Investigating the Domestic Travel Spending Trends during 2010-2019

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Why Consumer Expenditure Survey?

- CE data contains very valuable and detailed data related to the hospitality and tourism industry - travel expenditure, food and beverage, lodging, transportation, entertainment in Interview file and detailed food items and associated costs in Diary file.
- Most of hospitality and tourism researchers use the survey method to collect first-hand data which is only a snapshot for a short period of time and a limited scope. CE provides multiple years of data with participants representing the US population.
- CE is accessible online and free of charge
- Well-organized annual workshop and symposium
- Friendly and knowledgeable staffs

Purpose of Study and CE Data Used

The purpose of this study is to investigate the trends of domestic travel spending during 2010-2019 by using the CE Interview survey datasets. Particularly, the study aims to profile the travel spending patterns between post-recession (2010) and prior to the pandemic (2019).

Year: 2010-2019

Software: SPSS

Survey: Interview

File: FMLI and MEMI

Variables:

Characteristics for reference people: Age, Gender, Race, Education, Total Family Income before Tax, Region, Family Size and Type

■ Total Travel expenditures on food, alcoholic beverage, lodging, entertainment, and transportation

Creating Data Sets

- One year data set = sum of 4 quarterly data sets
 - For example: 2010 data set = fmli101x + fmli102 + fmli103 + fmli104

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Data	28,429	26,990	26,993	26,108	25,908	23,574	25,441	24,479	23,159	21,701

- Within each year data set, 6 total travel expenditure related variables were computed by combing the expenditures of <u>last</u> quarter and <u>this</u> quarter.
 - total trip expenditure = last quarter (TTOTALP) + this quarter (TTOTALC)
- Total Trip Expenditure = Total Trip Expenditures on Transportation +
 Total Trip Expenditures on Lodging + Total Trip Expenditures on Food
 + Total Trip Expenditures on Entertainment + Total Trip Expenditures
 on Alcoholic Beverage

Preliminary Results for 2010-2019

Profiles of Reference People

- Age: around 50 years old
- Gender: Slightly more female
- Race: Caucasian (around 80%)
- Family type: married couple only + single (around 50%)
- Family size: 2.5
- Total income before tax: wide ranges
- Region: South + West (58.5% or more)
- Education: high school college

Total Travel Expenditures

- Total Trip Expenditures (\$332-\$517)
- Transportation (\$149-\$202)
- Lodging (\$76-\$153)
- Food (\$69-\$106)
- Entertainment (\$32-\$38)
- Alcoholic Beverage (\$11-\$18)

The travel expenditure patterns from 2010 to 2019 were upward in all aspects, while the <u>lodging</u> expenditure had the highest percentage increase (101%)

2010 Profile of Reference Person

Age: 49.7 (Range: 16-87)

■ Gender: 53% Female

■ Race: 80.4% Caucasian

Family Type:

Married Couple Only: 20.7%

■ Single: 30.1%

Family size: 2.5 (Range: 1-14)

Total Income Before Tax: \$63,234.7

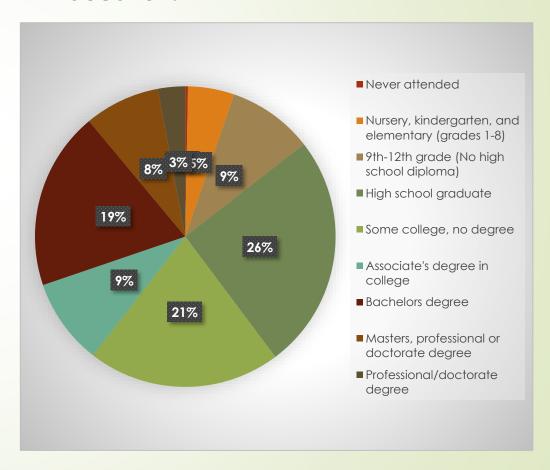
(Range: -\$52,928 - \$700,350)

Region:

