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WHAT ARE WE NOT DOING WHEN WE'RE ONLINE

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ABSTRACT

The Internet has radically transformed the way we live our lives. The net changes in consumer surplus and economic activity, however, are difficult to measure because some online activities, such as obtaining news, are new ways of doing old activities while new activities, like social media, have an opportunity cost in terms of activities crowded out. This paper uses data from the American Time Use Survey from 2003 – 2011 to estimate the crowdout effects of leisure time spent online. That data show that time spent online and the share of the population engaged in online activities has been increasing steadily. I find that, on the margin, each minute of online leisure time is correlated with 0.29 fewer minutes on all other types of leisure, with about half of that coming from time spent watching TV and video, 0.05 minutes from (offline) socializing, 0.04 minutes from relaxing and thinking, and the balance from time spent at parties, attending cultural events, and listening to the radio. Each minute of online leisure is also correlated with 0.27 fewer minutes working, 0.12 fewer minutes sleeping, 0.10 fewer minutes in travel time, 0.07 fewer minutes in household activities, and 0.06 fewer minutes in educational activities.

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Introduction

The Internet has transformed many aspects of how we live our lives, but the magnitude of its economic benefits is widely debated. Estimating the value of the Internet is difficult in part not just because many online activities do not require monetary payment, but also because these activities may crowd out other, offline, activities. That is, many of the activities we do online, like reading the news or chatting with friends, we also did long before the Internet existed. The economic value created by online activities, therefore, is the incremental value beyond the value created by the activities crowded out. Estimates of the value of the Internet to the economy that do not take into account these transfers will, therefore, overstate the Internet's economic contribution.

This observation is of course not unique to the Internet. In the 1960s Robert Fogel noted that the true contribution of railroads to economic growth was not the gross level of economic activity that could be attributed to them, but rather the value derived from railroads being better than previously existing long-haul transport such as ships on waterways.¹ The true net economic benefit of the railroad was not small, but was much smaller than generally believed.

This paper takes to heart Fogel's insight and attempts to estimate changes in leisure time spent online and the extent to which new online activities crowd out other activities. If people mostly do online what they used to do offline, then the benefits of time spent online is biased upwards, potentially by a lot. In other words, if online time substitutes for offline time then that online time represents purely an economic transfer, with the net incremental benefit deriving from advantages of doing the activity online, but not from the time doing the activity, per se. By contrast, brand new online activities or those that complement offline activities do create new value, with activities crowded out representing the opportunity cost of that new activity.

With the available data, this paper does not evaluate which online activities substitute or complement offline activities. Instead, it estimates the opportunity cost of online leisure time. The analysis suggests that the opportunity cost of online leisure is less time spent on a variety of activities, including leisure, sleep, and work. Additionally, the effect is large enough that better understanding the value of this opportunity cost is a crucial issue in evaluating the effects of online innovation.

To my knowledge, no empirical research has investigated how leisure time online substitutes for or complements other leisure activities.² In this paper I begin to answer that question using detailed data from the American Time Use Survey, which allows me to construct a person-level dataset consisting of about 124,000 observations from 2003 - 2011.

¹ Robert William Fogel, "A Quantitative Approach to the Study of Railroads in American Economic Growth: A Report of Some Preliminary Findings," *The Journal of Economic History* 22, no. 2 (1962): 163–197; Robert William Fogel, *Railroads and Economic Growth: Essays in Econometric History* (Johns Hopkins Press, 1964).

² One existing study tries to investigate the effects of IT use using the same data I use in this paper, though only from 2003-2007. The author finds no particular effect of IT use on other time spent on other activities, though the empirical test is simply whether IT users and non-users spend significantly different amounts of time on various activities. John Robinson, "IT, TV and Time Displacement: What Alexander Szalai Anticipated but Couldn't Know," *Social Indicators Research* 101, no. 2 (April 1, 2011): 193–206, doi:10.1007/s11205-010-9653-0.

I find that the share of Americans reporting leisure time online has been increasing steadily, and much of it crowds out other activity. On average, each minute of online leisure is associated with 0.29 fewer minutes on all other types of leisure, with about half of that coming from time spent watching TV and video, 0.05 minutes from (offline) socializing, 0.04 minutes from relaxing and thinking, and the balance from time spent at parties, attending cultural events, and listening to the radio. Each minute of online leisure is also correlated with 0.27 fewer minutes working, 0.12 fewer minutes sleeping, 0.10 fewer minutes in travel time, 0.07 fewer minutes in household activities, and 0.06 fewer minutes in educational activities, with the remaining time coming from sports, helping other people, eating and drinking, and religious activities.

Among the interesting findings by population groups, the crowdout effect of online leisure on work decreases with age beyond age 30, but remains fairly constant with income. Online leisure has a large crowdout effect on time spent on education among people age 15-19, but the effect decreases steadily with age.

Existing Research on The Economic Value of the Internet

The value of the Internet is intrinsically difficult to estimate in part because it enables so many activities and in part because many of the most popular online activities are "free" in the sense that they have no direct monetary cost to consumers. Several tools exist for valuing nonmarket goods, such as contingent valuation surveys to revealed preference inferred by related market activities.³ Those mechanisms have shortcomings. In principle, contingent valuation can tell you willingness to pay, but people often have no reason to respond truthfully to contingent valuation surveys. Measuring spending on relevant complements reveals how much people spend on an activity, but not how much they would be willing to spend.

Given those weaknesses, perhaps the most common approach to valuing time spent on activities outside of work is to value that time at the wage rate under the implicit assumption that the marginal minute always comes from work. Of course, that assumption may be problematic, as those who employ that approach readily admit. Nevertheless, it is a useful starting point.

Goolsbee and Klenow (2006) were among the first to apply this approach to the Internet. They estimated the consumer surplus of personal (i.e., non-work) online time using the wage rate as the measure of time value and an imputed demand curve.⁴ They estimated a consumer surplus at about \$3,000 per person. Setting aside the question of whether the wage rate is an accurate measure of the value of all leisure time, this approach provides an estimate of gross consumer surplus as it does not measure incremental benefits.

Brynjolfsson and Oh (2010) improves on Goolsbee and Klenow with newer survey data, from 2003 - 2010, and measure the value of incremental time spent online.⁵ Although they also use the wage rate to estimate surplus, their estimates are smaller in magnitude because they focus on

³ Anthony Boardman et al., *Cost-Benefit Analysis: Concepts and Practice* (Upper Saddle River: Prentice Hall, 1996).

⁴ Austan Goolsbee and Peter J. Klenow, "Valuing Consumer Products by the Time Spent Using Them: An Application to the Internet," *American Economic Review* 96, no. 2 (May 2006): 108–113.

⁵ Erik Brynjolfsson and JooHee Oh, "The Attention Economy: Measuring the Value of Free Goods on the Internet," January 2012, http://conference.nber.org/confer/2012/EoDs12/Brynjolfsson_Oh.pdf.

the increase in time spent online over this time period rather than the aggregate time spent online. Based on that approach, they estimate the increase in consumer surplus from the Internet to be about \$33 billion, with about \$21 billion coming from time spent using "free" online services.

Both Goolsbee and Klenow (2006) and Brynjolfsson and Oh (2010) almost certainly overestimate the true surplus created by the Internet, even setting aside the question of whether all leisure time should be valued at the wage rate. In particular, they neglect to factor in the extent to which consumers are simply doing some things online that they used to do offline and that new activities must at least partially come at the expense of activities they are no longer doing. Spending an hour reading the paper online shows up as a "free" activity, assuming no subscriber paywall, but is not intrinsically more valuable than the same hour spent reading the news on paper. Similarly, the net benefit to you of reading an electronic book on a Kindle, for example, does not include the time spent enjoying the book if you would have otherwise read the book in dead-tree format. Instead, the net benefit is only the incremental value of reading an electronic, rather than paper, book.

To be sure, the online version of the newspaper must generate additional consumer surplus relative to the offline version or the newspaper industry would not be losing so many print readers, but not all of time spent reading the paper online reflects the incremental value of the Internet. Additionally, at a price of zero the activity might attract more consumers than when the activity was paid, or consumers might read more electronic books than paper books because they prefer the format or because e-books are so much easier to obtain. But even if lower prices increase consumption of a particular activity, the cost of that additional consumption is time no longer spent on another activity.

Activities that once required payment but became free, such as reading the news online, represent a transfer of surplus from producers to consumers, but not new total surplus. Of course, these transfers may have large economic effects as they can lead to radical transformations of entire industries, especially given that consumers spend about \$340 billion annually on leisure activities.⁶ Reallocating those \$340 billion is sure to affect the industries that rely on it. Hence, we should expect to see vigorous fights between cable, Netflix, and content producers even if total surplus remains constant. Similarly, as Joel Waldfogel shows in this volume, the radical transformation in the music industry does not appear to have translated into radical changes in the amounts of music actually produced. That is, the Internet may have thrown the music industry into turmoil, but that appears to be largely because the Internet transferred large amounts of surplus to consumers rather than changing net economic surplus.

As the number and variety of activities we do online increases, it stands to reason that our Internet connections become more valuable to us. Greenstein and McDevitt (2009) estimate the incremental change in consumer surplus resulting from upgrading from dialup to broadband

⁶ See Table 57, http://www.bls.gov/cex/2009/aggregate/age.xls. The \$340 billion estimate includes expenditures on entertainment, which includes "fees and admissions," "audio and visual equipment and services," "pets, toys, hobbies, and playground equipment," and "other entertainment supplies, equipment, and services." I added expenditures on reading to entertainment under the assumption that consumer expenditures on reading are likely to be primarily for leisure.

service based on changes in quantities of residential service and price indices.⁷ They estimate the increase in consumer surplus related to broadband to be between \$4.8 billion and \$6.7 billion.

Rosston, Savage, and Waldman (2010) explicitly measure consumer willingness to pay for broadband and its various attributes using a discrete choice survey approach.⁸ They find that consumers were willing to pay about \$80 per month for a fast, reliable broadband connection, up from about \$46 per month since 2003. In both years the average connection price was about \$40, implying that (household) consumer surplus increased from about \$6 per month in 2003 to \$40 per month in 2010. That change suggests an increase of about \$430 per year in consumer surplus between 2003 and 2010. Translating this number into total consumer surplus is complicated by the question of who benefits from each broadband subscription and how to consider their value from the connection. That is, a household paid, on average, \$40 per month for a connection, but does each household member value the connection at \$80? Regardless of the answer to that question, Rosston, Savage, and Waldman's (2010) estimate is clearly well below Goolsbee and Klenow (2006).

In the remainder of the paper I will build on this research by explicitly estimating the cost of online activities by investigating the extent to which online activities crowd out previous activities.

The American Time Use Survey, Leisure Time, and Computer Use

Starting in 2003 the U.S. Bureau of Labor Statistics and the U.S. Census began the American Time Use Survey (ATUS) as a way of providing "nationally representative estimates of how, where, and with whom Americans spend their time, and is the only federal survey providing data on the full range of nonmarket activities, from childcare to volunteering."⁹

Each year the survey includes about 13,000 people (except in 2003 when it included about 20,000) whose households had recently participated in the Current Population Survey (CPS).¹⁰ From the relevant BLS files we constructed a 2.5 million-observation dataset at the activity-person-year level for use in identifying the time of day in which people engage in particular activities, and a 124,000-observation person-year level dataset for examining the crowd-out effect.

The ATUS has several advantages for estimating the extent to which online time may crowd out or stimulate additional time on other activities. First, each interview covers a full 24-hour period,

⁷ Shane M. Greenstein and Ryan McDevitt, "The Broadband Bonus: Accounting for Broadband Internet's Impact on U.S. GDP," *NBER Working Paper*, February 2009.

⁸ Gregory Rosston, Scott Savage, and Donald Waldman, "Household Demand for Broadband Internet Service," *The B.E. Journal of Economic Analysis and Policy* 10, no. 1 (September 9, 2010),

http://www.degruyter.com/view/j/bejeap.2010.10.1/bejeap.2010.10.1.2541/bejeap.2010.10.1.2541.xml?format=INT. ⁹ http://www.bls.gov/tus/atussummary.pdf

¹⁰ More specifically, BLS notes that "Households that have completed their final (8th) month of the Current Population Survey are eligible for the ATUS. From this eligible group, households are selected that represent a range of demographic characteristics. Then, one person age 15 or over is randomly chosen from the household to answer questions about his or her time use. This person is interviewed for the ATUS 2-5 months after his or her household's final CPS interview." http://www.bls.gov/tus/atusfaqs.htm

making it possible to study how time spent on one activity might affect time spent on another activity. Second, it is connected to the CPS so includes copious demographic information about the respondents.

Third, the survey focuses on activities, not generally on the tools used to conduct those activities. So, for example, reading a book is coded as "reading for personal interest" regardless of whether the words being read are of paper or electronic provenance.¹¹ As a result, the value of the time spent reading would not be mistakenly attributed to the Internet when using these data. Similarly, time spent watching videos online would be coded as watching TV, not computer leisure time.

The survey does, however, explicitly include some online activities already common when the survey began in 2003. In particular, time spent doing personal email is a separate category from other types of written communication.¹² Online computer games, however, are simply included under games.

ATUS coding rules therefore imply that any computer- or Internet-based personal activity that did not exist in 2003 as its own category would be included under "Computer use for leisure (excluding games)," which includes "computer use, unspecified" and "computer use, leisure (personal interest)."¹³ For example, Facebook represents the largest single use of online time today, but ATUS has no specific entry for social media, and therefore would almost certainly appear under computer use for leisure.

This feature of the ATUS means that increases in computer use for leisure represent incremental changes in time people spend online and that it should be possible to determine the opportunity cost of that time—what people gave up in order to spend more time online. It worth noting, however, that the ATUS does not code multitasking, which is a distinct disadvantage to this research to the extent that online behavior involves doing multiple activities simultaneously. In principle the survey asks whether the respondent is doing multiple activities at a given time, but only records the "primary" activity.

To reiterate, the ATUS does not make it possible to determine, say, how much time spent watching video has migrated from traditional television to online services like Netflix. It does, however, tell us how new online activities since 2003 have crowded out activities that existed at that time and—to extend the video example—how much those activities have crowded out (or in) time spent watching video delivered by any mechanism.

A significant disadvantage the survey, however, is that as a survey, as discussed above, respondents have little reason to respond truthfully, especially about sensitive subjects. For example, would viewing pornography online be categorized under "computer use for leisure"

¹¹ More explicitly, reading for pleasure is activity code 120312: Major Activity code 12 (Socializing, relaxing, and leisure), Second-tier code 03 (Relaxing and Leisure), Third-tier code 12 (Reading for personal interest). http://www.bls.gov/tus/lexiconwex2011.pdf

¹² Code 020904, "household and personal e-mail and messages," which is different from code 020903 "household and personal mail and messages (not e-mail). <u>http://www.bls.gov/tus/lexiconwex2011.pdf</u>, p.10. Inexplicably, however, any time spent doing volunteer work on a computer is its own category (150101). <u>http://www.bls.gov/tus/lexiconwex2011.pdf</u>, p.44.

