.253	4.549	46.097	0	4,291	22,969
TCWSNWMB	TCWSNWMB=TCWH*SNOWMOB	0.345	6.514	26.551	863.047	0	426	22,969
 TCWTRAIL	 TCWTRAIL=TCWH*TRAIL	 4.751	 32.183	 9.639	 114.745	 0	 661	 22,969
TCWVIEW	TCWVIEW=TCWH*VIEW	11.714	49.388	6.181	49.651	0	851	22,969
 TCFWCAMP	 TCFWCAMP=TCFWH*CAMP	 6.810	 31.115	 7.001	 66.157	 0	 540	 22,969
TCFWDRVE	TCFWDRVE=TCFWH*DRIVE	7.076	36.350	7.454	72.043	0	564	22,969
TCFWFISH	TCFWFISH=TCFWH*FISH	6.318	29.133	7.106	74.856	0	522	22,969
TCFWGEN	TCFWGEN=TCFWH*GENERAL	12.165	50.105	6.592	54.388	0	540	22,969
TCFWHIKE	TCFWHIKE=TCFWH*HIKE	13.230	51.861	5.768	42.205	0	540	22,969
TCFWHUNT	TCFWHUNT=TCFWH*HUNT	3.930	21.235	7.073	63.090	0	360	22,969
TCFWNAT	TCFWNAT=TCFWH*NATURE	2.880	23.920	11.313	151.521	0	545	22,969
TCFWOHV	TCFWOHV=TCFWH*OHVUSE	3.959	34.414	12.727	189.851	0	561	22,969
TCFWPCMP	TCFWPCMP=TCFWH*PCAMP	5.684	39.446	9.238	96.652	0	540	22,969
TCFWPIC	TCFWPIC=TCFWH*PICNIC	1.270	14.833	19.881	502.948	0	499	22,969
TCFWSKI	TCFWSKI=TCFWH*SKI	20.389	59.304	4.339	54.562	0	4,289	22,969
TCFWSNWM	TCFWSNWM=TCFWH*SNOWMOB	0.348	6.086	21.671	545.777	0	495	22,969
	B							
TCFWTRL	TCFWTRL=TCFWH*TRAIL	4.440	28.596	8.739	94.032	0	533	22,969
TCFWVIEW	TCFWVIEW=TCFWH*VIEW	11.381	46.148	5.787	43.050	0	548	22,969

*TOP5 trimmed observations, stratified by RPA region and weighted by the composite weight

NVY=NEXPAND/NFV12MO1; **Please see sheet labeled "ACTIVITY DESCRIPTION" for descriptions of these variables.

Table 5 Descriptive Statistics TOP5 Data*

Variable	Description	Rocky Mtn.						
		Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
AGE	Age of respondent; median of age classes used	43.311	13.690	0.177	2.293	18	75	28,860
GENDER1	If female, then GENDER1=1; Else 0	0.294	0.455	0.906	1.820	0	1	28,860
HF	If NFV12MO1>15, HF=1; Else 0	0.058	0.234	3.771	15.222	0	1	28,860
INCES	IRS Average After Tax Income Per Zip Code	2.861	1.549	5.785	66.264	0	25	28,860
ONITE	If stayed overnight on National Forest=1; Else 0	0.224	0.417	1.321	2.746	0	1	28,860
PEOPVEH	Number of People in Vehicle on surveyed visit	2.126	1.193	1.789	7.979	1	10	28,860
PRACTD1S	One way distance from zip code of origin to National Forest site/GNIS centroid	310.019	355.601	1.216	3.139	0	1,250	28,860
TCFWH	Travel cost variable with opportunity cost of time valued at a flat \$5.25/per hour. TCFWH=(.12*2*practd1s)+((5.25)*2*TIME2)+recfees	138.845	160.672	1.919	10.976	0	2,014	28,860
TCH	Travel cost variable with no opportunity cost of time included. TCH=(.12*2*practd1s)+recfees	78.056	99.988	3.683	38.015	0	2,007	28,860
TCWH	Travel cost variable with opportunity cost valued at 1/3 the income-based wage rate TCWH=(.12*2*practd1s)+((.3333*(INCE/2000))*2*TIME2)+recfees	137.553	177.163	2.837	18.903	0	2,012	28,860

Table 5 Descriptive Statistics TOP5 Data*

Y	National Forest Visits in the Past 12 Months (NFV12MO+1)	4.773	13.732	12.308	222.644	1	365	28,860
CAMP**	IF CAMPING7=1 OR RESORT7=1 THEN CAMP=1; ELSE CAMP =0;	0.079	0.269	3.126	10.774	0	1	28,860
DRIVE	IF DRIVING7=1 OR H2OMOTR7=1 OR OTHMOTR7=1 OR SITESEE7=1 THEN DRIVE=1; ELSE DRIVE=0;	0.075	0.263	3.233	11.451	0	1	28,860
FISH	IF FISHING7=1 THEN FISH=1; ELSE FISH=0;	0.072	0.259	3.311	11.964	0	1	28,860
GENERAL	IF GENERAL7=1 THEN GENERAL=1; ELSE GENERAL=0;	0.125	0.331	2.261	6.112	0	1	28,860
HIKE	IF HIKE7=1 THEN HIKE=1; ELSE HIKE=0;	0.166	0.372	1.800	4.238	0	1	28,860
HUNT	IF HUNTING7=1 THEN HUNT=1; ELSE HUNT=0;	0.108	0.311	2.523	7.367	0	1	28,860
NATURE	IF GATHER7=1 OR HISTORY7=1 OR NATCENT7=1 OR NATSTUD7=1 THEN NATURE=1; ELSE NATURE=0;	0.032	0.175	5.361	29.738	0	1	28,860
OHVUSE	IF OHVUSE7=1 THEN OHVUSE=1; ELSE OHVUSE=0;	0.030	0.171	5.493	31.176	0	1	28,860
PCAMP	IF PCAMP7=1 OR BPACK7=1 THEN PCAMP=1; ELSE PCAMP =0;	0.034	0.182	5.106	27.067	0	1	28,860
PICNIC	IF PICNIC7=1 THEN PICNIC=1; ELSE PICNIC=0;	0.024	0.152	6.268	40.289	0	1	28,860
SKI	IF DOWNSKI7=1 OR XCSKI7=1 THEN SKI=1; ELSE SKI =0;	0.133	0.340	2.161	5.669	0	1	28,860

Table 5 Descriptive Statistics TOP5 Data*

SNOWMOB	IF SNOWMOB7=1 THEN SNOWMOB=1; ELSE SNOWMOB=0;	0.015	0.121	8.025	65.402	0	1	28,860
TRAIL	IF BIKING7=1 OR HORSE7=1 OR H2ONMOT7=1 THEN TRAIL=1; ELSE TRAIL=0;	0.043	0.203	4.500	21.250	0	1	28,860
VIEW	IF VIEWNAT7=1 OR VIEWWLD7=1 OR VIEWOFF7=1 THEN VIEW =1; ELSE VIEW=0;	0.122	0.328	2.304	6.308	0	1	28,860
TCCAMP	TCCAMP=TCH*CAMP	5.340	28.711	9.823	255.182	0	2,007	28,860
TCDRIVE	TCDRIVE=TCH*DRIVE	5.428	30.652	6.883	55.783	0	1,013	28,860
TCFISH	TCFISH=TCH*FISH	4.799	27.573	7.690	66.497	0	355	28,860
TCGEN	TCGEN=TCH*GENERAL	9.369	36.039	5.096	34.086	0	1,038	28,860
TCHIKE	TCHIKE=TCH*HIKE	11.370	41.897	4.537	24.823	0	770	28,860
TCHUNT	TCHUNT=TCH*HUNT	6.999	29.437	5.865	49.344	0	1,055	28,860
TCNAT	TCNAT=TCH*NATURE	2.657	21.944	10.165	121.235	0	610	28,860
TCOHV	TCOHV=TCH*OHVUSE	1.451	13.877	12.922	192.996	0	294	28,860
TCPCAMP	TCPCAMP=TCH*PCAMP	2.004	16.038	12.900	324.157	0	1,235	28,860
TCPICNIC	TCPICNIC=TCH*PICNIC	1.120	12.695	15.718	275.581	0	403	28,860
TCSKI	TCSKI=TCH*SKI	19.178	78.222	8.379	117.006	0	1,428	28,860
TCSNOWMB	TCSNOWMB=TCH*SNOWMOB	1.133	14.231	15.858	284.731	0	581	28,860
TCTRAIL	TCTRAIL=TCH*TRAIL	3.361	23.961	8.799	85.953	0	310	28,860
TCVIEW	TCVIEW=TCH*VIEW	11.294	44.295	4.575	24.008	0	477	28,860
TCWCAMP	TCWCAMP=TCWH*CAMP	9.107	48.445	8.245	98.690	0	2,012	28,860
TCWDRIVE	TCWDRIVE=TCWH*DRIVE	9.364	52.749	7.098	60.498	0	1,045	28,860
TCWFISH	TCWFISH=TCWH*FISH	8.186	47.228	7.990	74.701	0	1,378	28,860
TCWGEN	TCWGEN=TCWH*GENERAL	16.277	64.925	6.251	59.267	0	1,188	28,860
TCWHIKE	TCWHIKE=TCWH*HIKE	20.748	78.270	5.214	37.214	0	1,280	28,860
TCWHUNT	TCWHUNT=TCWH*HUNT	11.794	49.091	5.486	38.020	0	1,091	28,860

Table 5 Descriptive Statistics TOP5 Data*

TCWNAT	TCWNAT=TCWH*NATURE	4.400	36.522	10.300	120.644	0	663	28,860
TCWOHV	TCWOHV=TCWH*OHVUSE	2.763	29.269	17.974	418.712	0	837	28,860
TCWPCAMP	TCWPCAMP=TCWH*PCAMP	3.408	27.219	11.972	194.809	0	1,251	28,860
TCWPIC	TCWPIC=TCWH*PICNIC	1.896	21.454	16.879	362.110	0	1,375	28,860
TCWSKI	TCWSKI=TCWH*SKI	35.145	138.332	6.331	60.403	0	1,981	28,860
TCWSNWMB	TCWSNWMB=TCWH*SNOWMOB	1.825	23.093	16.411	308.187	0	739	28,860
TCWTRAIL	TCWTRAIL=TCWH*TRAIL	5.975	43.105	9.366	102.000	0	918	28,860
TCWVIEW	TCWVIEW=TCWH*VIEW	19.698	77.715	4.831	28.592	0	1,053	28,860
TCFWCAMP	TCFWCAMP=TCFWH*CAMP	9.642	49.812	7.463	78.233	0	2,014	28,860
TCFWDRVE	TCFWDRVE=TCFWH*DRIVE	9.745	54.024	6.667	49.536	0	1,028	28,860
TCFWFISH	TCFWFISH=TCFWH*FISH	8.658	48.754	7.597	65.334	0	556	28,860
TCFWGEN	TCFWGEN=TCFWH*GENERAL	17.430	65.418	4.739	27.539	0	1,153	28,860
TCFWHIKE	TCFWHIKE=TCFWH*HIKE	20.754	74.815	4.318	22.144	0	1,002	28,860
TCFWHUNT	TCFWHUNT=TCFWH*HUNT	13.124	54.158	5.402	36.473	0	1,113	28,860
TCFWNAT	TCFWNAT=TCFWH*NATURE	4.711	38.348	9.762	105.079	0	623	28,860
TCFWOHV	TCFWOHV=TCFWH*OHVUSE	2.722	25.670	12.584	180.919	0	540	28,860
TCFWPCMP	TCFWPCMP=TCFWH*PCAMP	3.727	29.197	10.990	150.515	0	1,268	28,860
TCFWPIC	TCFWPIC=TCFWH*PICNIC	2.103	23.302	15.291	258.874	0	540	28,860
TCFWSKI	TCFWSKI=TCFWH*SKI	32.118	117.701	5.418	47.792	0	1,680	28,860
TCFWSNWM	TCFWSNWM=TCFWH*SNOWMOB	2.047	25.333	15.343	258.226	0	827	28,860
	B							
TCFWTRL	TCFWTRL=TCFWH*TRAIL	5.961	41.752	8.658	83.536	0	540	28,860
TCFWVIEW	TCFWVIEW=TCFWH*VIEW	20.177	77.974	4.503	23.395	0	647	28,860

*TOP5 trimmed observations, stratified by RPA region and weighted by the composite weight

NVY=NEXPAND/NFV12MO1; **Please see sheet labeled "ACTIVITY DESCRIPTION" for descriptions of these variables.

Table 5 Descriptive Statistics TOP5 Data*

Northern								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
AGE	Age of respondent; median of age classes used	43.531	13.514	0.252	2.406	18	75	6,939
GENDER1	If female, then GENDER1=1; Else 0	0.252	0.434	1.144	2.307	0	1	6,939
HF	If NFV12MO1>15, HF=1; Else 0	0.066	0.247	3.512	13.332	0	1	6,939
INCES	IRS Average After Tax Income Per Zip Code	2.820	1.474	4.030	32.639	1	22	6,939
ONITE	If stayed overnight on National Forest=1; Else 0	0.204	0.403	1.466	3.149	0	1	6,939
PEOPVEH	Number of People in Vehicle on surveyed visit	2.039	1.029	1.670	8.045	1	10	6,939
PRACTD1S	One way distance from zip code of origin to National Forest site/GNIS centroid	205.922	211.213	2.379	9.684	0	1,244	6,939
TCFWH	Travel cost variable with opportunity cost of time valued at a flat \$5.25/per hour. TCFWH=(.12*2*practd1s)+((5.25)*2*TIME2)+recfees	93.482	91.826	2.338	10.234	0	2,511	6,939
TCH	Travel cost variable with no opportunity cost of time included. TCH=(.12*2*practd1s)+recfees	51.203	53.452	2.862	21.940	0	2,506	6,939
TCWH	Travel cost variable with opportunity cost valued at 1/3 the income-based wage rate TCWH=(.12*2*practd1s)+((.3333*(INCE/2000))*2*TIME2)+recfees	91.784	92.052	2.103	9.003	0	2,509	6,939

Table 5 Descriptive Statistics TOP5 Data*

Y	National Forest Visits in the Past 12 Months (NFV12MO+1)	4.985	13.256	12.025	231.658	1	365	6,939
CAMP**	IF CAMPING7=1 OR RESORT7=1 THEN CAMP=1; ELSE CAMP =0;	0.081	0.272	3.083	10.507	0	1	6,939
DRIVE	IF DRIVING7=1 OR H2OMOTR7=1 OR OTHMOTR7=1 OR SITESEE7=1 THEN DRIVE=1; ELSE DRIVE=0;	0.048	0.214	4.227	18.867	0	1	6,939
FISH	IF FISHING7=1 THEN FISH=1; ELSE FISH=0;	0.101	0.301	2.651	8.029	0	1	6,939
GENERAL	IF GENERAL7=1 THEN GENERAL=1; ELSE GENERAL=0;	0.072	0.259	3.309	11.946	0	1	6,939
HIKE	IF HIKE7=1 THEN HIKE=1; ELSE HIKE=0;	0.206	0.405	1.453	3.112	0	1	6,939
HUNT	IF HUNTING7=1 THEN HUNT=1; ELSE HUNT=0;	0.081	0.273	3.074	10.449	0	1	6,939
NATURE	IF GATHER7=1 OR HISTORY7=1 OR NATCENT7=1 OR NATSTUD7=1 THEN NATURE=1; ELSE NATURE=0;	0.036	0.187	4.964	25.638	0	1	6,939
OHVUSE	IF OHVUSE7=1 THEN OHVUSE=1; ELSE OHVUSE=0;	0.032	0.175	5.347	29.586	0	1	6,939
PCAMP	IF PCAMP7=1 OR BPACK7=1 THEN PCAMP=1; ELSE PCAMP =0;	0.051	0.219	4.096	17.778	0	1	6,939
PICNIC	IF PICNIC7=1 THEN PICNIC=1; ELSE PICNIC=0;	0.026	0.159	5.975	36.696	0	1	6,939
SKI	IF DOWNSKI7=1 OR XCSKI7=1 THEN SKI=1; ELSE SKI =0;	0.115	0.319	2.408	6.799	0	1	6,939

Table 5 Descriptive Statistics TOP5 Data*

SNOWMOB	IF SNOWMOB7=1 THEN SNOWMOB=1; ELSE SNOWMOB=0;	0.052	0.222	4.028	17.227	0	1	6,939
TRAIL	IF BIKING7=1 OR HORSE7=1 OR H2ONMOT7=1 THEN TRAIL=1; ELSE TRAIL=0;	0.033	0.179	5.221	28.264	0	1	6,939
VIEW	IF VIEWNAT7=1 OR VIEWWLD7=1 OR VIEWOFF7=1 THEN VIEW =1; ELSE VIEW=0;	0.123	0.329	2.290	6.242	0	1	6,939
TCCAMP	TCCAMP=TCH*CAMP	3.799	16.520	6.387	58.986	0	443	6,939
TCDRIVE	TCDRIVE=TCH*DRIVE	1.928	13.010	10.756	153.127	0	275	6,939
TCFISH	TCFISH=TCH*FISH	4.044	16.119	5.289	36.915	0	209	6,939
TCGEN	TCGEN=TCH*GENERAL	3.618	16.476	5.835	41.731	0	256	6,939
TCHIKE	TCHIKE=TCH*HIKE	15.331	44.959	3.886	19.181	0	388	6,939
TCHUNT	TCHUNT=TCH*HUNT	2.840	13.537	7.708	92.607	0	281	6,939
TCNAT	TCNAT=TCH*NATURE	2.020	14.223	10.142	133.125	0	264	6,939
TCOHV	TCOHV=TCH*OHVUSE	1.240	8.316	8.212	78.375	0	157	6,939
TCPCAMP	TCPCAMP=TCH*PCAMP	2.824	18.364	11.456	179.490	0	584	6,939
TCPICNIC	TCPICNIC=TCH*PICNIC	0.716	6.104	15.867	441.312	0	288	6,939
TCSKI	TCSKI=TCH*SKI	5.659	23.847	11.659	229.561	0	564	6,939
TCSNOWMB	TCSNOWMB=TCH*SNOWMOB	2.104	12.014	8.260	87.943	0	179	6,939
TCTRAIL	TCTRAIL=TCH*TRAIL	1.664	13.086	23.316	2,492.640	0	2,506	6,939
TCVIEW	TCVIEW=TCH*VIEW	9.167	36.819	5.463	35.373	0	298	6,939
TCWCAMP	TCWCAMP=TCWH*CAMP	6.231	26.630	6.021	51.362	0	532	6,939
TCWDRIVE	TCWDRIVE=TCWH*DRIVE	3.280	22.683	11.146	162.465	0	504	6,939
TCWFISH	TCWFISH=TCWH*FISH	7.231	29.371	5.356	36.580	0	415	6,939
TCWGEN	TCWGEN=TCWH*GENERAL	6.182	28.720	6.058	44.835	0	454	6,939
TCWHIKE	TCWHIKE=TCWH*HIKE	28.034	79.757	3.614	16.670	0	660	6,939
TCWHUNT	TCWHUNT=TCWH*HUNT	5.106	24.449	6.938	67.077	0	436	6,939

Table 5 Descriptive Statistics TOP5 Data*

TCWNAT	TCWNAT=TCWH*NATURE	3.410	23.748	10.258	142.813	0	620	6,939
TCWOHV	TCWOHV=TCWH*OHVUSE	2.045	13.665	8.210	80.331	0	279	6,939
TCWPCAMP	TCWPCAMP=TCWH*PCAMP	5.165	31.432	8.864	97.468	0	641	6,939
TCWPIC	TCWPIC=TCWH*PICNIC	1.164	9.879	15.916	464.478	0	569	6,939
TCWSKI	TCWSKI=TCWH*SKI	10.963	41.639	6.543	68.199	0	661	6,939
TCWSNWMB	TCWSNWMB=TCWH*SNOWMOB	3.712	20.885	7.672	71.146	0	263	6,939
 TCWTRAIL	 TCWTRAIL=TCWH*TRAIL	 3.156	 23.766	 12.371	 358.462	 0	 2,509	 6,939
TCWVIEW	TCWVIEW=TCWH*VIEW	16.403	65.223	5.255	32.394	0	709	6,939
 TCFWCAMP	 TCFWCAMP=TCFWH*CAMP	 6.745	 28.685	 6.088	 53.233	 0	 550	 6,939
TCFWDRVE	TCFWDRVE=TCFWH*DRIVE	3.635	24.016	10.450	145.589	0	488	6,939
TCFWFISH	TCFWFISH=TCFWH*FISH	7.668	30.016	5.105	34.261	0	362	6,939
TCFWGEN	TCFWGEN=TCFWH*GENERAL	6.498	29.360	5.839	42.384	0	453	6,939
TCFWHIKE	TCFWHIKE=TCFWH*HIKE	27.814	80.383	3.825	18.693	0	640	6,939
TCFWHUNT	TCFWHUNT=TCFWH*HUNT	5.398	24.901	7.122	79.991	0	507	6,939
TCFWNAT	TCFWNAT=TCFWH*NATURE	3.744	25.845	9.848	126.464	0	486	6,939
TCFWOHV	TCFWOHV=TCFWH*OHVUSE	2.249	14.844	8.002	74.743	0	276	6,939
TCFWPCMP	TCFWPCMP=TCFWH*PCAMP	5.126	31.970	10.192	130.604	0	672	6,939
TCFWPIC	TCFWPIC=TCFWH*PICNIC	1.322	11.228	15.847	435.930	0	540	6,939
TCFWSKI	TCFWSKI=TCFWH*SKI	9.853	36.366	6.981	83.087	0	612	6,939
TCFWSNWM	TCFWSNWM=TCFWH*SNOWMOB	4.050	22.517	8.042	84.404	0	332	6,939
	B							
TCFWTRL	TCFWTRL=TCFWH*TRAIL	3.026	22.578	13.512	439.012	0	2,511	6,939
TCFWVIEW	TCFWVIEW=TCFWH*VIEW	16.772	66.389	5.380	34.399	0	550	6,939

*TOP5 trimmed observations, stratified by RPA region and weighted by the composite weight

NVY=NEXPAND/NFV12MO1; **Please see sheet labeled "ACTIVITY DESCRIPTION" for descriptions of these variables.

Table 5 Descriptive Statistics TOP5 Data*

Southern								
Variable	Description	Mean	StdDev.	Skew	Kurt.	Min.	Max.	Nobs
AGE	Age of respondent; median of age classes used	44.606	14.014	0.148	2.215	18	75	6,126
GENDER1	If female, then GENDER1=1; Else 0	0.250	0.433	1.156	2.335	0	1	6,126
HF	If NFV12MO1>15, HF=1; Else 0	0.070	0.256	3.356	12.261	0	1	6,126
INCES	IRS Average After Tax Income Per Zip Code	2.311	0.874	3.030	20.034	1	16	6,126
ONITE	If stayed overnight on National Forest=1; Else 0	0.191	0.393	1.572	3.470	0	1	6,126
PEOPVEH	Number of People in Vehicle on surveyed visit	1.959	1.009	1.882	8.842	1	10	6,126
PRACTD1S	One way distance from zip code of origin to National Forest site/GNIS centroid	216.696	270.343	1.831	6.077	0	1,242	6,126
TCFWH	Travel cost variable with opportunity cost of time valued at a flat \$5.25/per hour. TCFWH=(.12*2*practd1s)+((5.25)*2*TIME2)+recfees	93.905	111.526	1.762	5.825	0	818	6,126
TCH	Travel cost variable with no opportunity cost of time included. TCH=(.12*2*practd1s)+recfees	53.024	65.236	1.831	6.406	0	810	6,126
TCWH	Travel cost variable with opportunity cost valued at 1/3 the income-based wage rate TCWH=(.12*2*practd1s)+((.3333*(INCE/2000))*2*TIME2)+recfees	85.301	104.654	1.926	6.908	0	1,090	6,126

Table 5 Descriptive Statistics TOP5 Data*

Y	National Forest Visits in the Past 12 Months (NFV12MO+1)	5.276	14.344	12.182	216.325	1	365	6,126
CAMP**	IF CAMPING7=1 OR RESORT7=1 THEN CAMP=1; ELSE CAMP =0;	0.082	0.274	3.053	10.323	0	1	6,126
DRIVE	IF DRIVING7=1 OR H2OMOTR7=1 OR OTHMOTR7=1 OR SITESEE7=1 THEN DRIVE=1; ELSE DRIVE=0;	0.098	0.297	2.712	8.355	0	1	6,126
FISH	IF FISHING7=1 THEN FISH=1; ELSE FISH=0;	0.125	0.331	2.269	6.149	0	1	6,126
GENERAL	IF GENERAL7=1 THEN GENERAL=1; ELSE GENERAL=0;	0.117	0.321	2.382	6.676	0	1	6,126
HIKE	IF HIKE7=1 THEN HIKE=1; ELSE HIKE=0;	0.137	0.344	2.115	5.474	0	1	6,126
HUNT	IF HUNTING7=1 THEN HUNT=1; ELSE HUNT=0;	0.119	0.324	2.351	6.525	0	1	6,126
NATURE	IF GATHER7=1 OR HISTORY7=1 OR NATCENT7=1 OR NATSTUD7=1 THEN NATURE=1; ELSE NATURE=0;	0.082	0.274	3.052	10.313	0	1	6,126
OHVUSE	IF OHVUSE7=1 THEN OHVUSE=1; ELSE OHVUSE=0;	0.030	0.171	5.480	31.031	0	1	6,126
PCAMP	IF PCAMP7=1 OR BPACK7=1 THEN PCAMP=1; ELSE PCAMP =0;	0.045	0.208	4.383	20.211	0	1	6,126
PICNIC	IF PICNIC7=1 THEN PICNIC=1; ELSE PICNIC=0;	0.035	0.184	5.055	26.550	0	1	6,126
SKI	IF DOWNSKI7=1 OR XCSKI7=1 THEN SKI=1; ELSE SKI =0;	0.000	0.020	49.938	2,494.810	0	1	6,126

Table 5 Descriptive Statistics TOP5 Data*

SNOWMOB	IF SNOWMOB7=1 THEN SNOWMOB=1; ELSE SNOWMOB=0;	0.000	0.000	0.000	0.000	0	0	6,126
TRAIL	IF BIKING7=1 OR HORSE7=1 OR H2ONMOT7=1 THEN TRAIL=1; ELSE TRAIL=0;	0.036	0.187	4.974	25.741	0	1	6,126
VIEW	IF VIEWNAT7=1 OR VIEWWLD7=1 OR VIEWOFF7=1 THEN VIEW =1; ELSE VIEW=0;	0.122	0.328	2.303	6.304	0	1	6,126
TCCAMP	TCCAMP=TCH*CAMP	8.112	41.234	6.075	40.285	0	322	6,126
TCDRIVE	TCDRIVE=TCH*DRIVE	4.866	22.876	6.665	55.619	0	292	6,126
TCFISH	TCFISH=TCH*FISH	6.351	24.335	4.315	22.120	0	262	6,126
TCGEN	TCGEN=TCH*GENERAL	3.085	16.322	10.043	131.076	0	282	6,126
TCHIKE	TCHIKE=TCH*HIKE	9.225	33.687	4.567	30.051	0	810	6,126
TCHUNT	TCHUNT=TCH*HUNT	2.390	11.319	7.908	84.311	0	187	6,126
TCNAT	TCNAT=TCH*NATURE	6.941	31.996	5.760	38.678	0	292	6,126
TCOHV	TCOHV=TCH*OHVUSE	0.785	6.602	13.575	235.967	0	185	6,126
TCPCAMP	TCPCAMP=TCH*PCAMP	2.737	18.586	9.079	97.014	0	288	6,126
TCPICNIC	TCPICNIC=TCH*PICNIC	1.360	12.565	14.997	274.735	0	443	6,126
TCSKI	TCSKI=TCH*SKI	0.023	1.625	79.622	6,439.320	0	132	6,126
TCSNOWMB	TCSNOWMB=TCH*SNOWMOB	0.000	0.000	0.000	0.000	0	0	6,126
TCTRAIL	TCTRAIL=TCH*TRAIL	1.358	10.609	12.037	180.627	0	282	6,126
TCVIEW	TCVIEW=TCH*VIEW	8.280	32.336	4.626	25.033	0	294	6,126
TCWCAMP	TCWCAMP=TCWH*CAMP	13.446	67.821	6.051	40.155	0	505	6,126
TCWDRIVE	TCWDRIVE=TCWH*DRIVE	8.146	39.089	7.149	65.415	0	494	6,126
TCWFISH	TCWFISH=TCWH*FISH	9.806	37.183	4.296	22.167	0	411	6,126
TCWGEN	TCWGEN=TCWH*GENERAL	4.923	25.586	9.924	127.051	0	427	6,126
TCWHIKE	TCWHIKE=TCWH*HIKE	14.530	52.382	4.473	25.739	0	814	6,126
TCWHUNT	TCWHUNT=TCWH*HUNT	3.635	16.488	7.423	75.078	0	274	6,126

Table 5 Descriptive Statistics TOP5 Data*

TCWNAT	TCWNAT=TCWH*NATURE	11.335	51.531	5.682	39.598	0	1,090	6,126
TCWOHV	TCWOHV=TCWH*OHVUSE	1.271	10.888	13.781	232.763	0	252	6,126
TCWPCAMP	TCWPCAMP=TCWH*PCAMP	4.678	31.575	9.371	113.496	0	687	6,126
TCWPIC	TCWPIC=TCWH*PICNIC	2.160	19.999	14.940	267.175	0	468	6,126
TCWSKI	TCWSKI=TCWH*SKI	0.043	3.077	80.363	6,527.400	0	250	6,126
TCWSNWMB	TCWSNWMB=TCWH*SNOWMOB	0.000	0.000	0.000	0.000	0	0	6,126
 TCWTRAIL	 TCWTRAIL=TCWH*TRAIL	 2.367	 17.624	 10.862	 144.127	 0	 417	 6,126
TCWVIEW	TCWVIEW=TCWH*VIEW	13.301	51.923	4.757	27.270	0	472	6,126
 TCFWCAMP	 TCFWCAMP=TCFWH*CAMP	 13.987	 70.189	 6.021	 39.699	 0	 515	 6,126
TCFWDRVE	TCFWDRVE=TCFWH*DRIVE	8.816	40.333	6.411	51.438	0	492	6,126
TCFWFISH	TCFWFISH=TCFWH*FISH	11.273	42.605	4.262	21.462	0	452	6,126
TCFWGEN	TCFWGEN=TCFWH*GENERAL	5.608	28.536	9.838	128.182	0	529	6,126
TCFWHIKE	TCFWHIKE=TCFWH*HIKE	16.130	57.848	4.273	22.305	0	818	6,126
TCFWHUNT	TCFWHUNT=TCFWH*HUNT	4.264	18.583	7.101	69.250	0	283	6,126
TCFWNAT	TCFWNAT=TCFWH*NATURE	12.475	56.396	5.641	37.349	0	492	6,126
TCFWOHV	TCFWOHV=TCFWH*OHVUSE	1.412	11.339	12.352	188.578	0	243	6,126
TCFWPCMP	TCFWPCMP=TCFWH*PCAMP	4.890	32.817	9.080	97.860	0	540	6,126
TCFWPIC	TCFWPIC=TCFWH*PICNIC	2.447	21.931	14.559	256.421	0	476	6,126
TCFWSKI	TCFWSKI=TCFWH*SKI	0.041	2.839	79.305	6,401.160	0	230	6,126
TCFWSNWM	TCFWSNWM=TCFWH*SNOWMOB	0.000	0.000	0.000	0.000	0	0	6,126
	B							
TCFWTRL	TCFWTRL=TCFWH*TRAIL	2.385	18.195	11.866	177.871	0	515	6,126
TCFWVIEW	TCFWVIEW=TCFWH*VIEW	14.702	56.412	4.527	23.934	0	493	6,126

*TOP5 trimmed observations, stratified by RPA region and weighted by the composite weight

NVY=NEXPAND/NFV12MO1; **Please see sheet labeled "ACTIVITY DESCRIPTION" for descriptions of these variables.