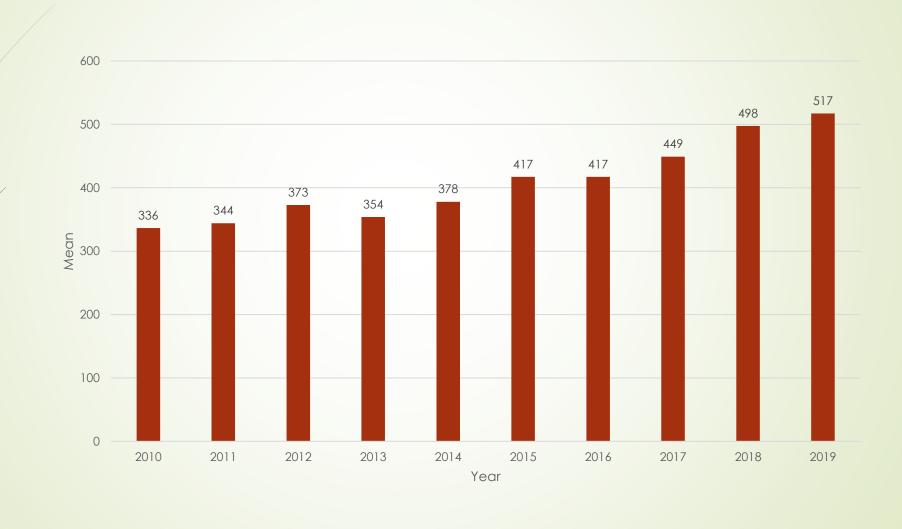
■ 35% South

■ 23.1% West

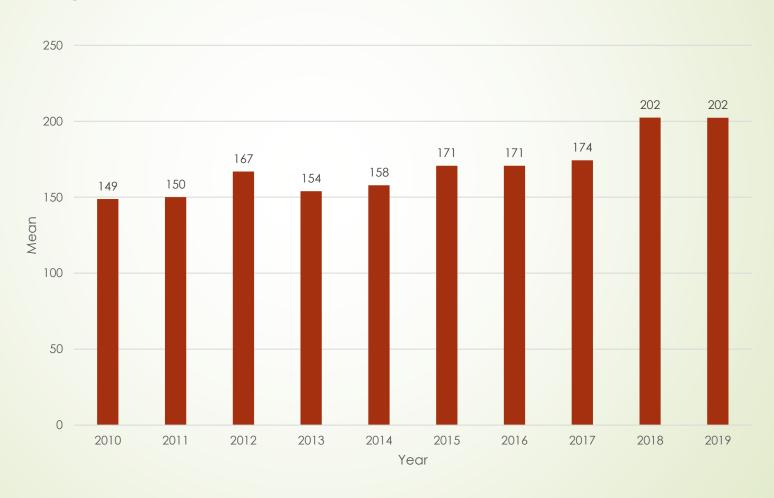
Education:



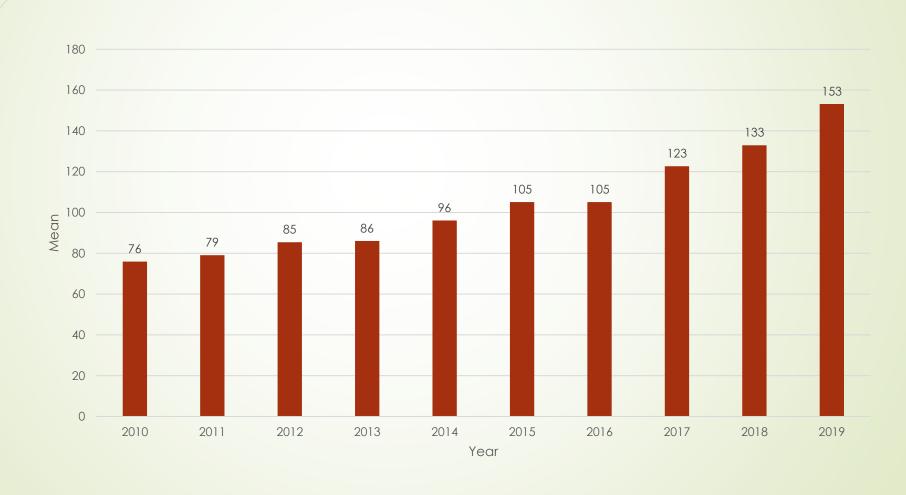
Total Trip Expenditures in 2010-2019



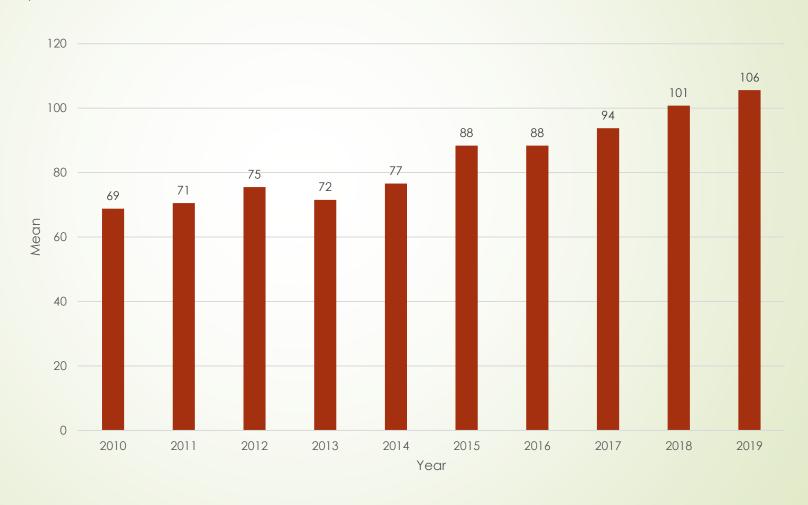
Total Trip Expenditures on Transportation in 2010-2019



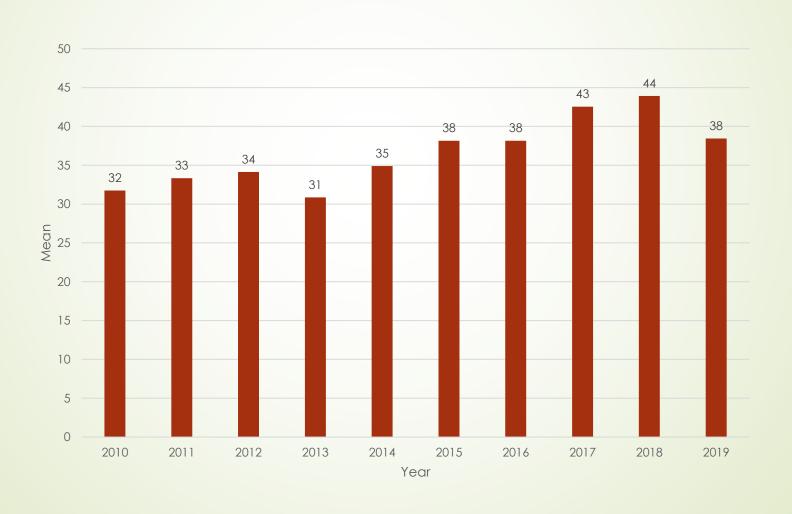
Total Trip Expenditures on Lodging in 2010-2019



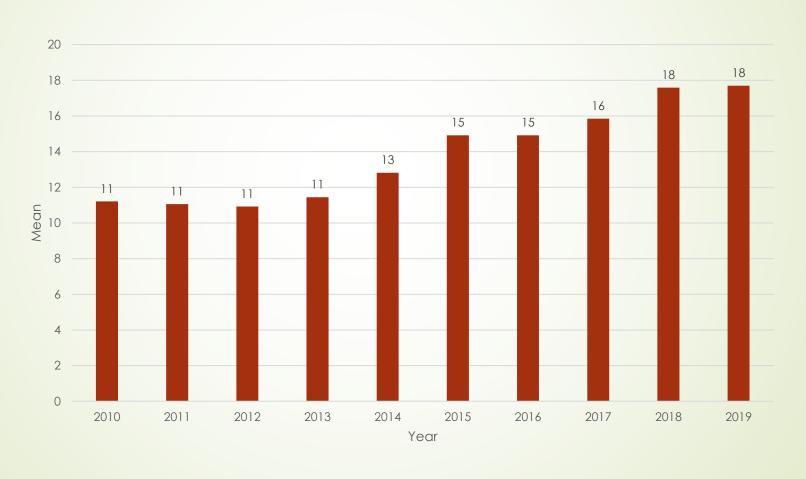
Total Trip Expenditures on Food in 2010-2019