¹³ <u>http://www.bls.gov/tus/lexiconwex2011.pdf</u>, p. 34.

(based on the "unspecified" example in the codebook), or under "personal/private activities" (also the "unspecified" example under this subcategory)?

"Computer Use for Leisure" is Online Time

The relevant ATUS category is time spent using a computer for leisure.¹⁴ This measure explicitly excludes games, email, and computer use for work and volunteer activities. While some computer leisure activities may not necessarily involve the Internet, nearly all of the many examples provided to interviewers under that heading involve online activities (Figure 1). Additionally, while the measure is coded as "computer use for leisure," based on the coding instructions it also likely includes mobile device use.



Figure 1: Evolution of Examples of "Computer Use for Leisure" Provided for ATUS Coders¹⁵

Based on what the ATUS measure excludes and other sources of information detailing what online activities include, we can get a good idea of what people are probably spending their time doing. Nielsen identifies the top 10 online activities (Table 1). Of the top 10, the ATUS variable excludes online games, e-mail, and any Internet use for work, education, or volunteer activities. Based on this list, it is reasonable to conclude that the top leisure uses included in the ATUS variable are social networks, portals, and search.

¹⁴ Computer games are simply recorded as "leisure/playing games," and e-mail is coded as "household and personal e-mail and messages." Text messaging is recorded as "telephone calls." U.S. Bureau of Labor Statistics, *American Time Use Survey (ATUS) Coding Rules*, 2010, 17, 47, http://www.bls.gov/tus/tu2010coderules.pdf.

¹⁵ "ATUS Single-Year Activity Coding Lexicons," 2003 – 2011, http://www.bls.gov/tus/lexicons.htm.

Table 1: Top 10 Online Activities by Time Spent on Them

		S	hare of Time		Position
Rank	Category	May-11	Jun-10	Jun-09	'10-'11
1	Social Networks	22.50%	22.70%	15.80%	\leftrightarrow
2	Online Games	9.80%	10.20%	9.30%	\leftrightarrow
3	E-Mail	7.60%	8.50%	11.50%	\leftrightarrow
4	Portals	4.50%	4.40%	5.50%	\leftrightarrow
5	Videos/Movies	4.40%	3.90%	3.50%	↑1
6	Search	4.00%	3.50%	3.40%	↑1
7	Instant Messaging	3.30%	4.40%	4.70%	↓ 2
8	Software Manufacturers	3.20%	3.30%	3.30%	\leftrightarrow
9	Classifieds/Auctions	2.90%	2.70%	2.70%	↑1
10	Current Events & Global News	2.60%	-	-	↑1
	Multi-category Entertainment Other*	- 35.10%	2.80% 34.30%	3.00% 37.30%	↓2

Source: Nielsen NetView – June 2009-2010 and Nielsen State of the Media: The Social Media Report – Q3 2011. * Other refers to 74 remaining online categories for 2009-2010 and 75 remaining online categories for 2011 visited from PC/laptops

** Nielsen's Videos/Movies category refers to time spent on video-specific (e.g., YouTube, Bing Videos, Hulu) and movie-related websites (e.g., IMDB, MSN Movies and Netflix). It does not include video streaming non-video-specific or movie-specific websites (e.g., streamed video on sports or news sites).

How Do Americans Spend Their Time?

The New York Times produced an excellent representation of how Americans spend their time from the ATUS (Figure 2). As the figure highlights, ATUS data track activities by time of day and activity, as well as by different population groupings due to coordination with the CPS. Each major activity in the figure can be broken down into a large number of smaller activities under that heading. The figure reveals the relatively large amount of time people spend engaged in leisure activities, including socializing and watching TV and movies.

Figure 2: How Americans Spent Their Time in 2008, Based on ATUS



By SHAN CARTER, AMANDA COX, KEVIN QUEALY and AMY SCHOENFELD | Send Feedback Source: The New York Times (2009).¹⁶

The ATUS includes detailed data on how people spend their leisure time. ATUS has seven broad categories of leisure, but I pull "computer use for leisure" out of the subcategories to yield eight categories of leisure. Figure 3 shows the share of time Americans spent on these leisure activities in 2011.

¹⁶ http://www.nytimes.com/interactive/2009/07/31/business/20080801-metrics-graphic.html



Figure 3: Share of Leisure Time Spent on Various Activities, 2011

Note: Average total daily leisure time is about five hours. Source: ATUS 2011 (author's derivation from raw data).

The total time Americans engage in leisure on average per day has remained relatively constant at about five hours increasing from 295 minutes in 2003 to about 304 minutes in 2011, though it has ranged from 293 to 305 minutes during that time.

Figure 4 shows the average number of minutes spent per day using a computer for leisure activities. While the upward trend since 2008 is readily apparent, the data also show that, on average, at about 13 minutes per day, leisure time online is a small share of the total five hours of daily leisure activities the average American enjoys.



Figure 4: Average Minutes Per Day Spent Using Computer for Leisure

This average is deceptively low in part not just because it does not include time spent doing email, watching videos, and gaming, but also because it is calculated across the entire population so is not representative of people who spend any time online. Figure 5 shows that the average is low primarily because a fairly small share of the population reports spending any leisure time online (other than doing email and playing games). However, the figure shows that the share of the population who spend non-gaming and non-email leisure time online is increasing, and, on average, people who spend any leisure time online spend about 100 minutes a day—nearly one-third of their total daily leisure time.

Figure 5: Share of Population Using Computer for Leisure and Average Number of Minutes per Day Among Those Who Used a Computer For Leisure



Who Engages in Online Leisure?

Online leisure time differs across many demographics, including age and income. As most would expect, the amount of online leisure time decreases with age, more or less (Figure 6). People between 15 and 17 spend the most time online, followed by 18-24 year olds. Perhaps somewhat surprisingly, the remaining age groups report spending similar amounts of time engaged in online leisure. However, because total leisure time increases with age, beginning with the group age 35-44, the share of leisure time spent online continues to decrease with age.



Figure 6: Minutes and Share of Leisure Time Online by Age Group in 2010

Perhaps not surprisingly given the trends discussed above, both the amount of leisure time spent online (Figure 7) and the share of respondents reporting spending leisure time online is generally increasing over time (Figure 8).



Figure 7: Time Spent Using Computer for Leisure by Age and Year



Figure 8: Share of Respondents Reporting Using Computer for Leisure by Age and Year

Leisure time also varies by income. Figure 9 shows average total leisure time excluding computer use and computer use for leisure by income. The figure shows that overall leisure time generally decreases with income. Computer use for leisure, on the other hand, appears to increase with income.

Figure 9: Leisure Time by Income



People with higher incomes, however, are more likely to have computer access at home, meaning average computer use by income is picking up the home Internet access effect.

Goldfarb and Prince (2008) investigated the question of online leisure by income in a paper investigating the digital divide.¹⁷ Based on survey data from 2001, they find that conditional on having Internet access, wealthier people spend less personal time online than poorer people. Their key instrument identifying Internet access is the presence of a teenager living in the house, which may make a household more likely to subscribe to the Internet but not more likely to spend personal time online except due to having Internet access.

With the ATUS data I can attempt to replicate their instrumental variables results using this more recent data. While I know the ages of all household members, the data do not indicate whether a household has Internet access. However, I can identify some households that have access. In particular, any ATUS respondent who spends any time at home involved in computer leisure, e-mail, or using a computer for volunteer work must have home Internet access. Following Goldfarb and Prince, I estimate the following two simultaneous equations using two-stage least squares:

¹⁷ Avi Goldfarb and Jeff Prince, "Internet Adoption and Usage Patterns Are Different: Implications for the Digital Divide," *Information Economics and Policy* 20, no. 1 (March 2008): 2–15.

(1) home internet $access_i =$

f

 $\begin{cases} \text{income}_i, \text{education}_i, \text{age}_i, \text{sex}_i, \text{race}_i, \text{married}_i, \text{number children in household}_i, \\ \text{Spanish-speaking only}_i, \text{labor force status}_i, (\text{metro, suburban, rural})_i, \\ \text{leisure excluding computer use}_i, \text{year}_t, \text{survey day of week}_i, \text{teenager in house}_i, \end{cases}$

(2) computer use for leisure_i = $f(\mathbf{Z})$, home internet access_i)

where i indicates a respondent, and Z is the vector of independent variables included in the first equation. Note the absence of a t subscript—no individual appears more than once in the survey, so the data are a stacked cross-section rather than a pure time series. "Labor force status" is a vector of dummy variables indicating whether the respondent is employed and working, employed but absent from work, employed but on layoff, unemployed and looking for work, or not in the labor force. I include year dummy variables to control for time trends. I include an indicator for the day of the week the survey took place since certain activities-leisure time especially-differs significantly across days.

As mentioned, my indicator for home Internet access identifies only a portion of households that actually have Internet access. This method implies that only 17 percent of households had access in 2010 when the U.S. Census estimated that more than 70 percent actually had access.¹⁸ Nevertheless, in the first stage of this two-stage model the variable is useful in creating a propensity to have access for use in the second stage in that while the level is wrong, the fitted trend in growth in Internet access tracks actual growth in access reasonably well. The fitted propensity to have access increases by about 70 percent while actual home Internet access increased by about 78 percent during that same time period.¹⁹

Table 2 shows the (partial) results of estimating the set of equations above. The first column replicates Goldfarb and Prince. These results mirror theirs: conditional on home Internet access, computer leisure time decreases with income. In order to see whether computer leisure looks different from other types of leisure, I change the dependent variable to computer leisure as a share of total leisure (column 2). These results are similar in that conditional on home Internet access, computer time as a share of total leisure time decreases with income, although the effect is fairly small in magnitude above \$50,000 in annual family income.

Variable	Computer leisure	Computer as share of leisure	Variable	Computer leisure	Computer as share o leisure
\$10k - \$19.9k	0.00264	0.00124	Black	3.078***	0.0101***
	(0.00453)	(0.748)		(4.590)	(5.414)
\$20k = \$29k	-1.015	-0.00238	American Indian	1.176	0.00801**
	(-1.371)	(-1.134)		(0.829)	(1.975)
\$30k - \$49k	-2.352***	-0.00622**	Asian	2.250***	0.0122***
	(-2.621)	(-2.477)		(3.194)	(5.864)
\$50k - \$75k	-3.510***	-0.0101***	White-American	-2.314*	-0.00195

Table 2: Computer Leisure as a Function of Income (abridged results of second stage only; full results, including first stage, in appendix)

¹⁸ http://www.ntia.doc.gov/files/ntia/data/CPS2010Tables/t11_2.txt

¹⁹ http://www.pewinternet.org/Trend-Data-(Adults)/Internet-Adoption.aspx

	(-3.079)	(-3.148)	Indian	(-1.842)	(-0.545)
\$75k - \$99k	-3.993***	-0.0108***	White-Asian	8.130***	0.0227***
	(-3.257)	(-3.155)		(3.112)	(3.026)
\$100k - \$149k	-4.690***	-0.0122***	white-asian-	42.55***	0.450***
	(-3.530)	(-3.241)	hawaiian	(4.270)	(15.62)
>=\$150k	-4.701***	-0.0124***	Spanish-only	0.906*	0.00177
	(-3.699)	(-3.447)	hhld	(1.741)	(1.254)
age	-0.0244	-6.83e-05	Monday	-2.568***	0.00127
	(-1.355)	(-1.241)		(-5.955)	(0.875)
male	4.164***	0.00661***	Tuesday	-3.292***	-0.000695
	(18.00)	(9.131)		(-7.548)	(-0.461)
grade6	3.459**	0.0119***	Wednesday	-4.565***	-0.00189
	(2.086)	(2.582)		(-9.920)	(-1.107)
grade789	2.044**	0.00827***	Thursday	-3.374***	-0.00289*
	(2.180)	(3.005)		(-7.596)	(-1.853)
High school, no	3.450***	0.0100***	Friday	-0.781*	0.00240**
diploma	(3.910)	(3.903)		(-1.758)	(1.975)
High school grad	1.777**	0.00345	Saturday	0.217	0.00127
	(2.154)	(1.429)		(0.498)	(1.030)
Some college	0.0904	-0.00229	Constant	1.988	0.00500
	(0.144)	(-1.281)		(1.067)	(1.289)
Associate/vocational	-0.0462	-0.00250	Observations	110,819	106,869
degree	(-0.0563)	(-1.067)	R-squared	0.176	0.238
bachelors	-4.004***	-0.00969***			
masters	-5.909***	-0.0163***			
	(-5.276)	(-5.321)			
professional	-2.928**	-0.0116***			
	(-2.374)	(-3.292)			
doctoral	-5.557***	-0.0116***			
	(-3.809)	(-2.820)			

Note: Other variables included but not shown: Year fixed effects; number of household children; urban, rural, suburban status; labor force status.

I also find that computer use for leisure decreases with education, conditional on access, although the effect on computer use as a share of leisure is less straightforward. For example, online leisure as a share of total leisure is less for people with masters' degrees than for people with doctorate degrees. By race, people who identify as "White-Asian-Hawaiian" spend the most time engaged in online leisure, followed by "White-Asian," "Black," and finally "White."

Not surprisingly, the largest amount of online leisure takes place on Saturday and Sunday, followed closely by Friday. Wednesday appears to have the least online leisure.

As Goldfarb and Prince note, these results shed some light on the nature of the digital divide. In particular, while we know from Census and other data that a significant gap remains on Internet access, conditional on access poorer people and minorities are more likely to engage in computer leisure than are rich people and white people.

Goldfarb and Prince note that these results are consistent with poorer people having a lower opportunity cost of time. These results, using ATUS data, are also consistent with that hypothesis. However, because, as shown above, poorer people engage in more leisure time overall, the results also suggest that online leisure may not be so different from offline leisure, at least in terms of how people value it.

What times do people engage in online leisure?

As discussed, to better understand the true costs (and benefits) of time spent online, it is important to figure out the source of the marginal minute online—what activities does it crowd out? It is reasonable to assume that much of it comes from other leisure activities, since leisure time has remained unchanged for so many years, but it need not necessarily come only from other leisure time.

To begin to understand where online time comes from, we first look at it in the context of some other (major) activities throughout the day.

Figure 10 shows how sleep, work, leisure (excluding computer time), and computer time for leisure are distributed throughout the day. Not surprisingly, most people who work begin in the morning and end in the evening, with many stopping mid-day, presumably for lunch. People begin heading to sleep en masse at 9:00 pm with nearly half the over-15 population asleep by 10 pm and almost everyone asleep at 3 am. Leisure time begins to increase as people wake up and increases steadily until around 5 pm when the slope increases and the share of people engaged in leisure peaks at about 8:45 pm before dropping off as people go to sleep.





Time engaged in computer leisure, a subcategory of leisure, tracks overall leisure fairly well, but exhibits somewhat less variation. In particular, the peak in the evening is not as pronounced and continues later in the evening. This time distribution suggests that computer leisure may, in principle, crowd out not just other leisure activities, but also work, sleep, and other (smaller) categories. The next section investigates the extent to which online leisure crowds out these other categories.

What Does Online Leisure Crowd Out?