Table 6 Means for Select Variables

	Weighted by NVY for ALL					
	TRAIL	CAMP	SKI	DRIVE	FISH	NATURE
TCH	116.112	89.334	184.151	120.027	75.341	134.533
Y	5.479	2.655	5.422	3.855	5.093	3.594
AGE	40.647	42.698	40.962	47.159	45.487	49.117
INCE	32,683.900	27,329.300	36,373.900	27,191.200	25,342.000	27,099.200
GENDER1	0.328	0.318	0.371	0.321	0.144	0.298
PRACTD1S	476.015	360.268	716.163	496.467	309.230	555.914
ONITE	0.213	0.687	0.049	0.086	0.286	0.075
NFDAYS	1.984	3.247	1.826	1.429	2.347	1.449
PEOPVEH	1.990	2.366	2.244	1.978	1.909	2.206
NOBS	3,586	6,330	4,966	4,070	6,660	2,301
Unweighted						
	TRAIL	CAMP	SKI	DRIVE	FISH	NATURE
TCH	52.101	60.323	66.058	80.126	44.924	95.981
Y	35.171	8.629	38.183	20.337	20.559	18.452
AGE	41.002	42.570	40.444	45.630	44.736	46.953
INCE	29,666.800	25,603.400	31,324.000	25,859.700	24,803.100	25,864.300
GENDER1	0.295	0.361	0.328	0.320	0.173	0.360
PRACTD1S	206.677	235.171	246.423	327.560	180.538	393.378
ONITE	0.270	0.721	0.051	0.137	0.294	0.115
NFDAYS	2.059	3.482	1.432	1.623	2.230	1.571
PEOPVEH	2.314	2.943	2.510	2.584	2.404	2.585
NOBS	3,586	6,330	4,966	4,070	6,660	2,301
Weighted by NVY for TOP5						
	TRAIL	CAMP	SKI	DRIVE	FISH	NATURE
TCH	62.318	63.213	100.484	59.532	51.657	74.425
Y	6.112	2.735	6.338	4.268	5.335	3.931
AGE	40.179	42.190	40.044	46.737	45.893	48.475
INCE	31,847.700	27,523.400	35,473.400	26,931.800	25,225.400	25,745.300
GENDER1	0.337	0.328	0.366	0.324	0.149	0.284
PRACTD1S	255.305	250.892	364.627	244.530	210.362	305.674
ONITE	0.227	0.681	0.053	0.085	0.295	0.076
NFDAYS	1.974	3.241	1.682	1.415	2.374	1.453
PEOPVEH	1.942	2.388	2.260	1.974	1.920	2.175
NOBS	3,462	6,083	4,708	3,722	6,506	2,071
Unweighted (RA)						
	TRAIL	CAMP	SKI	DRIVE	FISH	NATURE
TCH	35.992	43.387	42.287	39.866	34.987	49.698
Y	36.320	8.864	39.941	22.032	20.968	20.255

AGE	40.969	42.415	40.264	45.324	44.652	46.566
INCE	29,402.000	25,463.300	30,861.700	25,474.000	24,686.900	25,423.400
GENDER1	0.294	0.360	0.327	0.313	0.173	0.354
PRACTD1S	139.515	164.250	147.099	159.858	139.262	200.413
ONITE	0.270	0.723	0.050	0.141	0.294	0.112
NFDAYS	2.030	3.458	1.364	1.629	2.218	1.554
PEOPVEH	2.304	2.956	2.485	2.596	2.407	2.565
NOBS	3,462	6,083	4,708	3,722	6,506	2,071

Variables Stratified by Activity Participation

Data (NVY=(NVEXPAND/Y)/PEOPVEH)

GENERAL	HIKE	HUNT	OHVUSE	PACAMP	PICNIC	SNOWMOB
88.468	123.936	57.156	102.486	98.299	65.392	87.157
3.198	4.769	5.717	5.098	3.067	3.834	6.630
44.434	44.275	46.486	39.780	38.614	45.167	39.649
27,897.700	30,247.300	23,030.300	26,721.400	28,449.500	23,882.400	25,121.800
0.332	0.391	0.026	0.151	0.235	0.387	0.138
362.237	512.716	233.801	381.829	403.674	266.284	355.409
0.335	0.122	0.371	0.322	0.781	0.071	0.057
2.448	1.736	3.364	2.320	3.188	1.441	1.374
2.118	1.980	1.684	1.860	2.041	2.580	2.039
7,880	13,840	3,897	1,991	3,204	2,157	1,542

ed (RAW) for ALL Data

GENERAL	HIKE	HUNT	OHVUSE	PACAMP	PICNIC	SNOWMOB
61.478	64.877	36.382	37.487	63.746	50.208	56.321
16.818	34.976	24.962	20.252	10.331	15.644	27.335
42.925	42.599	43.013	39.432	38.688	42.886	40.040
26,452.900	30,544.700	22,284.000	26,624.300	27,626.600	23,819.500	24,635.900
0.373	0.410	0.050	0.155	0.275	0.406	0.160
248.422	265.207	145.895	148.946	256.797	201.442	224.506
0.388	0.130	0.331	0.329	0.756	0.085	0.080
2.475	1.572	2.815	2.084	3.253	1.463	1.501
2.736	2.347	1.967	2.292	2.724	3.389	2.569
7,880	13,840	3,897	1,991	3,204	2,157	1,542

Data (NVY=(NVEXPAND/Y)/PEOPVEH)

GENERAL	HIKE	HUNT	OHVUSE	PACAMP	PICNIC	SNOWMOB
58.131	64.684	48.010	56.249	65.367	40.935	57.182
3.326	5.280	5.809	5.436	3.098	3.970	7.063
44.231	43.907	46.478	40.203	38.781	44.829	39.414
27,605.000	29,875.000	22,954.300	27,056.400	28,311.300	23,424.900	24,434.700
0.333	0.399	0.026	0.152	0.232	0.387	0.124
235.528	266.441	195.771	185.215	266.851	166.934	231.214
0.338	0.122	0.364	0.293	0.781	0.072	0.058
2.477	1.735	3.287	2.165	3.206	1.446	1.370
2.111	1.957	1.683	1.907	2.072	2.591	2.038
7,507	12,911	3,829	1,958	3,069	2,064	1,483

W) for TRIMMED TOP5 Data

GENERAL	HIKE	HUNT	OHVUSE	PACAMP	PICNIC	SNOWMOB
39.161	33.527	29.483	30.678	44.317	29.905	40.215
17.525	37.270	25.336	20.546	10.676	16.166	28.291

42.683	42.389	42.935	39.333	38.589	42.750	39.911
26,212.300	30,169.500	22,216.300	26,581.800	27,466.900	23,461.000	24,397.400
0.374	0.412	0.051	0.153	0.276	0.409	0.156
155.228	134.911	117.621	120.470	175.737	118.779	158.540
0.393	0.130	0.326	0.331	0.758	0.086	0.081
2.456	1.550	2.756	2.080	3.208	1.449	1.496
2.738	2.331	1.957	2.294	2.744	3.399	2.554
7,507	12,911	3,829	1,958	3,069	2,064	1,483

VIEW

161.698

2.902

48.334

28,755.900

0.324

670.615

0.075

1.474

2.182

7,104

VIEW

108.371

16.700

46.485

27,237.900

0.366

446.979

0.107

1.544

2.582

7,104

VIEW

75.169

3.340

47.921

28,377.200

0.320

309.984

0.078

1.489

2.191

6,229

VIEW

51.671

18.779

46.085
26,663.400
0.367
211.311
0.109
1.539
2.569
6,229

Table 7 Comparing Weighted and Unweighted Means for Selected Variables

	Mean	Std.Dev.	Skewness	Kurtosis	Min.	Max.	NOBS
<i>Unweighted</i>							
Y	24.923	52.583	3.958	20.704	1	365	64894
PRACTD1S	149.171	213.006	2.776	11.297	0	1250	64894
TCH	37.974	58.915	10.497	495.717	0	4244.23	64894
TCWH	67.180	101.238	4.799	75.850	0	4291.36	64894
HF	0.311	0.463	0.818	1.669	0	1	64894
INCES	2.687	1.363	4.458	39.379	0.32222	25	64894
GENDER1	0.316	0.465	0.791	1.625	0	1	64894
PEOPVEH	2.555	1.441	1.484	5.919	1	10	64894
AGE	42.590	13.247	0.201	2.424	17.5	75	64894
<i>Weighted by NVEXPAND</i>							
Y	38.055	68.726	2.938	11.590	1	365	6126
PRACTD1S	107.421	183.783	3.236	14.950	0	1241.5	6126
TCH	26.908	45.041	3.157	15.019	0.0001	809.6	6126
TCWH	43.147	71.936	3.260	15.778	0.0001	1090.32	6126
HF	0.437	0.496	0.252	1.063	0	1	6126
INCES	2.098	0.740	3.521	27.284	0.80062	16.1766	6126
GENDER1	0.193	0.395	1.552	3.410	0	1	6126
PEOPVEH	2.196	1.328	1.876	7.711	1	10	6126
AGE	44.076	13.892	0.258	2.359	17.5	75	6126
<i>Weighted by NVY=NVEXPAND/Y</i>							
Y	4.481	12.267	13.839	285.338	1	365	6126
PRACTD1S	225.354	275.702	1.764	5.665	0	1241.5	6126
TCH	55.195	66.617	1.759	5.933	0.0001	809.6	6126
TCWH	88.870	106.577	1.841	6.354	0.0001	1090.32	6126
HF	0.054	0.226	3.943	16.548	0	1	6126
INCES	2.331	0.898	2.972	19.588	0.80062	16.1766	6126
GENDER1	0.287	0.452	0.943	1.890	0	1	6126
PEOPVEH	2.479	1.316	1.648	6.599	1	10	6126
AGE	44.391	14.052	0.203	2.246	17.5	75	6126
<i>Weighted by NVY=(NVEXPAND/Y)/PEOPVEH</i>							
Y	5.278	14.352	12.165	215.774	1	365	6126
PRACTD1S	216.587	270.289	1.832	6.081	0	1241.5	6126
TCH	52.997	65.224	1.832	6.410	0.0001	809.6	6126
TCWH	85.257	104.634	1.927	6.912	0.0001	1090.32	6126
HF	0.070	0.256	3.356	12.262	0	1	6126
INCES	2.311	0.874	3.031	20.045	0.80062	16.1766	6126
GENDER1	0.250	0.433	1.156	2.337	0	1	6126

PEOPVEH	1.960	1.009	1.881	8.838	1	10	6126
AGE	44.604	14.013	0.148	2.214	17.5	75	6126

Table 8 Correlation ALL Data

	Y	TCH	TCWH	TCFWH	TCCAMP	TCDRIVE	TCFISH
Y	1.0000	-0.0493	-0.0152	-0.0272	-0.0372	-0.0743	0.0910
TCH	-0.0493	1.0000	-0.0478	0.0715	-0.0371	0.1250	0.0168
TCWH	-0.0152	-0.0478	1.0000	-0.0463	-0.0782	-0.0878	-0.1305
TCFWH	-0.0272	0.0715	-0.0463	1.0000	-0.0363	0.0325	0.1456
TCCAMP	-0.0372	-0.0371	-0.0782	-0.0363	1.0000	0.0127	-0.0506
TCDRIVE	-0.0743	0.1250	-0.0878	0.0325	0.0127	1.0000	0.0270
TCFISH	0.0910	0.0168	-0.1305	0.1456	-0.0506	0.0270	1.0000
TCGEN	0.0901	0.0150	-0.1315	0.1453	-0.0440	0.0319	0.9913
TCHIKE	0.0848	0.0141	-0.1290	0.1463	-0.0482	0.0317	0.9812
TCHUNT	0.0847	0.0258	-0.1242	0.3294	-0.0563	0.0373	0.9506
TCNAT	-0.0089	-0.0380	0.6410	-0.0358	-0.0666	-0.0874	-0.1383
TCOHV	-0.0271	0.0114	-0.0406	-0.0284	0.3160	0.0684	-0.0474
TCPCAMP	0.0666	0.0133	-0.0095	-0.0312	-0.0961	-0.0280	0.0087
TCPICNIC	0.0325	-0.1015	0.0317	-0.0683	0.0436	-0.0469	-0.0714
TCSKI	0.0114	0.0248	-0.0323	-0.0221	0.0937	0.0085	-0.0580
TCSNOWMB	0.0090	0.0862	-0.0006	0.0399	-0.1073	-0.0417	0.0232
TCTRAIL	0.0542	-0.1779	0.0345	-0.1130	0.1039	-0.1048	-0.1034
TCVIEW	0.0757	-0.0008	-0.0042	-0.0231	-0.0725	0.0203	0.0234
TCWCAMP	-0.0528	-0.0558	0.0138	-0.0238	0.0398	-0.0342	-0.0231
TCWDRIVE	-0.0770	-0.0276	-0.0182	-0.0051	0.2602	-0.0084	-0.0202
TCWFISH	0.0129	0.0285	-0.0041	-0.0489	-0.0556	0.0641	-0.0454
TCWGEN	-0.0880	0.0611	0.0432	0.1954	-0.1668	0.0529	0.1373
TCWHIKE	-0.0363	-0.0405	0.0341	-0.0278	-0.0459	-0.0051	-0.0197
TCWHUNT	-0.0512	0.0125	0.0207	0.0525	-0.0062	-0.0181	0.0001
TCWNAT	0.1241	0.0200	-0.0414	-0.0023	-0.1406	0.0312	0.1097
TCWOHV	0.0110	-0.0155	-0.0325	-0.0177	0.1958	0.0191	0.1413
TCWPCAMP	0.0580	0.0122	-0.0315	-0.0064	-0.0458	-0.0085	0.2395
TCWPIC	0.0085	-0.0662	-0.0261	-0.0176	0.0230	-0.0304	0.1228
TCWSKI	0.0450	-0.0062	-0.0379	0.0242	0.0353	0.0078	0.2024
TCWSNWMB	0.0402	0.0316	-0.0468	0.0430	-0.0515	-0.0040	0.3605
TCWTRAIL	0.0687	-0.1031	-0.0224	-0.0435	0.0899	-0.0405	0.0525
TCWVIEW	0.0669	0.0059	-0.0237	0.0317	-0.0422	0.0263	0.1834
TCFWCAMP	-0.0507	-0.0278	-0.0157	-0.0213	0.0809	-0.0323	0.1307
TCFWDRVE	-0.0398	-0.0208	-0.0220	-0.0018	0.1480	-0.0279	0.1210
TCFWFISH	0.0277	0.0082	-0.0136	-0.0016	-0.0274	0.0311	0.0689
TCFWGEN	-0.0199	0.0369	-0.0396	0.1698	-0.1093	0.0442	0.4085
TCFWHIKE	-0.0120	-0.0120	-0.0073	-0.0030	-0.0272	0.0084	0.0594
TCFWHUNT	-0.0139	0.0056	-0.0226	0.0587	-0.0156	0.0002	0.1534
TCFWNAT	0.1013	0.0106	-0.0509	0.0267	-0.0870	0.0217	0.4077
TCFWOHV	0.0055	-0.0121	-0.0328	0.0122	0.1968	0.0234	0.1367

	TCGEN	TCHIKE	TCHUNT	TCNAT	TCOHV	TCPCAMP	TCPICNIC
Y	0.0901	0.0848	0.0847	-0.0089	-0.0271	0.0666	0.0325
TCH	0.0150	0.0141	0.0258	-0.0380	0.0114	0.0133	-0.1015
TCWH	-0.1315	-0.1290	-0.1242	0.6410	-0.0406	-0.0095	0.0317
TCFWH	0.1453	0.1463	0.3294	-0.0358	-0.0284	-0.0312	-0.0683
TCCAMP	-0.0440	-0.0482	-0.0563	-0.0666	0.3160	-0.0961	0.0436
TCDRIVE	0.0319	0.0317	0.0373	-0.0874	0.0684	-0.0280	-0.0469
TCFISH	0.9913	0.9812	0.9506	-0.1383	-0.0474	0.0087	-0.0714
TCGEN	1.0000	0.9948	0.9576	-0.1396	-0.0467	0.0065	-0.0726
TCHIKE	0.9948	1.0000	0.9534	-0.1371	-0.0467	0.0047	-0.0731
TCHUNT	0.9576	0.9534	1.0000	-0.1318	-0.0527	-0.0038	-0.0767
TCNAT	-0.1396	-0.1371	-0.1318	1.0000	-0.0380	-0.0105	0.0190
TCOHV	-0.0467	-0.0467	-0.0527	-0.0380	1.0000	-0.0623	-0.0574
TCPCAMP	0.0065	0.0047	-0.0038	-0.0105	-0.0623	1.0000	-0.0603
TCPICNIC	-0.0726	-0.0731	-0.0767	0.0190	-0.0574	-0.0603	1.0000
TCSKI	-0.0559	-0.0599	-0.0560	-0.0318	-0.0774	-0.0727	-0.0944
TCSNOWMB	0.0203	0.0171	0.0173	0.0163	-0.1127	-0.0983	-0.1223
TCTRAIL	-0.1020	-0.1045	-0.1059	0.0339	-0.0820	-0.0804	-0.0747
TCVIEW	0.0216	0.0205	0.0237	-0.0116	-0.0490	-0.0377	-0.0552
TCWCAMP	-0.0179	-0.0148	-0.0248	0.0110	-0.0459	-0.0429	-0.0483
TCWDRIVE	-0.0199	-0.0217	-0.0238	-0.0195	0.0270	-0.0489	-0.0432
TCWFISH	-0.0450	-0.0457	-0.0452	-0.0057	-0.0096	-0.0082	-0.0364
TCWGEN	0.1472	0.1555	0.1764	0.0358	-0.1106	-0.1089	-0.1179
TCWHIKE	-0.0190	-0.0201	-0.0212	0.0214	-0.0321	-0.0279	-0.0336
TCWHUNT	-0.0015	-0.0014	0.0060	0.0198	-0.0513	-0.0575	-0.0512
TCWNAT	0.1030	0.1018	0.0900	-0.0443	-0.1019	-0.0708	-0.1076
TCWOHV	0.1416	0.1415	0.1156	-0.0334	0.5628	-0.0270	-0.0286
TCWPCAMP	0.2371	0.2331	0.2059	-0.0344	-0.0317	0.5587	-0.0354
TCWPIC	0.1199	0.1185	0.1006	-0.0267	-0.0241	-0.0271	0.5408
TCWSKI	0.2047	0.1975	0.1936	-0.0400	-0.0459	-0.0437	-0.0517
TCWSNWMB	0.3575	0.3506	0.3315	-0.0499	-0.0638	-0.0529	-0.0697
TCWTRAIL	0.0553	0.0519	0.0381	-0.0225	-0.0467	-0.0460	-0.0426
TCWVIEW	0.1813	0.1785	0.1950	-0.0271	-0.0325	-0.0215	-0.0354
TCFWCAMP	0.1409	0.1497	0.1125	-0.0163	-0.0233	-0.0220	-0.0241
TCFWDRVE	0.1217	0.1187	0.1022	-0.0189	0.0081	-0.0307	-0.0279
TCFWFISH	0.0722	0.0693	0.0686	-0.0139	-0.0132	-0.0116	-0.0202
TCFWGEN	0.4400	0.4624	0.4660	-0.0430	-0.0694	-0.0703	-0.0733
TCFWHIKE	0.0606	0.0587	0.0535	-0.0094	-0.0182	-0.0140	-0.0190
TCFWHUNT	0.1515	0.1517	0.1593	-0.0228	-0.0293	-0.0342	-0.0326
TCFWNAT	0.3986	0.3954	0.3683	-0.0562	-0.0645	-0.0443	-0.0675
TCFWOHV	0.1371	0.1352	0.1183	-0.0339	0.5712	-0.0278	-0.0291

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	TCSKI	TCSNOWMB	TCTRAIL	TCVIEW	TCWCAMP	TCWDRIVE
Y	0.0114	0.0090	0.0542	0.0757	-0.0528	-0.0770
TCH	0.0248	0.0862	-0.1779	-0.0008	-0.0558	-0.0276
TCWH	-0.0323	-0.0006	0.0345	-0.0042	0.0138	-0.0182
TCFWH	-0.0221	0.0399	-0.1130	-0.0231	-0.0238	-0.0051
TCCAMP	0.0937	-0.1073	0.1039	-0.0725	0.0398	0.2602
TCDRIVE	0.0085	-0.0417	-0.1048	0.0203	-0.0342	-0.0084
TCFISH	-0.0580	0.0232	-0.1034	0.0234	-0.0231	-0.0202
TCGEN	-0.0559	0.0203	-0.1020	0.0216	-0.0179	-0.0199
TCHIKE	-0.0599	0.0171	-0.1045	0.0205	-0.0148	-0.0217
TCHUNT	-0.0560	0.0173	-0.1059	0.0237	-0.0248	-0.0238
TCNAT	-0.0318	0.0163	0.0339	-0.0116	0.0110	-0.0195
TCOHV	-0.0774	-0.1127	-0.0820	-0.0490	-0.0459	0.0270
TCPCAMP	-0.0727	-0.0983	-0.0804	-0.0377	-0.0429	-0.0489
TCPICNIC	-0.0944	-0.1223	-0.0747	-0.0552	-0.0483	-0.0432
TCSKI	1.0000	-0.0779	-0.0208	-0.0617	-0.0579	-0.0360
TCSNOWMB	-0.0779	1.0000	-0.0545	-0.0735	-0.0729	-0.0661
TCTRAIL	-0.0208	-0.0545	1.0000	-0.0582	-0.0474	-0.0525
TCVIEW	-0.0617	-0.0735	-0.0582	1.0000	-0.0337	-0.0287
TCWCAMP	-0.0579	-0.0729	-0.0474	-0.0337	1.0000	-0.0268
TCWDRIVE	-0.0360	-0.0661	-0.0525	-0.0287	-0.0268	1.0000
TCWFISH	-0.0336	-0.0560	-0.0447	-0.0198	-0.0191	-0.0187
TCWGEN	-0.1386	-0.1719	-0.1176	-0.0794	-0.0676	-0.0770
TCWHIKE	-0.0401	-0.0496	-0.0335	-0.0220	-0.0184	-0.0209
TCWHUNT	-0.0733	-0.0855	-0.0537	-0.0393	-0.0334	-0.0282
TCWNAT	-0.1094	-0.1229	-0.1100	-0.0415	-0.0639	-0.0616
TCWOHV	-0.0497	-0.0641	-0.0470	-0.0298	-0.0268	0.0121
TCWPCAMP	-0.0496	-0.0536	-0.0467	-0.0187	-0.0256	-0.0305
TCWPIC	-0.0530	-0.0684	-0.0426	-0.0318	-0.0265	-0.0252
TCWSKI	0.5210	-0.0297	0.0075	-0.0335	-0.0306	-0.0288
TCWSNWMB	-0.0463	0.5461	-0.0299	-0.0315	-0.0399	-0.0385
TCWTRAIL	0.0451	0.0181	0.5634	-0.0332	-0.0267	-0.0300
TCWVIEW	-0.0398	-0.0357	-0.0354	0.5947	-0.0203	-0.0221
TCFWCAMP	-0.0287	-0.0354	-0.0238	-0.0165	0.4863	-0.0140
TCFWDRVE	-0.0320	-0.0377	-0.0312	-0.0204	-0.0162	0.5643
TCFWFISH	-0.0205	-0.0289	-0.0214	-0.0105	0.0021	-0.0096
TCFWGEN	-0.0858	-0.1068	-0.0731	-0.0489	-0.0420	-0.0481
TCFWHIKE	-0.0221	-0.0279	-0.0189	-0.0118	-0.0107	-0.0122
TCFWHUNT	-0.0433	-0.0483	-0.0347	-0.0212	-0.0193	-0.0180
TCFWNAT	-0.0755	-0.0709	-0.0691	-0.0261	-0.0400	-0.0414
TCFWOHV	-0.0501	-0.0654	-0.0476	-0.0302	-0.0272	0.0125

TCWFISH	
Y	0.0129
TCH	0.0285
TCWH	-0.0041
TCFWH	-0.0489
TCCAMP	-0.0556
TCDRIVE	0.0641
TCFISH	-0.0454
TCGEN	-0.0450
TCHIKE	-0.0457
TCHUNT	-0.0452
TCNAT	-0.0057
TCOHV	-0.0096
TCPCAMP	-0.0082
TCPICNIC	-0.0364
TCSKI	-0.0336
TCSNOWMB	-0.0560
TCTRAIL	-0.0447
TCVIEW	-0.0198
TCWCAMP	-0.0191
TCWDRIVE	-0.0187
TCWFISH	1.0000
TCWGEN	-0.0592
TCWHIKE	-0.0172
TCWHUNT	-0.0293
TCWNAT	-0.0399
TCWOHV	-0.0179
TCWPCAMP	-0.0184
TCWPIC	-0.0231
TCWSKI	-0.0238
TCWSNWMB	-0.0343
TCWTRAIL	-0.0252
TCWVIEW	-0.0157
TCFWCAMP	-0.0032
TCFWDRVE	-0.0131
TCFWFISH	0.4777
TCFWGEN	-0.0369
TCFWHIKE	-0.0097
TCFWHUNT	-0.0171
TCFWNAT	-0.0318
TCFWOHV	-0.0184

	TCWGEN	TCWHIKE	TCWHUNT	TCWNAT	TCWOHV	TCWPCAMP
Y	-0.0880	-0.0363	-0.0512	0.1241	0.0110	0.0580
TCH	0.0611	-0.0405	0.0125	0.0200	-0.0155	0.0122
TCWH	0.0432	0.0341	0.0207	-0.0414	-0.0325	-0.0315
TCFWH	0.1954	-0.0278	0.0525	-0.0023	-0.0177	-0.0064
TCCAMP	-0.1668	-0.0459	-0.0062	-0.1406	0.1958	-0.0458
TCDRIVE	0.0529	-0.0051	-0.0181	0.0312	0.0191	-0.0085
TCFISH	0.1373	-0.0197	0.0001	0.1097	0.1413	0.2395
TCGEN	0.1472	-0.0190	-0.0015	0.1030	0.1416	0.2371
TCHIKE	0.1555	-0.0201	-0.0014	0.1018	0.1415	0.2331
TCHUNT	0.1764	-0.0212	0.0060	0.0900	0.1156	0.2059
TCNAT	0.0358	0.0214	0.0198	-0.0443	-0.0334	-0.0344
TCOHV	-0.1106	-0.0321	-0.0513	-0.1019	0.5628	-0.0317
TCPCAMP	-0.1089	-0.0279	-0.0575	-0.0708	-0.0270	0.5587
TCPICNIC	-0.1179	-0.0336	-0.0512	-0.1076	-0.0286	-0.0354
TCSKI	-0.1386	-0.0401	-0.0733	-0.1094	-0.0497	-0.0496
TCSNOWMB	-0.1719	-0.0496	-0.0855	-0.1229	-0.0641	-0.0536
TCTRAIL	-0.1176	-0.0335	-0.0537	-0.1100	-0.0470	-0.0467
TCVIEW	-0.0794	-0.0220	-0.0393	-0.0415	-0.0298	-0.0187
TCWCAMP	-0.0676	-0.0184	-0.0334	-0.0639	-0.0268	-0.0256
TCWDRIVE	-0.0770	-0.0209	-0.0282	-0.0616	0.0121	-0.0305
TCWFISH	-0.0592	-0.0172	-0.0293	-0.0399	-0.0179	-0.0184
TCWGEN	1.0000	-0.0443	-0.0719	-0.1535	-0.0621	-0.0629
TCWHIKE	-0.0443	1.0000	-0.0231	-0.0396	-0.0182	-0.0152
TCWHUNT	-0.0719	-0.0231	1.0000	-0.0584	-0.0265	-0.0326
TCWNAT	-0.1535	-0.0396	-0.0584	1.0000	-0.0573	-0.0330
TCWOHV	-0.0621	-0.0182	-0.0265	-0.0573	1.0000	-0.0031
TCWPCAMP	-0.0629	-0.0152	-0.0326	-0.0330	-0.0031	1.0000
TCWPIC	-0.0638	-0.0183	-0.0281	-0.0567	0.0040	-0.0051
TCWSKI	-0.0703	-0.0205	-0.0384	-0.0585	-0.0244	-0.0219
TCWSNWMB	-0.0938	-0.0271	-0.0453	-0.0549	-0.0319	-0.0148
TCWTRAIL	-0.0663	-0.0189	-0.0317	-0.0616	-0.0265	-0.0260
TCWVIEW	-0.0465	-0.0129	-0.0220	-0.0212	-0.0169	0.0032
TCFWCAMP	-0.0328	-0.0093	-0.0159	-0.0317	-0.0131	-0.0121
TCFWDRVE	-0.0436	-0.0123	-0.0163	-0.0355	0.0703	-0.0171
TCFWFISH	-0.0282	-0.0082	-0.0130	-0.0205	-0.0090	-0.0077
TCFWGEN	0.6210	-0.0280	-0.0400	-0.0956	-0.0389	-0.0393
TCFWHIKE	-0.0252	0.5621	-0.0133	-0.0235	-0.0103	-0.0058
TCFWHUNT	-0.0314	-0.0139	0.5863	-0.0231	-0.0091	-0.0189
TCFWNAT	-0.0935	-0.0262	-0.0312	0.6076	-0.0325	0.0000
TCFWOHV	-0.0629	-0.0185	-0.0276	-0.0576	0.9809	-0.0037

	TCWPIC	TCWSKI	TCWSNWMB	TCWTRAIL	TCWVIEW
Y	0.0085	0.0450	0.0402	0.0687	0.0669
TCH	-0.0662	-0.0062	0.0316	-0.1031	0.0059
TCWH	-0.0261	-0.0379	-0.0468	-0.0224	-0.0237
TCFWH	-0.0176	0.0242	0.0430	-0.0435	0.0317
TCCAMP	0.0230	0.0353	-0.0515	0.0899	-0.0422
TCDRIVE	-0.0304	0.0078	-0.0040	-0.0405	0.0263
TCFISH	0.1228	0.2024	0.3605	0.0525	0.1834
TCGEN	0.1199	0.2047	0.3575	0.0553	0.1813
TCHIKE	0.1185	0.1975	0.3506	0.0519	0.1785
TCHUNT	0.1006	0.1936	0.3315	0.0381	0.1950
TCNAT	-0.0267	-0.0400	-0.0499	-0.0225	-0.0271
TCOHV	-0.0241	-0.0459	-0.0638	-0.0467	-0.0325
TCPCAMP	-0.0271	-0.0437	-0.0529	-0.0460	-0.0215
TCPICNIC	0.5408	-0.0517	-0.0697	-0.0426	-0.0354
TCSKI	-0.0530	0.5210	-0.0463	0.0451	-0.0398
TCSNOWMB	-0.0684	-0.0297	0.5461	0.0181	-0.0357
TCTRAIL	-0.0426	0.0075	-0.0299	0.5634	-0.0354
TCVIEW	-0.0318	-0.0335	-0.0315	-0.0332	0.5947
TCWCAMP	-0.0265	-0.0306	-0.0399	-0.0267	-0.0203
TCWDRIVE	-0.0252	-0.0288	-0.0385	-0.0300	-0.0221
TCWFISH	-0.0231	-0.0238	-0.0343	-0.0252	-0.0157
TCWGEN	-0.0638	-0.0703	-0.0938	-0.0663	-0.0465
TCWHIKE	-0.0183	-0.0205	-0.0271	-0.0189	-0.0129
TCWHUNT	-0.0281	-0.0384	-0.0453	-0.0317	-0.0220
TCWNAT	-0.0567	-0.0585	-0.0549	-0.0616	-0.0212
TCWOHV	0.0040	-0.0244	-0.0319	-0.0265	-0.0169
TCWPCAMP	-0.0051	-0.0219	-0.0148	-0.0260	0.0032
TCWPIC	1.0000	-0.0256	-0.0367	-0.0217	-0.0191
TCWSKI	-0.0256	1.0000	-0.0142	0.0468	-0.0192
TCWSNWMB	-0.0367	-0.0142	1.0000	0.0106	0.0072
TCWTRAIL	-0.0217	0.0468	0.0106	1.0000	-0.0200
TCWVIEW	-0.0191	-0.0192	0.0072	-0.0200	1.0000
TCFWCAMP	-0.0129	-0.0142	-0.0189	-0.0121	-0.0099
TCFWDRVE	-0.0143	-0.0154	-0.0112	-0.0174	-0.0122
TCFWFISH	-0.0100	-0.0103	-0.0155	-0.0120	-0.0054
TCFWGEN	-0.0397	-0.0413	-0.0583	-0.0412	-0.0278
TCFWHIKE	-0.0103	-0.0106	-0.0152	-0.0107	-0.0062
TCFWHUNT	-0.0168	-0.0223	-0.0205	-0.0192	-0.0078
TCFWNAT	-0.0306	-0.0300	-0.0065	-0.0370	0.0065
TCFWOHV	0.0032	-0.0245	-0.0327	-0.0268	-0.0173

	TCFWCAMP	TCFWDRVE	TCFWFISH	TCFWGEN	TCFWHIKE
Y	-0.0507	-0.0398	0.0277	-0.0199	-0.0120
TCH	-0.0278	-0.0208	0.0082	0.0369	-0.0120
TCWH	-0.0157	-0.0220	-0.0136	-0.0396	-0.0073
TCFWH	-0.0213	-0.0018	-0.0016	0.1698	-0.0030
TCCAMP	0.0809	0.1480	-0.0274	-0.1093	-0.0272
TCDRIVE	-0.0323	-0.0279	0.0311	0.0442	0.0084
TCFISH	0.1307	0.1210	0.0689	0.4085	0.0594
TCGEN	0.1409	0.1217	0.0722	0.4400	0.0606
TCHIKE	0.1497	0.1187	0.0693	0.4624	0.0587
TCHUNT	0.1125	0.1022	0.0686	0.4660	0.0535
TCNAT	-0.0163	-0.0189	-0.0139	-0.0430	-0.0094
TCOHV	-0.0233	0.0081	-0.0132	-0.0694	-0.0182
TCPCAMP	-0.0220	-0.0307	-0.0116	-0.0703	-0.0140
TCPICNIC	-0.0241	-0.0279	-0.0202	-0.0733	-0.0190
TCSKI	-0.0287	-0.0320	-0.0205	-0.0858	-0.0221
TCSNOWMB	-0.0354	-0.0377	-0.0289	-0.1068	-0.0279
TCTRAIL	-0.0238	-0.0312	-0.0214	-0.0731	-0.0189
TCVIEW	-0.0165	-0.0204	-0.0105	-0.0489	-0.0118
TCWCAMP	0.4863	-0.0162	0.0021	-0.0420	-0.0107
TCWDRIVE	-0.0140	0.5643	-0.0096	-0.0481	-0.0122
TCWFISH	-0.0032	-0.0131	0.4777	-0.0369	-0.0097
TCWGEN	-0.0328	-0.0436	-0.0282	0.6210	-0.0252
TCWHIKE	-0.0093	-0.0123	-0.0082	-0.0280	0.5621
TCWHUNT	-0.0159	-0.0163	-0.0130	-0.0400	-0.0133
TCWNAT	-0.0317	-0.0355	-0.0205	-0.0956	-0.0235
TCWOHV	-0.0131	0.0703	-0.0090	-0.0389	-0.0103
TCWPCAMP	-0.0121	-0.0171	-0.0077	-0.0393	-0.0058
TCWPIC	-0.0129	-0.0143	-0.0100	-0.0397	-0.0103
TCWSKI	-0.0142	-0.0154	-0.0103	-0.0413	-0.0106
TCWSNWMB	-0.0189	-0.0112	-0.0155	-0.0583	-0.0152
TCWTRAIL	-0.0121	-0.0174	-0.0120	-0.0412	-0.0107
TCWVIEW	-0.0099	-0.0122	-0.0054	-0.0278	-0.0062
TCFWCAMP	1.0000	-0.0082	0.0201	-0.0203	-0.0053
TCFWDRVE	-0.0082	1.0000	-0.0001	-0.0271	-0.0070
TCFWFISH	0.0201	-0.0001	1.0000	-0.0176	-0.0046
TCFWGEN	-0.0203	-0.0271	-0.0176	1.0000	-0.0158
TCFWHIKE	-0.0053	-0.0070	-0.0046	-0.0158	1.0000
TCFWHUNT	-0.0082	-0.0084	-0.0056	-0.0088	-0.0078
TCFWNAT	-0.0190	-0.0188	-0.0116	-0.0577	-0.0144
TCFWOHV	-0.0133	0.0693	-0.0093	-0.0394	-0.0104

	TCFWHUNT	TCFWNAT	TCFWOHV	TCFWPCMP	TCFWPIC
Y	-0.0139	0.1013	0.0055	0.0562	0.0089
TCH	0.0056	0.0106	-0.0121	0.0165	-0.0651
TCWH	-0.0226	-0.0509	-0.0328	-0.0312	-0.0259
TCFWH	0.0587	0.0267	0.0122	0.0175	0.0066
TCCAMP	-0.0156	-0.0870	0.1968	-0.0442	0.0255
TCDRIVE	0.0002	0.0217	0.0234	-0.0062	-0.0251
TCFISH	0.1534	0.4077	0.1367	0.2348	0.1191
TCGEN	0.1515	0.3986	0.1371	0.2330	0.1167
TCHIKE	0.1517	0.3954	0.1352	0.2280	0.1148
TCHUNT	0.1593	0.3683	0.1183	0.2109	0.1056
TCNAT	-0.0228	-0.0562	-0.0339	-0.0340	-0.0258
TCOHV	-0.0293	-0.0645	0.5712	-0.0321	-0.0240
TCPCAMP	-0.0342	-0.0443	-0.0278	0.5576	-0.0274
TCPICNIC	-0.0326	-0.0675	-0.0291	-0.0358	0.5364
TCSKI	-0.0433	-0.0755	-0.0501	-0.0495	-0.0522
TCSNOWMB	-0.0483	-0.0709	-0.0654	-0.0533	-0.0679
TCTRAIL	-0.0347	-0.0691	-0.0476	-0.0467	-0.0424
TCVIEW	-0.0212	-0.0261	-0.0302	-0.0182	-0.0315
TCWCAMP	-0.0193	-0.0400	-0.0272	-0.0252	-0.0262
TCWDRIVE	-0.0180	-0.0414	0.0125	-0.0304	-0.0236
TCWFISH	-0.0171	-0.0318	-0.0184	-0.0185	-0.0230
TCWGEN	-0.0314	-0.0935	-0.0629	-0.0626	-0.0633
TCWHIKE	-0.0139	-0.0262	-0.0185	-0.0155	-0.0181
TCWHUNT	0.5863	-0.0312	-0.0276	-0.0325	-0.0260
TCWNAT	-0.0231	0.6076	-0.0576	-0.0345	-0.0551
TCWOHV	-0.0091	-0.0325	0.9809	-0.0039	0.0030
TCWPCAMP	-0.0189	0.0000	-0.0037	0.9843	-0.0059
TCWPIC	-0.0168	-0.0306	0.0032	-0.0061	0.9797
TCWSKI	-0.0223	-0.0300	-0.0245	-0.0221	-0.0244
TCWSNWMB	-0.0205	-0.0065	-0.0327	-0.0156	-0.0366
TCWTRAIL	-0.0192	-0.0370	-0.0268	-0.0260	-0.0215
TCWVIEW	-0.0078	0.0065	-0.0173	0.0034	-0.0189
TCFWCAMP	-0.0082	-0.0190	-0.0133	-0.0119	-0.0128
TCFWDRVE	-0.0084	-0.0188	0.0693	-0.0171	-0.0135
TCFWFISH	-0.0056	-0.0116	-0.0093	-0.0077	-0.0101
TCFWGEN	-0.0088	-0.0577	-0.0394	-0.0392	-0.0393
TCFWHIKE	-0.0078	-0.0144	-0.0104	-0.0064	-0.0102
TCFWHUNT	1.0000	0.0157	-0.0105	-0.0189	-0.0157
TCFWNAT	0.0157	1.0000	-0.0326	-0.0028	-0.0286
TCFWOHV	-0.0105	-0.0326	1.0000	-0.0044	0.0028