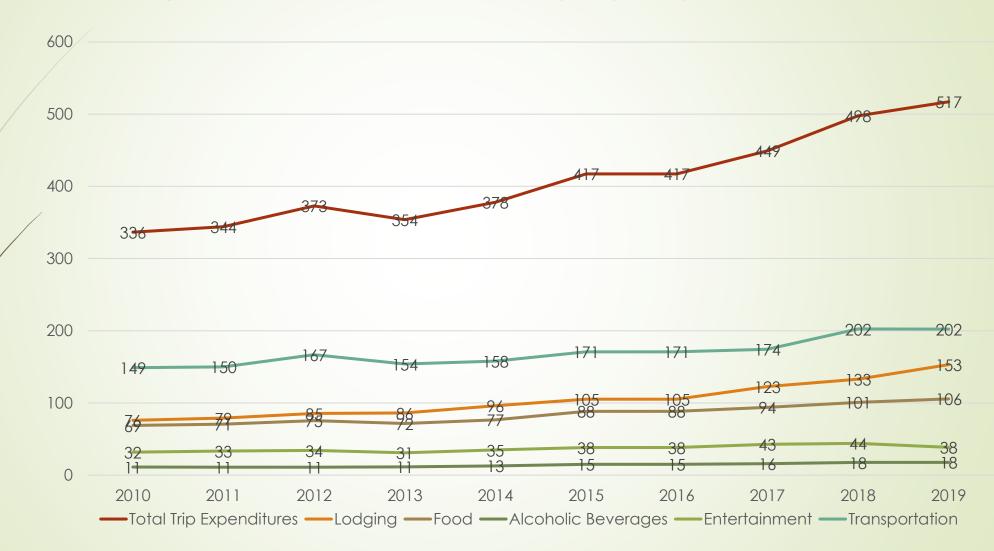
Total Trip Expenditures on Entertainment in 2010-2019



Total Trip Expenditures on Alcoholic Beverages in 2010-2019



The Overall Trend in 2010-2019



My Experience of Using CE Data

Like

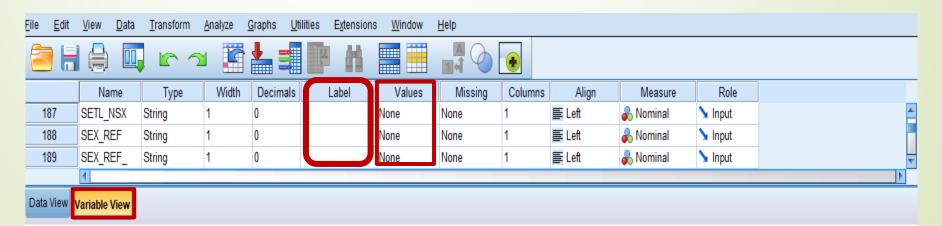
- Microdata available in different formats SAS, SPSS, STATA, CVS
- Well-documented handbook, manual, getting started guide, dictionary, etc.
- The sorting function in the dictionary excel file
- Total travel expenditure variables computed
- One-on-one support and consultation

Dislike

- Very confused about which variable to use, e.g. total income before tax
- Some variables and their associated codes don't match in data set/dictionary, e.g. OCCUPRE1, ORIGINR, etc.
- Could not find or don't know how to find some variables, such as length of stay, destination, ethnic variables, etc.
- Variables changing over the years

Suggestions

- Make the "domestic vs international trip" variable available to the public to better evaluate the impact of travel expenditures on the domestic economy
- Explore further the ethnic variable to truly reflect the diverse population in the U.S.
- Improve the accuracy of <u>Dictionary for Interview and Diary Surveys (XLSX)</u>
- Create Customized Chart / Table / Index for Travel and Tourism Sector
- Include Code Information within data set, for example SPSS "Label" and "Value" under Variable View tab



Special Thanks to Dr. Geoffrey Paulin



Any Questions or Comments?