The ATUS has 17 "major categories" of activities (plus one "unknown" category for activities that the interviewer was unable to code). Each of these major categories includes a large number of subcategories. The first step in exploring where online leisure time comes from is to investigate its effects at the level of these major categories. The second step will be investigating the effects within those categories.

Major Activity Categories

Table 3 shows the average time spent on each of the 18 major categories. Personal care, which includes sleep, represents the largest block of time, followed by leisure, work, and household activities.





To explore potential crowdout effects, I begin by estimating 18 versions of equation (3), once for each major activity category.

(3) major activity_i =
$$f\begin{pmatrix} \text{computer leisure}_i, \text{income}_i, \text{education}_i, \text{age}_i, \text{sex}_i, \text{race}_i, \text{married}_i, \\ \text{number children in household}_i, \text{occupation}_i \\ \text{Spanish-speaking only}_i, \text{labor force status}_i, (\text{metro, suburban, rural})_i, \\ \text{year}_i, \text{survey day of week}_i \end{pmatrix}$$

Table 4 shows the coefficient (and t-statistic) on the computer leisure variable from each of the 18 regressions (the full regression results are in the appendix). Figure 11 shows the results graphically. Perhaps not surprisingly, since computer use for leisure is a component of the major leisure category, computer use for leisure has the largest effect on other leisure. Each minute spent engaged in computer leisure represents almost 0.3 minutes less of doing some other type of leisure. Online leisure appears to have a relatively large effect on time spent at work, as well, with each minute of online leisure correlated with about 0.27 minutes less time working. Each minute of online leisure is also correlated with 0.12 minutes of personal care. Most other activities also show a negative, though much smaller, correlation with online leisure.

Leisure (excluding computer)	-0.293***
	(22.34)
Work activities	-0.268***
	(19.38)
Personal care (including sleep)	-0.121***
	(12.36)
Travel	-0.0969***
	(17.36)
Household activities	-0.0667***
	(7.149)
Education	-0.0574***
	(8.560)
Sports	-0.0397***
	(9.17)
Helping household members	-0.0368***
	(7.589)
Eating and drinking	-0.0254***
	(6.991)
Helping non-household members	-0.0232***
	(6.763)
Religion	-0.0146***
	(5.758)
Unknown	-0.0141***
	(4.080)
Volunteer	-0.0120***
	(3.503)
Professional care and services	-0.00360*
	(1.896)
Household services	-0.00129
-	(1.583)
Government and civic obligations	-0.000177
	(0.303)
Consumer purchases	0.00368
Dharasalla	(1.025)
Phone calls	0.0134^**
	(7.433)
Absolute t-statistics in parentheses	
p<0.01, "" p<0.05, " p<0.1	

Table 4: Estimated Crowdout Effects of Computer Leisure on Major Categories

Note: Equation (3) shows the variables included in each regression. Full regression results in appendix.

Travel time, too, is negatively correlated with online leisure time. Avoided travel time is generally considered a benefit, suggesting at least one area where the tradeoff yields clear net benefits.

Phone calls are positively correlated with online leisure time, although the magnitude is small. It is conceivable that this result reflects identifying the type of person who tends to Skype. Calls made using Skype or similar VoIP services would likely be recorded as online leisure rather than

phone calls since phone calls are specifically time spent "talking on the telephone."²⁰ If people who are inclined to talk on the phone are also inclined to Skype, then perhaps the correlation is picking up like-minded people.





The analysis above controls for demographics, but any crowd-out (or -in) effects may differ by those demographics, as well. Table 5 shows the abridged regression results by demographic group.

Demographic	Leisure (other than online)	Work	Travel	Household activities	Education	Helping household members
Men	-0.307***	-0.258***	-0.0638***	-0.0668***	-0.0620***	-0.00833
Women	-0.283***	-0.264***	-0.0554***	-0.0642***	-0.0555***	-0.0724***
White	-0.274***	-0.273***	-0.0680***	-0.0732***	-0.0546***	-0.0418***
Black	-0.394***	-0.308***	-0.00453	-0.0348	-0.0450**	0.00511
Asian	-0.305***	-0.151**	-0.0589***	0.00178	-0.227***	-0.0195
Hispanic	-0.230***	-0.275***	-0.0590***	-0.174***	0.0177	-0.0709***
<\$10k	-0.399***	-0.125***	-0.0180	-0.0686**	-0.0817***	-0.0175
\$10k - \$19k	-0.410***	-0.124***	-0.0255*	-0.151***	-0.0335	-0.0398***
\$20k - \$29k	-0.395***	-0.254***	-0.0287**	-0.0345	-0.0307*	-0.0581***
\$30k - \$49k	-0.218***	-0.297***	-0.0658***	-0.0997***	-0.0425***	-0.0282**
\$50k - \$74k	-0.267***	-0.262***	-0.0746***	-0.0725***	-0.0733***	-0.0482***
\$75k - \$99k	-0.209***	-0.383***	-0.0934***	-0.0134	-0.0892***	-0.0220*

Table 5: Crowdout Effect on Selected Major Categories by Demographics

²⁰ <u>http://www.bls.gov/tus/tu2011coderules.pdf</u>, p.47

\$100k - \$149k	-0.291***	-0.254***	-0.0600***	-0.0781***	-0.129***	-0.0186
\$150k +	-0.220***	-0.297***	-0.0713***	-0.0229	-0.0774***	-0.00642
Age 15-19	-0.390***	-0.0871***	-0.0526***	-0.0377**	-0.295***	-0.00295
Age 20-24	-0.178***	-0.231***	-0.0651***	-0.0304	-0.118***	-0.0363*
Age 25-29	-0.223***	-0.326***	-0.0332*	-0.100***	-0.107***	-0.0268
Age 30-34	-0.209***	-0.375***	-0.0754***	-0.0906***	-0.0776***	-0.0887***
Age 35-39	-0.151***	-0.375***	-0.0722***	-0.0605**	-0.0255**	-0.0488**
Age 40-44	-0.221***	-0.331***	-0.0485***	-0.0531	-0.0314***	0.00239
Age 45-49	-0.233***	-0.315***	-0.0604***	-0.0934***	-0.0206*	-0.0156
Age 50-54	-0.268***	-0.326***	-0.0721***	-0.0436	-0.0155	-0.00327
Age 55-59	-0.282***	-0.294***	-0.0803***	-0.0837**	-0.00132	-0.00695
Age 60-64	-0.308***	-0.296***	-0.0793***	-0.0834**	0.000424	0.00246
Age 65-69	-0.412***	-0.146***	-0.0640***	-0.0877*	-0.00597	-0.00429
Age 70+	-0.471***	-0.0347*	-0.0464***	-0.134***	0.000160	-0.00708

*** p<0.01, ** p<0.05, * p<0.1

Note: Each cell shows the coefficient on the "computer use for leisure" variable and its statistical significance in a regression in which the column heading is the dependent variable and regression includes only the observations in the group represented by the row heading. Thus, the table shows a single coefficient from each of 156 separate regressions. Each regression includes variables shown in equation 3. Full results available upon request.

Men and women show few differences in terms of crowd-out effects, except for time spent helping household members. While online leisure time is not statistically significantly correlated with helping household members for men, each minute of online leisure is associated with 0.08 fewer minutes helping household members for women. This result, however, is at least partly because women spend more than 50 percent more time helping household members than men do.

Among race, Black people show the biggest crowd-out correlation between online and other leisure, while Hispanic people should the smallest crowding out. Black, White, and Hispanic people show similar levels of crowding out on work, with Asians showing the smallest crowding out of work. Asians, however, show the most crowding out of online time on education, with each minute of online leisure correlated with 0.23 fewer minutes engaged in educational activities.

Perhaps the most striking result is how the correlation between online time and education differs by age. Figure 12 shows this information graphically. Among people age 15-19, each minute of online leisure is correlated with 0.3 fewer minutes engaged in educational activities. The magnitude of the crowd-out correlation decreases quickly with age: 0.12 minutes for ages 20-24, 0.03 minutes for ages 45-59, and no statistically significant correlation beyond age 50.



Figure 12: Crowdout Effect on Education by Age

To some extent, the decreasing magnitude of the correlation with age has to do with the simple fact that the amount of time spent engaged in educational activities decreases sharply with age much more sharply than the time spent in online leisure activities. This relationship, however, does not change markedly when estimating elasticities rather than levels: among the youngest group, each percent increase in time spent online is correlated with 0.06 percent less time spent in educational activities. The correlation becomes generally smaller in magnitude with age and statistically insignificant by age 45.

Activity Subcategories

As discussed above, each major category includes multiple subcategories (and even more subsub categories). To get a better idea of which specific activities online leisure might crowd out, I now estimate a set of similar regressions with the largest subcomponents of leisure as the dependent variable. Table 6 shows the coefficient its statistical significance for the online leisure variable for each regression. As above, the full regression results are in the appendix.

Activities	Crowdout
TV & Movies (nonreligious)	-0.12***
	(-10.39)
Socializing and communicating	-0.054***
	(-9.121)
Relaxing and thinking	-0.037***
	(-8.286)
Parties	-0.016***
	(-5.923)
Attending cultural events/institutions	-0.010***
	(-4.069)
Listening to the radio	-0.0044***

Table 6: Abridged Regression Results of Online Leisure on Other Types of Leisure

	(-3.637)
TV & movies (religious)	-0.0004
	(-0.628)
Other leisure	-0.0003
	(-0.591)
Waiting associated with leisure	-0.0002
	(-0.855)
Smoking / Drugs	0.0002
	(0.357)
Writing	0.0005
	(0.918)
Listening to music (not radio)	0.0021
	(1.538)
Hobbies	0.0036**
	(1.994)
t-statistics in parenthesis	
*** p < 0.01, ** p < 0.05, * p < 0.1	

Note: Each entry shows the coefficient (and t-statistic) on the variable representing time engaged in online leisure in a regression in which the dependent variable is the row heading. Each regression includes the variables shown in Equation 3.

Online leisure has the strongest (in magnitude) negative correlation with watching TV and movies. Each minute of online leisure is associated with 0.12 minutes less of watching video. Note that this result does not speak to the question of whether over-the-top video like Netflix complements or substitutes for traditional TV.²¹ Watching video online in any form—including YouTube and Netflix—is coded as watching video, not computer leisure time. Thus, these results suggest that online activities not captured by the 2003-era list of leisure activities have a crowding out effect on TV viewing. Given that Americans spend 2.75 hours per day watching TV (according to ATUS; more according to Nielsen), the crowdout effect is small.

Nevertheless, the crowdout effect on video suggests that the net effect of the Internet is less time watching all forms of video. If this result holds true, it means not only that OTT video competes with traditional video but that they are competing over a shrinking share of Americans' time.

The next-largest effect is on socializing and communicating. Each minute of online leisure time is correlated with 0.05 minutes less socializing in more traditional ways.

Social media has become among the most popular online activities. Survey data from the Pew Internet and American Life Project show that by 2012 nearly 70 percent of all Internet users had engaged in social media online and almost half had done so the day prior to being surveyed.

²¹ How OTT affects traditional TV is, of course, an important question that will affect the video delivery industry. Israel and Katz (2010) argue that Nielsen surveys and other data suggest online video complements traditional video because people watch online video to "catch up with programming or if the TV itself is unavailable." (Mark Israel and Michael Katz, *The Comcast/NBCU Transaction and Online Video Distribution*, May 4, 2010, para. 30.) Other data suggest the two are not complements. Subscription TV services lost a record number of subscribers in the second quarter of 2011 with estimates of the loss ranging from 380,000 to 450,000

^{(&}lt;u>http://www.usatoday.com/money/media/2011-08-10-cable-satellite_n.htm</u>). Liebowitz and Zentner (2009) examine econometrically the relationship between Internet penetration and TV watching, using data from 1997 through 2003. They find a small negative correlation between the two, suggesting that online video was substituting for TV watching, at least among younger people. Stan J Liebowitz and Alejandro Zentner, "Clash of the Titans: Does Internet Use Reduce Television Viewing?," *Review of Economics and Statistics, Forthcoming* (2009).

(Figure 13). Given the ubiquity of social media, it is not surprising that scholars in various fields have investigated whether social networking strengthened or weakened other social ties, though there does not appear to be consensus on the answer.²²



Figure 13: Share of Internet Users who Use Social Networking Sites

Source: Pew Internet and American Life Project http://www.pewinternet.org/Static-Pages/Trend-Data-(Adults)/Usage-Over-Time.aspx.

Previous studies have asked whether online social networking might crowd out other activities. Early studies, primarily during dialup days, were inconclusive,²³ though the relevance of that research to today's activities is questionable, given the changes in the Internet, its ubiquity, and the growing variety of social networking applications.

My results suggest a small crowding out effect of online leisure on offline socializing. Data from the ATUS show generally declining levels of offline socializing since 2003 (Figure 14).

²² See, for example, Barry Wellman et al., "Does the Internet Increase, Decrease, or Supplement Social Capital? : Social Networks, Participation, and Community Commitment," *American Behavioral Scientist* 45, no. 3 (November 2001): 436–455; Sebastián Valenzuela, Namsu Park, and Kerk F. Kee, "Is There Social Capital in a Social Network Site?: Facebook Use and College Students' Life Satisfaction, Trust, and Participation," *Journal of Computer-Mediated Communication* 14, no. 4 (2009): 875–901, doi:10.1111/j.1083-6101.2009.01474.x.

²³ Wellman et al., "Does the Internet Increase, Decrease, or Supplement Social Capital? : Social Networks, Participation, and Community Commitment," 439.



Figure 14: Minutes per Day Spent Socializing Offline

Source: Derived from ATUS.

My results also suggest that other offline leisure activities that involve interacting with other people are crowded out by online leisure: attending parties and attending cultural events and going to museums are all negatively correlated with online leisure. In short, these results based on ATUS data suggest that a cost of online activity is less time spent with other people.

Listening to the radio is also negatively and statistically significantly correlated, but the magnitude of the effect is quite small. Given the way the ATUS is coded, one might expect that if time spent listening to the radio is negatively correlated with online leisure that time spent listening to music but not on the radio would be positively correlated, not because listening to online streaming music would show up in the online leisure variable, but because people likely to engage in online leisure may also be likely to listen to streaming media. The coefficient is positive, but is not statistically significant.

Online leisure is statistically and positively correlated with one category of leisure: hobbies, although the magnitude is small. Each minute of online leisure is correlated with 0.004 minutes of doing hobbies. However, considering Americans spend, on average, only about two minutes a day on hobbies, the effect is not as small as it might seem based on the coefficient alone. A possible explanation for this effect is that the Internet has given people a way to find and interact with others who share their particular hobby interests. Similarly, the Internet is awash with instructional videos, product manuals, and other ways to get information about hobbies, and it is therefore not surprising to find a correlation between time spent doing hobbies and time online.

Conclusions

The amount of leisure time we spend online is increasing steadily as is the variety of activities available to do online. Translating this time into increased economic surplus is difficult, not just because many of these activities require no monetary payments, but because many online activities represent activities we already did but in a different form, and even brand new activities like social media come at the expense of activities we no longer do. Estimates of the

value of online time that do not take these factors into account will over-estimate the incremental economic surplus created by the Internet.