	TCFWSKI	TCFWSNWM	TCFWTRL	TCFWVIEW	CAMP	DRIVE
Y	0.0430	0.0407	0.0724	0.0649	-0.0470	-0.0419
TCH	-0.0038	0.0341	-0.1037	-0.0016	-0.0237	-0.0210
TCWH	-0.0366	-0.0463	-0.0233	-0.0203	-0.0160	-0.0225
TCFWH	0.0705	0.0894	-0.0313	0.0844	-0.0018	0.0191
TCCAMP	0.0386	-0.0529	0.0870	-0.0381	0.0738	0.1524
TCDRIVE	0.0057	-0.0008	-0.0406	0.0198	-0.0318	-0.0273
TCFISH	0.1984	0.3510	0.0505	0.1723	0.1307	0.1166
TCGEN	0.2008	0.3486	0.0530	0.1730	0.1375	0.1171
TCHIKE	0.1929	0.3409	0.0489	0.1674	0.1433	0.1139
TCHUNT	0.2042	0.3424	0.0401	0.2317	0.1138	0.1035
TCNAT	-0.0390	-0.0493	-0.0230	-0.0234	-0.0165	-0.0196
TCOHV	-0.0449	-0.0638	-0.0467	-0.0279	-0.0241	0.0074
TCPCAMP	-0.0431	-0.0531	-0.0463	-0.0188	-0.0224	-0.0313
TCPICNIC	-0.0503	-0.0694	-0.0429	-0.0303	-0.0250	-0.0275
TCSKI	0.5074	-0.0460	0.0518	-0.0342	-0.0300	-0.0327
TCSNOWMB	-0.0291	0.5428	0.0238	-0.0313	-0.0367	-0.0393
TCTRAIL	0.0069	-0.0297	0.5652	-0.0303	-0.0248	-0.0319
TCVIEW	-0.0328	-0.0318	-0.0332	0.5095	-0.0171	-0.0206
TCWCAMP	-0.0300	-0.0396	-0.0269	-0.0174	0.5063	-0.0151
TCWDRIVE	-0.0283	-0.0391	-0.0300	-0.0188	-0.0131	0.5773
TCWFISH	-0.0235	-0.0342	-0.0253	-0.0135	-0.0050	-0.0133
TCWGEN	-0.0683	-0.0933	-0.0665	-0.0393	-0.0342	-0.0446
TCWHIKE	-0.0201	-0.0269	-0.0189	-0.0112	-0.0096	-0.0125
TCWHUNT	-0.0374	-0.0450	-0.0314	-0.0194	-0.0163	-0.0153
TCWNAT	-0.0570	-0.0558	-0.0619	-0.0186	-0.0330	-0.0364
TCWOHV	-0.0239	-0.0324	-0.0265	-0.0147	-0.0137	0.0674
TCWPCAMP	-0.0219	-0.0165	-0.0261	0.0016	-0.0124	-0.0175
TCWPIC	-0.0243	-0.0367	-0.0217	-0.0163	-0.0134	-0.0141
TCWSKI	0.9754	-0.0138	0.0518	-0.0168	-0.0148	-0.0157
TCWSNWMB	-0.0137	0.9785	0.0138	0.0040	-0.0194	-0.0136
TCWTRAIL	0.0451	0.0105	0.9839	-0.0171	-0.0128	-0.0178
TCWVIEW	-0.0190	0.0054	-0.0201	0.9130	-0.0103	-0.0124
TCFWCAMP	-0.0140	-0.0187	-0.0125	-0.0085	0.9797	-0.0079
TCFWDRVE	-0.0151	-0.0136	-0.0174	-0.0105	-0.0079	0.9836
TCFWFISH	-0.0102	-0.0154	-0.0121	-0.0049	0.0160	0.0001
TCFWGEN	-0.0398	-0.0580	-0.0413	-0.0229	-0.0212	-0.0278
TCFWHIKE	-0.0106	-0.0151	-0.0107	-0.0056	-0.0055	-0.0071
TCFWHUNT	-0.0217	-0.0205	-0.0189	-0.0081	-0.0083	-0.0083
TCFWNAT	-0.0295	-0.0091	-0.0373	0.0045	-0.0198	-0.0197
TCFWOHV	-0.0239	-0.0331	-0.0269	-0.0150	-0.0139	0.0684

	FISH	GENERAL	HIKE	HUNT	NATURE	OHVUSE	PCAMP
Y	0.0253	-0.0117	-0.0125	-0.0140	0.0952	0.0109	0.0588
TCH	0.0114	0.0420	-0.0102	0.0109	0.0107	-0.0150	0.0131
TCWH	-0.0127	-0.0393	-0.0077	-0.0221	-0.0500	-0.0331	-0.0315
TCFWH	0.0118	0.2787	0.0046	0.0881	0.0686	-0.0170	-0.0066
TCCAMP	-0.0253	-0.1080	-0.0270	-0.0160	-0.0839	0.1985	-0.0461
TCDRIVE	0.0299	0.0439	0.0087	-0.0012	0.0226	0.0203	-0.0086
TCFISH	0.0686	0.4070	0.0591	0.1501	0.3992	0.1404	0.2381
TCGEN	0.0722	0.4247	0.0601	0.1482	0.3917	0.1404	0.2364
TCHIKE	0.0691	0.4370	0.0581	0.1477	0.3870	0.1387	0.2312
TCHUNT	0.0751	0.4968	0.0553	0.1688	0.3816	0.1145	0.2051
TCNAT	-0.0132	-0.0422	-0.0094	-0.0224	-0.0551	-0.0340	-0.0344
TCOHV	-0.0129	-0.0683	-0.0179	-0.0293	-0.0630	0.5737	-0.0326
TCPCAMP	-0.0111	-0.0691	-0.0143	-0.0331	-0.0451	-0.0282	0.5656
TCPICNIC	-0.0190	-0.0721	-0.0187	-0.0307	-0.0656	-0.0297	-0.0364
TCSKI	-0.0193	-0.0843	-0.0219	-0.0419	-0.0737	-0.0501	-0.0500
TCSNOWMB	-0.0270	-0.1051	-0.0275	-0.0470	-0.0697	-0.0656	-0.0547
TCTRAIL	-0.0200	-0.0719	-0.0186	-0.0336	-0.0677	-0.0479	-0.0473
TCVIEW	-0.0098	-0.0477	-0.0118	-0.0213	-0.0250	-0.0304	-0.0193
TCWCAMP	-0.0014	-0.0414	-0.0105	-0.0188	-0.0392	-0.0273	-0.0258
TCWDRIVE	-0.0089	-0.0473	-0.0120	-0.0168	-0.0407	0.0146	-0.0309
TCWFISH	0.4464	-0.0364	-0.0095	-0.0167	-0.0312	-0.0182	-0.0183
TCWGEN	-0.0265	0.6108	-0.0248	-0.0296	-0.0916	-0.0632	-0.0636
TCWHIKE	-0.0077	-0.0275	0.5536	-0.0134	-0.0258	-0.0186	-0.0154
TCWHUNT	-0.0124	-0.0389	-0.0130	0.5668	-0.0299	-0.0271	-0.0329
TCWNAT	-0.0191	-0.0941	-0.0234	-0.0233	0.5951	-0.0581	-0.0343
TCWOHV	-0.0086	-0.0383	-0.0101	-0.0110	-0.0317	0.9967	-0.0043
TCWPCAMP	-0.0073	-0.0386	-0.0064	-0.0184	-0.0034	-0.0043	0.9983
TCWPIC	-0.0095	-0.0390	-0.0101	-0.0157	-0.0285	0.0026	-0.0064
TCWSKI	-0.0097	-0.0404	-0.0107	-0.0216	-0.0293	-0.0246	-0.0221
TCWSNWMB	-0.0145	-0.0574	-0.0150	-0.0204	-0.0077	-0.0328	-0.0159
TCWTRAIL	-0.0112	-0.0405	-0.0105	-0.0184	-0.0365	-0.0270	-0.0263
TCWVIEW	-0.0052	-0.0264	-0.0064	-0.0093	0.0068	-0.0173	0.0023
TCFWCAMP	0.0127	-0.0200	-0.0052	-0.0080	-0.0187	-0.0134	-0.0122
TCFWDRVE	0.0001	-0.0267	-0.0069	-0.0082	-0.0188	0.0764	-0.0173
TCFWFISH	0.9713	-0.0174	-0.0045	-0.0060	-0.0114	-0.0092	-0.0077
TCFWGEN	-0.0165	0.9538	-0.0155	-0.0072	-0.0566	-0.0396	-0.0397
TCFWHIKE	-0.0043	-0.0155	0.9877	-0.0076	-0.0142	-0.0105	-0.0061
TCFWHUNT	-0.0056	-0.0076	-0.0077	0.9715	0.0167	-0.0099	-0.0191
TCFWNAT	-0.0109	-0.0569	-0.0143	0.0133	0.9790	-0.0330	-0.0016
TCFWOHV	-0.0089	-0.0388	-0.0103	-0.0121	-0.0316	0.9849	-0.0048

	PICNIC	SKI	SNOWMOB	TRAIL	VIEW	AGE	GENDER1
Y	0.0103	0.0467	0.0433	0.0741	0.0675	-0.0473	-0.0396
TCH	-0.0672	-0.0080	0.0311	-0.1067	0.0056	-0.0262	-0.0220
TCWH	-0.0259	-0.0387	-0.0471	-0.0235	-0.0238	-0.0156	-0.0223
TCFWH	-0.0187	0.0226	0.0422	-0.0453	0.0341	-0.0203	-0.0021
TCCAMP	0.0260	0.0370	-0.0501	0.0909	-0.0427	0.0777	0.1505
TCDRIVE	-0.0298	0.0078	-0.0041	-0.0410	0.0262	-0.0332	-0.0274
TCFISH	0.1200	0.1999	0.3584	0.0490	0.1827	0.1348	0.1196
TCGEN	0.1176	0.2029	0.3568	0.0517	0.1809	0.1410	0.1206
TCHIKE	0.1156	0.1942	0.3481	0.0473	0.1774	0.1465	0.1169
TCHUNT	0.0982	0.1913	0.3299	0.0345	0.1972	0.1122	0.1009
TCNAT	-0.0266	-0.0408	-0.0503	-0.0232	-0.0272	-0.0162	-0.0194
TCOHV	-0.0255	-0.0466	-0.0647	-0.0484	-0.0327	-0.0238	0.0098
TCPCAMP	-0.0289	-0.0446	-0.0539	-0.0477	-0.0219	-0.0224	-0.0312
TCPICNIC	0.5543	-0.0528	-0.0705	-0.0443	-0.0356	-0.0247	-0.0282
TCSKI	-0.0543	0.5324	-0.0432	0.0532	-0.0401	-0.0295	-0.0321
TCSNOWMB	-0.0700	-0.0265	0.5526	0.0243	-0.0366	-0.0364	-0.0387
TCTRAIL	-0.0436	0.0129	-0.0260	0.5839	-0.0357	-0.0244	-0.0317
TCVIEW	-0.0326	-0.0342	-0.0325	-0.0344	0.6002	-0.0170	-0.0208
TCWCAMP	-0.0271	-0.0314	-0.0404	-0.0277	-0.0205	0.4999	-0.0163
TCWDRIVE	-0.0257	-0.0290	-0.0391	-0.0310	-0.0222	-0.0142	0.5752
TCWFISH	-0.0236	-0.0242	-0.0347	-0.0261	-0.0158	-0.0031	-0.0132
TCWGEN	-0.0654	-0.0720	-0.0950	-0.0687	-0.0470	-0.0337	-0.0445
TCWHIKE	-0.0187	-0.0210	-0.0274	-0.0196	-0.0130	-0.0096	-0.0125
TCWHUNT	-0.0287	-0.0392	-0.0461	-0.0329	-0.0224	-0.0163	-0.0164
TCWNAT	-0.0582	-0.0597	-0.0565	-0.0639	-0.0218	-0.0325	-0.0361
TCWOHV	0.0023	-0.0248	-0.0326	-0.0275	-0.0171	-0.0135	0.0753
TCWPCAMP	-0.0067	-0.0225	-0.0160	-0.0270	0.0024	-0.0123	-0.0175
TCWPIC	0.9985	-0.0264	-0.0372	-0.0227	-0.0192	-0.0132	-0.0145
TCWSKI	-0.0264	0.9976	-0.0117	0.0532	-0.0194	-0.0145	-0.0156
TCWSNWMB	-0.0377	-0.0125	0.9982	0.0140	0.0060	-0.0194	-0.0123
TCWTRAIL	-0.0223	0.0543	0.0160	0.9966	-0.0202	-0.0124	-0.0177
TCWVIEW	-0.0195	-0.0197	0.0058	-0.0207	0.9984	-0.0101	-0.0125
TCFWCAMP	-0.0132	-0.0145	-0.0191	-0.0127	-0.0100	0.9919	-0.0083
TCFWDRVE	-0.0146	-0.0157	-0.0121	-0.0180	-0.0123	-0.0083	0.9981
TCFWFISH	-0.0103	-0.0105	-0.0157	-0.0125	-0.0055	0.0212	0.0002
TCFWGEN	-0.0407	-0.0425	-0.0590	-0.0427	-0.0281	-0.0209	-0.0277
TCFWHIKE	-0.0106	-0.0110	-0.0154	-0.0111	-0.0063	-0.0054	-0.0071
TCFWHUNT	-0.0172	-0.0228	-0.0214	-0.0199	-0.0082	-0.0085	-0.0085
TCFWNAT	-0.0317	-0.0308	-0.0085	-0.0385	0.0054	-0.0195	-0.0192
TCFWOHV	0.0015	-0.0249	-0.0334	-0.0278	-0.0175	-0.0137	0.0742

	HF	INCES	ONITE	PEOPVEH	
Y	0.0280	-0.0215	-0.0123	-0.0146	0.1027
TCH	0.0083	0.0404	-0.0126	0.0053	0.0108
TCWH	-0.0137	-0.0403	-0.0073	-0.0227	-0.0511
TCFWH	-0.0025	0.1717	-0.0039	0.0584	0.0264
TCCAMP	-0.0283	-0.1095	-0.0277	-0.0146	-0.0871
TCDRIVE	0.0315	0.0446	0.0093	-0.0001	0.0221
TCFISH	0.0680	0.4198	0.0585	0.1524	0.4060
TCGEN	0.0714	0.4419	0.0598	0.1507	0.3985
TCHIKE	0.0680	0.4550	0.0576	0.1500	0.3936
TCHUNT	0.0675	0.4684	0.0526	0.1584	0.3679
TCNAT	-0.0141	-0.0434	-0.0094	-0.0229	-0.0564
TCOHV	-0.0137	-0.0707	-0.0186	-0.0298	-0.0648
TCPCAMP	-0.0115	-0.0716	-0.0145	-0.0345	-0.0450
TCPICNIC	-0.0207	-0.0748	-0.0194	-0.0329	-0.0680
TCSKI	-0.0208	-0.0875	-0.0226	-0.0439	-0.0758
TCSNOWMB	-0.0296	-0.1090	-0.0285	-0.0493	-0.0718
TCTRAIL	-0.0218	-0.0746	-0.0194	-0.0352	-0.0695
TCVIEW	-0.0108	-0.0499	-0.0121	-0.0217	-0.0264
TCWCAMP	0.0016	-0.0428	-0.0110	-0.0197	-0.0403
TCWDRIVE	-0.0097	-0.0490	-0.0125	-0.0180	-0.0415
TCWFISH	0.4882	-0.0377	-0.0099	-0.0172	-0.0319
TCWGEN	-0.0289	0.6334	-0.0258	-0.0318	-0.0942
TCWHIKE	-0.0084	-0.0285	0.5742	-0.0141	-0.0264
TCWHUNT	-0.0133	-0.0404	-0.0135	0.5952	-0.0318
TCWNAT	-0.0208	-0.0975	-0.0240	-0.0240	0.6122
TCWOHV	-0.0093	-0.0396	-0.0105	-0.0097	-0.0326
TCWPCAMP	-0.0079	-0.0400	-0.0062	-0.0191	-0.0011
TCWPIC	-0.0103	-0.0405	-0.0105	-0.0170	-0.0310
TCWSKI	-0.0106	-0.0421	-0.0110	-0.0226	-0.0299
TCWSNWMB	-0.0159	-0.0595	-0.0156	-0.0214	-0.0078
TCWTRAIL	-0.0123	-0.0420	-0.0109	-0.0194	-0.0373
TCWVIEW	-0.0057	-0.0283	-0.0064	-0.0083	0.0056
TCFWCAMP	0.0195	-0.0207	-0.0054	-0.0084	-0.0191
TCFWDRVE	0.0001	-0.0277	-0.0071	-0.0083	-0.0188
TCFWFISH	0.9978	-0.0180	-0.0047	-0.0055	-0.0115
TCFWGEN	-0.0180	0.9920	-0.0161	-0.0086	-0.0582
TCFWHIKE	-0.0047	-0.0161	0.9982	-0.0079	-0.0145
TCFWHUNT	-0.0056	-0.0080	-0.0080	0.9980	0.0147
TCFWNAT	-0.0119	-0.0588	-0.0147	0.0146	0.9984
TCFWOHV	-0.0096	-0.0401	-0.0107	-0.0111	-0.0326

	Y	TCH	TCWH	TCFWH	TCCAMP	TCDRIVE	TCFISH
TCFWPCMP	0.0562	0.0165	-0.0312	0.0175	-0.0442	-0.0062	0.2348
TCFWPIC	0.0089	-0.0651	-0.0259	0.0066	0.0255	-0.0251	0.1191
TCFWSKI	0.0430	-0.0038	-0.0366	0.0705	0.0386	0.0057	0.1984
TCFWSNWM	0.0407	0.0341	-0.0463	0.0894	-0.0529	-0.0008	0.3510
TCFWTRL	0.0724	-0.1037	-0.0233	-0.0313	0.0870	-0.0406	0.0505
TCFWVIEW	0.0649	-0.0016	-0.0203	0.0844	-0.0381	0.0198	0.1723
CAMP	-0.0470	-0.0237	-0.0160	-0.0018	0.0738	-0.0318	0.1307
DRIVE	-0.0419	-0.0210	-0.0225	0.0191	0.1524	-0.0273	0.1166
FISH	0.0253	0.0114	-0.0127	0.0118	-0.0253	0.0299	0.0686
GENERAL	-0.0117	0.0420	-0.0393	0.2787	-0.1080	0.0439	0.4070
HIKE	-0.0125	-0.0102	-0.0077	0.0046	-0.0270	0.0087	0.0591
HUNT	-0.0140	0.0109	-0.0221	0.0881	-0.0160	-0.0012	0.1501
NATURE	0.0952	0.0107	-0.0500	0.0686	-0.0839	0.0226	0.3992
OHVUSE	0.0109	-0.0150	-0.0331	-0.0170	0.1985	0.0203	0.1404
PCAMP	0.0588	0.0131	-0.0315	-0.0066	-0.0461	-0.0086	0.2381
PICNIC	0.0103	-0.0672	-0.0259	-0.0187	0.0260	-0.0298	0.1200
SKI	0.0467	-0.0080	-0.0387	0.0226	0.0370	0.0078	0.1999
SNOWMOB	0.0433	0.0311	-0.0471	0.0422	-0.0501	-0.0041	0.3584
TRAIL	0.0741	-0.1067	-0.0235	-0.0453	0.0909	-0.0410	0.0490
VIEW	0.0675	0.0056	-0.0238	0.0341	-0.0427	0.0262	0.1827
AGE	-0.0473	-0.0262	-0.0156	-0.0203	0.0777	-0.0332	0.1348
GENDER1	-0.0396	-0.0220	-0.0223	-0.0021	0.1505	-0.0274	0.1196
HF	0.0280	0.0083	-0.0137	-0.0025	-0.0283	0.0315	0.0680
INCES	-0.0215	0.0404	-0.0403	0.1717	-0.1095	0.0446	0.4198
ONITE	-0.0123	-0.0126	-0.0073	-0.0039	-0.0277	0.0093	0.0585
PEOPVEH	-0.0146	0.0053	-0.0227	0.0584	-0.0146	-0.0001	0.1524
	0.1027	0.0108	-0.0511	0.0264	-0.0871	0.0221	0.4060

	TCGEN	TCHIKE	TCHUNT	TCNAT	TCOHV	TCPCAMP	TCPICNIC
TCFWPCMP	0.2330	0.2280	0.2109	-0.0340	-0.0321	0.5576	-0.0358
TCFWPIC	0.1167	0.1148	0.1056	-0.0258	-0.0240	-0.0274	0.5364
TCFWSKI	0.2008	0.1929	0.2042	-0.0390	-0.0449	-0.0431	-0.0503
TCFWSNWM	0.3486	0.3409	0.3424	-0.0493	-0.0638	-0.0531	-0.0694
TCFWTRL	0.0530	0.0489	0.0401	-0.0230	-0.0467	-0.0463	-0.0429
TCFWVIEW	0.1730	0.1674	0.2317	-0.0234	-0.0279	-0.0188	-0.0303
CAMP	0.1375	0.1433	0.1138	-0.0165	-0.0241	-0.0224	-0.0250
DRIVE	0.1171	0.1139	0.1035	-0.0196	0.0074	-0.0313	-0.0275
FISH	0.0722	0.0691	0.0751	-0.0132	-0.0129	-0.0111	-0.0190
GENERAL	0.4247	0.4370	0.4968	-0.0422	-0.0683	-0.0691	-0.0721
HIKE	0.0601	0.0581	0.0553	-0.0094	-0.0179	-0.0143	-0.0187
HUNT	0.1482	0.1477	0.1688	-0.0224	-0.0293	-0.0331	-0.0307
NATURE	0.3917	0.3870	0.3816	-0.0551	-0.0630	-0.0451	-0.0656
OHVUSE	0.1404	0.1387	0.1145	-0.0340	0.5737	-0.0282	-0.0297
PCAMP	0.2364	0.2312	0.2051	-0.0344	-0.0326	0.5656	-0.0364
PICNIC	0.1176	0.1156	0.0982	-0.0266	-0.0255	-0.0289	0.5543
SKI	0.2029	0.1942	0.1913	-0.0408	-0.0466	-0.0446	-0.0528
SNOWMOB	0.3568	0.3481	0.3299	-0.0503	-0.0647	-0.0539	-0.0705
TRAIL	0.0517	0.0473	0.0345	-0.0232	-0.0484	-0.0477	-0.0443
VIEW	0.1809	0.1774	0.1972	-0.0272	-0.0327	-0.0219	-0.0356
AGE	0.1410	0.1465	0.1122	-0.0162	-0.0238	-0.0224	-0.0247
GENDER1	0.1206	0.1169	0.1009	-0.0194	0.0098	-0.0312	-0.0282
HF	0.0714	0.0680	0.0675	-0.0141	-0.0137	-0.0115	-0.0207
INCES	0.4419	0.4550	0.4684	-0.0434	-0.0707	-0.0716	-0.0748
ONITE	0.0598	0.0576	0.0526	-0.0094	-0.0186	-0.0145	-0.0194
PEOPVEH	0.1507	0.1500	0.1584	-0.0229	-0.0298	-0.0345	-0.0329
	0.3985	0.3936	0.3679	-0.0564	-0.0648	-0.0450	-0.0680

	TCSKI	TCSNOWMB	TCTRAIL	TCVIEW	TCWCAMP	TCWDRIVE
TCFWPCMP	-0.0495	-0.0533	-0.0467	-0.0182	-0.0252	-0.0304
TCFWPIC	-0.0522	-0.0679	-0.0424	-0.0315	-0.0262	-0.0236
TCFWSKI	0.5074	-0.0291	0.0069	-0.0328	-0.0300	-0.0283
TCFWSNWM	-0.0460	0.5428	-0.0297	-0.0318	-0.0396	-0.0391
TCFWTRL	0.0518	0.0238	0.5652	-0.0332	-0.0269	-0.0300
TCFWVIEW	-0.0342	-0.0313	-0.0303	0.5095	-0.0174	-0.0188
CAMP	-0.0300	-0.0367	-0.0248	-0.0171	0.5063	-0.0131
DRIVE	-0.0327	-0.0393	-0.0319	-0.0206	-0.0151	0.5773
FISH	-0.0193	-0.0270	-0.0200	-0.0098	-0.0014	-0.0089
GENERAL	-0.0843	-0.1051	-0.0719	-0.0477	-0.0414	-0.0473
HIKE	-0.0219	-0.0275	-0.0186	-0.0118	-0.0105	-0.0120
HUNT	-0.0419	-0.0470	-0.0336	-0.0213	-0.0188	-0.0168
NATURE	-0.0737	-0.0697	-0.0677	-0.0250	-0.0392	-0.0407
OHVUSE	-0.0501	-0.0656	-0.0479	-0.0304	-0.0273	0.0146
PCAMP	-0.0500	-0.0547	-0.0473	-0.0193	-0.0258	-0.0309
PICNIC	-0.0543	-0.0700	-0.0436	-0.0326	-0.0271	-0.0257
SKI	0.5324	-0.0265	0.0129	-0.0342	-0.0314	-0.0290
SNOWMOB	-0.0432	0.5526	-0.0260	-0.0325	-0.0404	-0.0391
TRAIL	0.0532	0.0243	0.5839	-0.0344	-0.0277	-0.0310
VIEW	-0.0401	-0.0366	-0.0357	0.6002	-0.0205	-0.0222
AGE	-0.0295	-0.0364	-0.0244	-0.0170	0.4999	-0.0142
GENDER1	-0.0321	-0.0387	-0.0317	-0.0208	-0.0163	0.5752
HF	-0.0208	-0.0296	-0.0218	-0.0108	0.0016	-0.0097
INCES	-0.0875	-0.1090	-0.0746	-0.0499	-0.0428	-0.0490
ONITE	-0.0226	-0.0285	-0.0194	-0.0121	-0.0110	-0.0125
PEOPVEH	-0.0439	-0.0493	-0.0352	-0.0217	-0.0197	-0.0180
	-0.0758	-0.0718	-0.0695	-0.0264	-0.0403	-0.0415

TCWFISH	
TCFWPCMP	-0.0185
TCFWPIC	-0.0230
TCFWSKI	-0.0235
TCFWSNWM	-0.0342
TCFWTRL	-0.0253
TCFWVIEW	-0.0135
CAMP	-0.0050
DRIVE	-0.0133
FISH	0.4464
GENERAL	-0.0364
HIKE	-0.0095
HUNT	-0.0167
NATURE	-0.0312
OHVUSE	-0.0182
PCAMP	-0.0183
PICNIC	-0.0236
SKI	-0.0242
SNOWMOB	-0.0347
TRAIL	-0.0261
VIEW	-0.0158
AGE	-0.0031
GENDER1	-0.0132
HF	0.4882
INCES	-0.0377
ONITE	-0.0099
PEOPVEH	-0.0172
	-0.0319

	TCWGEN	TCWHIKE	TCWHUNT	TCWNAT	TCWOHV	TCWPCAMP
TCFWPCMP	-0.0626	-0.0155	-0.0325	-0.0345	-0.0039	0.9843
TCFWPIC	-0.0633	-0.0181	-0.0260	-0.0551	0.0030	-0.0059
TCFWSKI	-0.0683	-0.0201	-0.0374	-0.0570	-0.0239	-0.0219
TCFWSNWM	-0.0933	-0.0269	-0.0450	-0.0558	-0.0324	-0.0165
TCFWTRL	-0.0665	-0.0189	-0.0314	-0.0619	-0.0265	-0.0261
TCFWVIEW	-0.0393	-0.0112	-0.0194	-0.0186	-0.0147	0.0016
CAMP	-0.0342	-0.0096	-0.0163	-0.0330	-0.0137	-0.0124
DRIVE	-0.0446	-0.0125	-0.0153	-0.0364	0.0674	-0.0175
FISH	-0.0265	-0.0077	-0.0124	-0.0191	-0.0086	-0.0073
GENERAL	0.6108	-0.0275	-0.0389	-0.0941	-0.0383	-0.0386
HIKE	-0.0248	0.5536	-0.0130	-0.0234	-0.0101	-0.0064
HUNT	-0.0296	-0.0134	0.5668	-0.0233	-0.0110	-0.0184
NATURE	-0.0916	-0.0258	-0.0299	0.5951	-0.0317	-0.0034
OHVUSE	-0.0632	-0.0186	-0.0271	-0.0581	0.9967	-0.0043
PCAMP	-0.0636	-0.0154	-0.0329	-0.0343	-0.0043	0.9983
PICNIC	-0.0654	-0.0187	-0.0287	-0.0582	0.0023	-0.0067
SKI	-0.0720	-0.0210	-0.0392	-0.0597	-0.0248	-0.0225
SNOWMOB	-0.0950	-0.0274	-0.0461	-0.0565	-0.0326	-0.0160
TRAIL	-0.0687	-0.0196	-0.0329	-0.0639	-0.0275	-0.0270
VIEW	-0.0470	-0.0130	-0.0224	-0.0218	-0.0171	0.0024
AGE	-0.0337	-0.0096	-0.0163	-0.0325	-0.0135	-0.0123
GENDER1	-0.0445	-0.0125	-0.0164	-0.0361	0.0753	-0.0175
HF	-0.0289	-0.0084	-0.0133	-0.0208	-0.0093	-0.0079
INCES	0.6334	-0.0285	-0.0404	-0.0975	-0.0396	-0.0400
ONITE	-0.0258	0.5742	-0.0135	-0.0240	-0.0105	-0.0062
PEOPVEH	-0.0318	-0.0141	0.5952	-0.0240	-0.0097	-0.0191
	-0.0942	-0.0264	-0.0318	0.6122	-0.0326	-0.0011

	TCWPIC	TCWSKI	TCWSNWMB	TCWTRAIL	TCWVIEW
TCFWPCMP	-0.0061	-0.0221	-0.0156	-0.0260	0.0034
TCFWPIC	0.9797	-0.0244	-0.0366	-0.0215	-0.0189
TCFWSKI	-0.0243	0.9754	-0.0137	0.0451	-0.0190
TCFWSNWM	-0.0367	-0.0138	0.9785	0.0105	0.0054
TCFWTRL	-0.0217	0.0518	0.0138	0.9839	-0.0201
TCFWVIEW	-0.0163	-0.0168	0.0040	-0.0171	0.9130
CAMP	-0.0134	-0.0148	-0.0194	-0.0128	-0.0103
DRIVE	-0.0141	-0.0157	-0.0136	-0.0178	-0.0124
FISH	-0.0095	-0.0097	-0.0145	-0.0112	-0.0052
GENERAL	-0.0390	-0.0404	-0.0574	-0.0405	-0.0264
HIKE	-0.0101	-0.0107	-0.0150	-0.0105	-0.0064
HUNT	-0.0157	-0.0216	-0.0204	-0.0184	-0.0093
NATURE	-0.0285	-0.0293	-0.0077	-0.0365	0.0068
OHVUSE	0.0026	-0.0246	-0.0328	-0.0270	-0.0173
PCAMP	-0.0064	-0.0221	-0.0159	-0.0263	0.0023
PICNIC	0.9985	-0.0264	-0.0377	-0.0223	-0.0195
SKI	-0.0264	0.9976	-0.0125	0.0543	-0.0197
SNOWMOB	-0.0372	-0.0117	0.9982	0.0160	0.0058
TRAIL	-0.0227	0.0532	0.0140	0.9966	-0.0207
VIEW	-0.0192	-0.0194	0.0060	-0.0202	0.9984
AGE	-0.0132	-0.0145	-0.0194	-0.0124	-0.0101
GENDER1	-0.0145	-0.0156	-0.0123	-0.0177	-0.0125
HF	-0.0103	-0.0106	-0.0159	-0.0123	-0.0057
INCES	-0.0405	-0.0421	-0.0595	-0.0420	-0.0283
ONITE	-0.0105	-0.0110	-0.0156	-0.0109	-0.0064
PEOPVEH	-0.0170	-0.0226	-0.0214	-0.0194	-0.0083
	-0.0310	-0.0299	-0.0078	-0.0373	0.0056

	TCFWCAMP	TCFWDRVE	TCFWFISH	TCFWGEN	TCFWHIKE
TCFWPCMP	-0.0119	-0.0171	-0.0077	-0.0392	-0.0064
TCFWPIC	-0.0128	-0.0135	-0.0101	-0.0393	-0.0102
TCFWSKI	-0.0140	-0.0151	-0.0102	-0.0398	-0.0106
TCFWSNWM	-0.0187	-0.0136	-0.0154	-0.0580	-0.0151
TCFWTRL	-0.0125	-0.0174	-0.0121	-0.0413	-0.0107
TCFWVIEW	-0.0085	-0.0105	-0.0049	-0.0229	-0.0056
CAMP	0.9797	-0.0079	0.0160	-0.0212	-0.0055
DRIVE	-0.0079	0.9836	0.0001	-0.0278	-0.0071
FISH	0.0127	0.0001	0.9713	-0.0165	-0.0043
GENERAL	-0.0200	-0.0267	-0.0174	0.9538	-0.0155
HIKE	-0.0052	-0.0069	-0.0045	-0.0155	0.9877
HUNT	-0.0080	-0.0082	-0.0060	-0.0072	-0.0076
NATURE	-0.0187	-0.0188	-0.0114	-0.0566	-0.0142
OHVUSE	-0.0134	0.0764	-0.0092	-0.0396	-0.0105
PCAMP	-0.0122	-0.0173	-0.0077	-0.0397	-0.0061
PICNIC	-0.0132	-0.0146	-0.0103	-0.0407	-0.0106
SKI	-0.0145	-0.0157	-0.0105	-0.0425	-0.0110
SNOWMOB	-0.0191	-0.0121	-0.0157	-0.0590	-0.0154
TRAIL	-0.0127	-0.0180	-0.0125	-0.0427	-0.0111
VIEW	-0.0100	-0.0123	-0.0055	-0.0281	-0.0063
AGE	0.9919	-0.0083	0.0212	-0.0209	-0.0054
GENDER1	-0.0083	0.9981	0.0002	-0.0277	-0.0071
HF	0.0195	0.0001	0.9978	-0.0180	-0.0047
INCES	-0.0207	-0.0277	-0.0180	0.9920	-0.0161
ONITE	-0.0054	-0.0071	-0.0047	-0.0161	0.9982
PEOPVEH	-0.0084	-0.0083	-0.0055	-0.0086	-0.0079
	-0.0191	-0.0188	-0.0115	-0.0582	-0.0145

	TCFWHUNT	TCFWNAT	TCFWOHV	TCFWPCMP	TCFWPIC
TCFWPCMP	-0.0189	-0.0028	-0.0044	1.0000	-0.0068
TCFWPIC	-0.0157	-0.0286	0.0028	-0.0068	1.0000
TCFWSKI	-0.0217	-0.0295	-0.0239	-0.0219	-0.0228
TCFWSNWM	-0.0205	-0.0091	-0.0331	-0.0163	-0.0365
TCFWTRL	-0.0189	-0.0373	-0.0269	-0.0261	-0.0215
TCFWVIEW	-0.0081	0.0045	-0.0150	0.0024	-0.0162
CAMP	-0.0083	-0.0198	-0.0139	-0.0121	-0.0133
DRIVE	-0.0083	-0.0197	0.0684	-0.0175	-0.0130
FISH	-0.0056	-0.0109	-0.0089	-0.0072	-0.0096
GENERAL	-0.0076	-0.0569	-0.0388	-0.0385	-0.0387
HIKE	-0.0077	-0.0143	-0.0103	-0.0069	-0.0101
HUNT	0.9715	0.0133	-0.0121	-0.0183	-0.0144
NATURE	0.0167	0.9790	-0.0316	-0.0056	-0.0247
OHVUSE	-0.0099	-0.0330	0.9849	-0.0050	0.0017
PCAMP	-0.0191	-0.0016	-0.0048	0.9857	-0.0071
PICNIC	-0.0172	-0.0317	0.0015	-0.0076	0.9805
SKI	-0.0228	-0.0308	-0.0249	-0.0227	-0.0252
SNOWMOB	-0.0214	-0.0085	-0.0334	-0.0165	-0.0370
TRAIL	-0.0199	-0.0385	-0.0278	-0.0270	-0.0225
VIEW	-0.0082	0.0054	-0.0175	0.0026	-0.0191
AGE	-0.0085	-0.0195	-0.0137	-0.0122	-0.0131
GENDER1	-0.0085	-0.0192	0.0742	-0.0174	-0.0137
HF	-0.0056	-0.0119	-0.0096	-0.0079	-0.0104
INCES	-0.0080	-0.0588	-0.0401	-0.0399	-0.0401
ONITE	-0.0080	-0.0147	-0.0107	-0.0068	-0.0104
PEOPVEH	0.9980	0.0146	-0.0111	-0.0191	-0.0159
	0.0147	0.9984	-0.0326	-0.0038	-0.0289

	TCFWSKI	TCFWSNWM	TCFWTRL	TCFWVIEW	CAMP	DRIVE
TCFWPCMP	-0.0219	-0.0163	-0.0261	0.0024	-0.0121	-0.0175
TCFWPIC	-0.0228	-0.0365	-0.0215	-0.0162	-0.0133	-0.0130
TCFWSKI	1.0000	-0.0130	0.0499	-0.0165	-0.0146	-0.0150
TCFWSNWM	-0.0130	1.0000	0.0137	0.0032	-0.0191	-0.0156
TCFWTRL	0.0499	0.0137	1.0000	-0.0172	-0.0132	-0.0178
TCFWVIEW	-0.0165	0.0032	-0.0172	1.0000	-0.0088	-0.0105
CAMP	-0.0146	-0.0191	-0.0132	-0.0088	1.0000	-0.0072
DRIVE	-0.0150	-0.0156	-0.0178	-0.0105	-0.0072	1.0000
FISH	-0.0095	-0.0144	-0.0113	-0.0046	0.0098	0.0005
GENERAL	-0.0376	-0.0570	-0.0406	-0.0212	-0.0209	-0.0273
HIKE	-0.0107	-0.0149	-0.0105	-0.0057	-0.0054	-0.0070
HUNT	-0.0210	-0.0202	-0.0181	-0.0089	-0.0079	-0.0078
NATURE	-0.0286	-0.0091	-0.0368	0.0055	-0.0195	-0.0195
OHVUSE	-0.0241	-0.0333	-0.0270	-0.0151	-0.0139	0.0733
PCAMP	-0.0221	-0.0175	-0.0264	0.0009	-0.0124	-0.0177
PICNIC	-0.0251	-0.0377	-0.0223	-0.0168	-0.0137	-0.0143
SKI	0.9760	-0.0121	0.0598	-0.0171	-0.0152	-0.0160
SNOWMOB	-0.0113	0.9785	0.0195	0.0029	-0.0197	-0.0144
TRAIL	0.0513	0.0140	0.9855	-0.0178	-0.0134	-0.0184
VIEW	-0.0191	0.0043	-0.0202	0.9228	-0.0104	-0.0125
AGE	-0.0144	-0.0192	-0.0128	-0.0087	0.9866	-0.0080
GENDER1	-0.0153	-0.0146	-0.0177	-0.0107	-0.0080	0.9837
HF	-0.0104	-0.0158	-0.0123	-0.0051	0.0156	0.0004
INCES	-0.0406	-0.0591	-0.0421	-0.0234	-0.0216	-0.0283
ONITE	-0.0109	-0.0155	-0.0109	-0.0058	-0.0056	-0.0073
PEOPVEH	-0.0220	-0.0213	-0.0192	-0.0084	-0.0085	-0.0081
	-0.0294	-0.0102	-0.0376	0.0038	-0.0199	-0.0197