This paper does not estimate the net change in surplus, but uses data from the American Time Use Survey to estimate the extent to which new online activities crowd out other, offline, activities. I find that online leisure does crowd out other activities. In particular, some incremental online leisure comes primarily from offline leisure, work time, and sleep. Online time is also correlated with less time traveling, which should count as a benefit. Online leisure is also associated with less time engaged in educational activities, especially among younger people. The crowd out effect is sufficiently large that understanding the true economic effects of the Internet must take them into account.

This research is a small step forward in understanding the economic effects of the Internet. The data clearly show that time spent and the share of the population engaged in online leisure is increasing. The analyses suggest that new online activities come at least partly at the expense of less time doing other activities. Much, however, remains yet to be understood. While I control for a large number of relevant factors in the analyses, the relationships between online and offline time are correlations, meaning we cannot say definitively that an incremental minute translates into a tenth-of-a-minute less sleep. Perhaps, instead, when people suffer from bouts of insomnia they take to the Internet, either to look for insomnia cures or other ways of passing a sleepless night. Nevertheless, the analysis shows that online activities, even when free from monetary transactions, are not free from opportunity cost.

A next research step may be estimating the increase in economic surplus from new online activities net of the activities they replace, a la Robert Fogel's analyses of the true net economic effects of railroads. While such work is challenging, such an effort may be a worthwhile endeavor to counter much of the poorly-informed hyperbole that routinely emanates from policymakers

Appendix: Full Regression Results

Table 7: Goldfarb-Prince Two-Stage Replication Results

		Stage 1	Stage 2
Llama		96.70***	0.297***
Home	(7.989)	(9.285)	
L sisure T			
Leisure I	Leisure Time (Non-PCuse)		
	Income \$5k to \$7.4k	1.952*	0.00364
		(1.704)	(1.113)
	Income \$7.5k to \$9.9k	1.969*	0.00363
		(1.767)	(1.140)
	Income \$10k to \$12.4k	1.207	0.00307
		(1.200)	(1.067)
	Income \$12.5k to \$14.9k	1.551	0.00682**
		(1.518)	(2.328)
	Income \$15k to \$19.9k	1.064	0.00185
		(1.161)	(0.707)
	Income \$20k to \$24.9k	0.335	0.000912
		(0.365)	(0.347)
	Income \$25k to \$29.9k	0.0395	-0.00105
		(0.0404)	(-0.380)
Family Income (Income	Income \$30k to \$34.9k	-0.529	-0.00357
Less than \$5k excluded)		(-0.528)	(-1.250)
	Income \$35k to \$39.9k	-1.318	-0.00421
		(-1.243)	(-1.401)
	Income \$40k to \$49.9k	-1.538	-0.00428
		(-1.436)	(-1.420)
	Income \$50k to \$59.9k	-1.840	-0.00642*
		(-1.520)	(-1.879)
	Income \$60k to \$74.9k	-2.795**	-0.00927***
		(-2.319)	(-2.713)
	Income \$75k to 99.9k	-2.860**	-0.00872**
		(-2.276)	(-2.465)
	Income to \$100k to \$149.9k	-3.569***	-0.0101***
		(-2.647)	(-2.647)
	Income over \$150k	-3.579***	-0.0102***
		(-2.749)	(-2.765)
	-0.0250	-8.10e-05	
	· · · · · · · · · · · · · · · · · · ·	(-1.390)	(-1.523)
Gender (Female Evoluded)	Male	4.165***	0.00564***
		(17.97)	(8.460)
	Black	3.094***	0.00993***
Race (White Evoluded)		(4.597)	(5.366)
	American Indian, Alaskan Native	1.206	0.00814**
		(0.847)	(1.985)

IV Full Regression

Hawaiian/Pacific Islander (3.168) (5.961) White-Black 0.434 0.00762 White-Black 0.434 0.107 (0.440) (1.66) (1.561) White-American Indian -2.355* -0.00200 (4.1870) (-5.56) (-0.556) White-Asian 0.592 -0.0364) Black-American Indian 1.835 9.20e-05 Black-Asian (0.992) (-0.364) Black-Asian (0.446) (0.0127) (0.149) (0.332) American Indian-Asian (0.149) (0.332) American Indian-Asian (0.149) (0.332) American Indian-Asian (0.981) (0.149) (0.332) American Indian-Asian -9.900 0.000211 (-0.171) (0.00915) (-0.171) (0.981) (0.981) (-0.598) White-Black-American Indian-Asian 0.555 0.00224 (-0.0171) (0.0207) (-0.171) (0.0207) Z or 3 races 17.51 -0.0186		Asian	2.237***	0.0123***
Hawaian/Pacific Islander 1.126 (0.440) (1.046) White-Black (0.434) (0.10762) White-Asian (0.180) (1.561) White-Asian 8.055*** (0.0225***) White-Asian (0.556) (2.983) White-Asian (0.556) (2.983) White-Asian (0.592) -0.00280 (0.456) (0.00796) (0.456) (0.00796) Black-American Indian 1.935 9.20e-05 Black-Asian 6.924 0.0127 (0.456) (0.00796) (0.456) (0.00796) Black-Hawaiian 1.946 0.0121 (0.149) (0.149) (0.00915) (0.149) (0.00915) (0.981) (0.90915) (0.981) (0.981) (0.0915) (0.981) (0.1564) White-Black-American Indian-Asian 42.67*** 0.452** (0.0252) White-American Indian-Asian (4.272) (15.54) (0.277) White-Black-American Indian-Asian 0.555 0.00224 <			(3.168)	(5.961)
White-Black (0.440) (1.466) White-Black (0.180) (1.561) White-American Indian -2.355* 0.00226*** (1.870) (-0.556) 0.0225*** White-Hawaiian 0.592 -0.00866 White-Hawaiian 0.592 -0.00866 (0.0892) (-0.384) Black-American Indian 1.835 9.20e-05 (0.456) (0.00796) Black-Asian 6.924 0.0121 (0.456) (0.456) (0.00796) Black-Mearican Indian-Asian 4.917 0.0130 (0.149) (0.332) American Indian-Asian 4.917 0.0121 (0.149) (0.332) (-0.0121) (-0.0121) (-0.0121) White-Black-American Indian-Asian 4.917 0.0130 (0.00211) White-Black-American Indian-Asian 4.917 0.0232 (-0.0121) White-Black-American Indian-Asian 4.267*** 0.452*** (-0.00915) (0.136) (0.0247) 0.0826 (-0.02424) (-0.515) (-0.427) Marriage		Hawaiian/Pacific Islander	1.126	0.00762
White-Black 0.434 0.010/ (0.180) (1.561) White-American Indian -2.355* -0.00200 (1.1870) (0.180) (1.561) White-Asian 8.055*** 0.00225*** (3.076) (2.983) (2.983) White-Hawaiian 0.592 -0.00586 (0.456) (0.00796) 6.924 (0.456) (0.00796) 6.924 (0.456) (0.037) (0.332) American Indian-Asian 4.917 0.0136 (0.129) Asian-Hawaiian -0.900 0.000211 (0.136) (0.129) Asian-Hawaiian -0.900 0.000211 (0.136) (0.129) Asian-Hawaiian -0.900 0.000211 (0.136) (0.129) (1.51) (0.081) (0.588) White-Black-American Indian-Asian 42.67*** 0.0252 (1.54) White-Black-American Indian-Asian 0.555 0.00224 (0.0144) (0.0207) 2 or 3 races 17.51 -0.0186 (-0.6515)			(0.440)	(1.046)
White-American Indian -0.180 (1.380) White-Asian 8.055*** -0.00200 White-Asian 8.055*** 0.0225*** White-Hawaiian 0.592 -0.00686 White-Hawaiian 0.592 -0.00686 (0.456) (0.0992) (-0.364) Black-American Indian 1.835 9.20e-05 (0.456) (0.0796) (-0.456) Black-Asian (0.543) (0.327) Black-Hawaiian 1.946 0.0121 (0.136) (0.129) (0.332) American Indian-Asian 4.917 (0.00915) (0.136) (0.129) (0.032) American Indian-Asian 4.917 (0.00915) (0.981) (0.981) (0.0981) (0.981) (0.981) (0.981) (0.981) (0.981) (0.981) (0.981) (0.981) (0.207) White-Black-American Indian-Asian 42.67**** 0.0224 (0.0144) (0.0207) (0.0144) (0.0207)		White-Black	0.434	0.0107
White-American Indian -2.355 -0.00200 White-Asian (-1.870) (-0.556) White-Hawaiian 0.592 -0.00686 (0.0892) (-0.364) (-0.364) Black-American Indian 1.835 9.20e-05 (0.456) (0.00796) (0.00796) Black-Asian (0.924 0.0127 (0.543) (0.332) (0.332) American Indian-Asian 4.917 0.0130 (0.149) (0.332) (-0.00917) American Indian-Asian 4.917 0.0130 (-0.177) (0.00917) (-0.00917) White-Black-American Indian 5.416 0.00915 (0.981) (0.588) (-0.517) White-Asian-Hawaiian 12.87 0.452*** (1.502) (-0.444) (0.0207) 2 or 3 races 17.51 -0.0128 (1.502) (-0.444) (-0.247) Marriage Status (Single Married -0.719*** Karriage Status (Single Married -0.719***			(0.180)	(1.561)
White-Asian 8.055*** 0.0225*** White-Hawaiian 0.592 -0.00686 White-Hawaiian 0.592 -0.0686 Black-American Indian 1.835 9.20e-05 (0.456) (0.00796) 0.4563 Black-Asian 6.924 0.0127 (0.543) (0.357) 0.367 Black-Hawaiian 1.946 0.0121 (0.149) (0.332) 4.917 American Indian-Asian 4.917 0.0000 (0.136) (0.129) (0.0917) Mite-Black-American Indian-Asian (0.9117) (0.0917) White-American Indian-Asian (0.261) (0.0917) White-Black-American Indian-Asian (0.262) (1.251) White-Black-American Indian-Asian (1.251) (0.386) White-Black-American Indian-Asian (0.267) (1.251) Marriage Status (Single Married -0.895*** -0.00284** (0.0217) Spanish-Only Household (1.63* -0.0021 Matriage Status (Single Non-Metropolitan <td< td=""><td></td><td>white-American Indian</td><td>-2.355"</td><td>-0.00200</td></td<>		white-American Indian	-2.355"	-0.00200
White-Asian 6.053 0.0225 White-Hawaiian 0.592 -0.00686 (0.0892) (-0.364) 1.835 9.20e-05 (0.0456) (0.00796) 0.456) (0.00796) Black-Asian 6.924 0.0127 (0.456) (0.0357) 0.363 (0.357) Black-Hawaiian 1.946 0.0121 (0.149) (0.332) American Indian-Asian 4.917 0.0132 American Indian-Asian (0.149) (0.322) (-0.117) (0.00917) White-Black-American Indian 5.416 0.00917) (-0.117) (0.00917) White-American Indian-Asian 4.267*** 0.452*** (-0.458) (1.512) (0.588) (0.598) (0.598) White-Asian-Hawaiian 12.87 0.0252 (1.521) (0.856) (0.0144) (0.207) Metropolitan 12.87 0.0252 (1.502) (-0.4424) (0.0144) (0.2027) (0.0144) (0.2027) (0.2141) (0.227) <t< td=""><td></td><td></td><td>(-1.870)</td><td>(-0.556)</td></t<>			(-1.870)	(-0.556)
White-Hawaiian (3.076) (2.983) White-Hawaiian (0.592 -0.00686 (0.0892) (-0.364) Black-American Indian 1.835 9.20e-05 (0.456) (0.0796) Black-Asian (0.543) (0.327) (0.543) (0.327) (0.543) (0.327) Black-Hawaiian 1.946 0.0127 (0.136) (0.129) Asian-Hawaiian -0.900 0.000211 (0.00917) White-Black-American Indian-Asian 4.917 0.0130 (0.136) (0.129) (0.981) (0.598) White-American Indian-Asian (4.2772) (15.54) (1.554) (0.981) (0.598) 42.67*** 0.452*** (0.981) (0.981) (0.981) (0.981) (0.0144) (0.0207) (1.251) (0.855) 0.00224 (0.0144) (0.027) (1.51) (-0.480) (-0.427) Marriage Status (Single Married -0.895*** -0.00288*** Excluded)		white-Asian	8.055	(0.0225
Write-nawaitan 0.392 -0.00680 (0.0892) (-0.364) Black-American Indian 1.835 9.20e-05 (0.456) (0.00796) Black-Asian 6.924 0.0127 (0.543) (0.357) (0.543) (0.357) Black-Hawaiian 1.946 0.0121 (0.149) (0.332) (0.149) (0.332) American Indian-Asian 4.917 0.0130 (-0.117) (0.00917) (-0.117) (0.00917) White-Black-American Indian 5.416 0.00917) White-American Indian-Asian (0.555 0.00224 (0.117) (0.0598) (0.598) White-Black-American Indian-Asian (1.251) (0.856) White-Black-American Indian-Asian (2.57*** 0.422*** (0.0144) (0.0207) 2 or 3 races 17.51 -0.0186 Marriage Status (Single Married -0.895*** -0.00288*** -0.00288*** Keluded) Von-Metropolitan 0.665* 0.00219* (-4.426)		White Howeiian	(3.076)	(2.983)
Black-American Indian (0.0892) (-0.384) Black-American Indian 1.835 9.20e-05 Black-Asian 6.924 0.0127 0.5431 (0.357) 0.321 Black-Hawaiian 1.946 0.0121 0.1491 (0.332) 0.322 American Indian-Asian 4.917 0.0130 0.1301 (0.149) (0.321) American Indian-Asian 4.917 0.000011 White-Black-American Indian 5.416 0.00915 0.9801 0.05981 0.5981 White-American Indian-Asian 42.67*** 0.452*** White-Asian-Hawaiian 12.87 0.0252 (0.0144) (0.0207) 2 or 3 races 17.51 -0.0186 White-Black-American Indian-Asian (-0.515) (-0.427) -18.26 -0.0228*** White-Black-American Indian-Asian (-0.515) (-0.427) -18.26 -0.028*** White-Black-American Indian-Asian (-0.515) (-0.427) -1.06e-05 Marriage Status (Single Married		white-Hawallah	0.592	-0.00666
Black-Attretical initial 1.833 9.20e-0s Black-Asian (0.456) (0.00796) Black-Hawaiian (0.543) (0.357) Black-Hawaiian 1.946 0.0121 (0.136) (0.129) (0.332) American Indian-Asian 4.917 0.0136) (0.136) (0.129) (0.136) (0.129) Asian-Hawaiian -0.900 0.000211 (0.0917) White-Black-American Indian 5.416 0.0917) White-Black-American Indian-Asian 42.67*** 0.452*** (0.981) (0.598) (0.598) White-Asian-Hawaiian 12.87 0.0252 (0.0144) (0.0207) (0.121) (0.0144) (0.0207) (0.144) (0.0144) (0.2027) 2 or 3 races 17.51 -0.0186 (-0.515) (-0.427) Marriage Status (Single Married -0.719*** -0.00288*** Excluded) (-2.723) (-3.225) Number of Children Under Age 18 (-4.426) (-0.0247)<		Disel: American Indian	(0.0892)	(-0.364)
Black-Asian (0.435) (0.00796) Black-Asian 6.924 0.0127 (0.543) (0.357) (0.543) (0.357) Black-Hawaiian 1.946 0.0121 (0.136) (0.129) American Indian-Asian 4.917 0.0136) (0.129) Asian-Hawaiian -0.900 0.000211 (-0.117) (0.0917) White-Black-American Indian 5.416 0.00915 (-0.981) (0.598) White-American Indian-Asian 42.67*** 0.452*** (-0.0252) White-Black-American Indian-Asian 12.87 0.0252 (-0.117) (0.0144) (0.0207) Marriage Status (Single (-0.515) (-0.0241) (-0.0242) (-0.490) (-0.490) (-0.417) (-0.0242) (-0.0242) (-0.0242) (-0.0242) (-0.0242) (-0.215) (-0.420) (-0.217) (-0.217) (-0.217) (-0.215) (-0.421) (-0.225) (-0.421) (-0.225) (-0.421) (-0.421) (-0.225) (-0.217) (-0.217) (-0.215) (-0.421)		Black-American Indian	1.835	9.200-05
Black-Asian 0.012/ (0.543) 0.012/ (0.357) Black-Hawaiian 1.946 0.0121 (0.149) (0.332) American Indian-Asian 4.917 0.0136) (0.149) (0.129) (0.121) (0.129) (0.136) (0.129) (-0.117) (0.00011) (-0.117) (0.00011) (-0.117) (0.09017) White-Black-American Indian 5.416 (0.981) (0.598) White-American Indian-Asian (4.272) (1.554) (0.981) White-Asian-Hawaiian 12.87 (0.271) (0.0144) (0.0207) (0.0144) (0.0207) (0.0144) (0.0207) (0.0144) (0.0207) (0.0144) (0.0207) (0.0144) (0.0207) (0.0144) (0.0207) (0.0144) (0.0207) (0.0144) (0.0207) (0.0144) (0.0207) (0.0144) (0.0211) (0.0208)		Diask Asian	(0.456)	(0.00796)
Black-Hawaiian (0.343) (0.343) Black-Hawaiian 1.946 0.0121 (0.149) (0.332) American Indian-Asian 4.917 0.0130 (0.136) (0.129) Asian-Hawaiian -0.900 0.000211 (-0.117) (0.00917) White-Black-American Indian 5.416 0.00915 (0.981) (0.598) White-American Indian-Asian 42.67*** 0.452*** (1.251) (0.856) White-Asian-Hawaiian 12.87 0.0224 (0.0144) (0.0207) 2 or 3 races 17.51 -0.0186 (1.552) (-0.427) (-0.427) Marriage Status (Single Married -0.895*** -0.00288*** Kaces -18.26 -0.0424 -0.01424 (-0.515) (-0.427) (-0.5427) -0.02427 Marriage Status (Single Married -0.895*** -0.00288*** Number of Children Under Age 18 -0.719*** -1.06e-05 (Metropolitan Status		Black-Asian	6.924	0.0127
Diduk-Hawailan 1.946 0.0121 (0.149) (0.332) American Indian-Asian 4.917 0.0130 (0.149) (0.136) (0.129) Asian-Hawaiian -0.900 0.00211 (0.117) (0.00915) (0.90915) White-Black-American Indian 5.416 0.00214 (0.117) (0.90915) (0.598) White-American Indian-Asian 42.67*** 0.452*** (1.251) (0.856) (0.856) White-Black-American Indian-Asian 12.87 0.00224 (1.251) (0.856) (0.0144) (0.0207) 2 or 3 races 17.51 -0.0186 (1.502) (-0.490) (0.0144) (0.0207) (0.515) (-0.427) Marriage Status (Single Married -0.895*** -0.00288*** Excluded) (-2.723) (-3.225) (-3.225) Number of Children Under Age 18 -0.719*** -1.06e-05 (Metropolitan Status (Morined -0.665* 0.00195* Metropolita		Plack Howaiian	(0.543)	(0.357)
American Indian-Asian (0.139) (0.332) American Indian-Asian (4.917 0.0130 (0.136) (0.129) (0.136) (0.129) Asian-Hawaiian -0.900 0.000211 (-0.117) (0.00917) White-Black-American Indian 5.416 0.09915 (0.598) White-American Indian-Asian 42.67*** 0.452*** (4.272) (15.54) (1.251) (0.856) White-Black-American Indian-Asian 0.555 0.00222 (0.0144) (0.0207) 2 or 3 races 17.51 -0.0186 (1.502) (-0.490) 4 or 5 races -18.26 -0.0028*** -0.0028*** Marriage Status (Single Married -0.895*** -0.0028*** Kexcluded) (-2.723) (-3.225) (-0.427) Mumber of Children Under Age 18 -0.719*** -1.06e-05 (Metropolitan Status Non-Metropolitan 0.665* 0.00195* Metropolitan Excluded) Not Indentified -0.658 -0.00752* Education Level (Associate Degree at Academic		Diack-nawalian	1.940	0.0121
Attrendati initialit-Asian 4.917 0.0130 Asian-Hawaiian (0.136) (0.129) Asian-Hawaiian -0.900 0.000211 (-0.117) (0.00917) (0.981) (0.598) White-American Indian-Asian 5.416 0.00915 (0.981) (0.598) (0.981) (0.598) White-American Indian-Asian 42.67*** 0.452*** (4.272) (15.54) (1.251) (0.856) White-Black-American Indian-Asian 0.555 0.00224 (0.0144) (0.0207) (2 or 3 races 17.51 -0.0186 (1.502) (-0.490) (-0.490) (-0.515) (-0.424) (-0.515) (-0.427) (-0.515) (-0.427) Marriage Status (Single Married -0.895*** -0.0028*** (-2.723) (-3.225) (-3.225) (-3.225) Number of Children Under Age 18 -0.719*** -1.06e-05 (Metropolitan Status Non-Metropolitan 0.665* 0.00195* (Metropolitan Excluded) Not Indentified </td <td></td> <td>American Indian Asian</td> <td>(0.149)</td> <td>(0.332)</td>		American Indian Asian	(0.149)	(0.332)
Asian-Hawaiian -0.900 0.000211 -0.900 0.000211 (-0.117) (0.09917) White-Black-American Indian 5.416 0.0981) (0.598) White-American Indian-Asian 42.67*** 0.452***		American Indian-Asian	4.917	0.0130
Asian-Hawilian -0.500 0.000211 -0.500 0.000917) White-Black-American Indian 5.416 0.00917) White-American Indian-Asian 42.67*** 0.452*** White-Asian-Hawaiian 12.87 0.0252 (4.272) (15.54) 0.00211 White-Asian-Hawaiian 12.87 0.0252 (1.251) (0.886) 0.00224 (0.0144) (0.0207) 2 or 3 races 17.51 -0.0186 (1.502) (-0.427) (1.502) (-0.424) (-0.515) (-0.427) Marriage Status (Single Married -0.895*** Excluded) (-2.723) (-3.225) Number of Children Under Age 18 -0.719*** -1.06e-05 (-4.426) (-0.0247) 0.883* 0.00210 Spanish-Only Household (1.698) (1.446) Metropolitan Status Non-Metropolitan 0.665* 0.00752* Metropolitan Excluded) Not Indentified -0.658 -0.00250 Asso			(0.130)	(0.129)
White-Black-American Indian (-0.117) (0.00917) 5.416 0.00915 (0.981) (0.598) White-American Indian-Asian 42.67*** 0.452*** White-Asian-Hawaiian 12.87 0.0252 (1.251) (0.856) (0.0144) (0.0207) 2 or 3 races 17.51 -0.0186 (1.502) (-0.490) 17.51 -0.0186 (1.502) (-0.490) (-0.515) (-0.427) Marriage Status (Single Married -0.895*** -0.00288*** Excluded) (-2.723) (-3.225) -0.719*** -1.06e-05 Number of Children Under Age 18 (-0.719*** -1.06e-05 (-4.426) (-0.0247) Spanish-Only Household (1.698) (1.446) 0.665* 0.00195* Metropolitan Status (Metropolitan Excluded) Not Indentified -0.658 -0.00752* Gueration Level (Associate School -0.0396 -0.00250 Begree at Academic School -0.0396 -0.00280 School Excluded) <t< td=""><td></td><td>Asian-nawalian</td><td>-0.900</td><td>(0.000211)</td></t<>		Asian-nawalian	-0.900	(0.000211)
Write-Brack-Arrencan Indian 5.4416 0.00913 White-American Indian-Asian (0.981) (0.598) White-American Indian-Asian 42.67*** 0.452*** White-Asian-Hawaiian 12.87 0.0252 Indian-Asian (1.251) (0.886) White-Black-American Indian-Asian 0.555 0.00224 (0.0144) (0.0207) (1.502) (-0.490) 2 or 3 races 17.51 -0.0186 (1.502) (-0.490) -18.26 -0.0424 (-0.515) (-0.427) -0.895*** -0.00288*** Marriage Status (Single Married -0.895*** -0.00288*** Excluded) (-6.1dren Under Age 18 (-2.723) (-3.225) Number of Children Under Age 18 (-4.426) (-0.0247) Spanish-Only Household (1.698) (1.446) 0.665* 0.00195* -0.658 -0.00752* Metropolitan Status Not Indentified -0.658 -0.00752* Metropolitan Excluded) Not Indentified -0.0396 -0.00250		White Block American Indian	(-0.117)	(0.00917)
White-American Indian-Asian (0.581) (0.581) White-American Indian-Asian 42.67*** 0.452*** White-Asian-Hawaiian 12.87 0.0252 (1.251) (0.856) (0.0144) (0.0207) (1.502) (-0.490) (1.502) (-0.490) 2 or 3 races 17.51 -0.0186 (1.502) (-0.490) 4 or 5 races -18.26 -0.0424 (-0.515) (-0.427) Marriage Status (Single Married -0.895*** -0.00288*** Excluded) (-2.723) (-3.225) -0.719*** -1.06e-05 Number of Children Under Age 18 (-4.426) (-0.0247) 0.883* 0.00210 Spanish-Only Household (1.698) (1.446) 0.883* 0.00210 Metropolitan Status Not Indentified -0.658 -0.00752* Metropolitan Excluded) Not Indentified -0.658 -0.00752* Education Level (Associate Degree at Vocational Degree at Academic School -0.0396 -0.00250 School Excluded) Bachelor's Degree -4.009***		White-Black-American Indian	0.081	0.00915
White-Aniencal Indian-Asian 42.37 0.422 White-Asian-Hawaiian (4.272) (15.54) White-Asian-Hawaiian 12.87 0.0252 (1.251) (0.856) (0.0144) (0.0207) 2 or 3 races 17.51 -0.0186 (1.502) (-0.490) (1.502) (-0.490) 4 or 5 races -18.26 -0.0424 (-0.515) (-0.427) (-0.515) (-0.427) Marriage Status (Single Married -0.895*** -0.00288*** Excluded) (-2.723) (-3.225) (-3.225) Number of Children Under Age 18 -0.719*** -1.06e-05 (-4.426) (-0.0247) 0.883* 0.00210 Spanish-Only Household 0.883* 0.00210 (1.698) (1.446) 0.665* 0.00195* Metropolitan Status Not Indentified -0.658 -0.00752* (Metropolitan Excluded) Not Indentified -0.638 -0.00752* Education Level (Associate Degree at Vocational School -0.0396 -0.00250		White American Indian Asian	(0.901)	(0.390)
White-Asian-Hawaiian 12.87 0.0252 (1.251) (0.856) White-Black-American Indian-Asian 0.555 0.00224 (0.0144) (0.0207) 2 or 3 races 17.51 -0.0186 (1.502) (-0.490) 4 or 5 races -18.26 -0.0424 (-0.515) (-0.427) Marriage Status (Single Married -0.895*** Excluded) (-2.723) (-3.225) Number of Children Under Age 18 -0.719*** -1.06e-05 (-4.426) (-0.0247) 0.883* 0.00210 Spanish-Only Household 0.865* 0.00195* Metropolitan Status Non-Metropolitan 0.665* 0.00195* (Metropolitan Excluded) Not Indentified -0.658 -0.00752* Education Level (Associate School -0.0396 -0.00250 Degree at Academic School -0.0396 -0.00250 School Excluded) Bachelor's Degree -4.009*** -0.00980****		White-American Indian-Asian	42.07	(15 54)
White-Astain Hawaian 12.87 0.0222 (1.251) (0.856) White-Black-American Indian-Asian 0.555 0.00224 (0.0144) (0.0207) 2 or 3 races 17.51 -0.0186 (1.502) (-0.490) 4 or 5 races -18.26 -0.0424 (-0.515) (-0.427) Marriage Status (Single Married -0.895*** Excluded) (-2.723) (-3.225) Number of Children Under Age 18 -0.719*** -1.06e-05 Spanish-Only Household 0.665* 0.00210 (1.698) (1.446) 0.665* 0.00195* Metropolitan Status (1.767) (1.875) (-0.476) (-1.895) Metropolitan Excluded) Not Indentified -0.658 -0.00752* Gueation Level (Associate Degree at Vocational School -0.0396 -0.00250 Degree at Academic School School -0.00980*** -0.00980*** School Excluded) Bachelor's Degree -4.009*** -0.00980***		White Asian Hawaijan	(4.272)	(15.54)
White-Black-American Indian-Asian (1.231) (0.030) White-Black-American Indian-Asian 0.555 0.00224 (0.0144) (0.0207) 2 or 3 races 17.51 -0.0186 (1.502) (-0.490) 4 or 5 races -18.26 -0.0424 (-0.515) (-0.427) Marriage Status (Single Married -0.895*** Excluded) (-2.723) (-3.225) Number of Children Under Age 18 -0.719*** -1.06e-05 Spanish-Only Household 0.665* 0.00210 Spanish-Only Household (1.698) (1.446) Metropolitan Status (1.767) (1.875) (Metropolitan Excluded) Not Indentified -0.658 -0.00752* Education Level (Associate Degree at Vocational Degree at Academic School -0.0396 -0.00250 School Excluded) Bachelor's Degree -4.009*** -0.00980***		White-Asian-Hawalian	12.07	0.0252
Write-Diack-Artificial Hudian-Asian 0.0053 0.00224 0.0144) (0.0207) 17.51 -0.0186 (1.502) (-0.490) 4 or 5 races -18.26 -0.00288*** -0.00288*** Excluded) (-2.723) Marriage Status (Single Married Excluded) (-2.723) Number of Children Under Age 18 (-0.719*** Spanish-Only Household (1.698) Metropolitan Status (1.767) (Metropolitan Excluded) Not Indentified -0.658 -0.00752* (-0.476) (-1.895) Associate Degree at Vocational -0.0396 Degree at Academic School School Excluded) Bachelor's Degree -4.009*** -0.00980***		White-Black-American Indian-Asian	0.555	(0.000)
2 or 3 races (0.0144) (0.0207) 2 or 3 races 17.51 -0.0186 (1.502) (-0.490) 4 or 5 races -18.26 -0.0424 (-0.515) (-0.427) Marriage Status (Single Married -0.895*** -0.00288*** Excluded) (-2.723) (-3.225) Number of Children Under Age 18 (-4.426) (-0.0247) Spanish-Only Household 0.883* 0.00210 Metropolitan Status (1.698) (1.446) Metropolitan Excluded) Not Indentified -0.6558 -0.00752* Education Level (Associate Degree at Academic School Excluded) Associate Degree at Vocational School Excluded) -0.0396 -0.00250 Bachelor's Degree -4.009*** -0.00980*** -0.00980***		White-Diack-American Indian-Asian	(0.0505)	(0.00224
Z of 3 faces 17.31 -0.0100 Image Status (Single (1.502) (-0.490) Marriage Status (Single Married -0.895*** -0.00288*** Excluded) (-2.723) (-3.225) (-3.225) Number of Children Under Age 18 (-4.426) (-0.0247) Spanish-Only Household (1.698) (1.446) Metropolitan Status (Metropolitan Excluded) Non-Metropolitan 0.665* 0.00195* Metropolitan Excluded) Not Indentified -0.658 -0.00752* Education Level (Associate Degree at Vocational Degree at Academic School Excluded) Associate Degree -0.0396 -0.00250 Bachelor's Degree -4.009*** -0.00980**** -0.00980***		2 or 3 races	(0.0144)	(0.0207)
4 or 5 races -18.26 -0.0424 Marriage Status (Single Married -0.895*** -0.00288*** Excluded) (-2.723) (-3.225) -0.719*** -1.06e-05 Number of Children Under Age 18 (-4.426) (-0.0247) -0.0228*** Spanish-Only Household 0.883* 0.00210 (1.698) (1.446) Metropolitan Status Non-Metropolitan 0.665* 0.00195* Metropolitan Excluded) Not Indentified -0.658 -0.00752* Education Level (Associate School -0.0396 -0.00250 Degree at Academic School -0.00421 -1.062) School Excluded) Bachelor's Degree -4.009*** -0.00980***		2 01 3 laces	(1.502)	-0.0180
A dit Strates -10.20 -0.0424 Image Status (Single Excluded) Married (-0.515) (-0.427) Marriage Status (Single Excluded) Married -0.895*** -0.00288*** Number of Children Under Age 18 (-2.723) (-3.225) Spanish-Only Household (-4.426) (-0.0247) Spanish-Only Household 0.883* 0.00210 Metropolitan Status (Metropolitan Excluded) Non-Metropolitan 0.665* 0.00195* Metropolitan Excluded) Not Indentified -0.658 -0.00752* Associate Degree at Vocational Degree at Vocational School -0.0396 -0.00250 Metropoli Excluded) Bachelor's Degree -4.009*** -0.00980****		4 or 5 races	(1.302)	-0.0430)
Marriage Status (Single Excluded) Married -0.895*** -0.00288*** Marriage Status (Single Excluded) Married -0.895*** -0.00288*** Number of Children Under Age 18 (-2.723) (-3.225) Number of Children Under Age 18 -0.719*** -1.06e-05 Spanish-Only Household (-4.426) (-0.0247) Spanish-Only Household 0.883* 0.00210 Metropolitan Status (Metropolitan Excluded) Non-Metropolitan 0.665* 0.00195* Metropolitan Excluded) Not Indentified -0.658 -0.00752* Education Level (Associate Degree at Academic School Excluded) Associate Degree at Vocational School Excluded) -0.0396 -0.00250 Bachelor's Degree -4.009*** -0.00980**** -0.00980****		4 01 5 Taces	-10.20	(-0.424)
Marriage Status (Single Excluded) Married -0.055 -0.00206 Excluded) (-2.723) (-3.225) -0.719*** -1.06e-05 Number of Children Under Age 18 (-4.426) (-0.0247) 0.883* 0.00210 Spanish-Only Household (1.698) (1.446) (1.446) (1.446) Metropolitan Status (Metropolitan Excluded) Non-Metropolitan 0.665* 0.00195* Metropolitan Excluded) Not Indentified -0.658 -0.00752* Education Level (Associate Degree at Academic School School -0.0396 -0.00250 School Excluded) Bachelor's Degree -4.009*** -0.00980****	Marriaga Status (Single	Married	-0.805***	-0.00288***
Number of Children Under Age 18 -0.719*** -1.06e-05 Spanish-Only Household 0.883* 0.00210 Metropolitan Status (Metropolitan Excluded) Non-Metropolitan 0.665* 0.00195* Metropolitan Excluded) Not Indentified -0.658 -0.0752* Metropolitan Excluded) Not Indentified -0.658 -0.00752* Metropolitan Excluded) Not Indentified -0.0396 -0.00250 Metropolitan Level (Associate Degree at Academic School School -0.0396 -0.00250 Metropolitan Level (Associate Degree at Academic Bachelor's Degree -4.009*** -0.00980*** Metropolitan Level (Associate Metropolitan -0.014) (-4.413)	Marriage Status (Single Excluded)	Married	-0.093	-0.00200
Number of Children Under Age 18 0.110 1.000 00 Spanish-Only Household (-4.426) (-0.0247) Spanish-Only Household 0.883* 0.00210 Metropolitan Status (1.698) (1.446) Metropolitan Status (1.767) (1.875) (Metropolitan Excluded) Not Indentified -0.658 -0.00752* Metropolitan Excluded) Associate Degree at Vocational (-0.476) (-1.895) Education Level (Associate School -0.0396 -0.00250 Degree at Academic (-0.0482) (-1.062) -0.00980*** School Excluded) Bachelor's Degree -4.009*** -0.00980***			(-2.723) -0 719***	-1.06e-05
Spanish-Only Household 0.883* 0.00210 Metropolitan Status Non-Metropolitan 0.665* 0.00195* Metropolitan Status 1.767) (1.875) (Metropolitan Excluded) Not Indentified -0.658 -0.00752* Associate Degree at Vocational -0.0396 -0.00250 Degree at Academic School -0.0396 -0.00250 School Excluded) Bachelor's Degree -4.009*** -0.00980****	Number of C	hildren Under Age 18	(-4 426)	(-0.0247)
Spanish-Only Household 0.005 0.00210 Metropolitan Status (Metropolitan Excluded) Non-Metropolitan 0.665* 0.00195* Metropolitan Excluded) Not Indentified -0.658 -0.00752* Metropolitan Excluded) Not Indentified -0.658 -0.00752* Metropolitan Excluded) Associate Degree at Vocational -0.0396 -0.00250 Metropolitan Level (Associate Degree at Academic School -0.0396 -0.00250 -0.00250 Metropolitan Excluded) Bachelor's Degree -4.009*** -0.00980***			0.883*	0.00247
Metropolitan Status (Metropolitan Excluded) Non-Metropolitan 0.665* 0.00195* Metropolitan Excluded) Not Indentified -0.658 -0.00752* Metropolitan Excluded) Not Indentified -0.658 -0.00752* Metropolitan Excluded) Associate Degree at Vocational -0.0396 -0.00250 Metropolitan Excluded) Bachelor's Degree -4.009*** -0.00980***	Spanish	-Only Household	(1.698)	(1 446)
Metropolitan Status (Metropolitan Excluded) Not Indentified 0.0005 0.000193 Metropolitan Excluded) Not Indentified -0.658 -0.00752* Metropolitan Excluded) Not Indentified -0.658 -0.00752* Metropolitan Excluded) Associate Degree at Vocational -0.0396 -0.00250 Degree at Academic School -0.0482) (-1.062) School Excluded) Bachelor's Degree -4.009*** -0.00980***		Non-Metropolitan	(1.050)	0.00195*
Metropolitan Excluded) Not Indentified -0.658 -0.00752* (Metropolitan Excluded) Associate Degree at Vocational (-0.476) (-1.895) Education Level (Associate Degree at Academic School -0.0396 -0.00250 School Excluded) Bachelor's Degree -4.009*** -0.00980***	Metropolitan Status		(1 767)	(1.875)
Interindentied 0.000 0.00102 Interindentied (-0.476) (-1.895) Associate Degree at Vocational Degree at Academic School Excluded) -0.0396 -0.00250 Bachelor's Degree -4.009*** -0.00980*** (-5.014) (-4.413)	(Metropolitan Excluded)	Not Indentified	-0.658	-0.00752*
Education Level (Associate Degree at Academic SchoolAssociate Degree at Vocational School-0.0396-0.00250(-0.0482)(-1.062)(-1.062)Bachelor's Degree-4.009***-0.00980***(-5.014)(-4.413)			(-0.476)	(-1.895)
Education Level (Associate Degree at Academic School Excluded) School -0.0396 -0.00250 Bachelor's Degree -4.009*** -0.00980*** (-5.014) (-4.413)		Associate Degree at Vocational	(0.470)	(1.000)
Degree at Academic School Excluded) (-0.0482) (-1.062) Bachelor's Degree -4.009*** -0.00980*** (-5.014) (-4.413)	Education Level (Associate	School	-0.0396	-0.00250
School Excluded) Bachelor's Degree -4.009*** -0.00980*** (-5.014) (-4.413)	Degree at Academic		(-0.0482)	(-1.062)
(-5.014) (-4.413)	School Excluded)	Bachelor's Degree	-4.009***	-0.00980***
		<u>_</u>	(-5.014)	(-4.413)