	FISH	GENERAL	HIKE	HUNT	NATURE	OHVUSE	PCAMP
TCFWPCMP	-0.0072	-0.0385	-0.0069	-0.0183	-0.0056	-0.0050	0.9857
TCFWPIC	-0.0096	-0.0387	-0.0101	-0.0144	-0.0247	0.0017	-0.0071
TCFWSKI	-0.0095	-0.0376	-0.0107	-0.0210	-0.0286	-0.0241	-0.0221
TCFWSNWM	-0.0144	-0.0570	-0.0149	-0.0202	-0.0091	-0.0333	-0.0175
TCFWTRL	-0.0113	-0.0406	-0.0105	-0.0181	-0.0368	-0.0270	-0.0264
TCFWVIEW	-0.0046	-0.0212	-0.0057	-0.0089	0.0055	-0.0151	0.0009
CAMP	0.0098	-0.0209	-0.0054	-0.0079	-0.0195	-0.0139	-0.0124
DRIVE	0.0005	-0.0273	-0.0070	-0.0078	-0.0195	0.0733	-0.0177
FISH	1.0000	-0.0162	-0.0042	-0.0059	-0.0105	-0.0088	-0.0073
GENERAL	-0.0162	1.0000	-0.0153	-0.0059	-0.0558	-0.0390	-0.0391
HIKE	-0.0042	-0.0153	1.0000	-0.0074	-0.0141	-0.0103	-0.0066
HUNT	-0.0059	-0.0059	-0.0074	1.0000	0.0143	-0.0116	-0.0185
NATURE	-0.0105	-0.0558	-0.0141	0.0143	1.0000	-0.0321	-0.0049
OHVUSE	-0.0088	-0.0390	-0.0103	-0.0116	-0.0321	1.0000	-0.0054
PCAMP	-0.0073	-0.0391	-0.0066	-0.0185	-0.0049	-0.0054	1.0000
PICNIC	-0.0098	-0.0400	-0.0104	-0.0161	-0.0295	0.0009	-0.0080
SKI	-0.0099	-0.0416	-0.0110	-0.0220	-0.0300	-0.0250	-0.0227
SNOWMOB	-0.0147	-0.0580	-0.0152	-0.0211	-0.0095	-0.0335	-0.0170
TRAIL	-0.0117	-0.0420	-0.0109	-0.0191	-0.0380	-0.0280	-0.0273
VIEW	-0.0052	-0.0267	-0.0065	-0.0096	0.0057	-0.0175	0.0016
AGE	0.0135	-0.0206	-0.0053	-0.0083	-0.0192	-0.0137	-0.0124
GENDER1	0.0004	-0.0272	-0.0070	-0.0082	-0.0193	0.0818	-0.0176
HF	0.9709	-0.0178	-0.0046	-0.0060	-0.0116	-0.0095	-0.0079
INCES	-0.0168	0.9617	-0.0158	-0.0063	-0.0577	-0.0403	-0.0405
ONITE	-0.0044	-0.0158	0.9873	-0.0077	-0.0146	-0.0107	-0.0064
PEOPVEH	-0.0055	-0.0073	-0.0078	0.9725	0.0157	-0.0105	-0.0193
	-0.0107	-0.0573	-0.0144	0.0123	0.9803	-0.0330	-0.0026

	PICNIC	SKI	SNOWMOB	TRAIL	VIEW	AGE	GENDER1
TCFWPCMP	-0.0076	-0.0227	-0.0165	-0.0270	0.0026	-0.0122	-0.0174
TCFWPIC	0.9805	-0.0252	-0.0370	-0.0225	-0.0191	-0.0131	-0.0137
TCFWSKI	-0.0251	0.9760	-0.0113	0.0513	-0.0191	-0.0144	-0.0153
TCFWSNWM	-0.0377	-0.0121	0.9785	0.0140	0.0043	-0.0192	-0.0146
TCFWTRL	-0.0223	0.0598	0.0195	0.9855	-0.0202	-0.0128	-0.0177
TCFWVIEW	-0.0168	-0.0171	0.0029	-0.0178	0.9228	-0.0087	-0.0107
CAMP	-0.0137	-0.0152	-0.0197	-0.0134	-0.0104	0.9866	-0.0080
DRIVE	-0.0143	-0.0160	-0.0144	-0.0184	-0.0125	-0.0080	0.9837
FISH	-0.0098	-0.0099	-0.0147	-0.0117	-0.0052	0.0135	0.0004
GENERAL	-0.0400	-0.0416	-0.0580	-0.0420	-0.0267	-0.0206	-0.0272
HIKE	-0.0104	-0.0110	-0.0152	-0.0109	-0.0065	-0.0053	-0.0070
HUNT	-0.0161	-0.0220	-0.0211	-0.0191	-0.0096	-0.0083	-0.0082
NATURE	-0.0295	-0.0300	-0.0095	-0.0380	0.0057	-0.0192	-0.0193
OHVUSE	0.0009	-0.0250	-0.0335	-0.0280	-0.0175	-0.0137	0.0818
PCAMP	-0.0080	-0.0227	-0.0170	-0.0273	0.0016	-0.0124	-0.0176
PICNIC	1.0000	-0.0271	-0.0381	-0.0233	-0.0197	-0.0136	-0.0147
SKI	-0.0271	1.0000	-0.0097	0.0615	-0.0198	-0.0149	-0.0159
SNOWMOB	-0.0381	-0.0097	1.0000	0.0200	0.0047	-0.0196	-0.0132
TRAIL	-0.0233	0.0615	0.0200	1.0000	-0.0209	-0.0130	-0.0183
VIEW	-0.0197	-0.0198	0.0047	-0.0209	1.0000	-0.0102	-0.0126
AGE	-0.0136	-0.0149	-0.0196	-0.0130	-0.0102	1.0000	-0.0084
GENDER1	-0.0147	-0.0159	-0.0132	-0.0183	-0.0126	-0.0084	1.0000
HF	-0.0106	-0.0108	-0.0161	-0.0127	-0.0057	0.0207	0.0005
INCES	-0.0415	-0.0433	-0.0602	-0.0435	-0.0287	-0.0213	-0.0282
ONITE	-0.0108	-0.0113	-0.0157	-0.0113	-0.0065	-0.0055	-0.0073
PEOPVEH	-0.0174	-0.0231	-0.0222	-0.0202	-0.0086	-0.0087	-0.0083
	-0.0320	-0.0305	-0.0097	-0.0389	0.0045	-0.0196	-0.0192

	HF	INCES	ONITE	PEOPVEH	
TCFWPCMP	-0.0079	-0.0399	-0.0068	-0.0191	-0.0038
TCFWPIC	-0.0104	-0.0401	-0.0104	-0.0159	-0.0289
TCFWSKI	-0.0104	-0.0406	-0.0109	-0.0220	-0.0294
TCFWSNWM	-0.0158	-0.0591	-0.0155	-0.0213	-0.0102
TCFWTRL	-0.0123	-0.0421	-0.0109	-0.0192	-0.0376
TCFWVIEW	-0.0051	-0.0234	-0.0058	-0.0084	0.0038
CAMP	0.0156	-0.0216	-0.0056	-0.0085	-0.0199
DRIVE	0.0004	-0.0283	-0.0073	-0.0081	-0.0197
FISH	0.9709	-0.0168	-0.0044	-0.0055	-0.0107
GENERAL	-0.0178	0.9617	-0.0158	-0.0073	-0.0573
HIKE	-0.0046	-0.0158	0.9873	-0.0078	-0.0144
HUNT	-0.0060	-0.0063	-0.0077	0.9725	0.0123
NATURE	-0.0116	-0.0577	-0.0146	0.0157	0.9803
OHVUSE	-0.0095	-0.0403	-0.0107	-0.0105	-0.0330
PCAMP	-0.0079	-0.0405	-0.0064	-0.0193	-0.0026
PICNIC	-0.0106	-0.0415	-0.0108	-0.0174	-0.0320
SKI	-0.0108	-0.0433	-0.0113	-0.0231	-0.0305
SNOWMOB	-0.0161	-0.0602	-0.0157	-0.0222	-0.0097
TRAIL	-0.0127	-0.0435	-0.0113	-0.0202	-0.0389
VIEW	-0.0057	-0.0287	-0.0065	-0.0086	0.0045
AGE	0.0207	-0.0213	-0.0055	-0.0087	-0.0196
GENDER1	0.0005	-0.0282	-0.0073	-0.0083	-0.0192
HF	1.0000	-0.0184	-0.0048	-0.0055	-0.0117
INCES	-0.0184	1.0000	-0.0164	-0.0077	-0.0593
ONITE	-0.0048	-0.0164	1.0000	-0.0081	-0.0148
PEOPVEH	-0.0055	-0.0077	-0.0081	1.0000	0.0137
	-0.0117	-0.0593	-0.0148	0.0137	1.0000

Table 9 Correlation TOP5 Data

	Y	TCH	TCWH	TCFWH	TCCAMP	TCDRIVE
Y	1.0000	-0.0650	-0.0107	-0.0388	-0.0264	-0.0844
TCH	-0.0650	1.0000	-0.0493	0.0698	-0.0347	0.1213
TCWH	-0.0107	-0.0493	1.0000	-0.0435	-0.0878	-0.0938
TCFWH	-0.0388	0.0698	-0.0435	1.0000	-0.0181	0.0287
TCCAMP	-0.0264	-0.0347	-0.0878	-0.0181	1.0000	0.0223
TCDRIVE	-0.0844	0.1213	-0.0938	0.0287	0.0223	1.0000
TCFISH	0.0724	0.0227	-0.1591	0.1413	0.0017	0.0706
TCGEN	0.0698	0.0183	-0.1562	0.1404	0.0099	0.0738
TCHIKE	0.0564	0.0148	-0.1439	0.1346	0.0060	0.0718
TCHUNT	0.0601	0.0320	-0.1451	0.3732	-0.0010	0.0782
TCNAT	-0.0029	-0.0384	0.6385	-0.0304	-0.0766	-0.0932
TCOHV	-0.0312	0.0196	-0.0462	-0.0151	0.3108	0.0781
TCPCAMP	0.0654	0.0164	-0.0087	-0.0259	-0.1008	-0.0280
TCPICNIC	0.0517	-0.1000	0.0291	-0.0638	0.0439	-0.0450
TCSKI	0.0165	0.0288	-0.0386	-0.0168	0.0896	0.0081
TCSNOWMB	0.0090	0.0956	0.0006	0.0466	-0.1145	-0.0490
TCTRAIL	0.0662	-0.1867	0.0279	-0.1132	0.0956	-0.1111
TCVIEW	0.0717	-0.0058	-0.0043	-0.0344	-0.0750	0.0156
TCWCAMP	-0.0442	-0.0558	0.0131	-0.0145	0.0240	-0.0275
TCWDRIVE	-0.0717	-0.0288	-0.0212	0.0005	0.2585	-0.0026
TCWFISH	0.0139	0.0305	-0.0066	-0.0513	-0.0601	0.0692
TCWGEN	-0.0992	0.0565	0.0545	0.1830	-0.1617	0.0573
TCWHIKE	-0.0363	-0.0443	0.0347	-0.0304	-0.0489	-0.0049
TCWHUNT	-0.0526	0.0181	0.0237	0.0501	-0.0039	-0.0262
TCWNAT	0.1168	0.0186	-0.0367	0.0025	-0.1366	0.0337
TCWOHV	-0.0160	-0.0023	-0.0391	0.0031	0.2146	0.0350
TCWPCAMP	0.0562	0.0318	-0.0332	-0.0049	-0.0451	-0.0032
TCWPIC	0.0564	-0.0683	-0.0293	-0.0174	0.0611	-0.0235
TCWSKI	0.0706	-0.0100	-0.0495	0.0239	0.0411	0.0078
TCWSNWMB	0.0478	0.0527	-0.0549	0.0454	-0.0663	-0.0084
TCWTRAIL	0.0978	-0.1225	-0.0304	-0.0516	0.0783	-0.0429
TCWVIEW	0.0596	-0.0029	-0.0286	-0.0115	-0.0456	0.0195
TCFWCAMP	-0.0306	-0.0225	-0.0156	-0.0067	0.0630	-0.0043
TCFWDRVE	-0.0354	-0.0394	-0.0271	-0.0001	0.1859	-0.0242
TCFWFISH	0.0285	0.0044	-0.0166	-0.0188	-0.0340	0.0526
TCFWGEN	-0.0570	0.0316	-0.0332	0.1553	-0.1040	0.0811
TCFWHIKE	-0.0145	-0.0236	-0.0047	-0.0154	-0.0333	0.0162
TCFWHUNT	-0.0305	0.0185	-0.0209	0.0466	-0.0026	-0.0162
TCFWNAT	0.1023	0.0100	-0.0533	0.0302	-0.0862	0.0292
TCFWOHV	-0.0183	-0.0016	-0.0391	0.0440	0.2173	0.0387

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TCFISH	TCGEN	TCHIKE	TCHUNT	TCNAT	TCOHV	TCPCAMP
0.0724	0.0698	0.0564	0.0601	-0.0029	-0.0312	0.0654
0.0227	0.0183	0.0148	0.0320	-0.0384	0.0196	0.0164
-0.1591	-0.1562	-0.1439	-0.1451	0.6385	-0.0462	-0.0087
0.1413	0.1404	0.1346	0.3732	-0.0304	-0.0151	-0.0259
0.0017	0.0099	0.0060	-0.0010	-0.0766	0.3108	-0.1008
0.0706	0.0738	0.0718	0.0782	-0.0932	0.0781	-0.0280
1.0000	0.9634	0.9087	0.9094	-0.1619	-0.0029	-0.0089
0.9634	1.0000	0.9834	0.9423	-0.1596	-0.0032	-0.0141
0.9087	0.9834	1.0000	0.9272	-0.1471	-0.0027	-0.0156
0.9094	0.9423	0.9272	1.0000	-0.1472	-0.0090	-0.0211
-0.1619	-0.1596	-0.1471	-0.1472	1.0000	-0.0441	-0.0092
-0.0029	-0.0032	-0.0027	-0.0090	-0.0441	1.0000	-0.0619
-0.0089	-0.0141	-0.0156	-0.0211	-0.0092	-0.0619	1.0000
-0.0453	-0.0478	-0.0471	-0.0547	0.0150	-0.0615	-0.0593
-0.0227	-0.0203	-0.0266	-0.0233	-0.0384	-0.0829	-0.0726
0.0185	0.0097	0.0040	0.0095	0.0192	-0.1155	-0.0989
-0.0616	-0.0587	-0.0622	-0.0716	0.0267	-0.0899	-0.0838
0.0352	0.0296	0.0261	0.0178	-0.0117	-0.0497	-0.0383
-0.0406	-0.0252	-0.0167	-0.0259	0.0099	-0.0485	-0.0429
0.0089	0.0080	0.0035	0.0020	-0.0244	0.0235	-0.0489
-0.0459	-0.0460	-0.0446	-0.0490	-0.0086	-0.0105	-0.0055
0.1409	0.1622	0.1705	0.1961	0.0471	-0.1080	-0.1006
-0.0089	-0.0081	-0.0098	-0.0143	0.0211	-0.0341	-0.0281
0.0011	-0.0038	-0.0042	0.0028	0.0224	-0.0531	-0.0560
0.0701	0.0583	0.0514	0.0507	-0.0380	-0.0985	-0.0693
0.2083	0.2031	0.1987	0.1805	-0.0405	0.6347	-0.0201
0.2037	0.1920	0.1803	0.1656	-0.0344	-0.0178	0.6244
0.1593	0.1488	0.1382	0.1233	-0.0302	-0.0181	-0.0189
0.2226	0.2219	0.2003	0.2070	-0.0510	-0.0561	-0.0512
0.3267	0.3065	0.2830	0.2833	-0.0551	-0.0739	-0.0664
0.1300	0.1330	0.1160	0.0984	-0.0294	-0.0581	-0.0542
0.1758	0.1651	0.1551	0.1385	-0.0316	-0.0372	-0.0287
0.0471	0.1144	0.1494	0.1030	-0.0154	-0.0265	-0.0231
0.1425	0.1389	0.1263	0.1145	-0.0280	0.0001	-0.0366
0.0743	0.0719	0.0647	0.0563	-0.0168	-0.0118	-0.0066
0.3443	0.4778	0.5501	0.4993	-0.0335	-0.0641	-0.0620
0.0771	0.0760	0.0696	0.0594	-0.0089	-0.0219	-0.0141
0.1511	0.1386	0.1314	0.1385	-0.0201	-0.0328	-0.0362
0.3343	0.3097	0.2893	0.2805	-0.0566	-0.0669	-0.0525
0.2065	0.1983	0.1903	0.1870	-0.0406	0.6386	-0.0220

TCPICNIC	TCSKI	TCSNOWMB	TCTRAIL	TCVIEW	TCWCAMP
0.0517	0.0165	0.0090	0.0662	0.0717	-0.0442
-0.1000	0.0288	0.0956	-0.1867	-0.0058	-0.0558
0.0291	-0.0386	0.0006	0.0279	-0.0043	0.0131
-0.0638	-0.0168	0.0466	-0.1132	-0.0344	-0.0145
0.0439	0.0896	-0.1145	0.0956	-0.0750	0.0240
-0.0450	0.0081	-0.0490	-0.1111	0.0156	-0.0275
-0.0453	-0.0227	0.0185	-0.0616	0.0352	-0.0406
-0.0478	-0.0203	0.0097	-0.0587	0.0296	-0.0252
-0.0471	-0.0266	0.0040	-0.0622	0.0261	-0.0167
-0.0547	-0.0233	0.0095	-0.0716	0.0178	-0.0259
0.0150	-0.0384	0.0192	0.0267	-0.0117	0.0099
-0.0615	-0.0829	-0.1155	-0.0899	-0.0497	-0.0485
-0.0593	-0.0726	-0.0989	-0.0838	-0.0383	-0.0429
1.0000	-0.1018	-0.1251	-0.0825	-0.0563	-0.0511
-0.1018	1.0000	-0.0738	-0.0262	-0.0629	-0.0616
-0.1251	-0.0738	1.0000	-0.0541	-0.0767	-0.0741
-0.0825	-0.0262	-0.0541	1.0000	-0.0610	-0.0518
-0.0563	-0.0629	-0.0767	-0.0610	1.0000	-0.0341
-0.0511	-0.0616	-0.0741	-0.0518	-0.0341	1.0000
-0.0460	-0.0381	-0.0669	-0.0572	-0.0284	-0.0279
-0.0393	-0.0363	-0.0570	-0.0491	-0.0198	-0.0256
-0.1157	-0.1367	-0.1614	-0.1180	-0.0751	-0.0655
-0.0357	-0.0429	-0.0504	-0.0363	-0.0228	-0.0192
-0.0518	-0.0754	-0.0852	-0.0561	-0.0394	-0.0340
-0.1051	-0.1034	-0.1143	-0.1094	-0.0360	-0.0613
-0.0253	-0.0569	-0.0745	-0.0578	-0.0338	-0.0316
-0.0233	-0.0504	-0.0650	-0.0533	-0.0238	-0.0272
0.6375	-0.0671	-0.0825	-0.0523	-0.0381	-0.0325
-0.0678	0.6382	0.0020	0.0492	-0.0405	-0.0399
-0.0819	-0.0084	0.6288	0.0126	-0.0484	-0.0468
-0.0519	0.0756	0.0476	0.6423	-0.0396	-0.0341
-0.0414	-0.0451	-0.0537	-0.0427	0.6864	-0.0235
-0.0274	-0.0334	-0.0397	-0.0286	-0.0181	0.5351
-0.0329	-0.0374	-0.0463	-0.0399	-0.0243	-0.0186
-0.0257	-0.0227	-0.0340	-0.0282	-0.0106	-0.0152
-0.0688	-0.0813	-0.0956	-0.0701	-0.0446	-0.0387
-0.0229	-0.0275	-0.0322	-0.0233	-0.0147	-0.0126
-0.0332	-0.0496	-0.0558	-0.0389	-0.0253	-0.0208
-0.0723	-0.0737	-0.0619	-0.0744	-0.0204	-0.0417
-0.0264	-0.0571	-0.0754	-0.0580	-0.0340	-0.0318

TCWDRIVE	TCWFISH	TCWGEN	TCWHIKE	TCWHUNT	TCWNAT
-0.0717	0.0139	-0.0992	-0.0363	-0.0526	0.1168
-0.0288	0.0305	0.0565	-0.0443	0.0181	0.0186
-0.0212	-0.0066	0.0545	0.0347	0.0237	-0.0367
0.0005	-0.0513	0.1830	-0.0304	0.0501	0.0025
0.2585	-0.0601	-0.1617	-0.0489	-0.0039	-0.1366
-0.0026	0.0692	0.0573	-0.0049	-0.0262	0.0337
0.0089	-0.0459	0.1409	-0.0089	0.0011	0.0701
0.0080	-0.0460	0.1622	-0.0081	-0.0038	0.0583
0.0035	-0.0446	0.1705	-0.0098	-0.0042	0.0514
0.0020	-0.0490	0.1961	-0.0143	0.0028	0.0507
-0.0244	-0.0086	0.0471	0.0211	0.0224	-0.0380
0.0235	-0.0105	-0.1080	-0.0341	-0.0531	-0.0985
-0.0489	-0.0055	-0.1006	-0.0281	-0.0560	-0.0693
-0.0460	-0.0393	-0.1157	-0.0357	-0.0518	-0.1051
-0.0381	-0.0363	-0.1367	-0.0429	-0.0754	-0.1034
-0.0669	-0.0570	-0.1614	-0.0504	-0.0852	-0.1143
-0.0572	-0.0491	-0.1180	-0.0363	-0.0561	-0.1094
-0.0284	-0.0198	-0.0751	-0.0228	-0.0394	-0.0360
-0.0279	-0.0256	-0.0655	-0.0192	-0.0340	-0.0613
1.0000	-0.0215	-0.0750	-0.0220	-0.0281	-0.0585
-0.0215	1.0000	-0.0581	-0.0183	-0.0307	-0.0368
-0.0750	-0.0581	1.0000	-0.0429	-0.0687	-0.1369
-0.0220	-0.0183	-0.0429	1.0000	-0.0235	-0.0376
-0.0281	-0.0307	-0.0687	-0.0235	1.0000	-0.0587
-0.0585	-0.0368	-0.1369	-0.0376	-0.0587	1.0000
0.0014	-0.0188	-0.0675	-0.0217	-0.0319	-0.0630
-0.0334	-0.0136	-0.0642	-0.0141	-0.0344	-0.0452
-0.0286	-0.0290	-0.0739	-0.0228	-0.0305	-0.0680
-0.0336	-0.0286	-0.0868	-0.0274	-0.0483	-0.0662
-0.0427	-0.0391	-0.1011	-0.0317	-0.0537	-0.0520
-0.0367	-0.0315	-0.0758	-0.0234	-0.0371	-0.0706
-0.0249	-0.0166	-0.0516	-0.0159	-0.0269	-0.0208
-0.0139	-0.0143	-0.0346	-0.0105	-0.0167	-0.0333
0.6799	-0.0202	-0.0511	-0.0154	-0.0172	-0.0411
-0.0165	0.5745	-0.0331	-0.0105	-0.0181	-0.0215
-0.0447	-0.0346	0.5931	-0.0259	-0.0328	-0.0814
-0.0144	-0.0117	-0.0277	0.6386	-0.0152	-0.0257
-0.0160	-0.0208	-0.0270	-0.0156	0.6548	-0.0438
-0.0413	-0.0309	-0.0907	-0.0272	-0.0455	0.6638
0.0009	-0.0196	-0.0678	-0.0218	-0.0327	-0.0629

TCWOHV	TCWPCAMP	TCWPIC	TCWSKI	TCWSNWMB	TCWTRAIL
-0.0160	0.0562	0.0564	0.0706	0.0478	0.0978
-0.0023	0.0318	-0.0683	-0.0100	0.0527	-0.1225
-0.0391	-0.0332	-0.0293	-0.0495	-0.0549	-0.0304
0.0031	-0.0049	-0.0174	0.0239	0.0454	-0.0516
0.2146	-0.0451	0.0611	0.0411	-0.0663	0.0783
0.0350	-0.0032	-0.0235	0.0078	-0.0084	-0.0429
0.2083	0.2037	0.1593	0.2226	0.3267	0.1300
0.2031	0.1920	0.1488	0.2219	0.3065	0.1330
0.1987	0.1803	0.1382	0.2003	0.2830	0.1160
0.1805	0.1656	0.1233	0.2070	0.2833	0.0984
-0.0405	-0.0344	-0.0302	-0.0510	-0.0551	-0.0294
0.6347	-0.0178	-0.0181	-0.0561	-0.0739	-0.0581
-0.0201	0.6244	-0.0189	-0.0512	-0.0664	-0.0542
-0.0253	-0.0233	0.6375	-0.0678	-0.0819	-0.0519
-0.0569	-0.0504	-0.0671	0.6382	-0.0084	0.0756
-0.0745	-0.0650	-0.0825	0.0020	0.6288	0.0476
-0.0578	-0.0533	-0.0523	0.0492	0.0126	0.6423
-0.0338	-0.0238	-0.0381	-0.0405	-0.0484	-0.0396
-0.0316	-0.0272	-0.0325	-0.0399	-0.0468	-0.0341
0.0014	-0.0334	-0.0286	-0.0336	-0.0427	-0.0367
-0.0188	-0.0136	-0.0290	-0.0286	-0.0391	-0.0315
-0.0675	-0.0642	-0.0739	-0.0868	-0.1011	-0.0758
-0.0217	-0.0141	-0.0228	-0.0274	-0.0317	-0.0234
-0.0319	-0.0344	-0.0305	-0.0483	-0.0537	-0.0371
-0.0630	-0.0452	-0.0680	-0.0662	-0.0520	-0.0706
1.0000	0.0492	0.0496	-0.0303	-0.0439	-0.0370
0.0492	1.0000	0.0551	-0.0218	-0.0363	-0.0326
0.0496	0.0551	1.0000	-0.0418	-0.0511	-0.0269
-0.0303	-0.0218	-0.0418	1.0000	0.0627	0.1604
-0.0439	-0.0363	-0.0511	0.0627	1.0000	0.1098
-0.0370	-0.0326	-0.0269	0.1604	0.1098	1.0000
-0.0217	-0.0100	-0.0260	-0.0244	-0.0306	-0.0275
-0.0167	-0.0135	-0.0166	-0.0200	-0.0246	-0.0185
0.0187	-0.0215	-0.0175	-0.0207	-0.0190	-0.0248
-0.0101	0.0012	-0.0149	-0.0096	-0.0179	-0.0181
-0.0396	-0.0379	-0.0439	-0.0507	-0.0597	-0.0450
-0.0139	0.0014	-0.0146	-0.0175	-0.0202	-0.0150
-0.0143	-0.0210	-0.0166	-0.0316	-0.0336	-0.0234
-0.0385	-0.0180	-0.0429	-0.0284	0.0206	-0.0471
0.9775	0.0444	0.0450	-0.0303	-0.0451	-0.0371

TCWVIEW	TCFWCAMP	TCFWDRVE	TCFWFISH	TCFWGEN
0.0596	-0.0306	-0.0354	0.0285	-0.0570
-0.0029	-0.0225	-0.0394	0.0044	0.0316
-0.0286	-0.0156	-0.0271	-0.0166	-0.0332
-0.0115	-0.0067	-0.0001	-0.0188	0.1553
-0.0456	0.0630	0.1859	-0.0340	-0.1040
0.0195	-0.0043	-0.0242	0.0526	0.0811
0.1758	0.0471	0.1425	0.0743	0.3443
0.1651	0.1144	0.1389	0.0719	0.4778
0.1551	0.1494	0.1263	0.0647	0.5501
0.1385	0.1030	0.1145	0.0563	0.4993
-0.0316	-0.0154	-0.0280	-0.0168	-0.0335
-0.0372	-0.0265	0.0001	-0.0118	-0.0641
-0.0287	-0.0231	-0.0366	-0.0066	-0.0620
-0.0414	-0.0274	-0.0329	-0.0257	-0.0688
-0.0451	-0.0334	-0.0374	-0.0227	-0.0813
-0.0537	-0.0397	-0.0463	-0.0340	-0.0956
-0.0427	-0.0286	-0.0399	-0.0282	-0.0701
0.6864	-0.0181	-0.0243	-0.0106	-0.0446
-0.0235	0.5351	-0.0186	-0.0152	-0.0387
-0.0249	-0.0139	0.6799	-0.0165	-0.0447
-0.0166	-0.0143	-0.0202	0.5745	-0.0346
-0.0516	-0.0346	-0.0511	-0.0331	0.5931
-0.0159	-0.0105	-0.0154	-0.0105	-0.0259
-0.0269	-0.0167	-0.0172	-0.0181	-0.0328
-0.0208	-0.0333	-0.0411	-0.0215	-0.0814
-0.0217	-0.0167	0.0187	-0.0101	-0.0396
-0.0100	-0.0135	-0.0215	0.0012	-0.0379
-0.0260	-0.0166	-0.0175	-0.0149	-0.0439
-0.0244	-0.0200	-0.0207	-0.0096	-0.0507
-0.0306	-0.0246	-0.0190	-0.0179	-0.0597
-0.0275	-0.0185	-0.0248	-0.0181	-0.0450
1.0000	-0.0122	-0.0170	-0.0023	-0.0307
-0.0122	1.0000	-0.0089	-0.0079	-0.0200
-0.0170	-0.0089	1.0000	-0.0115	-0.0304
-0.0023	-0.0079	-0.0115	1.0000	-0.0197
-0.0307	-0.0200	-0.0304	-0.0197	1.0000
-0.0102	-0.0068	-0.0100	-0.0067	-0.0165
-0.0169	-0.0057	-0.0078	-0.0119	0.0098
0.0032	-0.0210	-0.0226	-0.0105	-0.0531
-0.0217	-0.0169	0.0175	-0.0107	-0.0398

TCFWHKE	TCFWHUNT	TCFWNAT	TCFWOHV	TCFWPCMP	TCFWPIC
-0.0145	-0.0305	0.1023	-0.0183	0.0562	0.0533
-0.0236	0.0185	0.0100	-0.0016	0.0352	-0.0684
-0.0047	-0.0209	-0.0533	-0.0391	-0.0334	-0.0296
-0.0154	0.0466	0.0302	0.0440	0.0275	0.0083
-0.0333	-0.0026	-0.0862	0.2173	-0.0441	0.0632
0.0162	-0.0162	0.0292	0.0387	-0.0026	-0.0195
0.0771	0.1511	0.3343	0.2065	0.1989	0.1551
0.0760	0.1386	0.3097	0.1983	0.1871	0.1452
0.0696	0.1314	0.2893	0.1903	0.1737	0.1338
0.0594	0.1385	0.2805	0.1870	0.1713	0.1276
-0.0089	-0.0201	-0.0566	-0.0406	-0.0340	-0.0298
-0.0219	-0.0328	-0.0669	0.6386	-0.0198	-0.0188
-0.0141	-0.0362	-0.0525	-0.0220	0.6264	-0.0204
-0.0229	-0.0332	-0.0723	-0.0264	-0.0251	0.6373
-0.0275	-0.0496	-0.0737	-0.0571	-0.0505	-0.0673
-0.0322	-0.0558	-0.0619	-0.0754	-0.0626	-0.0826
-0.0233	-0.0389	-0.0744	-0.0580	-0.0537	-0.0527
-0.0147	-0.0253	-0.0204	-0.0340	-0.0239	-0.0380
-0.0126	-0.0208	-0.0417	-0.0318	-0.0266	-0.0323
-0.0144	-0.0160	-0.0413	0.0009	-0.0334	-0.0260
-0.0117	-0.0208	-0.0309	-0.0196	-0.0141	-0.0291
-0.0277	-0.0270	-0.0907	-0.0678	-0.0642	-0.0738
0.6386	-0.0156	-0.0272	-0.0218	-0.0149	-0.0227
-0.0152	0.6548	-0.0455	-0.0327	-0.0345	-0.0271
-0.0257	-0.0438	0.6638	-0.0629	-0.0449	-0.0675
-0.0139	-0.0143	-0.0385	0.9775	0.0442	0.0457
0.0014	-0.0210	-0.0180	0.0444	0.9800	0.0503
-0.0146	-0.0166	-0.0429	0.0450	0.0494	0.9842
-0.0175	-0.0316	-0.0284	-0.0303	-0.0218	-0.0420
-0.0202	-0.0336	0.0206	-0.0451	-0.0335	-0.0513
-0.0150	-0.0234	-0.0471	-0.0371	-0.0331	-0.0270
-0.0102	-0.0169	0.0032	-0.0217	-0.0104	-0.0260
-0.0068	-0.0057	-0.0210	-0.0169	-0.0129	-0.0166
-0.0100	-0.0078	-0.0226	0.0175	-0.0216	-0.0153
-0.0067	-0.0119	-0.0105	-0.0107	0.0010	-0.0152
-0.0165	0.0098	-0.0531	-0.0398	-0.0380	-0.0438
1.0000	-0.0100	-0.0176	-0.0140	-0.0005	-0.0146
-0.0100	1.0000	-0.0270	-0.0157	-0.0212	-0.0131
-0.0176	-0.0270	1.0000	-0.0383	-0.0178	-0.0422
-0.0140	-0.0157	-0.0383	1.0000	0.0399	0.0430

TCFWSKI	TCFWSNWM	TCFWTRL	TCFWVIEW	CAMP	DRIVE	FISH
0.0692	0.0474	0.1026	0.0592	-0.0230	-0.0377	0.0260
-0.0001	0.0549	-0.1239	-0.0009	-0.0133	-0.0408	0.0083
-0.0483	-0.0541	-0.0315	-0.0287	-0.0164	-0.0277	-0.0165
0.0933	0.1014	-0.0414	0.0062	0.0353	0.0317	-0.0079
0.0457	-0.0654	0.0793	-0.0467	0.0496	0.1886	-0.0329
0.0081	-0.0097	-0.0428	0.0178	-0.0048	-0.0241	0.0548
0.2182	0.3158	0.1291	0.1723	0.0560	0.1356	0.0729
0.2160	0.2972	0.1315	0.1613	0.1045	0.1320	0.0702
0.1931	0.2724	0.1124	0.1503	0.1264	0.1184	0.0627
0.2287	0.2971	0.0992	0.1422	0.1117	0.1182	0.0590
-0.0496	-0.0544	-0.0302	-0.0317	-0.0161	-0.0287	-0.0167
-0.0542	-0.0741	-0.0584	-0.0372	-0.0286	-0.0011	-0.0124
-0.0496	-0.0641	-0.0549	-0.0287	-0.0240	-0.0372	-0.0066
-0.0654	-0.0814	-0.0527	-0.0416	-0.0294	-0.0317	-0.0256
0.6120	-0.0097	0.0844	-0.0450	-0.0363	-0.0388	-0.0226
0.0007	0.6240	0.0552	-0.0527	-0.0429	-0.0476	-0.0336
0.0459	0.0111	0.6480	-0.0427	-0.0308	-0.0407	-0.0280
-0.0389	-0.0472	-0.0398	0.6893	-0.0195	-0.0241	-0.0102
-0.0386	-0.0464	-0.0343	-0.0235	0.5787	-0.0162	-0.0152
-0.0332	-0.0431	-0.0369	-0.0243	-0.0119	0.6928	-0.0163
-0.0280	-0.0389	-0.0318	-0.0165	-0.0155	-0.0206	0.5709
-0.0834	-0.1005	-0.0765	-0.0518	-0.0376	-0.0521	-0.0331
-0.0263	-0.0314	-0.0235	-0.0159	-0.0113	-0.0156	-0.0104
-0.0464	-0.0534	-0.0369	-0.0270	-0.0183	-0.0147	-0.0179
-0.0633	-0.0517	-0.0712	-0.0187	-0.0361	-0.0420	-0.0210
-0.0294	-0.0447	-0.0372	-0.0216	-0.0181	0.0169	-0.0104
-0.0215	-0.0337	-0.0332	-0.0101	-0.0137	-0.0220	0.0015
-0.0405	-0.0510	-0.0271	-0.0261	-0.0178	-0.0159	-0.0150
0.9618	0.0602	0.1730	-0.0243	-0.0221	-0.0220	-0.0093
0.0586	0.9740	0.1196	-0.0294	-0.0265	-0.0213	-0.0177
0.1517	0.1066	0.9915	-0.0276	-0.0199	-0.0253	-0.0180
-0.0237	-0.0295	-0.0277	0.9830	-0.0132	-0.0167	-0.0020
-0.0197	-0.0244	-0.0186	-0.0123	0.9230	-0.0073	-0.0079
-0.0210	-0.0211	-0.0249	-0.0164	-0.0073	0.9743	-0.0114
-0.0097	-0.0181	-0.0183	-0.0021	-0.0086	-0.0117	0.9820
-0.0488	-0.0593	-0.0454	-0.0308	-0.0218	-0.0310	-0.0197
-0.0168	-0.0201	-0.0151	-0.0102	-0.0073	-0.0101	-0.0067
-0.0303	-0.0335	-0.0226	-0.0171	-0.0072	-0.0058	-0.0117
-0.0277	0.0182	-0.0475	0.0059	-0.0231	-0.0237	-0.0102
-0.0292	-0.0453	-0.0373	-0.0214	-0.0182	0.0164	-0.0108

GENERAL	HIKE	HUNT	NATURE	OHVUSE	PCAMP	PICNIC
-0.0474	-0.0163	-0.0299	0.0972	-0.0160	0.0587	0.0569
0.0375	-0.0235	0.0208	0.0102	-0.0019	0.0326	-0.0694
-0.0353	-0.0054	-0.0213	-0.0533	-0.0403	-0.0332	-0.0289
0.2994	-0.0065	0.0737	0.0752	0.0040	-0.0049	-0.0188
-0.1086	-0.0335	-0.0032	-0.0862	0.2200	-0.0475	0.0636
0.0880	0.0157	-0.0191	0.0287	0.0365	-0.0048	-0.0227
0.3634	0.0748	0.1475	0.3246	0.2086	0.2015	0.1559
0.4450	0.0734	0.1352	0.3012	0.2000	0.1893	0.1458
0.4831	0.0668	0.1273	0.2801	0.1920	0.1758	0.1340
0.5551	0.0604	0.1436	0.2904	0.1777	0.1631	0.1201
-0.0346	-0.0092	-0.0206	-0.0565	-0.0417	-0.0346	-0.0300
-0.0669	-0.0221	-0.0338	-0.0665	0.6565	-0.0204	-0.0207
-0.0646	-0.0149	-0.0362	-0.0524	-0.0224	0.6410	-0.0221
-0.0717	-0.0231	-0.0311	-0.0719	-0.0274	-0.0262	0.6528
-0.0849	-0.0278	-0.0495	-0.0731	-0.0582	-0.0516	-0.0685
-0.0998	-0.0326	-0.0558	-0.0611	-0.0774	-0.0665	-0.0844
-0.0730	-0.0236	-0.0387	-0.0744	-0.0597	-0.0547	-0.0536
-0.0465	-0.0148	-0.0254	-0.0196	-0.0350	-0.0243	-0.0389
-0.0404	-0.0127	-0.0213	-0.0418	-0.0327	-0.0278	-0.0332
-0.0466	-0.0145	-0.0139	-0.0414	0.0031	-0.0342	-0.0291
-0.0361	-0.0118	-0.0207	-0.0310	-0.0195	-0.0133	-0.0296
0.6182	-0.0280	-0.0266	-0.0906	-0.0696	-0.0658	-0.0756
-0.0269	0.6476	-0.0155	-0.0273	-0.0225	-0.0147	-0.0234
-0.0341	-0.0153	0.6524	-0.0449	-0.0329	-0.0351	-0.0312
-0.0849	-0.0262	-0.0433	0.6624	-0.0649	-0.0462	-0.0696
-0.0414	-0.0141	-0.0162	-0.0382	0.9941	0.0444	0.0438
-0.0396	-0.0002	-0.0213	-0.0183	0.0459	0.9965	0.0485
-0.0457	-0.0148	-0.0141	-0.0423	0.0457	0.0490	0.9976
-0.0531	-0.0178	-0.0315	-0.0284	-0.0307	-0.0222	-0.0426
-0.0623	-0.0205	-0.0337	0.0199	-0.0462	-0.0372	-0.0524
-0.0469	-0.0152	-0.0228	-0.0471	-0.0382	-0.0336	-0.0279
-0.0320	-0.0103	-0.0171	0.0041	-0.0225	-0.0106	-0.0266
-0.0211	-0.0068	-0.0073	-0.0214	-0.0173	-0.0138	-0.0170
-0.0317	-0.0100	-0.0063	-0.0233	0.0212	-0.0220	-0.0178
-0.0206	-0.0068	-0.0118	-0.0109	-0.0105	0.0011	-0.0153
0.9121	-0.0168	0.0104	-0.0532	-0.0408	-0.0389	-0.0449
-0.0172	0.9847	-0.0100	-0.0177	-0.0144	0.0006	-0.0150
0.0105	-0.0101	0.9807	-0.0268	-0.0149	-0.0213	-0.0170
-0.0556	-0.0179	-0.0270	0.9791	-0.0396	-0.0183	-0.0440
-0.0416	-0.0142	-0.0174	-0.0378	0.9834	0.0399	0.0396

SKI	NOWMO	TRAIL	VIEW	AGE	GENDER1	HF	INCES
0.0755	0.0534	0.1035	0.0605	-0.0239	-0.0361	0.0289	-0.0653
-0.0120	0.0525	-0.1251	-0.0020	-0.0210	-0.0399	0.0059	0.0400
-0.0507	-0.0554	-0.0315	-0.0289	-0.0168	-0.0275	-0.0168	-0.0367
0.0215	0.0455	-0.0524	-0.0117	-0.0036	0.0005	-0.0198	0.1715
0.0417	-0.0683	0.0785	-0.0466	0.0608	0.1886	-0.0352	-0.1141
0.0065	-0.0091	-0.0435	0.0195	-0.0050	-0.0239	0.0533	0.0903
0.2213	0.3230	0.1284	0.1749	0.0549	0.1418	0.0730	0.3763
0.2197	0.3040	0.1307	0.1635	0.1078	0.1376	0.0706	0.4733
0.1952	0.2782	0.1115	0.1524	0.1317	0.1238	0.0627	0.5197
0.2038	0.2806	0.0961	0.1370	0.0976	0.1135	0.0547	0.5024
-0.0522	-0.0560	-0.0303	-0.0319	-0.0162	-0.0283	-0.0171	-0.0367
-0.0571	-0.0758	-0.0594	-0.0379	-0.0305	0.0008	-0.0127	-0.0711
-0.0523	-0.0675	-0.0555	-0.0292	-0.0263	-0.0372	-0.0063	-0.0689
-0.0691	-0.0834	-0.0535	-0.0422	-0.0315	-0.0335	-0.0262	-0.0766
0.6520	-0.0019	0.0839	-0.0459	-0.0386	-0.0375	-0.0231	-0.0904
0.0077	0.6412	0.0545	-0.0549	-0.0458	-0.0475	-0.0349	-0.1065
0.0576	0.0204	0.6565	-0.0435	-0.0329	-0.0406	-0.0289	-0.0780
-0.0414	-0.0496	-0.0404	0.7002	-0.0209	-0.0246	-0.0111	-0.0497
-0.0409	-0.0477	-0.0348	-0.0239	0.6181	-0.0187	-0.0156	-0.0431
-0.0338	-0.0438	-0.0375	-0.0253	-0.0155	0.6921	-0.0168	-0.0497
-0.0291	-0.0399	-0.0322	-0.0170	-0.0165	-0.0205	0.5879	-0.0386
-0.0888	-0.1032	-0.0775	-0.0527	-0.0400	-0.0521	-0.0341	0.6602
-0.0280	-0.0323	-0.0239	-0.0162	-0.0121	-0.0157	-0.0107	-0.0288
-0.0494	-0.0548	-0.0381	-0.0275	-0.0193	-0.0174	-0.0185	-0.0368
-0.0678	-0.0540	-0.0722	-0.0216	-0.0384	-0.0418	-0.0220	-0.0905
-0.0308	-0.0456	-0.0378	-0.0222	-0.0192	0.0198	-0.0106	-0.0438
-0.0224	-0.0369	-0.0336	-0.0104	-0.0153	-0.0219	0.0008	-0.0420
-0.0426	-0.0522	-0.0282	-0.0265	-0.0190	-0.0177	-0.0153	-0.0488
0.9959	0.0729	0.1731	-0.0250	-0.0231	-0.0208	-0.0101	-0.0563
0.0709	0.9973	0.1195	-0.0314	-0.0283	-0.0206	-0.0186	-0.0664
0.1763	0.1246	0.9955	-0.0280	-0.0213	-0.0252	-0.0185	-0.0501
-0.0252	-0.0315	-0.0281	0.9974	-0.0141	-0.0172	-0.0028	-0.0341
-0.0206	-0.0251	-0.0189	-0.0125	0.9711	-0.0089	-0.0081	-0.0223
-0.0210	-0.0205	-0.0254	-0.0172	-0.0098	0.9972	-0.0117	-0.0338
-0.0100	-0.0185	-0.0185	-0.0025	-0.0091	-0.0117	0.9968	-0.0220
-0.0518	-0.0609	-0.0460	-0.0313	-0.0231	-0.0309	-0.0202	0.9795
-0.0179	-0.0206	-0.0153	-0.0104	-0.0078	-0.0101	-0.0069	-0.0184
-0.0323	-0.0343	-0.0241	-0.0174	-0.0069	-0.0078	-0.0121	0.0099
-0.0296	0.0186	-0.0482	0.0021	-0.0242	-0.0230	-0.0111	-0.0591
-0.0308	-0.0466	-0.0379	-0.0222	-0.0194	0.0185	-0.0112	-0.0440

ONITE	P EOPVEH	
-0.0149	-0.0307	0.1051
-0.0249	0.0178	0.0097
-0.0048	-0.0210	-0.0539
-0.0161	0.0472	0.0298
-0.0340	-0.0013	-0.0872
0.0170	-0.0168	0.0290
0.0757	0.1486	0.3306
0.0745	0.1365	0.3072
0.0676	0.1284	0.2853
0.0578	0.1365	0.2778
-0.0090	-0.0203	-0.0573
-0.0225	-0.0335	-0.0679
-0.0149	-0.0368	-0.0532
-0.0235	-0.0338	-0.0736
-0.0283	-0.0508	-0.0747
-0.0331	-0.0571	-0.0636
-0.0240	-0.0398	-0.0757
-0.0151	-0.0260	-0.0211
-0.0130	-0.0215	-0.0425
-0.0148	-0.0161	-0.0419
-0.0120	-0.0213	-0.0313
-0.0285	-0.0294	-0.0924
0.6570	-0.0160	-0.0276
-0.0156	0.6702	-0.0462
-0.0263	-0.0447	0.6761
-0.0143	-0.0148	-0.0390
0.0003	-0.0212	-0.0179
-0.0150	-0.0169	-0.0437
-0.0180	-0.0324	-0.0288
-0.0208	-0.0344	0.0193
-0.0154	-0.0239	-0.0479
-0.0105	-0.0174	0.0021
-0.0070	-0.0065	-0.0215
-0.0102	-0.0077	-0.0229
-0.0069	-0.0121	-0.0108
-0.0170	0.0070	-0.0541
0.9970	-0.0103	-0.0179
-0.0103	0.9977	-0.0275
-0.0181	-0.0276	0.9981
-0.0144	-0.0163	-0.0388

	Y	TCH	TCWH	TCFWH	TCCAMP	TCDRIVE
TCFWPCMP	0.0562	0.0352	-0.0334	0.0275	-0.0441	-0.0026
TCFWPIC	0.0533	-0.0684	-0.0296	0.0083	0.0632	-0.0195
TCFWSKI	0.0692	-0.0001	-0.0483	0.0933	0.0457	0.0081
TCFWSNWM	0.0474	0.0549	-0.0541	0.1014	-0.0654	-0.0097
TCFWTRL	0.1026	-0.1239	-0.0315	-0.0414	0.0793	-0.0428
TCFWVIEW	0.0592	-0.0009	-0.0287	0.0062	-0.0467	0.0178
CAMP	-0.0230	-0.0133	-0.0164	0.0353	0.0496	-0.0048
DRIVE	-0.0377	-0.0408	-0.0277	0.0317	0.1886	-0.0241
FISH	0.0260	0.0083	-0.0165	-0.0079	-0.0329	0.0548
GENERAL	-0.0474	0.0375	-0.0353	0.2994	-0.1086	0.0880
HIKE	-0.0163	-0.0235	-0.0054	-0.0065	-0.0335	0.0157
HUNT	-0.0299	0.0208	-0.0213	0.0737	-0.0032	-0.0191
NATURE	0.0972	0.0102	-0.0533	0.0752	-0.0862	0.0287
OHVUSE	-0.0160	-0.0019	-0.0403	0.0040	0.2200	0.0365
PCAMP	0.0587	0.0326	-0.0332	-0.0049	-0.0475	-0.0048
PICNIC	0.0569	-0.0694	-0.0289	-0.0188	0.0636	-0.0227
SKI	0.0755	-0.0120	-0.0507	0.0215	0.0417	0.0065
SNOWMOB	0.0534	0.0525	-0.0554	0.0455	-0.0683	-0.0091
TRAIL	0.1035	-0.1251	-0.0315	-0.0524	0.0785	-0.0435
VIEW	0.0605	-0.0020	-0.0289	-0.0117	-0.0466	0.0195
AGE	-0.0239	-0.0210	-0.0168	-0.0036	0.0608	-0.0050
GENDER1	-0.0361	-0.0399	-0.0275	0.0005	0.1886	-0.0239
HF	0.0289	0.0059	-0.0168	-0.0198	-0.0352	0.0533
INCES	-0.0653	0.0400	-0.0367	0.1715	-0.1141	0.0903
ONITE	-0.0149	-0.0249	-0.0048	-0.0161	-0.0340	0.0170
PEOPVEH	-0.0307	0.0178	-0.0210	0.0472	-0.0013	-0.0168
	0.1051	0.0097	-0.0539	0.0298	-0.0872	0.0290

TCFISH	TCGEN	TCHIKE	TCHUNT	TCNAT	TCOHV	TCPCAMP
0.1989	0.1871	0.1737	0.1713	-0.0340	-0.0198	0.6264
0.1551	0.1452	0.1338	0.1276	-0.0298	-0.0188	-0.0204
0.2182	0.2160	0.1931	0.2287	-0.0496	-0.0542	-0.0496
0.3158	0.2972	0.2724	0.2971	-0.0544	-0.0741	-0.0641
0.1291	0.1315	0.1124	0.0992	-0.0302	-0.0584	-0.0549
0.1723	0.1613	0.1503	0.1422	-0.0317	-0.0372	-0.0287
0.0560	0.1045	0.1264	0.1117	-0.0161	-0.0286	-0.0240
0.1356	0.1320	0.1184	0.1182	-0.0287	-0.0011	-0.0372
0.0729	0.0702	0.0627	0.0590	-0.0167	-0.0124	-0.0066
0.3634	0.4450	0.4831	0.5551	-0.0346	-0.0669	-0.0646
0.0748	0.0734	0.0668	0.0604	-0.0092	-0.0221	-0.0149
0.1475	0.1352	0.1273	0.1436	-0.0206	-0.0338	-0.0362
0.3246	0.3012	0.2801	0.2904	-0.0565	-0.0665	-0.0524
0.2086	0.2000	0.1920	0.1777	-0.0417	0.6565	-0.0224
0.2015	0.1893	0.1758	0.1631	-0.0346	-0.0204	0.6410
0.1559	0.1458	0.1340	0.1201	-0.0300	-0.0207	-0.0221
0.2213	0.2197	0.1952	0.2038	-0.0522	-0.0571	-0.0523
0.3230	0.3040	0.2782	0.2806	-0.0560	-0.0758	-0.0675
0.1284	0.1307	0.1115	0.0961	-0.0303	-0.0594	-0.0555
0.1749	0.1635	0.1524	0.1370	-0.0319	-0.0379	-0.0292
0.0549	0.1078	0.1317	0.0976	-0.0162	-0.0305	-0.0263
0.1418	0.1376	0.1238	0.1135	-0.0283	0.0008	-0.0372
0.0730	0.0706	0.0627	0.0547	-0.0171	-0.0127	-0.0063
0.3763	0.4733	0.5197	0.5024	-0.0367	-0.0711	-0.0689
0.0757	0.0745	0.0676	0.0578	-0.0090	-0.0225	-0.0149
0.1486	0.1365	0.1284	0.1365	-0.0203	-0.0335	-0.0368
0.3306	0.3072	0.2853	0.2778	-0.0573	-0.0679	-0.0532

TCPICNIC	TCSKI	TCSNOWMB	TCTRAIL	TCVIEW	TCWCAMP
-0.0251	-0.0505	-0.0626	-0.0537	-0.0239	-0.0266
0.6373	-0.0673	-0.0826	-0.0527	-0.0380	-0.0323
-0.0654	0.6120	0.0007	0.0459	-0.0389	-0.0386
-0.0814	-0.0097	0.6240	0.0111	-0.0472	-0.0464
-0.0527	0.0844	0.0552	0.6480	-0.0398	-0.0343
-0.0416	-0.0450	-0.0527	-0.0427	0.6893	-0.0235
-0.0294	-0.0363	-0.0429	-0.0308	-0.0195	0.5787
-0.0317	-0.0388	-0.0476	-0.0407	-0.0241	-0.0162
-0.0256	-0.0226	-0.0336	-0.0280	-0.0102	-0.0152
-0.0717	-0.0849	-0.0998	-0.0730	-0.0465	-0.0404
-0.0231	-0.0278	-0.0326	-0.0236	-0.0148	-0.0127
-0.0311	-0.0495	-0.0558	-0.0387	-0.0254	-0.0213
-0.0719	-0.0731	-0.0611	-0.0744	-0.0196	-0.0418
-0.0274	-0.0582	-0.0774	-0.0597	-0.0350	-0.0327
-0.0262	-0.0516	-0.0665	-0.0547	-0.0243	-0.0278
0.6528	-0.0685	-0.0844	-0.0536	-0.0389	-0.0332
-0.0691	0.6520	0.0077	0.0576	-0.0414	-0.0409
-0.0834	-0.0019	0.6412	0.0204	-0.0496	-0.0477
-0.0535	0.0839	0.0545	0.6565	-0.0404	-0.0348
-0.0422	-0.0459	-0.0549	-0.0435	0.7002	-0.0239
-0.0315	-0.0386	-0.0458	-0.0329	-0.0209	0.6181
-0.0335	-0.0375	-0.0475	-0.0406	-0.0246	-0.0187
-0.0262	-0.0231	-0.0349	-0.0289	-0.0111	-0.0156
-0.0766	-0.0904	-0.1065	-0.0780	-0.0497	-0.0431
-0.0235	-0.0283	-0.0331	-0.0240	-0.0151	-0.0130
-0.0338	-0.0508	-0.0571	-0.0398	-0.0260	-0.0215
-0.0736	-0.0747	-0.0636	-0.0757	-0.0211	-0.0425

TCWDRIVE	TCWFISH	TCWGEN	TCWHIKE	TCWHUNT	TCWNAT
-0.0334	-0.0141	-0.0642	-0.0149	-0.0345	-0.0449
-0.0260	-0.0291	-0.0738	-0.0227	-0.0271	-0.0675
-0.0332	-0.0280	-0.0834	-0.0263	-0.0464	-0.0633
-0.0431	-0.0389	-0.1005	-0.0314	-0.0534	-0.0517
-0.0369	-0.0318	-0.0765	-0.0235	-0.0369	-0.0712
-0.0243	-0.0165	-0.0518	-0.0159	-0.0270	-0.0187
-0.0119	-0.0155	-0.0376	-0.0113	-0.0183	-0.0361
0.6928	-0.0206	-0.0521	-0.0156	-0.0147	-0.0420
-0.0163	0.5709	-0.0331	-0.0104	-0.0179	-0.0210
-0.0466	-0.0361	0.6182	-0.0269	-0.0341	-0.0849
-0.0145	-0.0118	-0.0280	0.6476	-0.0153	-0.0262
-0.0139	-0.0207	-0.0266	-0.0155	0.6524	-0.0433
-0.0414	-0.0310	-0.0906	-0.0273	-0.0449	0.6624
0.0031	-0.0195	-0.0696	-0.0225	-0.0329	-0.0649
-0.0342	-0.0133	-0.0658	-0.0147	-0.0351	-0.0462
-0.0291	-0.0296	-0.0756	-0.0234	-0.0312	-0.0696
-0.0338	-0.0291	-0.0888	-0.0280	-0.0494	-0.0678
-0.0438	-0.0399	-0.1032	-0.0323	-0.0548	-0.0540
-0.0375	-0.0322	-0.0775	-0.0239	-0.0381	-0.0722
-0.0253	-0.0170	-0.0527	-0.0162	-0.0275	-0.0216
-0.0155	-0.0165	-0.0400	-0.0121	-0.0193	-0.0384
0.6921	-0.0205	-0.0521	-0.0157	-0.0174	-0.0418
-0.0168	0.5879	-0.0341	-0.0107	-0.0185	-0.0220
-0.0497	-0.0386	0.6602	-0.0288	-0.0368	-0.0905
-0.0148	-0.0120	-0.0285	0.6570	-0.0156	-0.0263
-0.0161	-0.0213	-0.0294	-0.0160	0.6702	-0.0447
-0.0419	-0.0313	-0.0924	-0.0276	-0.0462	0.6761

TCWOHV	TCWPCAMP	TCWPIC	TCWSKI	TCWSNWMB	TCWTRAIL
0.0442	0.9800	0.0494	-0.0218	-0.0335	-0.0331
0.0457	0.0503	0.9842	-0.0420	-0.0513	-0.0270
-0.0294	-0.0215	-0.0405	0.9618	0.0586	0.1517
-0.0447	-0.0337	-0.0510	0.0602	0.9740	0.1066
-0.0372	-0.0332	-0.0271	0.1730	0.1196	0.9915
-0.0216	-0.0101	-0.0261	-0.0243	-0.0294	-0.0276
-0.0181	-0.0137	-0.0178	-0.0221	-0.0265	-0.0199
0.0169	-0.0220	-0.0159	-0.0220	-0.0213	-0.0253
-0.0104	0.0015	-0.0150	-0.0093	-0.0177	-0.0180
-0.0414	-0.0396	-0.0457	-0.0531	-0.0623	-0.0469
-0.0141	-0.0002	-0.0148	-0.0178	-0.0205	-0.0152
-0.0162	-0.0213	-0.0141	-0.0315	-0.0337	-0.0228
-0.0382	-0.0183	-0.0423	-0.0284	0.0199	-0.0471
0.9941	0.0459	0.0457	-0.0307	-0.0462	-0.0382
0.0444	0.9965	0.0490	-0.0222	-0.0372	-0.0336
0.0438	0.0485	0.9976	-0.0426	-0.0524	-0.0279
-0.0308	-0.0224	-0.0426	0.9959	0.0709	0.1763
-0.0456	-0.0369	-0.0522	0.0729	0.9973	0.1246
-0.0378	-0.0336	-0.0282	0.1731	0.1195	0.9955
-0.0222	-0.0104	-0.0265	-0.0250	-0.0314	-0.0280
-0.0192	-0.0153	-0.0190	-0.0231	-0.0283	-0.0213
0.0198	-0.0219	-0.0177	-0.0208	-0.0206	-0.0252
-0.0106	0.0008	-0.0153	-0.0101	-0.0186	-0.0185
-0.0438	-0.0420	-0.0488	-0.0563	-0.0664	-0.0501
-0.0143	0.0003	-0.0150	-0.0180	-0.0208	-0.0154
-0.0148	-0.0212	-0.0169	-0.0324	-0.0344	-0.0239
-0.0390	-0.0179	-0.0437	-0.0288	0.0193	-0.0479

TCWVIEW	TCFWCAMP	TCFWDRVE	TCFWFISH	TCFWGEN
-0.0104	-0.0129	-0.0216	0.0010	-0.0380
-0.0260	-0.0166	-0.0153	-0.0152	-0.0438
-0.0237	-0.0197	-0.0210	-0.0097	-0.0488
-0.0295	-0.0244	-0.0211	-0.0181	-0.0593
-0.0277	-0.0186	-0.0249	-0.0183	-0.0454
0.9830	-0.0123	-0.0164	-0.0021	-0.0308
-0.0132	0.9230	-0.0073	-0.0086	-0.0218
-0.0167	-0.0073	0.9743	-0.0117	-0.0310
-0.0020	-0.0079	-0.0114	0.9820	-0.0197
-0.0320	-0.0211	-0.0317	-0.0206	0.9121
-0.0103	-0.0068	-0.0100	-0.0068	-0.0168
-0.0171	-0.0073	-0.0063	-0.0118	0.0104
0.0041	-0.0214	-0.0233	-0.0109	-0.0532
-0.0225	-0.0173	0.0212	-0.0105	-0.0408
-0.0106	-0.0138	-0.0220	0.0011	-0.0389
-0.0266	-0.0170	-0.0178	-0.0153	-0.0449
-0.0252	-0.0206	-0.0210	-0.0100	-0.0518
-0.0315	-0.0251	-0.0205	-0.0185	-0.0609
-0.0281	-0.0189	-0.0254	-0.0185	-0.0460
0.9974	-0.0125	-0.0172	-0.0025	-0.0313
-0.0141	0.9711	-0.0098	-0.0091	-0.0231
-0.0172	-0.0089	0.9972	-0.0117	-0.0309
-0.0028	-0.0081	-0.0117	0.9968	-0.0202
-0.0341	-0.0223	-0.0338	-0.0220	0.9795
-0.0105	-0.0070	-0.0102	-0.0069	-0.0170
-0.0174	-0.0065	-0.0077	-0.0121	0.0070
0.0021	-0.0215	-0.0229	-0.0108	-0.0541

TCFWHIKE	TCFWHUNT	TCFWNAT	TCFWOHV	TCFWPCMP	TCFWPIC
-0.0005	-0.0212	-0.0178	0.0399	1.0000	0.0451
-0.0146	-0.0131	-0.0422	0.0430	0.0451	1.0000
-0.0168	-0.0303	-0.0277	-0.0292	-0.0212	-0.0407
-0.0201	-0.0335	0.0182	-0.0453	-0.0289	-0.0511
-0.0151	-0.0226	-0.0475	-0.0373	-0.0336	-0.0271
-0.0102	-0.0171	0.0059	-0.0214	-0.0102	-0.0261
-0.0073	-0.0072	-0.0231	-0.0182	-0.0127	-0.0178
-0.0101	-0.0058	-0.0237	0.0164	-0.0218	-0.0129
-0.0067	-0.0117	-0.0102	-0.0108	0.0016	-0.0153
-0.0172	0.0105	-0.0556	-0.0416	-0.0396	-0.0457
0.9847	-0.0101	-0.0179	-0.0142	-0.0019	-0.0147
-0.0100	0.9807	-0.0270	-0.0174	-0.0214	-0.0095
-0.0177	-0.0268	0.9791	-0.0378	-0.0175	-0.0413
-0.0144	-0.0149	-0.0396	0.9834	0.0410	0.0421
0.0006	-0.0213	-0.0183	0.0399	0.9834	0.0445
-0.0150	-0.0170	-0.0440	0.0396	0.0432	0.9855
-0.0179	-0.0323	-0.0296	-0.0308	-0.0224	-0.0429
-0.0206	-0.0343	0.0186	-0.0466	-0.0338	-0.0523
-0.0153	-0.0241	-0.0482	-0.0379	-0.0340	-0.0283
-0.0104	-0.0174	0.0021	-0.0222	-0.0108	-0.0265
-0.0078	-0.0069	-0.0242	-0.0194	-0.0144	-0.0189
-0.0101	-0.0078	-0.0230	0.0185	-0.0219	-0.0155
-0.0069	-0.0121	-0.0111	-0.0112	0.0006	-0.0156
-0.0184	0.0099	-0.0591	-0.0440	-0.0420	-0.0488
0.9970	-0.0103	-0.0181	-0.0144	-0.0015	-0.0150
-0.0103	0.9977	-0.0276	-0.0163	-0.0215	-0.0132
-0.0179	-0.0275	0.9981	-0.0388	-0.0178	-0.0430

TCFWSKI	TCFWSNWM	TCFWTRL	TCFWVIEW	CAMP	DRIVE	FISH
-0.0212	-0.0289	-0.0336	-0.0102	-0.0127	-0.0218	0.0016
-0.0407	-0.0511	-0.0271	-0.0261	-0.0178	-0.0129	-0.0153
1.0000	0.0564	0.1637	-0.0233	-0.0217	-0.0221	-0.0094
0.0564	1.0000	0.1162	-0.0278	-0.0263	-0.0225	-0.0178
0.1637	0.1162	1.0000	-0.0278	-0.0201	-0.0253	-0.0182
-0.0233	-0.0278	-0.0278	1.0000	-0.0132	-0.0156	-0.0018
-0.0217	-0.0263	-0.0201	-0.0132	1.0000	-0.0043	-0.0086
-0.0221	-0.0225	-0.0253	-0.0156	-0.0043	1.0000	-0.0116
-0.0094	-0.0178	-0.0182	-0.0018	-0.0086	-0.0116	1.0000
-0.0510	-0.0619	-0.0473	-0.0321	-0.0230	-0.0323	-0.0206
-0.0170	-0.0204	-0.0153	-0.0103	-0.0073	-0.0102	-0.0068
-0.0302	-0.0335	-0.0219	-0.0173	-0.0087	-0.0036	-0.0117
-0.0272	0.0187	-0.0475	0.0094	-0.0234	-0.0239	-0.0104
-0.0299	-0.0468	-0.0384	-0.0224	-0.0187	0.0193	-0.0108
-0.0220	-0.0343	-0.0342	-0.0107	-0.0139	-0.0225	0.0014
-0.0414	-0.0522	-0.0281	-0.0267	-0.0182	-0.0162	-0.0155
0.9628	0.0682	0.1900	-0.0251	-0.0228	-0.0223	-0.0098
0.0683	0.9758	0.1354	-0.0303	-0.0270	-0.0225	-0.0183
0.1637	0.1160	0.9953	-0.0282	-0.0204	-0.0258	-0.0184
-0.0242	-0.0303	-0.0282	0.9858	-0.0135	-0.0170	-0.0022
-0.0228	-0.0281	-0.0214	-0.0141	0.9540	-0.0077	-0.0091
-0.0211	-0.0224	-0.0253	-0.0167	-0.0073	0.9782	-0.0116
-0.0102	-0.0189	-0.0187	-0.0026	-0.0088	-0.0120	0.9826
-0.0542	-0.0660	-0.0505	-0.0343	-0.0243	-0.0345	-0.0219
-0.0173	-0.0207	-0.0155	-0.0105	-0.0075	-0.0104	-0.0069
-0.0310	-0.0343	-0.0232	-0.0176	-0.0079	-0.0055	-0.0120
-0.0281	0.0170	-0.0483	0.0047	-0.0236	-0.0239	-0.0105

GENERAL	HIKE	HUNT	NATURE	OHVUSE	PCAMP	PICNIC
-0.0396	-0.0019	-0.0214	-0.0175	0.0410	0.9834	0.0432
-0.0457	-0.0147	-0.0095	-0.0413	0.0421	0.0445	0.9855
-0.0510	-0.0170	-0.0302	-0.0272	-0.0299	-0.0220	-0.0414
-0.0619	-0.0204	-0.0335	0.0187	-0.0468	-0.0343	-0.0522
-0.0473	-0.0153	-0.0219	-0.0475	-0.0384	-0.0342	-0.0281
-0.0321	-0.0103	-0.0173	0.0094	-0.0224	-0.0107	-0.0267
-0.0230	-0.0073	-0.0087	-0.0234	-0.0187	-0.0139	-0.0182
-0.0323	-0.0102	-0.0036	-0.0239	0.0193	-0.0225	-0.0162
-0.0206	-0.0068	-0.0117	-0.0104	-0.0108	0.0014	-0.0155
1.0000	-0.0175	0.0111	-0.0556	-0.0427	-0.0406	-0.0468
-0.0175	1.0000	-0.0101	-0.0180	-0.0146	-0.0009	-0.0151
0.0111	-0.0101	1.0000	-0.0266	-0.0169	-0.0216	-0.0144
-0.0556	-0.0180	-0.0266	1.0000	-0.0392	-0.0186	-0.0434
-0.0427	-0.0146	-0.0169	-0.0392	1.0000	0.0412	0.0402
-0.0406	-0.0009	-0.0216	-0.0186	0.0412	1.0000	0.0427
-0.0468	-0.0151	-0.0144	-0.0434	0.0402	0.0427	1.0000
-0.0542	-0.0182	-0.0322	-0.0296	-0.0312	-0.0229	-0.0435
-0.0636	-0.0209	-0.0344	0.0180	-0.0478	-0.0378	-0.0534
-0.0479	-0.0155	-0.0235	-0.0482	-0.0390	-0.0346	-0.0292
-0.0326	-0.0105	-0.0176	0.0030	-0.0230	-0.0110	-0.0271
-0.0244	-0.0079	-0.0086	-0.0247	-0.0198	-0.0155	-0.0194
-0.0323	-0.0102	-0.0063	-0.0237	0.0224	-0.0224	-0.0181
-0.0212	-0.0070	-0.0121	-0.0115	-0.0111	0.0007	-0.0158
0.9392	-0.0187	0.0106	-0.0591	-0.0451	-0.0430	-0.0500
-0.0177	0.9855	-0.0103	-0.0182	-0.0148	-0.0004	-0.0154
0.0076	-0.0104	0.9825	-0.0273	-0.0155	-0.0215	-0.0173
-0.0566	-0.0182	-0.0275	0.9802	-0.0401	-0.0182	-0.0448

SKI	NOWMO	TRAIL	VIEW	AGE	GENDER1	HF	INCES
-0.0224	-0.0338	-0.0340	-0.0108	-0.0144	-0.0219	0.0006	-0.0420
-0.0429	-0.0523	-0.0283	-0.0265	-0.0189	-0.0155	-0.0156	-0.0488
0.9628	0.0683	0.1637	-0.0242	-0.0228	-0.0211	-0.0102	-0.0542
0.0682	0.9758	0.1160	-0.0303	-0.0281	-0.0224	-0.0189	-0.0660
0.1900	0.1354	0.9953	-0.0282	-0.0214	-0.0253	-0.0187	-0.0505
-0.0251	-0.0303	-0.0282	0.9858	-0.0141	-0.0167	-0.0026	-0.0343
-0.0228	-0.0270	-0.0204	-0.0135	0.9540	-0.0073	-0.0088	-0.0243
-0.0223	-0.0225	-0.0258	-0.0170	-0.0077	0.9782	-0.0120	-0.0345
-0.0098	-0.0183	-0.0184	-0.0022	-0.0091	-0.0116	0.9826	-0.0219
-0.0542	-0.0636	-0.0479	-0.0326	-0.0244	-0.0323	-0.0212	0.9392
-0.0182	-0.0209	-0.0155	-0.0105	-0.0079	-0.0102	-0.0070	-0.0187
-0.0322	-0.0344	-0.0235	-0.0176	-0.0086	-0.0063	-0.0121	0.0106
-0.0296	0.0180	-0.0482	0.0030	-0.0247	-0.0237	-0.0115	-0.0591
-0.0312	-0.0478	-0.0390	-0.0230	-0.0198	0.0224	-0.0111	-0.0451
-0.0229	-0.0378	-0.0346	-0.0110	-0.0155	-0.0224	0.0007	-0.0430
-0.0435	-0.0534	-0.0292	-0.0271	-0.0194	-0.0181	-0.0158	-0.0500
1.0000	0.0821	0.1902	-0.0258	-0.0239	-0.0211	-0.0105	-0.0575
0.0821	1.0000	0.1353	-0.0323	-0.0289	-0.0219	-0.0192	-0.0678
0.1902	0.1353	1.0000	-0.0286	-0.0218	-0.0258	-0.0190	-0.0512
-0.0258	-0.0323	-0.0286	1.0000	-0.0144	-0.0175	-0.0029	-0.0348
-0.0239	-0.0289	-0.0218	-0.0144	1.0000	-0.0098	-0.0093	-0.0257
-0.0211	-0.0219	-0.0258	-0.0175	-0.0098	1.0000	-0.0119	-0.0344
-0.0105	-0.0192	-0.0190	-0.0029	-0.0093	-0.0119	1.0000	-0.0226
-0.0575	-0.0678	-0.0512	-0.0348	-0.0257	-0.0344	-0.0226	1.0000
-0.0184	-0.0212	-0.0158	-0.0107	-0.0081	-0.0104	-0.0071	-0.0190
-0.0331	-0.0351	-0.0247	-0.0179	-0.0077	-0.0077	-0.0124	0.0069
-0.0300	0.0173	-0.0490	0.0011	-0.0248	-0.0233	-0.0114	-0.0601