	Doctoral Degree	-5.577***	-0.0114***
		(-3.810)	(-2.761)
	Grade 6 or Less	3.447**	0.0120***
		(2.078)	(2.579)
	Grade 6 to 9	2.025**	0.00790***
		(2.161)	(2.905)
	High School Graduate	1.784**	0.00317
	Correct link Oak and No Distance	(2.157)	(1.326)
	Some High School, No Diploma	3.438***	0.00971***
	Mastaria Dagraa	(3.895)	(3.822)
	Master's Degree	-5.923	-0.0165
	Brofossional Dagras	(-0.209)	(-3.293) 0.0116***
	Professional Degree	-2.937	-0.0110
	Some College No Degree	0.0929	(-3.202)
	Some College, No Degree	(0.132)	-0.00255
	Employed-absent	2 000***	-0.00690***
		(3.511)	-0.00090
	I Inemployed - on layoff	(3.311)	-0.0151***
Labor Force Status	Onemployed - on layon	(-0.914)	-0.0131
(Employed - at work		2 365*	-0.0121***
excluded)		(1 784)	-0.0121 (-3 760)
	Not in labor force	2 197**	-0.00896***
		(2.068)	(-3 699)
	2004	0 488	0.00226
	2004	(0.965)	(1.572)
	2005	-0 478	-0.00107
		(-0.918)	(-0.728)
	2006	-1.865***	-0.00654***
		(-3.312)	(-4.124)
	2007	-1.918***	-0.00519***
		(-3.336)	(-3.217)
Year (2003 Excluded)	2008	-2.417***	-0.00611***
		(-3.868)	(-3.531)
	2009	-2.862***	-0.00857***
		(-4.061)	(-4.364)
	2010	-0.410	-0.000787
		(-0.639)	(-0.434)
	2011	0.410	0.00263
		(0.583)	(1.312)
	Monday	-2.567***	0.00283**
		(-5.939)	(2.154)
	Tuesday	-3.293***	0.000966
Diary Day (Sunday		(-7.535)	(0.724)
Excluded)	Wednesday	-4.578***	-0.000141
		(-9.908)	(-0.0950)
	Thursday	-3.374***	-0.00122
		(-7.575)	(-0.887)

	Friday	-0.776*	0.00376***
		(-1.744)	(3.117)
Saturday		0.225	0.00122
		(0.513)	(0.985)
Constant		0.735	-0.00260
		(0.354)	(-0.496)
OI	oservations	110,819	106,869
R-squared		0.173	0.227
	*** p<0.01, ** p<0.05, * p<0.1		

	Big Categories Crowdout Full Regressions (Level Effects)																	
		Personal Leisure (no PCuse)	Personal Care (inc. Sleep)	Househol d Activities	Helping Househol d Members	Helping Non- Household Members	Work Activities	Educatio n	Consumer Purchases	Professio nal Care Services	Househol d Services	Governme nt and Civic Obligations	Eating and Drinking	Religious Activities	Volunteer ing	Phone Calls	Travel	Unknown
Computer Lise fo	r laisura (ava. Gamas)	293***	121***	0667***	0368***	0232***	268***	0574***	.00368	00360*	00129	000177	0254***	0146***	0120***	.0134***	0969***	0141***
Computer Ose to	i leisule (exc. Gailles)	(-22.34)	(-12.36)	(-7.149)	(-7.589)	(-6.763)	(-19.38)	(-8.560)	(1.025)	(-1.896)	(-1.583)	(-0.303)	(-6.991)	(-5.758)	(-3.503)	(7.433)	(-17.36)	(-4.080)
	Employed-absent	105.9***	46.91***	44.93***	20.74***	3.374***	-264.0***	5.028***	8.652***	4.053***	0.133	0.662***	5.213***	-0.404	-0.195	2.363***	16.73***	3.449***
		(30.91)	(18.30)	(18.46)	(16.39)	(3.773)	(-73.22)	-2.873	(9.236)	(8.175)	(0.625)	(4.337)	(5.493)	(-0.609)	(-0.219)	(5.012)	(11.47)	(3.829)
	Unemployed - on layoff	136.5***	63.97***	70.75***	20.65***	8.136***	-311.1***	2.726	6.229**	2.623*	0.0738	-1.995***	-2.010	-0.0631	-3.124	2.983**	-5.642	10.07***
Labor Force Status		(13.58)	(8.505)	(9.906)	(5.562)	(3.100)	(-29.41)	-0.531	(2.266)	(1.803)	(0.118)	(-4.451)	(-0.722)	(-0.0325)	(-1.192)	(2.157)	(-1.319)	(3.810)
excluded)	Unemployed - looking	146.7***	59.30***	41.57***	17.20***	8.424***	-288.8***	23.31***	3.028	-0.173	0.349	-0.683**	-11.18***	0.308	-1.094	5.219***	-9.159***	5.210**
		(18.94)	(10.24)	(7.557)	(6.016)	(4.168)	(-35.44)	-5.894	(1.430)	(-0.155)	(0.724)	(-1.978)	(-5.211)	(0.205)	(-0.542)	(4.899)	(-2.780)	(2.560)
	Not in labor force	161.7***	69.37***	26.50***	22.76***	3.378*	-315.9***	40.78***	0.543	2.217**	0.267	-1.673***	-4.610**	1.585	-1.200	3.379***	-13.98***	4.512**
		(21.66)	(12.42)	(4.998)	(8.257)	(1.734)	(-40.22)	-10.7	(0.266)	(2.053)	(0.575)	(-5.029)	(-2.230)	(1.098)	(-0.616)	(3.291)	(-4.404)	(2.299)
	Income \$5k to \$7.4k	21.05***	14.23***	-3.971	3.367*	0.0240	1.944	-17.76***	-3.977***	1.640**	0.0722	-0.138	-6.255***	-0.565	-1.771	0.793	-5.847***	0.411
		(3.962)	(3.582)	(-1.052)	(1.717)	(0.0173)	(0.348)	(-6.546)	(-2.739)	(2.133)	(0.219)	(-0.585)	(-4.252)	(-0.549)	(-1.279)	(1.085)	(-2.587)	(0.294)
	Income \$7.5k to \$9.9k	29.18***	3.984	-7.283**	2.908	-1.160	-0.870	-12.90***	-1.614	2.215***	-0.396	-0.757***	-4.883***	0.754	-3.283**	0.859	-5.169**	1.282
		(5.634)	(1.028)	(-1.980)	(1.521)	(-0.858)	(-0.160)	(-4.878)	(-1.140)	(2.957)	(-1.230)	(-3.281)	(-3.405)	(0.752)	(-2.432)	(1.205)	(-2.346)	(0.942)
	Income \$10k to \$12.4k	23.46***	-5.226	-6.276*	-2.311	0.970	11.27**	-12.13***	-0.615	1.543**	-0.399	-0.382*	-1.827	-0.931	-3.076**	2.593***	-3.210	1.149
		(4.978)	(-1.482)	(-1.874)	(-1.328)	(0.788)	(2.273)	(-5.040)	(-0.478)	(2.262)	(-1.362)	(-1.817)	(-1.400)	(-1.021)	(-2.503)	(3.999)	(-1.601)	(0.927)
	Income \$12.5k to \$14.9k	15.37***	-9.805***	-4.284	-2.347	-0.528	8.457*	-1.969	-0.533	1.235*	-0.236	-0.788***	-1.346	-1.001	-3.101**	2.311***	2.138	2.757**
		(3.173)	(-2.707)	(-1.245)	(-1.313)	(-0.418)	(1.660)	(-0.796)	(-0.403)	(1.763)	(-0.785)	(-3.650)	(-1.004)	(-1.069)	(-2.457)	(3.470)	(1.038)	(2.166)
	Income \$15k to \$19.9k	7.753*	-7.851**	-4.083	-3.373**	0.919	9.698**	-3.401	1.753	0.210	-0.209	-0.829***	-1.086	-0.158	-1.966*	2.980***	1.255	3.134***
		(1.779)	(-2.408)	(-1.319)	(-2.096)	(0.808)	(2.115)	(-1.528)	(1.472)	(0.333)	(-0.771)	(-4.269)	(-0.900)	(-0.188)	(-1.731)	(4.971)	(0.677)	(2.736)
Family Income	Income \$20k to \$24.9k	0.706	-9.827***	-1.831	-5.744***	0.285	15.22***	-1.303	1.932*	1.142*	0.220	-0.835***	1.385	-0.107	-1.590	2.202***	1.428	1.270
\$5k excluded)		(0.168)	(-3.115)	(-0.611)	(-3.690)	(0.259)	(3.430)	(-0.605)	(1.676)	(1.872)	(0.840)	(-4.441)	(1.186)	(-0.132)	(-1.447)	(3.797)	(0.796)	(1.146)
	Income \$25k to \$29.9k	1.969	-7.800**	-3.615	-6.278***	0.743	8.038*	2.008	3.489***	1.094*	-0.277	-0.650***	1.650	-0.776	-1.996*	3.767***	2.930	0.489
		(0.469)	(-2.486)	(-1.214)	(-4.055)	(0.679)	(1.822)	-0.938	(3.043)	(1.804)	(-1.062)	(-3.477)	(1.421)	(-0.956)	(-1.826)	(6.531)	(1.642)	(0.444)
	Income \$30k to \$34.9k	3.607	-16.99***	-1.217	-8.085***	-0.138	17.48***	0.857	1.855	0.816	-0.123	-0.751***	1.868	-0.507	-0.514	2.532***	1.854	0.901
		(0.862)	(-5.428)	(-0.409)	(-5.234)	(-0.126)	(3.971)	-0.401	(1.622)	(1.348)	(-0.471)	(-4.029)	(1.612)	(-0.627)	(-0.471)	(4.399)	(1.041)	(0.819)
	Income \$35k to \$39.9k	-1.333	-15.93***	-3.895	-7.622***	0.441	14.33***	4.076*	3.193***	1.358**	0.111	-0.905***	2.127*	-0.455	-0.988	3.178***	4.297**	1.413
		(-0.315)	(-5.028)	(-1.294)	(-4.873)	(0.399)	(3.215)	-1.884	(2.757)	(2.217)	(0.423)	(-4.796)	(1.813)	(-0.555)	(-0.895)	(5.453)	(2.384)	(1.269)
	Income \$40k to \$49.9k	-4.452	-22.95***	-2.873	-7.498***	0.259	19.90***	7.247***	2.223**	1.315**	0.0391	-0.698***	3.437***	-0.442	-0.194	3.748***	4.890***	1.747*
		(-1.104)	(-7.610)	(-1.003)	(-5.038)	(0.246)	(4.692)	-3.52	(2.017)	(2.255)	(0.156)	(-3.883)	(3.079)	(-0.567)	(-0.184)	(6.758)	(2.851)	(1.649)
	Income \$50k to \$59.9k	-6.031	-22.28***	-0.285	-9.678***	0.136	17.63***	8.035***	1.828*	2.161***	0.203	-0.845***	2.578**	-0.876	-0.133	3.210***	8.007***	-0.247
		(-1.488)	(-7.350)	(-0.0991)	(-6.469)	(0.128)	(4.135)	-3.883	(1.650)	(3.686)	(0.806)	(-4.677)	(2.297)	(-1.117)	(-0.126)	(5.759)	(4.644)	(-0.231)

Table 8: Full Regresson Results, Major Activitiy Categories

	Income \$60k to \$74.9k	-8.665**	-21.01***	-2.953	-9.623***	1.005	17.66***	11.23***	2.098*	1.696***	0.0394	-0.632***	3.206***	-1.129	0.999	3.123***	7.110***	0.531
		(-2.164)	(-7.016)	(-1.039)	(-6.511)	(0.962)	(4.191)	-5.494	(1.917)	(2.930)	(0.159)	(-3.542)	(2.892)	(-1.458)	(0.957)	(5.671)	(4.175)	(0.505)
	Income \$75k to 99.9k	-11.97***	-23.30***	-4.078	-10.35***	-0.703	15.61***	16.51***	2.919***	1.602***	0.317	-0.810***	3.985***	-2.130***	1.961*	3.275***	10.40***	1.006
		(-3.024)	(-7.863)	(-1.450)	(-7.079)	(-0.680)	(3.747)	-8.165	(2.696)	(2.797)	(1.287)	(-4.592)	(3.634)	(-2.782)	(1.899)	(6.012)	(6.171)	(0.967)
	Income to \$100k to \$149.9k	-11.56***	-27.41***	-2.585	-10.52***	-0.778	15.41***	19.63***	3.091***	1.642***	0.140	-0.963***	4.794***	-2.410***	1.186	3.064***	11.53***	-0.159
		(-2.812)	(-8.919)	(-0.886)	(-6.934)	(-0.725)	(3.565)	-9.354	(2.752)	(2.762)	(0.547)	(-5.261)	(4.213)	(-3.033)	(1.107)	(5.420)	(6.594)	(-0.147)
	Income over \$150k	-19.08***	-31.01***	-7.454**	-10.37***	-0.404	14.41***	26.04***	2.573**	1.800***	0.538**	-1.001***	9.290***	-3.361***	2.319**	3.026***	15.67***	1.271
		(-4.394)	(-9.546)	(-2.416)	(-6.465)	(-0.356)	(3.153)	-11.74	(2.167)	(2.865)	(1.991)	(-5.172)	(7.725)	(-4.002)	(2.049)	(5.066)	(8.483)	(1.113)
	A	1.248***	-0.590***	1.132***	-0.568***	0.00146	-0.139***	-1.621***	-0.0143	0.0652***	0.0172***	0.00266	0.290***	0.128***	0.101***	-0.0112**	-0.308***	0.0390***
	Age	(31.75)	(-20.08)	(40.56)	(-39.16)	(0.143)	(-3.361)	(-80.78)	(-1.335)	(11.47)	(7.036)	(1.516)	(26.68)	(16.81)	(9.862)	(-2.069)	(-18.41)	(3.776)
Gender (Female	Male	54.72***	-14.53***	-47.96***	-16.36***	-2.123***	28.94***	4.470***	-9.800***	-2.274***	0.224***	0.134**	3.846***	-1.872***	-0.500	-4.566***	0.948*	-0.357
Excluded)		(46.16)	(-16.39)	(-56.96)	(-37.38)	(-6.862)	(23.20)	-7.384	(-30.25)	(-13.26)	(3.044)	(2.528)	(11.72)	(-8.166)	(-1.618)	(-28.00)	(1.880)	(-1.147)
Marriago Statua	Married	-18.90***	-11.68***	27.83***	23.73***	1.307***	4.749***	-21.24***	3.780***	-0.441**	0.0997	-0.0759	2.544***	1.455***	0.830**	-3.270***	1.453***	-0.434
(Single Excluded)		(-14.92)	(-12.32)	(30.93)	(50.75)	(3.953)	(3.563)	(-32.83)	(10.92)	(-2.409)	(1.266)	(-1.344)	(7.252)	(5.938)	(2.513)	(-18.77)	(2.696)	(-1.305)
	Black	16.37***	19.57***	-28.41***	-4.593***	-0.732	5.012***	-4.280***	-3.282***	1.402***	-0.134	0.0599	-16.30***	8.493***	0.508	3.956***	0.734	-0.949**
		(9.388)	(15.01)	(-22.94)	(-7.137)	(-1.609)	(2.732)	(-4.808)	(-6.887)	(5.561)	(-1.237)	(0.772)	(-33.76)	(25.19)	(1.118)	(16.50)	(0.990)	(-2.072)
	American Indian, Alaskan Native	4.198	-6.344	-7.275*	-1.261	4.041**	12.06*	-12.41***	1.097	-0.530	-0.210	0.430	-4.216**	2.708**	-1.500	-1.414*	7.786***	-0.741
		(0.688)	(-1.390)	(-1.678)	(-0.560)	(2.537)	(1.878)	(-3.980)	(0.658)	(-0.600)	(-0.555)	(1.581)	(-2,495)	(2.295)	(-0.943)	(-1.685)	(2.999)	(-0.462)
	Asian	-23.95***	9.722***	-8.580***	0.981	-2.652***	10.66***	19.16***	-1.161	-0.931**	-0.105	-0.297**	8.623***	2.906***	-5.321***	-0.868**	-2.508*	-3.363***
		(-7.765)	(4.214)	(-3.917)	(0.862)	(-3,294)	(3.284)	-12.17	(-1.378)	(-2.087)	(-0.549)	(-2.160)	(10.10)	(4.872)	(-6.619)	(-2.046)	(-1.912)	(-4,149)
	Hawaiian/Pacific Islander	-25.95**	-7.904	2.793	8.736**	-0.159	14.08	9.329	-2.004	-1.881	-0.598	-0.471	3.341	2.884	1.092	-0.815	-1.122	-1.598
		(-2.164)	(-0.881)	(0.328)	(1.973)	(-0.0508)	(1.116)	-1.523	(-0.611)	(-1.084)	(-0.802)	(-0.882)	(1.006)	(1.243)	(0.349)	(-0.494)	(-0.220)	(-0.507)
	White-Black	17.22	-17.13**	-13.41	-8.641**	-1.185	-1.294	-0.782	1.596	2.234	-0.587	-0.557	-4.983	7.220***	2.699	0.951	7.628	8.529***
		(1.500)	(-1.994)	(-1.645)	(-2.039)	(-0.395)	(-0.107)	(-0.133)	(0.508)	(1.345)	(-0.822)	(-1.088)	(-1.567)	(3.252)	(0.902)	(0.602)	(1.562)	(2.827)
	White-American Indian	-5.858	1.598	12.72***	0.0214	2.216	-4.945	-12.32***	-0.145	1.703**	-0.629*	-0.409	0.974	0.261	1.854	-0.384	-0.315	0.922
Race (White		(-0.986)	(0.360)	(3.016)	(0.00974)	(1.429)	(-0.791)	(-4.061)	(-0.0896)	(1.982)	(-1.703)	(-1.545)	(0.592)	(0.227)	(1.198)	(-0.470)	(-0.125)	(0.591)
Excluded)	White-Asian	-18.22	-1.317	1.131	-3.615	0.104	-2.850	8.5	13.02***	-1.261	-0.309	-0.396	11.60***	-2.457	-3.768	-1.812	0.670	-3.637
		(-1.472)	(-0.142)	(0.129)	(-0.791)	(0.0321)	(-0.219)	-1.345	(3.847)	(-0.704)	(-0.401)	(-0.718)	(3.386)	(-1.027)	(-1.168)	(-1.064)	(0.127)	(-1.118)
	White-Hawaiian	-35.50	-8.065	-5.312	-21.86*	-6.339	37.61	14.58	2.653	-3.656	-0.681	1.547	0.953	-5.825	1.707	36.06***	0.432	-3.093
		(-1.126)	(-0.342)	(-0.237)	(-1.878)	(-0.770)	(1.134)	-0.906	(0.308)	(-0.801)	(-0.348)	(1.101)	(0.109)	(-0.955)	(0.208)	(8.313)	(0.0322)	(-0.373)
	Black-American Indian	28.06	33.71**	-35.60***	-5.800	-2.081	-24.47	3.087	-1.749	-2.486	3.250***	-0.605	-7.279	12.37***	-2.115	4.612*	-3.652	-7.034
		(1.511)	(2.426)	(-2.699)	(-0.846)	(-0.429)	(-1.252)	-0.325	(-0.344)	(-0.925)	(2.815)	(-0.730)	(-1.415)	(3.444)	(-0.437)	(1.805)	(-0.462)	(-1.441)
	Black-Asian	-4.593	66.24	-31.39	42.57*	-7.296	12.13	-46.49	0.0277	-2.067	-0.610	-0.339	-21.31	-11.11	-5.998	18.91**	-7.569	-9.579
		(-0.0766)	(1.477)	(-0.737)	(1.924)	(-0.466)	(0.192)	(-1.519)	(0.00169)	(-0.238)	(-0.164)	(-0.127)	(-1.284)	(-0.959)	(-0.384)	(2.294)	(-0.297)	(-0.608)
	Black-Hawaiian	10.15	5.279	-18.38	-8.818	-12.27	142.3**	-75.51**	-15.59	-2.245	-0.352	-0.947	-10.35	1.069	33.39**	-4.197	-21.99	-12.32
		(0.168)	(0.116)	(-0.427)	(-0.394)	(-0.776)	(2.233)	(-2.441)	(-0.941)	(-0.256)	(-0.0934)	(-0.351)	(-0.617)	(0.0912)	(2.114)	(-0.504)	(-0.853)	(-0.774)
	American Indian-Asian	-8.898	20.98	-40.84	-56.80	-8.577	101.9	-39.54	-16.09	-3.263	-0.0893	-0.728	46.04	-1.480	-5.151	-7.748	21.78	-12.94
		(-0.0520)	(0.164)	(-0.336)	(-0.900)	(-0.192)	(0.566)	(-0.453)	(-0.344)	(-0.132)	(- 0.00840)	(-0.0956)	(0.972)	(-0.0448)	(-0.116)	(-0.329)	(0.299)	(-0.288)