ONITE	P EOPVEH	
-0.0015	-0.0215	-0.0178
-0.0150	-0.0132	-0.0430
-0.0173	-0.0310	-0.0281
-0.0207	-0.0343	0.0170
-0.0155	-0.0232	-0.0483
-0.0105	-0.0176	0.0047
-0.0075	-0.0079	-0.0236
-0.0104	-0.0055	-0.0239
-0.0069	-0.0120	-0.0105
-0.0177	0.0076	-0.0566
0.9855	-0.0104	-0.0182
-0.0103	0.9825	-0.0275
-0.0182	-0.0273	0.9802
-0.0148	-0.0155	-0.0401
-0.0004	-0.0215	-0.0182
-0.0154	-0.0173	-0.0448
-0.0184	-0.0331	-0.0300
-0.0212	-0.0351	0.0173
-0.0158	-0.0247	-0.0490
-0.0107	-0.0179	0.0011
-0.0081	-0.0077	-0.0248
-0.0104	-0.0077	-0.0233
-0.0071	-0.0124	-0.0114
-0.0190	0.0069	-0.0601
1.0000	-0.0106	-0.0184
-0.0106	1.0000	-0.0281
-0.0184	-0.0281	1.0000

		Table 10 Regression Results ALL Data*				
		No Opp. Cost (TCH)				
		National	Pacific	Rocky Mtn.	Northern	Southern
ONE		0.756 (27.720)	0.736 (13.517)	0.725 (17.852)	0.814 (11.341)	1.031 (14.271)
TC		-0.004 -(81.821)	-0.005 -(45.770)	-0.004 -(49.564)	-0.004 -(18.099)	-0.009 -(64.087)
TCCAMP		-0.001 -(3.506)	0.001 (3.522)	-0.003 -(14.936)	0.002 (1.462)	0.001 (2.708)
TCDRIVE		-0.001 -(11.121)	-0.003 -(13.218)	-0.001 -(4.781)	-0.001 -(0.620)	-0.006 -(3.982)
TCFISH		-0.001 -(10.224)	-0.001 -(5.010)	-0.001 -(3.960)	-0.001 -(1.061)	-0.007 -(13.295)
TCGEN		-0.002 -(15.796)	0.000 -(1.083)	-0.003 -(19.026)	0.000 -(0.175)	0.001 (1.243)
TCHUNT		-0.004 -(22.867)	0.000 (0.431)	-0.004 -(18.839)	0.000 -(0.280)	0.003 (4.504)
TCNAT		-0.001 -(6.799)	0.000 (0.781)	-0.001 -(4.256)	-0.014 -(12.718)	0.001 (1.446)
TCOHV		-0.002 -(6.936)	-0.002 -(4.086)	-0.002 -(4.554)	-0.002 -(0.496)	0.001 (0.163)
TCPCAMP		0.003 (21.841)	0.003 (12.920)	0.003 (14.034)	-0.004 -(3.081)	0.008 (12.461)
TCPICNIC		0.000 -(0.656)	0.000 -(0.029)	0.000 -(0.591)	-0.012 -(3.445)	0.003 (2.842)
TCSKI		0.001 (15.822)	0.001 (7.064)	0.001 (8.189)	-0.004 -(4.973)	1.000 (1.000)
TCSNOWMB		-0.001 -(2.187)	0.000 -(0.001)	-0.002 -(5.663)	0.002 -(2.296)	1.000 (1.000)
TCTRAIL		0.000 (0.651)	-0.006 -(17.024)	0.000 -(1.369)	-0.003 -(10.894)	0.006 (3.532)
TCVIEW		-0.002 -(16.980)	0.000 -(0.792)	-0.002 -(17.191)	-0.010 -(16.366)	0.003 (12.476)
CAMP		-0.149 -(5.753)	-0.106 -(2.412)	-0.186 -(4.580)	0.015 (0.199)	-0.166 -(1.957)
DRIVE		-0.045 -(1.873)	-0.050 -(1.084)	-0.068 -(1.815)	-0.135 -(2.050)	0.232 (3.088)
FISH		0.122 (5.161)	0.229 (5.025)	0.062 (1.632)	0.219 (3.598)	0.174 (2.843)
GENERAL		-0.184 -(9.026)	-0.141 -(3.802)	-0.230 -(7.154)	0.051 (0.836)	-0.348 -(6.674)

	Table 10 Regression Results ALL Data*				
	No Opp. Cost (TCH)				
	National	Pacific	Rocky Mtn.	Northern	Southern
HUNT	0.312 (11.532)	0.131 (2.396)	0.195 (4.872)	0.413 (5.724)	0.271 (4.484)
NATURE	-0.284 -(9.131)	0.110 (1.687)	-0.281 -(5.095)	0.391 (4.176)	-0.855 -(13.638)
OHVUSE	0.273 (6.384)	0.378 (4.609)	0.265 (4.056)	0.707 (4.274)	-0.263 -(2.070)
PCAMP	-0.141 -(4.419)	-0.011 -(0.211)	-0.329 -(6.246)	-0.170 -(1.864)	-0.010 -(0.112)
PICNIC	-0.015 -(0.389)	-0.011 -(0.136)	-0.050 -(0.861)	0.466 (3.559)	-0.168 -(2.041)
SKI	0.279 (13.986)	0.366 (10.829)	0.234 (7.303)	0.519 (7.848)	1.000 (1.000)
SNOWMOB	0.181 (3.400)	0.561 (2.838)	0.555 (5.848)	-0.450 -(6.961)	1.000 (1.000)
TRAIL	0.066 (2.139)	0.276 (4.418)	0.169 (3.283)	0.125 (1.289)	-0.296 -(2.980)
VIEW	-0.255 -(12.866)	-0.352 -(9.839)	-0.197 -(6.136)	-0.252 -(4.563)	-0.158 -(3.085)
ONITE	-0.161 -(10.922)	-0.405 -(16.546)	-0.061 -(2.571)	0.076 (1.872)	0.085 (1.742)
PEOPVEH	-0.095 -(21.608)	-0.068 -(8.152)	-0.105 -(16.741)	-0.158 -(14.026)	-0.098 -(7.247)
INCES	-0.026 -(8.248)	-0.045 -(8.561)	-0.003 -(0.626)	-0.022 -(2.315)	-0.059 -(4.244)
GENDER1	-0.166 -(14.425)	-0.184 -(9.001)	-0.122 -(7.144)	0.018 (0.566)	-0.333 -(9.092)
AGE	0.002 (6.006)	0.000 -(0.494)	0.002 (4.203)	0.005 (4.799)	0.007 (6.359)
HF	3.065 (133.683)	3.147 (59.510)	3.070 (89.576)	2.804 (60.809)	2.765 (58.388)
Alpha	1.677 (39.434)	2.099 (19.774)	1.636 (26.048)	0.862 (17.548)	1.072 (15.721)
NOBS	68,669.000	24,202.000	31,209.000	7,058.000	6,187.000
LRI	0.153	0.152	0.165	0.160	0.150
YHAT	3.088050	2.411510	3.086930	4.152810	4.591480
ELASTICITY	-0.519427	-0.625728	-0.551123	-0.259405	-0.557698

* Values in Parentheses are t-statistics.

	Table 10 Regression Results ALL Data*				
	Wage Based Opp. Cost (TCWH)				
	National	Pacific	Rocky Mtn.	Northern	Southern
ONE	0.583 (21.236)	0.604 (11.195)	0.483 (11.708)	0.684 (9.366)	0.896 (12.617)
TC	-0.003 (-101.940)	-0.003 (-50.952)	-0.002 (-64.959)	-0.002 (-20.268)	-0.005 (-57.873)
TCCAMP	-0.001 (-7.915)	0.001 (3.378)	-0.002 (-16.674)	0.001 (0.923)	0.000 (0.344)
TCDRIVE	-0.001 (-10.668)	-0.002 (-13.156)	0.000 (-3.960)	0.000 (-0.207)	-0.003 (-3.762)
TCFISH	0.000 (-3.266)	-0.001 (-4.643)	0.000 (2.288)	-0.001 (-2.096)	-0.005 (-14.582)
TCGEN	-0.001 (-18.047)	0.000 (-3.277)	-0.001 (-13.682)	-0.001 (-1.007)	0.000 (0.684)
TCHUNT	-0.003 (-29.401)	0.000 (-0.272)	-0.003 (-23.762)	0.000 (-0.774)	0.001 (3.095)
TCNAT	-0.001 (-6.957)	0.000 (-0.461)	0.000 (-3.481)	-0.009 (-13.723)	0.000 (-1.606)
TCOHV	-0.002 (-9.429)	-0.002 (-6.001)	-0.001 (-6.383)	-0.002 (-0.760)	0.000 (-0.121)
TCPCAMP	0.002 (19.517)	0.001 (11.000)	0.001 (11.821)	-0.004 (-4.637)	0.005 (12.235)
TCPICNIC	0.000 (-2.376)	0.000 (-0.428)	0.000 (-2.010)	-0.007 (-3.816)	0.002 (2.565)
TCSKI	0.001 (23.000)	0.001 (8.940)	0.001 (12.456)	-0.001 (-2.672)	1.000 (1.000)
TCSNOWMB	0.000 (-2.400)	0.000 (0.150)	-0.001 (-5.473)	0.001 (1.761)	1.000 (1.000)
TCTRAIL	0.000 (2.337)	-0.003 (-11.794)	0.000 (0.275)	-0.002 (-11.902)	0.003 (3.345)
TCVIEW	-0.001 (-20.040)	0.000 (-1.103)	-0.001 (-20.015)	-0.006 (-15.994)	0.002 (10.244)
CAMP	-0.112 (-4.286)	-0.102 (-2.353)	-0.168 (-4.063)	0.049 (0.656)	-0.115 (-1.321)
DRIVE	-0.053 (-2.205)	-0.031 (-0.660)	-0.101 (-2.732)	-0.134 (-2.031)	0.219 (2.951)
FISH	0.097 (4.133)	0.233 (5.141)	0.008 (0.208)	0.268 (4.416)	0.182 (2.987)
GENERAL	-0.211 (-11.162)	-0.116 (-3.150)	-0.314 (-10.766)	0.096 (1.540)	-0.339 (-6.416)

	Table 10 Regression Results ALL Data*				
	Wage Based Opp. Cost (TCWH)				
	National	Pacific	Rocky Mtn.	Northern	Southern
HUNT	0.369 (13.583)	0.155 (2.785)	0.272 (6.783)	0.443 (6.352)	0.302 (4.990)
NATURE	-0.280 (-9.024)	0.149 (2.245)	-0.297 (-5.496)	0.447 (4.697)	-0.801 (-12.526)
OHVUSE	0.308 (7.124)	0.423 (5.088)	0.306 (4.624)	0.763 (4.443)	-0.233 (-1.907)
PCAMP	-0.111 (-3.444)	0.013 (0.241)	-0.288 (-5.444)	-0.043 (-0.441)	-0.016 (-0.173)
PICNIC	0.016 (0.427)	0.006 (0.073)	0.000 (0.007)	0.475 (3.827)	-0.157 (-1.913)
SKI	0.233 (11.329)	0.346 (9.974)	0.192 (6.153)	0.439 (6.599)	1.000 (1.000)
SNOWMOB	0.200 (3.766)	0.573 (3.014)	0.576 (6.110)	-0.413 (-6.481)	1.000 (1.000)
TRAIL	0.047 (1.480)	0.258 (4.173)	0.125 (2.559)	0.196 (1.950)	-0.284 (-2.878)
VIEW	-0.243 (-12.256)	-0.345 (-9.621)	-0.189 (-5.989)	-0.215 (-3.840)	-0.161 (-3.085)
ONITE	-0.162 (-10.873)	-0.396 (-16.263)	-0.056 (-2.310)	0.070 (1.700)	0.088 (1.790)
PEOPVEH	-0.093 (-21.227)	-0.067 (-8.128)	-0.101 (-16.001)	-0.160 (-14.109)	-0.098 (-7.213)
INCES	0.034 (9.814)	0.006 (1.030)	0.076 (13.975)	0.027 (2.484)	-0.006 (-0.423)
GENDER1	-0.161 (-14.022)	-0.183 (-9.009)	-0.113 (-6.635)	0.016 (0.496)	-0.333 (-9.100)
AGE	0.003 (6.567)	0.000 (-0.031)	0.003 (4.775)	0.005 (4.757)	0.007 (6.449)
HF	3.073 (135.134)	3.121 (59.453)	3.075 (88.909)	2.816 (61.475)	2.766 (57.851)
Alpha	1.684 (39.235)	2.033 (20.090)	1.656 (25.960)	0.859 (17.586)	1.081 (15.699)
NOBS	68,669.000	24,202.000	31,209.000	7,058.000	6,187.000
LRI	0.153	0.153	0.164	0.161	0.149
YHAT	3.075590	2.416130	3.079540	4.137700	4.540620
ELASTICITY	-0.545955	-0.681423	-0.582272	-0.262663	-0.538255

* Values in Parentheses are t-statistics.

		Table 10 Regression Results ALL Data*				
		Flat Rate Opp. Cost (TCFWH)				
		National	Pacific	Rocky Mtn.	Northern	Southern
ONE		0.767	0.759	0.726	0.819	1.057
		(28.411)	(14.126)	(18.231)	(11.403)	(14.658)
TC		-0.003	-0.003	-0.002	-0.002	-0.005
		-(85.059)	-(46.667)	-(50.866)	-(19.332)	-(69.205)
TCCAMP		0.000	0.001	-0.002	0.001	0.001
		-(4.129)	(3.969)	-(13.988)	(1.441)	(2.745)
TCDRIVE		-0.001	-0.002	0.000	0.000	-0.004
		-(11.313)	-(12.927)	-(4.980)	-(0.336)	-(3.781)
TCFISH		0.000	-0.001	0.000	0.000	-0.004
		-(8.391)	-(5.697)	-(2.336)	-(0.999)	-(13.331)
TCGEN		-0.001	0.000	-0.002	0.000	0.001
		-(18.039)	-(2.641)	-(20.627)	(0.048)	(1.554)
TCHUNT		-0.002	0.000	-0.003	0.000	0.002
		-(24.640)	(0.680)	-(20.177)	(0.045)	(5.806)
TCNAT		-0.001	0.000	-0.001	-0.007	0.000
		-(7.482)	(1.134)	-(4.683)	-(12.425)	(0.111)
TCOHV		-0.001	-0.001	-0.001	-0.002	0.000
		-(7.535)	-(4.575)	-(5.043)	-(0.587)	(0.141)
TCPCAMP		0.002	0.001	0.002	-0.002	0.005
		(21.443)	(12.709)	(13.192)	-(3.082)	(12.878)
TCPICNIC		0.000	0.000	0.000	-0.007	0.002
		-(0.989)	(0.298)	-(1.021)	-(4.157)	(2.972)
TCSKI		0.000	0.001	0.000	-0.003	1.000
		(12.074)	(7.957)	(4.787)	-(4.743)	(1.000)
TCSNOWMB		0.000	0.000	-0.001	0.001	1.000
		-(2.091)	-(0.050)	-(5.523)	(2.590)	(1.000)
TCTRAIL		0.000	-0.003	0.000	-0.003	0.004
		(0.136)	-(15.123)	-(1.441)	-(15.274)	(3.505)
TCVIEW		-0.001	0.000	-0.001	-0.006	0.002
		-(16.883)	(0.138)	-(17.572)	-(16.558)	(16.091)
CAMP		-0.144	-0.122	-0.162	0.014	-0.167
		-(5.508)	-(2.777)	-(3.849)	(0.176)	-(1.965)
DRIVE		-0.037	-0.038	-0.060	-0.141	0.261
		-(1.523)	-(0.812)	-(1.607)	-(2.106)	(3.295)
FISH		0.117	0.228	0.057	0.222	0.187
		(4.989)	(5.055)	(1.522)	(3.555)	(3.008)
GENERAL		-0.160	-0.128	-0.189	0.040	-0.360
		-(7.817)	-(3.446)	-(5.806)	(0.634)	-(6.842)

	Table 10 Regression Results ALL Data*				
	Flat Rate Opp. Cost (TCFWH)				
	National	Pacific	Rocky Mtn.	Northern	Southern
HUNT	0.332 (12.225)	0.124 (2.263)	0.237 (5.829)	0.403 (5.571)	0.254 (4.239)
NATURE	-0.271 -(8.660)	0.106 (1.619)	-0.266 -(4.829)	0.411 (4.304)	-0.806 -(12.661)
OHVUSE	0.287 (6.648)	0.392 (4.721)	0.289 (4.371)	0.728 (3.994)	-0.264 -(2.019)
PCAMP	-0.143 -(4.475)	-0.014 -(0.264)	-0.318 -(6.033)	-0.163 -(1.772)	-0.031 -(0.335)
PICNIC	-0.011 -(0.278)	-0.016 -(0.210)	-0.037 -(0.627)	0.496 (3.847)	-0.177 -(2.135)
SKI	0.294 (14.148)	0.351 (10.209)	0.278 (8.373)	0.522 (7.611)	1.000 (1.000)
SNOWMOB	0.189 (3.551)	0.566 (2.832)	0.566 (6.009)	-0.453 -(6.959)	1.000 (1.000)
TRAIL	0.074 (2.307)	0.292 (4.630)	0.180 (3.523)	0.215 (2.154)	-0.309 -(3.071)
VIEW	-0.251 -(12.712)	-0.359 -(10.040)	-0.183 -(5.723)	-0.236 -(4.232)	-0.179 -(3.552)
ONITE	-0.154 -(10.494)	-0.394 -(16.226)	-0.057 -(2.399)	0.078 (1.919)	0.086 (1.776)
PEOPVEH	-0.094 -(21.524)	-0.068 -(8.166)	-0.103 -(16.569)	-0.157 -(13.901)	-0.098 -(7.247)
INCES	-0.024 -(7.805)	-0.045 -(8.493)	-0.001 -(0.177)	-0.021 -(2.226)	-0.058 -(4.145)
GENDER1	-0.164 -(14.309)	-0.182 -(8.931)	-0.117 -(6.926)	0.012 (0.379)	-0.333 -(9.072)
AGE	0.003 (6.781)	0.000 (0.016)	0.003 (4.950)	0.005 (5.038)	0.007 (6.384)
HF	3.038 (136.736)	3.124 (60.494)	3.029 (90.202)	2.798 (61.059)	2.747 (57.519)
Alpha	1.618 (39.983)	2.024 (20.058)	1.560 (26.656)	0.856 (17.579)	1.048 (15.807)
NOBS	68,669.000	24,202.000	31,209.000	7,058.000	6,187.000
LRI	0.154	0.153	0.167	0.161	0.152
YHAT	3.112570	2.437600	3.113400	4.162230	4.591310
ELASTICITY	-0.543389	-0.666284	-0.568001	-0.278779	-0.591187

* Values in Parentheses are t-statistics.

Table 11 Regression Results TOP5 Data*

	No Opp. Cost (TCH)				
	National	Pacific	Rocky Mtn.	Northern	Southern
ONE	0.914 (35.478)	0.943 (18.836)	0.872 (22.669)	0.948 (12.916)	1.051 (14.960)
TC	-0.009 -(75.456)	-0.014 -(45.201)	-0.007 -(50.532)	-0.008 -(12.377)	-0.012 -(27.118)
TCCAMP	-0.001 -(4.172)	0.003 (3.939)	-0.002 -(7.416)	0.001 (0.864)	0.000 -(0.235)
TCDRIVE	-0.002 -(7.952)	-0.006 -(7.813)	-0.002 -(5.539)	0.005 (2.646)	-0.003 -(1.896)
TCFISH	-0.001 -(3.961)	0.004 (4.680)	-0.001 -(1.509)	0.001 (0.812)	-0.007 -(9.067)
TCGEN	-0.003 -(12.443)	0.006 (12.957)	-0.007 -(21.637)	-0.004 -(2.590)	0.005 (4.816)
TCHUNT	-0.003 -(13.605)	0.001 (0.350)	-0.003 -(14.641)	0.003 (1.387)	0.004 (1.522)
TCNAT	-0.004 -(9.909)	0.001 (0.574)	-0.004 -(6.145)	-0.021 -(10.364)	-0.001 -(0.683)
TCOHV	-0.001 -(2.075)	0.005 (3.611)	-0.003 -(7.148)	0.002 (0.477)	0.004 (0.886)
TCPCAMP	-0.001 -(2.961)	-0.002 -(2.121)	-0.004 -(12.431)	0.001 (0.803)	0.006 (6.359)
TCPICNIC	0.001 (2.585)	0.003 (1.613)	-0.001 -(2.198)	-0.011 -(2.516)	0.006 (5.285)
TCSKI	0.004 (35.903)	0.003 (8.345)	0.003 (20.502)	-0.001 -(0.696)	1.000 (1.000)
TCSNOWMB	0.000 -(0.692)	-0.009 -(5.108)	-0.003 -(5.069)	0.005 -(2.645)	1.000 (1.000)
TCTRAIL	0.003 (16.363)	-0.002 -(3.933)	0.002 (4.826)	0.001 (1.090)	0.009 (5.355)
TCVIEW	-0.002 -(10.071)	-0.004 -(6.115)	-0.003 -(10.939)	-0.009 -(9.861)	0.003 -(5.755)
CAMP	-0.140 -(5.445)	-0.212 -(4.059)	-0.220 -(5.733)	0.035 (0.399)	-0.113 -(1.300)
DRIVE	-0.034 -(1.364)	0.019 (0.347)	-0.044 -(1.189)	-0.313 -(4.179)	0.129 (1.799)
FISH	0.118 (4.553)	0.037 (0.716)	0.089 (2.226)	0.117 (1.572)	0.168 (2.537)
GENERAL	-0.163 -(7.709)	-0.353 -(9.387)	-0.067 -(1.990)	0.183 (2.345)	-0.469 -(8.967)

Table 11 Regression Results TOP5 Data*

	No Opp. Cost (TCH)				
	National	Pacific	Rocky Mtn.	Northern	Southern
HUNT	0.262 (10.201)	0.081 (1.135)	0.198 (5.251)	0.281 (3.275)	0.218 (3.114)
NATURE	-0.161 -(4.615)	0.127 (1.579)	-0.193 -(3.436)	0.518 (4.349)	-0.765 -(10.832)
OHVUSE	0.231 (5.191)	0.132 (1.366)	0.291 (4.640)	0.549 (3.396)	-0.344 -(2.719)
PCAMP	0.008 (0.231)	0.314 (4.267)	-0.090 -(1.740)	-0.406 -(4.407)	0.100 (0.968)
PICNIC	-0.097 -(2.607)	-0.129 -(1.396)	-0.065 -(1.172)	0.361 (2.464)	-0.274 -(3.358)
SKI	0.183 (9.382)	0.385 (9.520)	0.209 (6.966)	0.361 (5.285)	1.000 (1.000)
SNOWMOB	0.181 (3.477)	0.770 (4.035)	0.597 (6.645)	-0.565 -(7.171)	1.000 (1.000)
TRAIL	-0.014 -(0.502)	0.155 (2.578)	0.102 (2.125)	-0.032 -(0.326)	-0.399 -(4.089)
VIEW	-0.200 -(9.380)	-0.206 -(4.854)	-0.112 -(3.322)	-0.329 -(5.467)	-0.130 -(2.252)
ONITE	-0.132 -(9.463)	-0.329 -(14.500)	-0.047 -(2.079)	0.124 (3.062)	0.061 (1.272)
PEOPVEH	-0.090 -(21.101)	-0.058 -(7.379)	-0.105 -(17.054)	-0.160 -(14.170)	-0.088 -(6.603)
INCES	-0.011 -(3.190)	-0.005 -(1.004)	0.006 (1.125)	-0.012 -(1.194)	-0.029 -(1.866)
GENDER1	-0.157 -(14.030)	-0.196 -(10.115)	-0.091 -(5.421)	0.017 (0.514)	-0.323 -(8.820)
AGE	0.003 (8.777)	0.002 (3.068)	0.003 (5.438)	0.006 (5.301)	0.007 (7.036)
HF	2.889 (142.389)	2.920 (70.001)	2.893 (97.682)	2.729 (59.083)	2.695 (61.606)
Alpha	1.361 (44.757)	1.564 (23.905)	1.299 (29.329)	0.832 (17.813)	1.015 (15.969)
NOBS	64,894.000	22,968.000	28,860.000	6,939.000	6,126.000
LRI	0.144	0.138	0.158	0.158	0.157
YHAT	3.609390	3.052650	3.770430	4.265170	4.705880
ELASTICITY	-0.567136	-0.758422	-0.556985	-0.416313	-0.648737

* Values in Parentheses are t-statistics.

Table 11 Regression Results TOP5 Data*

	Wage Rate Opp. Cost (TCWH)				
	National	Pacific	Rocky Mtn.	Northern	Southern
ONE	0.687 (26.760)	0.676 (13.768)	0.590 (15.102)	0.786 (10.672)	0.887 (12.399)
TC	-0.005 -(84.316)	-0.008 -(56.687)	-0.004 -(50.416)	-0.005 -(14.178)	-0.007 -(31.067)
TCCAMP	-0.001 -(6.716)	0.002 (3.250)	-0.002 -(8.679)	0.000 -(0.028)	-0.001 -(1.672)
TCDRIVE	-0.001 -(5.420)	-0.003 -(8.036)	0.000 -(2.541)	0.003 (3.766)	-0.001 -(1.773)
TCFISH	-0.001 -(3.879)	0.002 (4.688)	0.000 -(1.657)	0.000 (0.370)	-0.005 -(11.181)
TCGEN	-0.002 -(13.289)	0.002 (8.036)	-0.004 -(21.290)	-0.002 -(2.307)	0.003 (3.594)
TCHUNT	-0.003 -(16.462)	0.000 -(0.256)	-0.003 -(17.514)	0.001 (1.295)	0.001 (0.646)
TCNAT	-0.003 -(12.042)	0.000 (0.404)	-0.003 -(7.796)	-0.012 -(10.021)	-0.001 -(2.046)
TCOHV	-0.001 -(3.976)	0.002 (2.102)	-0.003 -(8.011)	0.001 (0.229)	0.001 (0.570)
TCPCAMP	-0.002 -(8.333)	-0.003 -(5.319)	-0.003 -(9.989)	-0.001 -(1.288)	0.002 (3.948)
TCPICNIC	0.000 (0.641)	0.001 (0.916)	-0.001 -(4.186)	-0.007 -(2.557)	0.004 (4.753)
TCSKI	0.002 (29.936)	0.002 (17.405)	0.001 (11.576)	0.001 (0.914)	1.000 (1.000)
TCSNOWMB	-0.001 -(2.768)	-0.008 -(6.867)	-0.002 -(5.680)	0.002 (2.356)	1.000 (1.000)
TCTRAIL	0.001 (11.688)	-0.001 -(2.606)	0.001 -(5.509)	0.000 -(0.543)	0.004 (4.489)
TCVIEW	-0.001 -(13.187)	-0.001 -(4.717)	-0.002 -(14.844)	-0.005 -(9.424)	0.002 (7.265)
CAMP	-0.114 -(4.260)	-0.196 -(3.839)	-0.187 -(4.647)	0.074 (0.808)	-0.091 -(1.013)
DRIVE	-0.073 -(3.138)	0.031 (0.582)	-0.105 -(3.030)	-0.347 -(4.810)	0.126 (1.776)
FISH	0.122 (4.940)	0.055 (1.094)	0.093 (2.461)	0.154 (2.056)	0.198 (2.941)
GENERAL	-0.136 -(6.475)	-0.273 -(7.227)	-0.044 -(1.326)	0.166 (2.204)	-0.455 -(8.615)

Table 11 Regression Results TOP5 Data*

	Wage Rate Opp. Cost (TCWH)				
	National	Pacific	Rocky Mtn.	Northern	Southern
HUNT	0.353 (13.173)	0.123 (1.833)	0.313 (8.077)	0.298 (3.537)	0.264 (3.708)
NATURE	-0.118 -(3.371)	0.162 (2.109)	-0.141 -(2.488)	0.504 (4.226)	-0.713 -(9.833)
OHVUSE	0.285 (6.187)	0.227 (2.330)	0.361 (5.464)	0.576 (3.457)	-0.310 -(2.501)
PCAMP	0.099 (2.828)	0.483 (6.230)	-0.057 -(1.069)	-0.274 -(2.852)	0.169 (1.555)
PICNIC	-0.057 -(1.537)	-0.079 -(0.865)	-0.008 -(0.156)	0.371 (2.500)	-0.260 -(3.198)
SKI	0.224 (11.066)	0.302 (8.953)	0.296 (9.287)	0.274 (4.002)	1.000 (1.000)
SNOWMOB	0.235 (4.429)	0.947 (4.826)	0.639 (6.990)	-0.527 -(6.742)	1.000 (1.000)
TRAIL	0.001 (0.022)	0.172 (2.793)	0.094 (2.016)	0.033 (0.329)	-0.352 -(3.597)
VIEW	-0.187 -(9.103)	-0.254 -(6.459)	-0.087 -(2.699)	-0.327 -(5.420)	-0.158 -(2.817)
ONITE	-0.130 -(9.297)	-0.324 -(14.272)	-0.049 -(2.149)	0.122 (3.024)	0.068 (1.400)
PEOPVEH	-0.087 -(20.388)	-0.059 -(7.512)	-0.097 -(15.804)	-0.161 -(14.279)	-0.089 -(6.645)
INCES	0.066 (18.404)	0.086 (14.738)	0.091 (16.244)	0.059 (5.072)	0.042 (2.414)
GENDER1	-0.153 -(13.784)	-0.193 -(9.946)	-0.083 -(5.015)	0.010 (0.302)	-0.328 -(8.870)
AGE	0.004 (9.909)	0.003 (3.713)	0.004 (6.686)	0.006 (5.639)	0.007 (6.976)
HF	2.866 (143.072)	2.911 (68.073)	2.850 (100.521)	2.740 (60.154)	2.697 (60.379)
Alpha	1.340 (45.073)	1.559 (24.633)	1.274 (29.748)	0.819 (17.920)	1.020 (15.881)
NOBS	64,894.000	22,969.000	28,860.000	6,939.000	6,126.000
LRI	0.145	0.138	0.159	0.159	0.155
YHAT	3.610280	3.048110	3.778530	4.272120	4.671920
ELASTICITY	-0.575045	-0.788153	-0.547242	-0.470424	-0.62226

* Values in Parentheses are t-statistics.

Table 11 Regression Results TOP5 Data*

	Flat Rate Opp. Cost (TCFWH)				
	National	Pacific	Rocky Mtn.	Northern	Southern
ONE	0.920 (35.889)	0.957 (19.277)	0.865 (22.683)	0.963 (13.115)	1.077 (15.372)
TC	-0.005 -(75.379)	-0.008 -(43.554)	-0.004 -(49.990)	-0.005 -(12.753)	-0.008 -(26.722)
TCCAMP	-0.001 -(4.276)	0.002 (3.359)	-0.001 -(5.590)	0.000 -(0.510)	0.000 -(0.246)
TCDRIVE	-0.001 -(6.391)	-0.003 -(6.575)	-0.001 -(4.099)	0.003 (3.024)	-0.001 -(1.678)
TCFISH	0.000 -(2.348)	0.002 (4.221)	0.000 -(0.015)	0.001 (1.135)	-0.004 -(8.464)
TCGEN	-0.002 -(11.327)	0.002 (7.665)	-0.004 -(19.822)	-0.002 -(2.151)	0.004 (5.461)
TCHUNT	-0.002 -(11.126)	0.001 (0.700)	-0.003 -(12.410)	0.002 (1.571)	0.002 (1.418)
TCNAT	-0.002 -(9.193)	0.001 (1.149)	-0.002 -(5.758)	-0.011 -(9.473)	-0.001 -(1.094)
TCOHV	0.000 -(1.578)	0.003 (3.591)	-0.002 -(6.085)	0.001 (0.326)	0.002 (0.950)
TCPCAMP	0.000 -(1.322)	-0.001 -(2.172)	-0.002 -(7.447)	0.001 (1.046)	0.004 (7.361)
TCPICNIC	0.001 (3.091)	0.002 (1.549)	0.000 -(1.467)	-0.007 -(3.047)	0.004 (5.601)
TCSKI	0.002 (23.618)	0.002 (8.953)	0.001 (10.454)	0.000 -(0.611)	1.000 (1.000)
TCSNOWMB	0.000 -(0.039)	-0.005 -(5.779)	-0.001 -(3.909)	0.003 (2.720)	1.000 (1.000)
TCTRAIL	0.002 (13.323)	-0.001 -(2.180)	0.001 (5.466)	-0.001 -(1.869)	0.006 (5.393)
TCVIEW	-0.001 -(8.649)	-0.002 -(5.848)	-0.001 -(9.553)	-0.005 -(9.385)	0.002 -(5.827)
CAMP	-0.131 -(4.850)	-0.209 -(3.927)	-0.215 -(5.214)	0.112 (1.219)	-0.109 -(1.238)
DRIVE	-0.038 -(1.527)	0.018 (0.327)	-0.055 -(1.496)	-0.336 -(4.415)	0.147 (1.942)
FISH	0.108 (4.175)	0.040 (0.760)	0.073 (1.839)	0.106 (1.394)	0.169 (2.548)
GENERAL	-0.142 -(6.506)	-0.306 -(7.625)	-0.035 -(1.023)	0.157 (1.986)	-0.493 -(9.353)

Table 11 Regression Results TOP5 Data*

	Flat Rate Opp. Cost (TCFWH)				
	National	Pacific	Rocky Mtn.	Northern	Southern
HUNT	0.308 (11.140)	0.074 (1.022)	0.263 (6.568)	0.266 (3.005)	0.210 (2.922)
NATURE	-0.149 -(4.215)	0.111 (1.378)	-0.186 -(3.301)	0.511 (4.215)	-0.705 -(9.631)
OHVUSE	0.229 (5.183)	0.166 (1.749)	0.290 (4.590)	0.557 (3.146)	-0.352 -(2.709)
PCAMP	0.002 (0.046)	0.323 (4.413)	-0.078 -(1.423)	-0.418 -(4.501)	0.068 (0.665)
PICNIC	-0.106 -(2.825)	-0.135 -(1.403)	-0.073 -(1.332)	0.379 (2.645)	-0.292 -(3.585)
SKI	0.271 (13.254)	0.389 (11.301)	0.335 (10.322)	0.354 (5.003)	1.000 (1.000)
SNOWMOB	0.188 (3.518)	0.840 (4.456)	0.597 (6.504)	-0.559 -(6.910)	1.000 (1.000)
TRAIL	-0.017 -(0.575)	0.164 (2.489)	0.096 (2.014)	0.046 (0.461)	-0.420 -(4.271)
VIEW	-0.200 -(9.325)	-0.202 -(4.658)	-0.120 -(3.564)	-0.329 -(5.421)	-0.128 -(2.184)
ONITE	-0.121 -(8.730)	-0.319 -(14.083)	-0.040 -(1.777)	0.127 (3.141)	0.061 (1.281)
PEOPVEH	-0.086 -(20.261)	-0.059 -(7.470)	-0.098 -(16.075)	-0.160 -(14.233)	-0.086 -(6.432)
INCES	-0.006 -(1.773)	-0.006 -(1.152)	0.011 (2.278)	-0.011 -(1.089)	-0.024 -(1.522)
GENDER1	-0.155 -(13.957)	-0.187 -(9.697)	-0.089 -(5.403)	0.012 (0.369)	-0.320 -(8.709)
AGE	0.004 (10.167)	0.003 (3.973)	0.004 (6.615)	0.006 (5.614)	0.007 (7.133)
HF	2.840 (142.671)	2.897 (71.160)	2.823 (99.774)	2.725 (59.504)	2.664 (59.985)
Alpha	1.304 (45.496)	1.528 (24.901)	1.231 (30.048)	0.819 (17.918)	0.984 (16.119)
NOBS	64,894.000	22,969.000	28,860.000	6,939.000	6,126.000
LRI	0.148	0.140	0.162	0.159	0.160
YHAT	3.643850	3.073130	3.805250	4.286150	4.694010
ELASTICITY	-0.616614	-0.786776	-0.604809	-0.447566	-0.705691

* Values in Parentheses are t-statistics.

ONE
TC
CAMP
DRIVE
FISH
GENERAL
HUNT
NATURE
OHVUSE
PCAMP
PICNIC
SKI
SNOWMOB
TRAIL
VIEW
ONITE
PEOPVEH
INCES
GENDER1
AGE
HF
Alpha
<i>NOBS</i>
<i>LRI</i>
<i>YHAT</i>
<i>POINT CS</i>
<i>POINT CS/PERSON</i>
<i>CS EXP</i>
<i>CS EXP/PERSON</i>
<i>ELASTICITY</i>

		Table 12 Regression Results ALL Data: No Travel Cost Interactions*				
		No Opp. Cost (TCH)				
		National	Pacific	Rocky Mtn.	Northern	Southern
ONE		0.779	0.731	0.742	0.833	1.004
		(28.662)	(13.475)	(18.270)	(11.671)	(13.384)
TC		-0.005	-0.005	-0.004	-0.005	-0.006
		-(207.180)	-(164.773)	-(109.711)	-(49.044)	-(54.850)
CAMP		-0.191	-0.034	-0.413	0.143	-0.258
		-(8.311)	-(0.863)	-(11.641)	(2.317)	-(3.693)
DRIVE		-0.131	-0.184	-0.152	-0.221	-0.018
		-(6.408)	-(4.591)	-(5.032)	-(3.937)	-(0.327)
FISH		0.065	0.189	-0.005	0.151	-0.137
		(3.092)	(4.511)	-(0.145)	(2.835)	-(2.741)
GENERAL		-0.291	-0.147	-0.452	0.032	-0.364
		-(16.702)	-(4.547)	-(17.112)	(0.612)	-(7.709)
HUNT		0.155	0.150	-0.067	0.366	0.310
		(6.606)	(3.046)	-(2.048)	(5.577)	(5.083)
NATURE		-0.365	0.128	-0.400	-0.097	-0.945
		-(13.597)	(2.180)	-(8.586)	-(1.338)	-(17.056)
OHVUSE		0.179	0.256	0.161	0.615	-0.261
		(4.986)	(3.821)	(2.990)	(6.310)	-(2.917)
PCAMP		0.121	0.205	-0.151	-0.387	0.676
		(4.442)	(4.420)	-(3.407)	-(5.435)	(8.436)
PICNIC		-0.019	-0.006	-0.085	0.131	-0.093
		(-0.567)	-(0.085)	-(1.685)	(1.408)	-(1.168)
SKI		0.406	0.435	0.405	0.337	1.000
		(22.298)	(13.732)	(15.427)	(6.563)	(1.000)
SNOWMOB		0.139	0.565	0.391	-0.396	1.000
		(2.986)	(3.349)	(5.289)	-(6.644)	(1.000)
TRAIL		0.070	0.051	0.133	-0.018	-0.105
		(2.400)	(0.952)	(3.102)	-(0.191)	-(1.283)
VIEW		-0.378	-0.361	-0.427	-0.739	-0.041
		-(22.531)	-(11.246)	-(16.660)	-(16.395)	-(0.903)
ONITE		-0.171	-0.420	-0.061	0.111	0.128
		-(11.521)	-(17.198)	-(2.517)	(2.632)	(2.541)
PEOPVEH		-0.100	-0.070	-0.103	-0.168	-0.104
		-(22.710)	-(8.320)	-(16.255)	-(14.773)	-(7.477)
INCES		-0.028	-0.047	-0.002	-0.035	-0.074
		(-8.634)	(-9.006)	(-0.361)	(-3.708)	(-4.960)
GENDER1		-0.173	-0.189	-0.130	0.026	-0.386
		-(14.918)	-(9.252)	-(7.453)	(0.791)	-(10.279)
AGE		0.002	-0.001	0.002	0.006	0.006
		(5.243)	-(0.835)	(4.070)	(6.015)	(5.430)
HF		3.082	3.172	3.083	2.880	2.871
		(132.107)	(59.258)	(91.310)	(61.901)	(57.455)
Alpha		1.760	2.172	1.774	0.945	1.246
		(39.416)	(19.684)	(25.395)	(17.071)	(14.860)
NOBS		68,669.000	24,202.000	31,209.000	7,071.000	6,187.000
LRI		0.150	0.150	0.161	0.156	0.141
YHAT		3.063	2.399	3.074	4.140	4.453
POINT CS		217.638	206.496	223.449	205.118	166.848
POINT CS/PERSON		104.119	98.191	104.911	100.044	85.256
CS EXP		199.759	189.011	203.739	192.477	154.762
CS EXP/PERSON		110.850	100.184	111.490	113.796	93.125
ELASTICITY		-0.538671	-0.60409	-0.616908	-0.343803	-0.387169

	Table 12 Regression Results ALL Data: No Travel Cost Interactions*				
	Wage Based Opp. Cost (TCWH)				
	National	Pacific	Rocky Mtn.	Northern	Southern
ONE	0.586	0.608	0.449	0.746	0.902
	(22.172)	(11.334)	(11.279)	(10.512)	(12.125)
TC	-0.003	-0.003	-0.003	-0.003	-0.004
	-(163.917)	-(119.471)	-(97.933)	-(46.022)	-(49.880)
CAMP	-0.195	-0.036	-0.413	0.107	-0.268
	-(8.488)	-(0.914)	-(11.635)	(1.737)	-(3.797)
DRIVE	-0.135	-0.182	-0.177	-0.214	-0.011
	-(6.626)	-(4.568)	-(5.807)	-(3.821)	-(0.206)
FISH	0.080	0.195	0.008	0.155	-0.134
	(3.819)	(4.692)	(0.250)	(2.904)	-(2.667)
GENERAL	-0.278	-0.145	-0.430	0.029	-0.362
	-(16.361)	-(4.528)	-(16.746)	(0.557)	-(7.620)
HUNT	0.185	0.157	-0.028	0.370	0.323
	(7.902)	(3.184)	-(0.873)	(5.660)	(5.269)
NATURE	-0.360	0.137	-0.390	-0.099	-0.948
	-(13.473)	(2.353)	-(8.390)	-(1.376)	-(16.916)
OHVUSE	0.179	0.223	0.175	0.604	-0.256
	(5.010)	(3.428)	(3.231)	(6.230)	-(2.841)
PCAMP	0.124	0.205	-0.137	-0.384	0.691
	(4.521)	(4.485)	-(3.025)	-(5.369)	(8.492)
PICNIC	-0.002	0.002	-0.052	0.131	-0.084
	-(0.066)	(0.027)	-(1.024)	(1.402)	-(1.049)
SKI	0.399	0.438	0.391	0.315	1.000
	(21.800)	(13.853)	(14.910)	(6.126)	(1.000)
SNOWMOB	0.157	0.589	0.421	-0.394	1.000
	(3.365)	(3.518)	(5.618)	-(6.636)	(1.000)
TRAIL	0.069	0.058	0.126	-0.018	-0.118
	(2.359)	(1.096)	(2.907)	-(0.196)	-(1.427)
VIEW	-0.384	-0.358	-0.434	-0.734	-0.045
	-(22.893)	-(11.193)	-(16.983)	-(16.254)	-(1.001)
ONITE	-0.180	-0.412	-0.066	0.103	0.124
	-(12.051)	-(16.998)	-(2.705)	(2.466)	(2.428)
PEOPVEH	-0.097	-0.069	-0.098	-0.167	-0.105
	-(22.266)	-(8.299)	-(15.502)	-(14.762)	-(7.550)
INCES	0.035	0.002	0.088	0.014	-0.030
	(12.093)	(0.339)	(19.505)	(1.476)	-(2.055)
GENDER1	-0.167	-0.189	-0.120	0.026	-0.384
	-(14.426)	-(9.274)	-(6.947)	(0.812)	-(10.226)
AGE	0.002	0.000	0.003	0.006	0.006
	(5.571)	-(0.359)	(4.372)	(5.820)	(5.287)
HF	3.096	3.146	3.101	2.888	2.879
	(133.233)	(60.091)	(88.404)	(63.048)	(55.753)
Alpha	1.782	2.098	1.826	0.938	1.268
	(38.648)	(19.828)	(25.099)	(17.108)	(14.746)
NOBS	68,669.000	24,202.000	31,209.000	7,071.000	6,187.000
LRI	0.149	0.152	0.159	0.157	0.140
YHAT	3.049	2.409	3.064	4.154	4.414
POINT CS	377.752	342.862	392.418	320.061	272.098
POINT CS/PERSON	180.717	163.034	184.243	156.107	139.036
CS EXP	346.719	313.830	357.803	300.336	252.387
CS EXP/PERSON	192.401	166.344	195.797	177.565	151.869
ELASTICITY	-0.549376	-0.662849	-0.618106	-0.386799	-0.385939

* Values in Parentheses are t-statistics.

	Table 12 Regression Results ALL Data: No Travel Cost Interactions*				
	Flat Rate Opp. Cost (TCFWH)				
	National	Pacific	Rocky Mtn.	Northern	Southern
ONE	0.803	0.754	0.773	0.850	1.025
	(30.006)	(14.114)	(19.519)	(11.923)	(13.713)
TC	-0.003	-0.003	-0.003	-0.003	-0.004
	-(174.854)	-(119.008)	-(107.642)	-(41.386)	-(59.531)
CAMP	-0.195	-0.040	-0.414	0.129	-0.259
	-(8.538)	-(1.017)	-(11.743)	(2.088)	-(3.699)
DRIVE	-0.128	-0.182	-0.149	-0.214	-0.014
	-(6.299)	-(4.573)	-(4.995)	-(3.819)	-(0.253)
FISH	0.066	0.185	0.004	0.151	-0.139
	(3.179)	(4.460)	(0.117)	(2.834)	-(2.775)
GENERAL	-0.290	-0.152	-0.444	0.028	-0.366
	-(16.706)	-(4.726)	-(16.953)	(0.530)	-(7.781)
HUNT	0.155	0.150	-0.062	0.364	0.304
	(6.676)	(3.054)	-(1.894)	(5.583)	(5.035)
NATURE	-0.359	0.128	-0.394	-0.099	-0.933
	-(13.455)	(2.202)	-(8.540)	-(1.355)	-(16.729)
OHVUSE	0.175	0.240	0.159	0.607	-0.263
	(4.961)	(3.674)	(3.023)	(6.269)	-(2.958)
PCAMP	0.122	0.212	-0.152	-0.388	0.680
	(4.541)	(4.572)	-(3.461)	-(5.443)	(8.576)
PICNIC	-0.022	-0.007	-0.088	0.125	-0.096
	-(0.655)	-(0.103)	-(1.764)	(1.344)	-(1.217)
SKI	0.404	0.434	0.401	0.329	1.000
	(22.156)	(13.766)	(15.473)	(6.424)	(1.000)
SNOWMOB	0.146	0.565	0.399	-0.389	1.000
	(3.168)	(3.384)	(5.466)	-(6.539)	(1.000)
TRAIL	0.073	0.052	0.143	-0.020	-0.109
	(2.534)	(0.983)	(3.379)	-(0.217)	-(1.334)
VIEW	-0.370	-0.357	-0.417	-0.734	-0.030
	-(22.275)	-(11.174)	-(16.449)	-(16.230)	-(0.668)
ONITE	-0.164	-0.411	-0.056	0.116	0.127
	-(11.163)	-(16.942)	-(2.372)	(2.772)	(2.529)
PEOPVEH	-0.098	-0.070	-0.101	-0.167	-0.104
	-(22.574)	-(8.368)	-(16.054)	-(14.686)	-(7.479)
INCES	-0.026	-0.047	0.001	-0.033	-0.074
	-(8.012)	-(9.044)	(0.266)	-(3.562)	-(4.969)
GENDER1	-0.170	-0.188	-0.124	0.020	-0.388
	-(14.786)	-(9.224)	-(7.242)	(0.624)	-(10.304)
AGE	0.002	0.000	0.003	0.006	0.006
	(5.807)	-(0.363)	(4.545)	(6.162)	(5.408)
HF	3.049	3.152	3.028	2.871	2.867
	(131.242)	(61.657)	(86.832)	(62.201)	(58.684)
Alpha	1.687	2.092	1.673	0.935	1.228
	(39.607)	(19.802)	(26.160)	(17.136)	(14.945)
NOBS	68,669.000	24,202.000	31,209.000	7,071.000	6,187.000
LRI	0.152	0.151	0.163	0.157	0.142
YHAT	3.085	2.428	3.089	4.149	4.473
POINT CS	358.673	349.747	363.839	340.169	279.788
POINT CS/PERSON	171.590	166.308	170.826	165.914	142.966
CS EXP	329.207	320.131	331.745	319.205	259.520
CS EXP/PERSON	182.683	169.684	181.538	188.721	156.161
ELASTICITY	-0.575771	-0.63502	-0.662148	-0.371004	-0.404842

ONE
TC
CAMP
DRIVE
FISH
GENERAL
HUNT
NATURE
OHVUSE
PCAMP
PICNIC
SKI
SNOWMOB
TRAIL
VIEW
ONITE
PEOPVEH
INCES
GENDER1

AGE
HF
Alpha
<i>NOBS</i>
<i>LRI</i>
<i>YHAT</i>
<i>POINT CS</i>
<i>POINT CS/PERSON</i>
<i>CS EXP</i>
<i>CS EXP/PERSON</i>
<i>ELASTICITY</i>

		Table 13 Regression Results TOP5 Data: No Travel Cost Interactions*				
		No Opp. Cost (TCH)				
		National	Pacific	Rocky Mtn.	Northern	Southern
ONE		0.903 (35.505)	0.876 (18.062)	0.886 (23.313)	0.925 (12.881)	1.016 (14.588)
TC		-0.008 -(243.226)	-0.013 -(82.510)	-0.007 -(156.534)	-0.009 -(76.082)	-0.011 -(43.924)
CAMP		-0.176 -(8.222)	-0.073 -(2.022)	-0.360 -(10.795)	0.083 (1.409)	-0.180 -(2.655)
DRIVE		-0.106 -(5.319)	-0.161 -(4.167)	-0.135 -(4.508)	-0.169 -(3.018)	0.014 (0.259)
FISH		0.082 (4.119)	0.176 (4.736)	0.033 (1.031)	0.151 (2.897)	-0.098 -(2.116)
GENERAL		-0.274 -(16.510)	-0.136 -(4.487)	-0.425 -(16.825)	0.018 (0.335)	-0.365 -(8.279)
HUNT		0.167 (7.762)	0.114 (2.546)	-0.021 -(0.681)	0.351 (5.579)	0.278 (4.928)
NATURE		-0.324 -(12.232)	0.159 (2.938)	-0.374 -(8.045)	-0.111 -(1.491)	-0.832 -(15.225)
OHVUSE		0.195 (5.823)	0.380 (5.944)	0.145 (2.947)	0.628 (6.611)	-0.262 -(3.170)
PCAMP		-0.016 -(0.592)	0.199 (4.336)	-0.277 -(5.869)	-0.363 -(5.115)	0.360 (4.587)
PICNIC		-0.049 -(1.543)	-0.026 -(0.403)	-0.126 -(2.649)	0.108 (1.195)	-0.116 -(1.550)
SKI		0.483 (26.738)	0.540 (18.034)	0.501 (18.642)	0.336 (6.592)	1.000 (1.000)
SNOWMOB		0.166 (3.760)	0.505 (3.484)	0.445 (6.167)	-0.379 -(6.375)	1.000 (1.000)
TRAIL		0.125 (4.653)	0.087 (1.851)	0.225 (5.509)	-0.008 -(0.088)	-0.082 -(1.140)
VIEW		-0.297 -(18.007)	-0.347 -(11.257)	-0.306 -(11.849)	-0.669 -(14.699)	0.005 (0.107)
ONITE		-0.148 -(10.764)	-0.341 -(14.984)	-0.040 -(1.799)	0.142 (3.513)	0.091 (1.963)
PEOPVEH		-0.089 -(21.066)	-0.056 -(7.077)	-0.100 -(16.427)	-0.166 -(14.658)	-0.080 -(6.027)
INCES		-0.011 -(3.323)	-0.003 -(0.595)	0.007 (1.502)	-0.010 -(0.930)	-0.034 -(2.406)
GENDER1		-0.156	-0.201	-0.087	0.020	-0.349

		Table 13 Regression Results TOP5 Data: No Travel Cost Interactions*				
		No Opp. Cost (TCH)				
		National	Pacific	Rocky Mtn.	Northern	Southern
AGE		-(13.935)	-(10.556)	-(5.180)	(0.613)	-(9.659)
	0.003	0.002	0.003	0.007	0.007	
	(7.611)	(2.929)	(4.452)	(6.355)	(7.158)	
HF		2.897	2.914	2.904	2.756	2.720
	(144.746)	(70.575)	(99.365)	(59.497)	(59.642)	
Alpha		1.392	1.602	1.383	0.884	1.035
	(44.947)	(23.873)	(29.607)	(17.873)	(15.868)	
NOBS		64,891.000	22,968.000	28,859.000	6,939.000	6,126.000
LRI		0.141	0.136	0.151	0.154	0.152
YHAT		3.641	3.038	3.823	4.294	4.624
POINT CS		118.636	79.428	138.919	109.385	91.521
POINT CS/PERSON		56.865	37.683	65.329	53.659	46.715
CS EXP		103.659	69.440	117.960	100.733	83.895
CS EXP/PERSON		57.911	36.931	65.223	59.860	50.446
ELASTICITY		-0.538927	-0.67895	-0.561772	-0.468096	-0.579362

		Table 13 Regression Results TOP5 Data: No Travel Cost Interactions*				
		Wage Based Opp. Cost (TCHW)				
		National	Pacific	Rocky Mtn.	Northern	Southern
ONE		0.693 (26.939)	0.590 (11.983)	0.624 (16.122)	0.736 (10.397)	0.865 (12.257)
TC		-0.005 (-171.780)	-0.007 -(74.344)	-0.004 -(107.831)	-0.006 -(51.585)	-0.007 -(42.145)
CAMP		-0.182 (-8.486)	-0.074 -(2.036)	-0.368 -(11.023)	0.055 (0.924)	-0.177 -(2.579)
DRIVE		-0.107 (-5.414)	-0.157 -(4.056)	-0.153 -(5.168)	-0.151 -(2.712)	0.025 (0.479)
FISH		0.091 (4.581)	0.194 (5.163)	0.040 (1.225)	0.159 (3.048)	-0.099 -(2.134)
GENERAL		-0.268 (-16.150)	-0.130 -(4.266)	-0.419 -(16.490)	0.019 (0.366)	-0.369 -(8.340)
HUNT		0.187 (8.590)	0.131 (2.883)	0.003 (0.101)	0.360 (5.745)	0.289 (5.127)
NATURE		-0.320 (-12.090)	0.185 (3.396)	-0.372 -(7.956)	-0.116 -(1.565)	-0.822 -(14.648)
OHVUSE		0.195 (5.842)	0.368 (5.743)	0.154 (3.092)	0.616 (6.510)	-0.258 -(3.124)
PCAMP		-0.010 (-0.348)	0.197 (4.221)	-0.261 -(5.543)	-0.364 -(5.091)	0.362 (4.483)
PICNIC		-0.036 (-1.119)	-0.013 -(0.201)	-0.107 -(2.250)	0.100 (1.100)	-0.104 -(1.397)
SKI		0.483 (26.827)	0.538 (17.981)	0.503 (18.628)	0.315 (6.207)	1.000 (1.000)
SNOWMOB		0.179 (4.049)	0.537 (3.633)	0.464 (6.397)	-0.367 -(6.206)	1.000 (1.000)
TRAIL		0.123 (4.537)	0.104 (2.092)	0.217 (5.321)	0.002 (0.020)	-0.100 -(1.389)
VIEW		-0.292 (-17.728)	-0.341 -(10.971)	-0.300 -(11.634)	-0.660 -(14.573)	0.008 (0.190)
ONITE		-0.150 (-10.794)	-0.337 -(14.793)	-0.044 -(1.931)	0.143 (3.509)	0.090 (1.922)
PEOPVEH		-0.087 (-20.665)	-0.058 -(7.270)	-0.094 -(15.341)	-0.164 -(14.485)	-0.081 -(6.012)
INCES		0.065 (19.380)	0.096 (16.107)	0.096 (18.885)	0.075 (7.283)	0.040 (2.528)
GENDER1		-0.150	-0.196	-0.077	0.013	-0.347

		Table 13 Regression Results TOP5 Data: No Travel Cost Interactions*				
		Wage Based Opp. Cost (TCHW)				
		National	Pacific	Rocky Mtn.	Northern	Southern
AGE		-(13.467)	-(10.161)	-(4.593)	(0.391)	-(9.660)
	0.003	0.003	0.003	0.007	0.007	
	(8.642)	(3.593)	(5.336)	(6.706)	(6.998)	
HF		2.887	2.907	2.869	2.758	2.725
	(146.244)	(65.246)	(99.728)	(60.325)	(57.999)	
Alpha		1.393	1.623	1.390	0.877	1.037
	(44.257)	(23.812)	(29.330)	(17.930)	(15.805)	
NOBS		64,891.000	22,968.000	28,859.000	6,939.000	6,126.000
LRI		0.142	0.137	0.153	0.155	0.151
YHAT		3.634	3.055	3.809	4.299	4.586
POINT CS		197.686	138.639	228.725	170.920	144.353
POINT CS/PERSON		94.756	65.774	107.562	83.844	73.682
CS EXP		172.729	121.205	194.218	157.400	132.324
CS EXP/PERSON		96.499	64.462	107.387	93.534	79.567
ELASTICITY		-0.573283	-0.725014	-0.601322	-0.537	-0.590915

		Table 13 Regression Results TOP5 Data: No Travel Cost Interactions*				
		Flat Rate Opp. Cost (TCFWH)				
		National	Pacific	Rocky Mtn.	Northern	Southern
ONE		0.926 (36.834)	0.902 (18.739)	0.909 (24.339)	0.945 (13.170)	1.044 (15.097)
TC		-0.005 -(185.031)	-0.007 -(73.140)	-0.005 -(121.537)	-0.005 -(48.934)	-0.007 -(44.291)
CAMP		-0.179 -(8.430)	-0.086 -(2.372)	-0.354 -(10.661)	0.063 (1.060)	-0.181 -(2.665)
DRIVE		-0.100 -(5.076)	-0.159 -(4.122)	-0.129 -(4.353)	-0.156 -(2.792)	0.025 (0.477)
FISH		0.085 (4.341)	0.177 (4.770)	0.045 (1.433)	0.157 (3.000)	-0.094 -(2.037)
GENERAL		-0.267 -(16.125)	-0.142 -(4.693)	-0.403 -(15.948)	0.012 (0.220)	-0.369 -(8.448)
HUNT		0.170 (7.846)	0.124 (2.776)	-0.006 -(0.193)	0.353 (5.647)	0.268 (4.838)
NATURE		-0.313 -(11.779)	0.168 (3.113)	-0.365 -(7.800)	-0.110 -(1.470)	-0.803 -(14.404)
OHVUSE		0.199 (6.100)	0.402 (6.385)	0.149 (3.111)	0.618 (6.533)	-0.262 -(3.225)
PCAMP		-0.005 -(0.199)	0.214 (4.703)	-0.268 -(5.684)	-0.363 -(5.108)	0.376 (4.814)
PICNIC		-0.054 -(1.714)	-0.031 -(0.477)	-0.128 -(2.725)	0.100 (1.118)	-0.124 -(1.663)
SKI		0.495 (27.517)	0.539 (18.014)	0.528 (19.709)	0.329 (6.480)	1.000 (1.000)
SNOWMOB		0.184 (4.192)	0.515 (3.547)	0.465 (6.507)	-0.364 -(6.137)	1.000 (1.000)
TRAIL		0.137 (5.131)	0.096 (1.948)	0.249 (6.221)	-0.009 -(0.093)	-0.086 -(1.198)
VIEW		-0.284 -(17.358)	-0.344 -(11.122)	-0.284 -(11.122)	-0.663 -(14.555)	0.014 (0.321)
ONITE		-0.135 -(9.831)	-0.324 -(14.313)	-0.033 -(1.463)	0.150 (3.687)	0.090 (1.952)
PEOPVEH		-0.086 -(20.460)	-0.057 -(7.143)	-0.095 -(15.580)	-0.165 -(14.534)	-0.078 -(5.816)
INCES		-0.006 -(1.957)	-0.003 -(0.631)	0.013 (2.763)	-0.009 -(0.818)	-0.031 -(2.152)
GENDER1		-0.155	-0.192	-0.086	0.011	-0.349

		Table 13 Regression Results TOP5 Data: No Travel Cost Interactions*				
		Flat Rate Opp. Cost (TCFWH)				
		National	Pacific	Rocky Mtn.	Northern	Southern
AGE		-(13.899)	-(10.011)	-(5.174)	(0.352)	-(9.654)
	0.003	0.003	0.003	0.007	0.007	
	(9.076)	(3.904)	(5.432)	(6.586)	(7.268)	
HF		2.850	2.886	2.829	2.746	2.690
	(148.173)	(68.802)	(102.791)	(59.459)	(58.180)	
Alpha		1.338	1.569	1.314	0.876	1.002
	(45.151)	(24.029)	(30.044)	(17.901)	(16.068)	
NOBS		64,891.000	22,968.000	28,859.000	6,939.000	6,126.000
LRI		0.146	0.139	0.157	0.155	0.155
YHAT		3.672	3.065	3.852	4.307	4.616
POINT CS		188.055	134.197	212.699	185.415	150.401
POINT CS/PERSON		90.140	63.666	100.025	90.955	76.769
CS EXP		164.314	117.322	180.609	170.749	137.868
CS EXP/PERSON		91.798	62.397	99.863	101.467	82.900
ELASTICITY		-0.611174	-0.738888	-0.652709	-0.504178	-0.624367

Table 14 Consumer Surplus Values ALL Data*

		No Opp. Cost (TCH)					Wage Based Opp. Cost (TCWH)					Flat Rate Opp. Cost (TCFWH)				
Activity		CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity
National	CSCAMP	62.35	6,330	25.81	6,137	-0.4501	90.69	6,330	37.54	6,137	-0.5182	102.77	6,330	42.55	6,137	-0.4849
	CSDRIVE	79.51	4,070	66.56	3,859	-0.6864	136.64	4,070	114.37	3,859	-0.6769	133.49	4,070	111.73	3,859	-0.7260
	CSFISH	110.62	6,660	84.77	6,359	-0.4096	214.13	6,660	164.10	6,359	-0.3558	193.27	6,660	148.11	6,359	-0.4206
	CSGEN	59.30	7,880	40.88	7,609	-0.5631	115.49	7,880	79.61	7,609	-0.5167	96.64	7,880	66.62	7,609	-0.6267
	CSHIKE	127.23	13,840	108.37	13,131	-0.5491	214.28	13,840	182.51	13,131	-0.5787	214.23	13,840	182.47	13,131	-0.5794
	CSHUNT	84.46	3,897	61.08	3,609	-0.4578	125.49	3,897	90.75	3,609	-0.5151	141.23	3,897	102.14	3,609	-0.5071
	CSNAT	77.83	2,301	65.83	2,177	-0.7351	131.62	2,301	111.32	2,177	-0.7894	129.12	2,301	109.21	2,177	-0.7832
	CSOHV	97.05	1,991	70.28	1,851	-0.6355	145.25	1,991	105.18	1,851	-0.6719	158.81	1,991	115.00	1,851	-0.6663
	CSPCAMP	245.16	3,204	108.10	3,090	-0.1451	335.83	3,204	148.08	3,090	-0.1824	385.16	3,204	169.83	3,090	-0.1660
	CSPICNIC	127.23	2,157	41.20	2,085	-0.2999	151.01	2,157	129.52	2,085	-0.3390	214.23	2,157	68.83	2,085	-0.3299
	CSSKI	184.93	4,966	168.19	4,841	-0.6397	339.61	4,966	308.87	4,841	-0.6568	297.30	4,966	270.39	4,841	-0.6813
	CSSNOWMB	127.23	1,542	41.20	1,460	-0.4408	127.23	1,542	41.20	1,460	-0.4545	127.23	1,542	41.20	1,460	-0.4688
	CSTRAIL	127.23	3,586	41.20	3,375	-0.5052	265.82	3,586	212.74	3,375	-0.5287	214.23	3,586	68.83	3,375	-0.5352
	CSVIEW	57.25	7,104	47.59	6,726	-0.9688	93.53	7,104	77.75	6,726	-1.0260	98.19	7,104	81.63	6,726	-0.9911

Table 14 Consumer Surplus Values ALL Data*

		No Opp. Cost (TCH)					Wage Based Opp. Cost (TCWH)					Flat Rate Opp. Cost (TCFWH)				
Activity		CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity
Pacific	CSCAMP	82.45	2,256	32.29	2,170	-0.2714	134.18	2,256	52.55	2,170	-0.3004	141.37	2,256	55.36	2,170	-0.2926
	CSDRIVE	49.57	1,318	40.55	1,244	-0.9807	81.18	1,318	66.41	1,244	-1.0194	83.31	1,318	68.15	1,244	-1.0529
	CSFISH	89.56	2,307	71.21	2,188	-0.3412	154.49	2,307	122.82	2,188	-0.3508	150.61	2,307	119.74	2,188	-0.3731
	CSGEN	112.21	3,332	46.53	3,212	-0.4958	112.79	3,332	81.10	3,212	-0.5911	114.11	3,332	82.06	3,212	-0.5684
	CSHIKE	112.21	4,978	98.14	4,677	-0.6712	187.72	4,978	77.69	4,677	-0.7195	187.62	4,978	164.10	4,677	-0.7193
	CSHUNT	112.21	877	46.53	802	-0.1904	187.72	877	77.69	802	-0.2127	187.62	877	76.97	802	-0.2155
	CSNAT	112.21	769	46.53	720	-0.8099	187.72	769	77.69	720	-1.1244	187.62	769	76.97	720	-0.8457
	CSOHV	68.59	695	45.63	663	-1.3310	98.71	695	65.67	663	-1.3668	111.08	695	73.89	663	-1.3512
	CSPCAMP	150.45	1,327	59.80	1,284	-0.2927	219.41	1,327	87.20	1,284	-0.3455	244.22	1,327	97.06	1,284	-0.3295
	CSPICNIC	112.21	683	46.53	644	-0.3870	187.72	683	77.69	644	-0.4217	187.62	683	76.97	644	-0.4157
	CSSKI	149.22	1,714	135.25	1,658	-0.6859	260.43	1,714	236.05	1,658	-0.7498	257.31	1,714	233.22	1,658	-0.6954
	CSSNOWMB	112.21	379	46.53	365	-0.2621	187.72	379	77.69	365	-0.2840	187.62	379	76.97	365	-0.3004
	CSTRAIL	63.11	1,212	51.29	1,127	-0.7231	121.76	1,212	98.95	1,127	-0.7402	109.22	1,212	88.75	1,127	-0.7697
	CSVIEW	112.21	2,358	46.53	2,223	-0.9776	187.72	2,358	77.69	2,223	-1.0542	187.62	2,358	76.97	2,223	-1.0050

Table 14 Consumer Surplus Values ALL Data*

Activity	No Opp. Cost (TCH)					Wage Based Opp. Cost (TCWH)					Flat Rate Opp. Cost (TCFWH)				
	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity
Rocky Mtn.	37.99	2,555	15.91	2,481	-0.7126	59.20	2,555	24.79	2,481	-0.7632	63.03	2,555	26.40	2,481	-0.7606
	83.27	1,988	70.58	1,884	-0.6695	144.18	1,988	122.20	1,884	-0.6613	140.26	1,988	118.88	1,884	-0.6987
	106.35	2,845	78.46	2,705	-0.5084	215.77	2,845	159.20	2,705	-0.4178	189.33	2,845	139.69	2,705	-0.5065
	46.42	3,309	29.68	3,197	-0.7058	106.43	3,309	68.03	3,197	-0.5377	76.91	3,309	49.17	3,197	-0.7817
	150.83	6,913	125.73	6,583	-0.5430	251.21	6,913	209.40	6,583	-0.5811	255.77	6,913	213.20	6,583	-0.5677
	58.76	1,826	37.46	1,711	-0.6566	84.22	1,826	53.69	1,711	-0.7644	97.29	1,826	62.02	1,711	-0.7297
	76.00	925	60.80	880	-0.7566	134.65	925	107.71	880	-0.7178	126.76	925	101.40	880	-0.7927
	118.42	862	88.39	773	-0.4048	175.56	862	131.05	773	-0.4866	193.44	862	144.40	773	-0.4558
	287.77	1,185	125.97	1,142	-0.1030	341.62	1,185	149.54	1,142	-0.1472	418.43	1,185	183.16	1,142	-0.1281
	150.83	892	48.86	869	-0.3351	140.20	892	121.85	869	-0.4010	255.77	892	82.15	869	-0.3709
	208.21	2,913	190.05	2,848	-0.7011	368.87	2,913	336.69	2,848	-0.7399	319.68	2,913	291.79	2,848	-0.7711
	150.83	962	48.86	907	-0.7580	150.83	962	48.86	907	-0.7611	150.83	962	48.86	907	-0.7850
	154.42	1,526	123.58	1,434	-0.7380	251.21	1,526	81.57	1,434	-0.7430	261.11	1,526	208.97	1,434	-0.7598
	53.35	3,262	42.09	3,062	-1.1069	87.51	3,262	69.04	3,062	-1.1485	90.52	3,262	71.41	3,062	-1.1324

Table 14 Consumer Surplus Values ALL Data*

		No Opp. Cost (TCH)					Wage Based Opp. Cost (TCWH)					Flat Rate Opp. Cost (TCFWH)				
Activity		CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity
Northern	CSCAMP	180.73	654	67.36	638	-0.1702	188.96	654	45.67	638	-0.1986	278.27	654	103.71	638	-0.1906
	CSDRIVE	109.02	359	26.25	344	-0.4184	188.96	359	45.67	344	-0.3531	182.20	359	43.77	344	-0.4161
	CSFISH	109.02	851	26.25	825	-0.2002	220.36	851	170.90	825	-0.2361	182.20	851	43.77	825	-0.2225
	CSGEN	109.02	649	26.25	626	-0.2758	188.96	649	45.67	626	-0.3137	182.20	649	43.77	626	-0.2792
	CSHIKE	109.02	1,092	92.40	1,041	-0.3521	188.96	1,092	160.15	1,041	-0.3687	182.20	1,092	154.42	1,041	-0.3769
	CSHUNT	109.02	560	26.25	528	-0.1478	188.96	560	45.67	528	-0.1648	182.20	560	43.77	528	-0.1561
	CSNAT	31.07	327	29.49	305	-1.2295	49.44	327	46.92	305	-1.2906	55.14	327	52.33	305	-1.2598
	CSOHV	109.02	301	26.25	292	-0.2338	188.96	301	45.67	292	-0.2764	182.20	301	43.77	292	-0.2750
	CSPCAMP	32.15	329	13.50	314	-0.7123	42.62	329	17.90	314	-0.9901	55.89	329	23.47	314	-0.7256
	CSPICNIC	34.13	246	25.00	244	-0.4562	56.13	246	41.12	244	-0.4534	55.41	246	40.59	244	-0.5190
	CSSKI	95.42	335	86.32	331	-0.4119	216.91	335	196.23	331	-0.3510	162.07	335	146.61	331	-0.4222
	CSSNOWMB	109.02	201	26.25	188	-0.1025	109.02	201	26.25	188	-0.1292	109.02	201	26.25	188	-0.1163
	CSTRAIL	85.65	398	57.28	386	-0.3395	131.67	398	88.06	386	-0.4192	111.98	398	74.89	386	-0.4723
	CSVIEW	21.46	798	18.07	778	-1.5498	36.38	798	30.63	778	-1.5821	37.82	798	31.84	778	-1.5671

Table 14 Consumer Surplus Values ALL Data*

		No Opp. Cost (TCH)					Wage Based Opp. Cost (TCWH)					Flat Rate Opp. Cost (TCFWH)				
Activity		CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity
Southern	CSCAMP	49.73	865	23.25	848	-0.7987	109.94	865	24.21	848	-0.8907	82.25	865	38.46	848	-0.8305
	CSDRIVE	39.66	403	32.17	385	-1.0439	68.57	403	55.62	385	-0.9865	65.53	403	53.16	385	-1.1215
	CSFISH	49.15	657	37.73	641	-0.8599	77.36	657	59.39	641	-0.8517	82.44	657	63.29	641	-0.9069
	CSGEN	65.27	590	14.22	574	-0.3424	109.94	590	24.21	574	-0.3959	111.01	590	84.25	574	-0.3497
	CSHIKE	65.27	852	57.45	825	-0.6076	109.94	852	96.77	825	-0.5711	107.97	852	95.03	825	-0.6420
	CSHUNT	183.54	634	152.64	568	-0.1215	272.78	634	226.85	568	-0.1243	318.19	634	264.61	568	-0.1250
	CSNAT	41.72	278	38.28	270	-0.8560	61.06	278	56.03	270	-0.9502	107.97	278	23.52	270	-0.9730
	CSOHV	65.27	133	14.22	123	-0.2072	109.94	133	24.21	123	-0.2267	107.97	133	23.52	123	-0.2285
	CSPCAMP	65.27	363	14.22	350	-0.0690	65.27	363	14.22	350	-0.0807	65.27	363	14.22	350	-0.0746
	CSPICNIC	90.08	336	80.19	328	-0.2207	146.01	336	129.99	328	-0.2148	147.53	336	131.34	328	-0.2419
	CSSKI	1.00	6,187	1.00	6,187	1.0000	1.00	6,187	1.00	6,187	1.0000	1.00	6,187	1.00	6,187	1.0000
	CSSNOWMB	1.00	6,187	1.00	6,187	1.0000	1.00	6,187	1.00	6,187	1.0000	1.00	6,187	1.00	6,187	1.0000
	CSTRAIL	209.42	450	178.24	428	-0.1115	294.35	450	250.51	428	-0.1352	335.66	450	285.67	428	-0.1210
	CSVIEW	92.24	682	80.12	659	-0.3850	152.49	682	132.46	659	-0.3758	164.16	682	142.60	659	-0.3820

*Note: If the estimated coefficient on the travel cost interaction term was insignificant, or if the CS value was less than \$0 or greater than \$500, the CS value was replaced with the CS value for the base case (constructing CS where all travel cost interaction terms were set to zero).

*Note: If the estimated coefficient on the travel cost interaction term was insignificant, or if the CS value was less than \$0 or greater than \$500, the CS value was replaced with the CS value for the base case (constructing CS where all travel cost interaction terms were set to zero).

*Note: If the estimated coefficient on the travel cost interaction term was insignificant, or if the CS value was less than \$0 or greater than \$500, the CS value was replaced with the CS value for the base case (constructing CS where all travel cost interaction terms were set to zero).

Table 15 Consumer Surplus Results TOP5 Data

		No Opp. Cost (TCH)					Wage Rate Opp. Cost (TCWH)					Flat Rate Opp. Cost (TCFWH)				
Activity		CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity
National	CSCAMP	28.83	6083	11.97	5895	-0.6237	46.11	6083	19.15	5895	-0.6722	46.96	6083	19.50	5895	-0.6875
	CSDRIVE	40.61	3722	33.93	3522	-0.6488	78.56	3722	65.63	3522	-0.5791	70.30	3722	58.72	3522	-0.6824
	CSFISH	55.48	6506	42.55	6217	-0.5157	98.17	6506	75.30	6217	-0.4970	96.63	6506	74.11	6217	-0.5414
	CSGEN	29.26	7507	20.18	7251	-0.6856	49.46	7507	34.11	7251	-0.7281	48.93	7507	33.74	7251	-0.7595
	CSHIKE	61.89	12911	52.84	12235	-0.5737	108.19	12911	92.36	12235	-0.5910	102.32	12911	28.08	12235	-0.6326
	CSHUNT	52.43	3829	38.14	3546	-0.5533	76.71	3829	55.80	3546	-0.6373	81.79	3829	59.50	3546	-0.6666
	CSNAT	32.03	2071	26.97	1955	-0.9513	51.63	2071	43.47	1955	-0.9990	54.48	2071	45.87	1955	-1.0105
	CSOHV	56.45	1958	41.13	1821	-0.5622	86.34	1958	62.91	1821	-0.6030	97.09	1958	70.74	1821	-0.5576
	CSPCAMP	33.20	3069	14.56	2959	-0.6327	48.30	3069	21.18	2959	-0.7637	57.32	3069	25.13	2959	-0.6737
	CSPICNIC	53.36	2064	45.73	1996	-0.3156	108.19	2064	29.97	1996	-0.3372	89.87	2064	77.03	1996	-0.3480
	CSSKI	144.66	4708	133.24	4589	-0.4591	208.18	4708	191.75	4589	-0.5956	183.73	4708	169.23	4589	-0.6188
	CSSNOWMB	1.89	1483	0.52	1408	-0.5255	127.23	1483	41.20	1408	-0.5654	102.32	1483	28.08	1408	-0.6326
	CSTRAIL	102.99	3462	82.96	3258	-0.3856	168.65	3462	135.84	3258	-0.4356	172.52	3462	138.96	3258	-0.4156
	CSVIEW	31.74	6229	26.51	5892	-0.8224	54.41	6229	45.45	5892	-0.8483	54.47	6229	45.50	5892	-0.8661

		No Opp. Cost (TCH)					Wage Rate Opp. Cost (TCWH)					Flat Rate Opp. Cost (TCFWH)				
Activity		CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity
Pacific	CSCAMP	26.77	2184	10.40	2101	-0.4770	45.24	2184	17.57	2101	-0.5257	45.42	2184	17.64	2101	-0.5227
	CSDRIVE	19.37	1213	15.73	1142	-1.0193	34.31	1213	27.88	1142	-1.0164	35.10	1213	28.52	1142	-1.0489
	CSFISH	48.69	2281	38.67	2163	-0.4014	85.53	2281	67.92	2163	-0.4155	83.76	2281	66.52	2163	-0.4430
	CSGEN	42.20	3156	30.42	3043	-0.4240	60.28	3156	43.46	3043	-0.5850	62.58	3156	45.11	3043	-0.5303
	CSHIKE	39.86	4688	35.01	4404	-0.7259	71.49	4688	62.80	4404	-0.7561	70.65	4688	22.99	4404	-0.7661
	CSHUNT	39.86	873	13.06	798	-0.5077	71.49	873	23.45	798	-0.5236	70.65	873	22.99	798	-0.7661
	CSNAT	39.86	704	13.06	657	-0.7158	71.49	704	23.45	657	-0.7775	70.65	704	22.99	657	-0.7661
	CSOHV	54.03	688	37.13	658	-0.7801	76.57	688	52.61	658	-0.7904	86.81	688	59.65	658	-0.7485
	CSPCAMP	20.48	1277	8.03	1236	-1.3066	30.16	1277	11.83	1236	-1.5996	36.44	1277	14.29	1236	-1.3578
	CSPICNIC	37.14	649	32.50	613	-0.4171	71.49	649	23.45	613	-0.4543	66.07	649	57.81	613	-0.4382
	CSSKI	58.92	1663	53.73	1609	-0.7056	117.50	1664	107.14	1610	-0.6853	100.75	1664	91.87	1610	-0.7405
	CSSNOWMB	112.21	378	46.53	364	-0.8521	112.21	378	46.53	364	-1.1071	112.21	378	46.53	364	-0.9693
	CSTRAIL	38.20	1192	31.10	1109	-0.8488	69.07	1192	56.23	1109	-0.9438	67.95	1192	55.32	1109	-0.8965
	CSVIEW	17.40	2018	15.31	1896	-0.9700	34.40	2018	30.26	1896	-0.9446	31.16	2018	27.42	1896	-1.0131

Activity	No Opp. Cost (TCH)					Wage Rate Opp. Cost (TCWH)					Flat Rate Opp. Cost (TCFWH)					
	CS Per Visit	NOBS	CS Per	NOBS	Elasticity	CS Per Visit	NOBS	CS Per	NOBS per	Elasticity	CS Per Visit	NOBS	CS Per	NOBS per	Elasticity	
			Activity Day	Activity per Day				Activity Day	Activity Day				Activity Day	Activity Day		
Rocky Mtn.	CSCAMP	26.05	2400	10.94	2328	-0.6325	41.65	2400	17.50	2328	-0.6747	43.34	2400	18.20	2328	-0.6866
	CSDRIVE	42.52	1759	35.94	1663	-0.6373	87.10	1759	73.62	1663	-0.5367	73.75	1759	62.34	1663	-0.6597
	CSFISH	57.98	2727	42.82	2596	-0.5122	104.07	2727	76.87	2596	-0.4867	132.11	2727	34.72	2596	-0.5461
	CSGEN	20.01	3130	12.75	3026	-1.0576	34.90	3130	22.23	3026	-1.0536	34.57	3130	22.02	3026	-1.1391
	CSHIKE	80.64	6316	67.34	6000	-0.4901	144.64	6316	120.79	6000	-0.4986	132.11	6316	110.32	6000	-0.5461
	CSHUNT	38.99	1765	25.24	1655	-0.6863	55.98	1765	36.23	1655	-0.8055	59.63	1765	38.60	1655	-0.8415
	CSNAT	33.34	788	26.35	748	-0.9061	52.59	788	41.56	748	-0.9510	56.37	788	44.54	748	-0.9501
	CSOHV	54.62	837	40.66	749	-0.5109	82.88	837	61.69	749	-0.6412	96.00	837	71.46	749	-0.5453
	CSPCAMP	26.85	1111	11.73	1070	-0.6488	46.18	1111	20.18	1070	-0.6416	45.87	1111	20.04	1070	-0.7064
	CSPICNIC	42.12	840	36.62	818	-0.3944	66.43	840	57.75	818	-0.4234	73.05	840	63.51	818	-0.4269
	CSSKI	165.07	2706	153.84	2645	-0.5835	226.59	2706	211.17	2645	-0.7789	201.43	2706	187.73	2645	-0.8007
	CSSNOWMB	150.83	906	48.86	858	-0.7504	150.83	906	48.86	858	-0.7366	150.83	906	48.86	858	-0.7793
	CSTRAIL	136.58	1429	110.48	1342	-0.4008	243.15	1429	196.68	1342	-0.4002	233.60	1429	188.95	1342	-0.4156
	CSVIEW	33.11	2768	26.22	2595	-0.9330	56.11	2768	44.43	2595	-0.9602	57.69	2768	45.68	2595	-0.9567

		No Opp. Cost (TCH)					Wage Rate Opp. Cost (TCWH)					Flat Rate Opp. Cost (TCFWH)				
Activity		CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity
Northern	CSCAMP	51.54	643	12.08	627	-0.3207	81.76	643	19.14	627	-0.3988	87.52	643	20.42	627	-0.6462
	CSDRIVE	219.27	350	198.94	335	-0.1449	466.89	350	423.60	335	-0.1158	406.34	350	368.66	335	-0.1475
	CSFISH	51.54	843	12.08	819	-0.2813	81.76	843	19.14	819	-0.3471	87.52	843	20.42	819	-0.6462
	CSGEN	39.29	637	25.77	614	-0.6114	66.48	637	43.61	614	-0.6174	71.28	637	46.76	614	-0.6053
	CSHIKE	51.54	1065	43.76	1015	-0.6049	81.76	1065	69.43	1015	-0.6972	87.52	1065	74.32	1015	-0.6462
	CSHUNT	164.39	558	126.59	526	-0.1973	240.56	558	185.25	526	-0.2424	289.04	558	222.59	526	-0.2133
	CSNAT	18.64	314	17.71	293	-1.6050	31.70	314	30.10	293	-1.5934	34.83	314	33.08	293	-1.5919
	CSOHV	51.54	301	12.08	292	-0.2420	81.76	301	19.14	292	-0.2924	87.52	301	20.42	292	-0.6462
	CSPCAMP	51.54	321	12.08	306	-0.3896	40.94	321	17.38	306	-0.6279	87.52	321	20.42	306	-0.6462
	CSPICNIC	27.57	243	20.19	241	-0.5177	42.91	243	31.44	241	-0.5405	45.65	243	33.44	241	-0.5770
	CSSKI	51.54	335	12.08	331	-0.4351	81.76	335	19.14	331	-0.4352	87.52	335	20.42	331	-0.6462
	CSSNOWMB	109.02	199	26.25	186	-0.1372	109.02	199	26.25	186	-0.1956	109.02	199	26.25	186	-0.1676
	CSTRAIL	51.54	394	12.08	382	-0.3723	81.76	394	19.14	382	-0.5089	99.18	394	66.35	382	-0.5059
	CSVIEW	18.83	770	16.11	751	-1.2495	31.92	770	27.31	751	-1.3188	33.74	770	28.87	751	-1.2757

		No Opp. Cost (TCH)					Wage Rate Opp. Cost (TCWH)					Flat Rate Opp. Cost (TCFWH)				
Activity		CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity	CS Per Visit	NOBS	CS Per Activity Day	NOBS per Activity Day	Elasticity
Southern	CSCAMP	45.06	856	9.58	839	-1.2296	44.58	856	21.02	839	-1.3132	73.36	856	15.63	839	-0.8869
	CSDRIVE	38.54	400	31.21	382	-0.7424	65.34	400	52.91	382	-0.7331	63.65	400	51.54	382	-0.8145
	CSFISH	40.40	655	31.03	639	-0.9726	61.53	655	47.26	639	-0.9861	68.51	655	52.62	639	-1.0180
	CSGEN	70.36	584	53.31	568	-0.1786	104.62	584	79.25	568	-0.1917	120.62	584	91.38	568	-0.1894
	CSHIKE	45.06	842	39.68	816	-0.8257	75.58	842	66.55	816	-0.7755	73.36	842	64.60	816	-0.8869
	CSHUNT	123.54	633	102.76	567	-0.1748	75.58	633	16.18	567	-0.1913	192.69	633	160.27	567	-0.1999
	CSNAT	45.06	265	9.58	257	-1.0844	40.23	265	36.86	257	-1.1695	73.36	265	15.63	257	-0.8869
	CSOHV	45.06	132	9.58	122	-0.2205	75.58	132	16.18	122	-0.2452	73.36	132	15.63	122	-0.8869
	CSPCAMP	66.90	360	33.88	347	-0.3837	86.97	360	44.05	347	-0.5044	116.83	360	59.17	347	-0.3925
	CSPICNIC	79.60	332	70.86	324	-0.2340	127.33	332	113.34	324	-0.2323	128.62	332	114.48	324	-0.2605
	CSSKI	1.00	6126	1.00	6126	1.0000	1.00	6126	1.00	6126	1.0000	1.00	6126	1.00	6126	1.0000
	CSSNOWMB	1.00	6126	1.00	6126	1.0000	1.00	6126	1.00	6126	1.0000	1.00	6126	1.00	6126	1.0000
	CSTRAIL	180.52	447	153.95	425	-0.1108	184.89	447	157.67	425	-0.1886	282.44	447	240.86	425	-0.1244
	CSVIEW	52.76	673	45.75	650	-0.5945	92.72	673	80.39	650	-0.5435	85.74	673	74.34	650	-0.6496

*Note: If the estimated coefficient on the travel cost interaction term was insignificant, or if the CS value was less than \$0 or greater than \$500, the CS value was replaced with the CS value for the base case (constructing CS where all travel cost interaction terms were set to zero).

*Note: If the estimated coefficient on the travel cost interaction term was insignificant, or if the CS value was less than \$0 or greater than \$500, the CS value was replaced with the CS value for the base case (constructing CS where all travel cost interaction terms were set to zero).

*Note: If the estimated coefficient on the travel cost interaction term was insignificant, or if the CS value was less than \$0 or greater than \$500, the CS value was replaced with the CS value for the base case (constructing CS where all travel cost interaction terms were set to zero).

Table 16 90% Confidence Intervals for Consumer Surplus ALL Data

	No Opp. Cost (TCH)				Wage Rate Opp. Cost (TCWH)				Flat Rate Opp. Cost (TCFWH)				
	Consumer Surplus	Confidence Value	Upper Bound	Lower Bound	Consumer Surplus	Confidence Value	Upper Bound	Lower Bound	Consumer Surplus	Confidence Value	Upper Bound	Lower Bound	
National	CSCAMP	62.42	7.46	69.88	54.96	90.79	10.09	100.88	80.70	102.89	12.09	114.98	90.80
	CSDRIVE	79.54	17.96	97.50	61.57	136.68	23.38	160.06	113.30	133.53	29.23	162.76	104.30
	CSFISH	110.68	8.98	119.66	101.70	214.25	15.55	229.80	198.71	193.38	15.08	208.46	178.29
	CSGEN	59.33	7.75	67.08	51.58	115.54	17.18	132.72	98.36	96.68	13.87	110.55	82.81
	CSHIKE	127.35	7.75	135.10	119.59	214.48	11.16	225.64	203.33	214.44	11.96	226.40	202.47
	CSHUNT	84.56	6.26	90.82	78.30	125.64	8.54	134.18	117.10	141.40	9.79	151.19	131.62
	CSNAT	77.93	13.28	91.21	64.65	131.78	22.09	153.87	109.68	129.28	21.29	150.57	107.99
	CSOHV	97.10	17.65	114.75	79.45	145.32	25.07	170.39	120.25	158.89	28.53	187.42	130.36
	CSPCAMP	245.25	157.66	402.91	87.59	335.94	178.31	514.25	157.63	385.30	228.22	613.53	157.08
	CSPICNIC	98.60	29.75	128.35	68.86	151.03	45.69	196.72	105.34	163.19	48.76	211.95	114.43
	CSSKI	185.23	6.41	191.64	178.82	340.11	17.93	358.03	322.18	297.78	14.42	312.20	283.36
	CSSNOWMB	0.07	29.83	29.91	-29.76	0.12	50.06	50.18	-49.95	0.12	49.32	49.44	-49.20
	CSTRAIL	149.39	15.92	165.31	133.47	266.25	35.50	301.75	230.75	248.26	36.91	285.17	211.36
	CSVIEW	57.29	5.91	63.20	51.38	93.61	9.43	103.03	84.18	98.27	9.53	107.80	88.74
Pacific	CSCAMP	82.55	11.79	94.33	70.76	134.36	17.71	152.07	116.65	141.53	19.33	160.86	122.21
	CSDRIVE	49.59	58.15	107.74	-8.57	81.22	87.38	168.59	-6.16	83.35	98.54	181.89	-15.19
	CSFISH	89.60	8.56	98.16	81.04	154.55	15.13	169.67	139.42	150.67	14.69	165.36	135.98
	CSGEN	72.60	15.67	88.27	56.93	112.85	25.71	138.56	87.14	114.18	21.86	136.05	92.32
	CSHIKE	112.36	19.70	132.06	92.66	187.97	26.64	214.61	161.34	187.87	28.91	216.78	158.95
	CSHUNT	112.44	73.62	186.07	38.82	172.42	100.99	273.41	71.42	192.66	116.46	309.12	76.19
	CSNAT	109.96	33.59	143.55	76.38	170.08	54.32	224.40	115.76	187.69	56.76	244.45	130.93
	CSOHV	68.67	25.12	93.79	43.54	98.82	34.42	133.24	64.41	111.20	39.53	150.73	71.67
	CSPCAMP	150.51	77.98	228.48	72.53	219.43	108.41	327.84	111.02	244.28	122.39	366.67	121.88
	CSPICNIC	88.72	38.24	126.96	50.48	144.12	61.72	205.85	82.40	152.03	67.15	219.18	84.88
	CSSKI	149.62	4.83	154.45	144.79	261.12	13.87	275.00	247.25	257.99	13.29	271.29	244.70
	CSSNOWMB	0.17	301.84	302.01	-301.68	0.30	431.46	431.76	-431.16	0.27	428.38	428.65	-428.11
	CSTRAIL	63.15	7.53	70.69	55.62	121.84	18.45	140.30	103.39	109.29	14.30	123.59	94.99
	CSVIEW	59.66	14.80	74.45	44.86	98.92	23.92	122.84	75.00	103.03	24.92	127.95	78.11
Rocky Mtn.	CSCAMP	38.04	13.65	51.70	24.39	59.28	17.35	76.63	41.93	63.12	22.56	85.68	40.56
	CSDRIVE	83.31	10.78	94.09	72.53	144.26	16.66	160.91	127.60	140.33	19.98	160.31	120.35
	CSFISH	106.45	17.33	123.78	89.12	215.99	30.11	246.09	185.88	189.52	29.24	218.76	160.28
	CSGEN	46.45	14.55	61.00	31.90	106.49	37.04	143.53	69.45	76.95	27.80	104.75	49.15
	CSHIKE	150.95	8.16	159.11	142.79	251.41	17.49	268.90	233.92	255.98	12.89	268.88	243.09
	CSHUNT	58.88	8.41	67.29	50.46	84.38	11.31	95.69	73.07	97.47	13.32	110.79	84.15
	CSNAT	76.06	26.16	102.22	49.90	134.73	44.25	178.99	90.48	126.85	41.94	168.79	84.91
	CSOHV	118.48	29.53	148.01	88.95	175.63	40.37	216.00	135.26	193.52	47.73	241.25	145.79
	CSPCAMP	287.91	336.26	624.17	-48.36	341.78	285.43	627.21	56.35	418.61	413.58	832.19	5.03
	CSPICNIC	95.50	49.15	144.66	46.35	140.19	74.45	214.64	65.74	156.46	79.63	236.09	76.84
	CSSKI	208.44	20.18	228.62	188.26	369.19	38.55	407.74	330.63	320.03	32.83	352.86	287.20
	CSSNOWMB	0.07	26.17	26.24	-26.09	0.12	45.51	45.64	-45.39	0.12	44.95	45.08	-44.83
	CSTRAIL	154.79	35.79	190.58	119.00	284.11	51.11	335.22	233.00	261.74	59.31	321.05	202.43
	CSVIEW	53.42	7.70	61.12	45.72	87.62	11.88	99.49	75.74	90.63	12.82	103.45	77.81

Table 16 90% Confidence Intervals for Consumer Surplus ALL Data

	No Opp. Cost (TCH)				Wage Rate Opp. Cost (TCWH)				Flat Rate Opp. Cost (TCFWH)				
	Consumer Surplus	Confidence Value	Upper Bound	Lower Bound	Consumer Surplus	Confidence Value	Upper Bound	Lower Bound	Consumer Surplus	Confidence Value	Upper Bound	Lower Bound	
Northern	CSCAMP	181.45	31.13	212.58	150.32	229.24	59.17	288.41	170.08	278.57	49.38	327.95	229.19
	CSDRIVE	206.43	821.32	1027.75	-614.89	303.16	725.77	1028.92	-422.61	361.48	1071.50	1432.97	-710.02
	CSFISH	146.84	160.18	307.02	-13.34	220.63	291.45	512.08	-70.82	252.39	273.06	525.44	-20.67
	CSGEN	119.01	89.90	208.91	29.11	172.30	111.68	283.98	60.63	209.40	156.50	365.90	52.91
	CSHIKE	100.64	139.53	240.16	-38.89	189.21	183.71	372.92	5.51	168.47	251.49	419.96	-83.02
	CSHUNT	232.29	140.97	373.26	91.32	371.47	166.42	537.89	205.05	409.47	230.40	639.87	179.07
	CSNAT	37.27	9.50	46.77	27.77	49.43	14.23	63.66	35.20	66.60	16.57	83.17	50.03
	CSOHV	132.10	315.27	447.37	-183.17	183.51	393.23	576.73	-209.72	202.22	466.55	668.77	-264.33
	CSPCAMP	32.26	55.13	87.39	-22.87	42.67	60.83	103.49	-18.16	56.01	91.87	147.88	-35.86
	CSPICNIC	34.31	37.63	71.93	-3.32	56.15	56.78	112.93	-0.63	55.40	50.62	106.02	4.79
	CSSKI	95.95	33.82	129.77	62.12	216.91	107.36	324.27	109.55	162.88	59.87	222.75	103.01
	CSSNOWMB	0.06	398.41	398.48	-398.35	0.09	423.83	423.92	-423.74	0.11	575.83	575.93	-575.72
	CSTRAIL	86.14	7.97	94.10	78.17	131.74	19.46	151.21	112.28	111.48	13.80	125.27	97.68
	CSVIEW	21.67	8.17	29.84	13.50	36.45	14.40	50.85	22.06	38.08	13.64	51.72	24.45
Southern	CSCAMP	49.78	4.89	54.67	44.89	72.73	9.12	81.85	63.61	82.33	7.49	89.82	74.84
	CSDRIVE	39.66	24.17	63.83	15.48	68.57	35.59	104.15	32.98	65.53	39.51	105.04	26.03
	CSFISH	49.15	18.93	68.08	30.22	77.36	33.43	110.79	43.93	82.44	33.01	115.45	49.43
	CSGEN	64.95	5.83	70.78	59.12	102.74	9.02	111.76	93.72	111.00	9.60	120.61	101.40
	CSHIKE	65.28	52.96	118.23	12.32	109.95	91.33	201.28	18.62	107.97	88.27	196.25	19.70
	CSHUNT	183.69	42.40	226.09	141.30	273.00	55.84	328.84	217.17	318.45	65.87	384.32	252.58
	CSNAT	41.73	14.65	56.38	27.07	61.07	21.26	82.32	39.81	65.00	21.21	86.21	43.79
	CSOHV	71.63	167.31	238.95	-95.68	105.96	212.18	318.14	-106.22	116.78	255.03	371.81	-138.25
	CSPCAMP	626.05	3414.24	4040.29	-2788.19	900.19	4190.73	5090.92	-3290.54	1004.96	5141.00	6145.96	-4136.05
	CSPICNIC	90.07	100.70	190.77	-10.63	146.01	162.57	308.57	-16.56	147.53	153.53	301.05	-6.00
	CSSKI	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	CSSNOWMB	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	CSTRAIL	209.58	689.23	898.81	-479.65	294.47	781.02	1075.49	-486.55	335.91	1064.23	1400.14	-728.32
	CSVIEW	92.24	24.96	117.21	67.28	152.50	48.92	201.42	103.58	164.17	39.96	204.13	124.22

*Note: If the estimated coefficient on the travel cost interaction term was insignificant, or if the CS value was less than \$0 or greater than \$500, the CS value was replaced with the CS value for the base case (constructing CS where all travel cost interaction terms were set to zero) in the CSACTS tables. In these tables the CS values were NOT replaced with the base case. These values are the UNREPLACED values.

*Note: If the estimated coefficient on the travel cost interaction term was insignificant, or if the CS value was less than \$0 or greater than \$500, the CS value was replaced with the CS value for the base case (constructing CS where all travel cost interaction terms were set to zero) in the CSACTS tables. In these tables the CS values were NOT replaced with the base case. These values are the UNREPLACED values.

*Note: If the estimated coefficient on the travel cost interaction term was insignificant, or if the CS value was less than \$0 or greater than \$500, the CS value was replaced with the CS value for the base case (constructing CS where all travel cost interaction terms were set to zero) in the CSACTS tables. In these tables the CS values were NOT replaced with the base case. These values are the UNREPLACED values.

Table 17 90% Confidence Interval around Consumer Surplus TOP5 Data

		No Opp. Cost (TCH)				Wage Rate Opp. Cost (TCWH)				Flat Rate Opp. Cost (TCFWH)			
		Consumer Surplus	Confidence Value	Upper Bound	Lower Bound	Consumer Surplus	Confidence Value	Upper Bound	Lower Bound	Consumer Surplus	Confidence Value	Upper Bound	Lower Bound
National	CSCAMP	28.83	4.04	32.87	24.78	46.11	6.32	52.44	39.79	46.96	6.69	53.65	40.27
	CSDRIVE	40.61	6.14	46.76	34.47	78.56	11.39	89.96	67.17	70.30	11.58	81.87	58.72
	CSFISH	55.48	5.54	61.02	49.94	98.17	8.20	106.37	89.97	96.63	9.52	106.15	87.10
	CSGEN	29.26	7.17	36.43	22.09	49.46	11.88	61.34	37.57	48.93	11.92	60.85	37.01
	CSHIKE	61.89	4.35	66.24	57.54	108.19	7.84	116.02	100.35	102.32	8.00	110.32	94.32
	CSHUNT	52.43	3.25	55.68	49.18	76.71	7.12	83.83	69.59	81.79	8.47	90.26	73.32
	CSNAT	32.03	6.33	38.36	25.71	51.63	10.02	61.66	41.61	54.48	10.85	65.34	43.63
	CSOHV	56.45	14.65	71.09	41.80	86.34	23.11	109.45	63.24	97.09	22.45	119.54	74.63
	CSPCAMP	33.20	7.26	40.47	25.94	48.30	11.27	59.56	37.03	57.32	14.77	72.10	42.55
	CSPICNIC	53.36	19.93	73.28	33.43	83.88	29.14	113.02	54.74	89.87	31.97	121.83	57.90
	CSSKI	144.66	3.41	148.06	141.25	208.18	7.11	215.30	201.07	183.73	5.46	189.19	178.28
	CSSNOWMB	0.04	14.43	14.46	-14.39	0.06	22.71	22.77	-22.65	0.06	25.55	25.61	-25.49
	CSTRAIL	102.99	8.21	111.21	94.78	168.65	18.16	186.81	150.48	172.52	20.83	193.35	151.68
	CSVIEW	31.74	4.24	35.98	27.50	54.41	6.09	60.50	48.32	54.47	7.00	61.47	47.47
Pacific	CSCAMP	26.77	4.26	31.03	22.52	45.24	6.09	51.32	39.15	45.42	7.83	53.25	37.59
	CSDRIVE	19.37	20.44	39.80	-1.07	34.31	33.09	67.40	1.22	35.10	33.61	68.71	1.49
	CSFISH	48.69	4.71	53.39	43.98	85.53	8.76	94.28	76.77	83.76	9.67	93.43	74.10
	CSGEN	42.20	19.98	62.19	22.22	60.28	33.51	93.79	26.78	62.58	33.88	96.46	28.70
	CSHIKE	39.86	13.10	52.96	26.76	71.49	18.34	89.84	53.15	70.65	22.15	92.80	48.50
	CSHUNT	34.36	24.87	59.23	9.50	57.53	33.57	91.10	23.97	63.30	44.22	107.52	19.09
	CSNAT	40.42	15.21	55.62	25.21	71.24	22.94	94.18	48.30	74.61	27.49	102.10	47.12
	CSOHV	54.03	53.54	107.57	0.50	76.57	59.88	136.44	16.69	86.81	64.82	151.63	21.98
	CSPCAMP	20.48	9.24	29.72	11.24	30.16	12.83	42.99	17.33	36.44	15.44	51.89	21.00
	CSPICNIC	37.14	41.26	78.41	-4.12	59.84	61.60	121.45	-1.76	66.07	77.47	143.54	-11.39
	CSSKI	58.92	6.23	65.15	52.69	117.50	2.81	120.31	114.69	100.75	2.06	102.81	98.69
	CSSNOWMB	0.03	8.77	8.81	-8.74	0.05	12.48	12.53	-12.43	0.06	14.02	14.08	-13.96
	CSTRAIL	38.20	3.52	41.71	34.68	69.07	11.39	80.46	57.68	67.95	13.63	81.58	54.32
	CSVIEW	17.40	4.95	22.35	12.45	34.40	8.49	42.89	25.91	31.16	8.87	40.03	22.29
Rocky Mtn.	CSCAMP	26.05	7.50	33.55	18.55	41.65	13.49	55.14	28.16	43.34	12.42	55.76	30.91
	CSDRIVE	42.52	8.54	51.06	33.98	87.10	16.81	103.91	70.29	73.75	19.10	92.85	54.65
	CSFISH	57.98	9.87	67.84	48.11	104.07	16.35	120.42	87.73	102.22	17.27	119.49	84.95
	CSGEN	20.01	15.80	35.81	4.22	34.90	25.48	60.38	9.42	34.57	26.65	61.22	7.91
	CSHIKE	80.64	4.48	85.12	76.17	144.64	8.02	152.66	136.63	132.11	8.14	140.25	123.96
	CSHUNT	38.99	4.61	43.61	34.38	55.98	9.11	65.09	46.87	59.63	10.84	70.47	48.79
	CSNAT	33.34	13.42	46.77	19.92	52.59	20.80	73.39	31.80	56.37	22.65	79.02	33.72
	CSOHV	54.62	12.13	66.75	42.49	82.88	20.77	103.66	62.11	96.00	21.01	117.02	74.99
	CSPCAMP	26.85	6.39	33.24	20.47	46.18	15.75	61.93	30.43	45.87	17.86	63.73	28.02
	CSPICNIC	42.12	20.72	62.84	21.41	66.43	29.68	96.11	36.74	73.05	34.82	107.87	38.23
	CSSKI	165.07	9.58	174.65	155.48	226.59	18.05	244.64	208.54	201.43	13.28	214.71	188.15
	CSSNOWMB	0.04	14.43	14.47	-14.39	0.07	26.21	26.28	-26.15	0.07	27.25	27.32	-27.18
	CSTRAIL	136.58	40.62	177.20	95.96	243.15	61.17	304.32	181.98	233.60	70.76	304.36	162.84
	CSVIEW	33.11	6.99	40.10	26.12	56.11	9.64	65.76	46.47	57.69	11.58	69.27	46.11

Table 17 90% Confidence Interval around Consumer Surplus TOP5 Data													
		No Opp. Cost (TCH)				Wage Rate Opp. Cost (TCWH)				Flat Rate Opp. Cost (TCFWH)			
		Consumer Surplus	Confidence Value	Upper Bound	Lower Bound	Consumer Surplus	Confidence Value	Upper Bound	Lower Bound	Consumer Surplus	Confidence Value	Upper Bound	Lower Bound
Northern	CSCAMP	53.90	26.89	80.79	27.01	71.09	37.23	108.32	33.86	69.90	44.31	114.21	25.59
	CSDRIVE	219.27	83.78	303.05	135.49	466.89	95.10	561.99	371.79	406.34	81.68	488.02	324.65
	CSFISH	95.09	334.54	429.63	-239.46	137.79	811.58	949.37	-673.79	170.22	627.33	797.55	-457.12
	CSGEN	39.29	68.47	107.76	-29.18	66.48	82.45	148.93	-15.97	71.28	121.53	192.80	-50.25
	CSHIKE	51.54	27.36	78.90	24.18	81.76	45.36	127.12	36.39	87.52	51.70	139.22	35.82
	CSHUNT	164.39	145.71	310.10	18.67	240.56	172.56	413.12	68.00	289.04	251.75	540.79	37.29
	CSNAT	18.64	6.19	24.84	12.45	31.70	10.67	42.36	21.03	34.83	12.15	46.98	22.68
	CSOHV	122.20	284.52	406.72	-162.32	166.84	339.89	506.73	-173.05	190.94	434.55	625.49	-243.61
	CSPCAMP	36.08	71.50	107.58	-35.41	40.94	53.39	94.33	-12.44	63.69	123.45	187.14	-59.76
	CSPCNIC	27.57	32.24	59.81	-4.68	42.91	50.19	93.11	-7.28	45.65	44.83	90.49	0.82
	CSSKI	86.88	28.98	115.86	57.90	168.25	66.99	235.23	101.26	148.96	51.90	200.86	97.05
	CSSNOWMB	0.04	390.87	390.91	-390.83	0.05	340.88	340.93	-340.83	0.06	520.16	520.23	-520.10
	CSTRAIL	74.07	6.29	80.36	67.79	102.81	12.57	115.38	90.24	99.18	11.70	110.88	87.48
	CSVIEW	18.83	5.95	24.79	12.88	31.92	10.53	42.45	21.39	33.74	10.28	44.02	23.47
Southern	CSCAMP	28.72	8.15	36.88	20.57	44.58	11.94	56.52	32.64	46.74	13.47	60.21	33.26
	CSDRIVE	38.54	9.74	48.28	28.80	65.34	16.16	81.50	49.18	63.65	15.74	79.39	47.91
	CSFISH	40.40	17.23	57.63	23.17	61.53	30.67	92.20	30.86	68.51	30.29	98.80	38.21
	CSGEN	70.36	5.19	75.55	65.18	104.62	8.15	112.76	96.47	120.62	8.49	129.11	112.13
	CSHIKE	45.06	63.97	109.03	-18.90	75.58	97.25	172.83	-21.67	73.36	106.78	180.14	-33.41
	CSHUNT	123.54	81.52	205.07	42.02	171.62	108.25	279.87	63.36	192.69	116.54	309.23	76.14
	CSNAT	26.57	11.64	38.21	14.93	40.23	20.45	60.68	19.78	41.93	20.14	62.08	21.79
	CSOHV	65.44	157.96	223.41	-92.52	95.21	202.09	297.30	-106.88	106.26	236.89	343.14	-130.63
	CSPCAMP	66.90	57.38	124.28	9.52	86.97	66.77	153.74	20.20	116.83	96.66	213.49	20.16
	CSPCNIC	79.60	82.69	162.29	-3.08	127.33	136.54	263.87	-9.21	128.62	122.82	251.44	5.80
	CSSKI	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	CSSNOWMB	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	CSTRAIL	180.52	530.14	710.66	-349.62	184.89	319.55	504.45	-134.66	282.44	781.37	1063.80	-498.93
	CSVIEW	52.76	17.02	69.78	35.75	92.72	31.31	124.03	61.40	85.74	26.37	112.11	59.37