	Asian-Hawaiian	-9.432	-0.610	-41.99	-2.334	6.105	48.45	-18.31	-11.48	-3.934	-0.920	-0.324	-2.614	-4.938	-6.459	-4.925	-3.882	-8.563
		(-0.259)	(-0.0224)	(-1.625)	(-0.174)	(0.643)	(1.265)	(-0.985)	(-1.154)	(-0.747)	(-0.407)	(-0.200)	(-0.259)	(-0.702)	(-0.681)	(-0.984)	(-0.251)	(-0.895)
	White-Black-American	33.29	-12 29	5 732	8 924	-6 312	-3 217	-9.056	-7 560	0 720	-0 554	5 978***	12 60*	2 196	-0 794	-0 179	-8 327	-3 460
	indian	(1.393)	(-0.688)	(0.338)	(1.012)	(-1.012)	(-0.128)	(-0.742)	(-1,157)	(0.208)	(-0.373)	(5.614)	(1.904)	(0.475)	(-0.127)	(-0.0544)	(-0.819)	(-0.551)
	White-American Indian-	(1.000)	(0.000)	(0.000)	(((020)	(0 12)	((0.200)	(0.01 0)	(0.01.1)	(1.001)	(0)	(0)	(0.00)	(0.0.0)	(0.00 !)
	Asian	-89.37*	69.05**	-19.40	-2.130	41.74***	59.62	-18.06	-15.79	-2.393	-0.399	-0.271	-23.89*	1.620	-4.639	3.176	10.98	-9.197
		(-1.915)	(1.978)	(-0.585)	(-0.124)	(3.426)	(1.214)	(-0.758)	(-1.238)	(-0.354)	(-0.137)	(-0.130)	(-1.849)	(0.179)	(-0.381)	(0.495)	(0.553)	(-0.750)
	White-Asian-Hawaiian	-20.74	-0.814	-45.98	27.84	-3.354	53.98	-33	-12.36	6.172	-0.462	-0.284	-3.511	-0.560	-5.664	1.489	51.41**	-5.241
	White Plack American	(-0.424)	(-0.0223)	(-1.325)	(1.543)	(-0.263)	(1.050)	(-1.322)	(-0.926)	(0.873)	(-0.152)	(-0.130)	(-0.259)	(-0.0592)	(-0.445)	(0.222)	(2.473)	(-0.408)
	Indian-Asian	135.0	243.3*	14.93	54.64	-3.473	-237.9	-62.68	-28.68	1.013	-0.230	-0.0446	-27.52	-2.487	-4.958	-3.760	-48.72	-8.247
		(0.736)	(1.773)	(0.115)	(0.807)	(-0.0725)	(-1.232)	(-0.669)	(-0.572)	(0.0382)	(-0.0202)	(-0.00545)	(-0.542)	(-0.0701)	(-0.104)	(-0.149)	(-0.624)	(-0.171)
	2 or 3 races	20.62	-69.62*	-3.718	15.14	-3.373	-29.40	-7.534	-6.109	-1.112	-0.880	-0.481	-18.76	-1.981	98.34***	17.92**	6.458	-5.594
		(0.380)	(-1.715)	(-0.0964)	(0.756)	(-0.238)	(-0.515)	(-0.272)	(-0.412)	(-0.142)	(-0.261)	(-0.199)	(-1.248)	(-0.189)	(6.951)	(2.401)	(0.280)	(-0.392)
	4 or 5 races	-103.3	261.3**	-31.29	-116.6*	-0.364	132.7	-102.9	-28.46	-2.868	-0.233	-0.497	37.12	-6.675	-11.65	5.869	-39.24	-15.30
		(-0.615)	(2.079)	(-0.262)	(-1.879)	(-0.00830)	(0.751)	(-1.199)	(-0.620)	(-0.118)	(-0.0223)	(-0.0664)	(0.798)	(-0.205)	(-0.266)	(0.254)	(-0.549)	(-0.346)
Spanish (-16.59***	8.894***	5.138***	-3.395***	-1.629***	7.732***	-5.675***	1.074*	5.37e-05	-0.0869	0.0878	1.679***	0.201	-0.0998	-0.322	1.272	0.987*
Spanish-	Only Household	(-7.946)	(5.694)	(3.464)	(-4.404)	(-2.990)	(3.520)	(-5.323)	(1.882)	(.000178)	(-0.669)	(0.943)	(2.904)	(0.498)	(-0.183)	(-1.120)	(1.432)	(1.798)
Number of Ch	Number of Children Under Age 18		-10.90***	6.050***	27.28***	-1.811***	0.825	-0.42	0.378*	0.206*	-0.0205	0.0209	-1.152***	0.122	1.062***	0.432***	1.983***	-0.212
Number of Children Onder Age 10		(-19.15)	(-17.96)	(10.50)	(91.06)	(-8.550)	(0.967)	(-1.013)	(1.703)	(1.752)	(-0.407)	(0.577)	(-5.125)	(0.776)	(5.021)	(3.870)	(5.744)	(-0.994)
Number of Me	Number of Members in Household		3.790***	-0.511	-4.309***	-0.432***	-4.432***	-0.0814	-0.174	-0.136	-0.0541	0.0540*	-0.0120	0.541***	-0.0832	-0.874***	-1.345***	0.909***
		(8.237)	(7.975)	(-1.132)	(-18.37)	(-2.606)	(-6.630)	(-0.251)	(-1.003)	(-1.479)	(-1.369)	(1.908)	(-0.0680)	(4.406)	(-0.502)	(-10.00)	(-4.978)	(5.445)
	Associate Degree at Vocational School	8 329**	3 837	0 572	-1.380	-0 503	0 282	-5 727***	0.620	0.616	-0 135	0.0337	-2 658**	-0.359	-1 170	-1 511***	-2 280	0 528
		(2 185)	(1 346)	(0.211)	(_0.980)	(-0.506)	(0.0704)	(-2 942)	(0.595)	(1 116)	(-0.571)	(0 198)	(-2 517)	(-0.487)	(-1 177)	(-2 881)	(-1.406)	(0.527)
	Bachelor's Degree	-1.362	-2 809	-2 141	5 338***	-1.347*	0.219	-8 497***	0.266	1.509***	0.0833	-0 212	3 327***	0.638	2 315***	0.399	3 716***	0.904
	Buonoion o Blog.co	(-0.453)	(-1 248)	(-1.002)	(4 804)	(-1 715)	(0.0690)	(-5 528)	(0.323)	(3 467)	(0 445)	(-1.580)	(3 992)	(1.096)	(2 951)	(0.964)	(2 902)	(1 143)
	Doctoral Degree	-40.03***	-7 253*	-10 04**	9 024***	-3 088**	36.90***	-10 10***	-0 791	2 030**	0 186	-0.0689	7 301***	-1 364	7 204***	0 750	11 15***	-0 182
	Dootoral Dogroo	(-7.091)	(-1.718)	(-2.503)	(4.330)	(-2.096)	(6.213)	(-3.503)	(-0.513)	(2.486)	(0.530)	(-0.274)	(4.670)	(-1.250)	(4.895)	(0.966)	(4.642)	(-0.122)
	Grade 6 or Less	20.69***	46.26***	-3.334	-17.33***	-4.209***	-6.009	-1.098	-4.629***	0.779	-0.700**	0.147	-9.253***	2.474***	-7.540***	-3.366***	-11.41***	-5.072***
Education Level		(4.504)	(13.46)	(-1.022)	(-10.22)	(-3.511)	(-1.243)	(-0.468)	(-3.687)	(1.173)	(-2.453)	(0.720)	(-7.274)	(2.785)	(-6.297)	(-5.327)	(-5.837)	(-4.201)
(Associate Degree	Grade 6 to 9	33.18***	31.01***	-29.90***	-35.74***	-2.405***	-24.39***	50.06***	-7.648***	-1.407***	-0.476**	-0.505***	-7.186***	3.311***	-4.462***	0.422	-12.06***	-3.862***
Excluded)		(9.329)	(11.66)	(-11.84)	(-27.22)	(-2.591)	(-6.519)	-27.57	(-7.868)	(-2.735)	(-2.153)	(-3.183)	(-7.297)	(4.815)	(-4.814)	(0.863)	(-7.975)	(-4.133)
	High School Graduate	29.66***	8.432***	-3.047	-7.091***	1.083	-3.336	-7.490***	-1.916**	0.505	-0.299*	-0.371***	-4.819***	-0.154	-3.895***	-1.243***	-6.600***	-1.882**
		(10.22)	(3.884)	(-1.478)	(-6.618)	(1.429)	(-1.092)	(-5.053)	(-2.415)	(1.202)	(-1.659)	(-2.868)	(-5.995)	(-0.275)	(-5.148)	(-3.113)	(-5.346)	(-2.467)
	Some High School, No	07 51***	OE 10***	24 05***	00 10***	0.404	25 01***	10 26***	E 000***	0 125	0.265*	0 112	0 200***	0 726	1 020**	0 112	7 000***	1 01/**
	Dipioma	(0.252)	25.13	-24.95	-20.13	0.404	-25.91	42.30	-5.923	-0.125	-0.305	-0.112	-0.300	U. / 30	-1.930""	0.113	-1.009"^*	-1.914**
	Mastaria Darre -	(ö.352)	(10.20)	(-10.67)	(-23.13) 6.002***	(0.470)	(-1.47b)	-25.18 0.141***	(-0.5/8)	(-U.201) 1 700***	(-1./81) 0.440*	(-U./b2)	(-9.195)	(1.155)	(-2.248) 2.260***	(0.249)	(-5.63U) 7.000***	(-2.211)
	Master's Degree	-10.07***	-3.834	-4.135*	6.093°**	-1.213	4.435	-9.141***	0.596	1.799***	0.410*	-0.135	4.86/***	0.0811	2.360***	0.504	(4.070)	1.008*
	Desfersion 1 D	(-2.888)	(-1.409)	(-1.009)	(4.731)	(-1.333)	(1.208)	(-5.131)	(0.025)	(3.504)	(1.890)	(-U.871)	(5.038)	(0.120)	(2.595)	(1.051)	(4.870)	(1.819)
	Protessional Degree	-14.28**	1.201	-11./3***	10.12***	-1./35	18.86***	-9.09/***	-2.115	1.349	0.0546	-0.298	5.294***	-1.343	0.678	0.629	2.507	2.285

		(-2.484)	(0.279)	(-2.873)	(4.766)	(-1.156)	(3.117)	(-3.098)	(-1.345)	(1.622)	(0.153)	(-1.162)	(3.325)	(-1.207)	(0.452)	(0.795)	(1.025)	(1.512)
	Some College, No Degree	11.37***	3.164	-4.826**	-4.463***	0.638	-11.38***	5.388***	-0.408	1.176***	-0.203	-0.202	-1.619*	-0.0749	-1.455*	-0.526	1.239	-0.221
	Ť	(3.796)	(1.412)	(-2.268)	(-4.035)	(0.816)	(-3.609)	-3.521	(-0.499)	(2.715)	(-1.088)	(-1.515)	(-1.951)	(-0.129)	(-1.862)	(-1.276)	(0.972)	(-0.281)
	Non-Metropolitan	-1.234	-0.870	8.525***	-2.600***	1.149***	1.476	-0.826	-2.713***	-0.407*	-0.0141	-0.190***	-0.791**	0.763***	2.160***	-0.520***	-3.251***	-0.289
Metropolitan Status		(-0.853)	(-0.804)	(8.301)	(-4.870)	(3.045)	(0.970)	(-1.119)	(-6.865)	(-1.944)	(-0.157)	(-2.942)	(-1.976)	(2.729)	(5.730)	(-2.615)	(-5.286)	(-0.760)
Excluded)	Not Indentified	-6.308	2.313	10.69**	-5.212**	0.260	-3.848	-6.074*	-1.972	-1.977**	-0.00370	0.544*	-0.974	0.520	1.669	-1.446	6.481**	5.590***
		(-0.960)	(0.471)	(2.292)	(-2.149)	(0.151)	(-0.557)	(-1.811)	(-1.098)	(-2.081)	(- 0.00906)	(1.860)	(-0.535)	(0.410)	(0.975)	(-1.601)	(2.320)	(3.238)
	Management	15.20**	14.42**	-24.29***	3.554	-0.701	28.65***	-3.588	-6.083***	-1.181	-0.280	-1.909***	-11.05***	-0.0705	-6.847***	-0.901	-0.810	-3.944*
		(1.976)	(2.508)	(-4.448)	(1.252)	(-0.349)	(3.542)	(-0.914)	(-2.894)	(-1.062)	(-0.586)	(-5.572)	(-5.190)	(-0.0474)	(-3.416)	(-0.851)	(-0.248)	(-1.952)
	Business and Financial Operations	35.96***	21.15***	-25.85***	5.765*	-1.575	2.053	-6.213	-6.386***	-1.154	0.107	-1.762***	-8.590***	0.782	-7.625***	-1.409	-1.746	-3.701*
		(4.446)	(3.495)	(-4.499)	(1.931)	(-0.746)	(0.241)	(-1.504)	(-2.888)	(-0.986)	(0.213)	(-4.888)	(-3.835)	(0.500)	(-3.617)	(-1.266)	(-0.507)	(-1.741)
	Computer and	07 /1***	17 15***	17 20***	C E00**	0.724	E 001	10 60**	2 0 0 0	0.706	0.765	1 002***	10 67***	1 1 2 6	0.015***	0 556	2 006	2 710*
	Indulematical	(3.227)	(2 699)	-17.32 (-2.870)	(2 101)	-0.724	(0.570)	-10.02	-2.900	-0.700	-0.705	-1.903	-10.07	-1.130	-0.213	-0.550	2.000	-3.7 19
	Architecture and	(3.227)	(2.055)	(-2.070)	(2.101)	(-0.527)	(0.070)	(-2.440)	(-1.200)	(-0.070)	(-1.443)	(-0.020)	(-4.000)	(-0.032)	(-0.710)	(-0.470)	(0.000)	(-1.000)
	Engineering	18.01**	12.87**	-5.261	2.430	-0.0444	7.314	-5.881	-6.948***	-1.276	-0.772	-1.653***	-9.549***	1.566	-7.893***	-0.0549	0.388	-4.910**
	Life. Physical. and Social	(2.061)	(1.969)	(-0.848)	(0.753)	(-0.0195)	(0.795)	(-1.318)	(-2.909)	(-1.010)	(-1.421)	(-4.246)	(-3.946)	(0.927)	(-3.465)	(-0.0457)	(0.105)	(-2.138)
	Science	30.16***	28.24***	-20.18***	-1.078	-3.453	-13.23	-3.471	-5.472**	-1.893	0.467	-1.931***	-4.619*	-0.580	-7.429***	0.867	2.136	-4.216*
	Community and Social	(3.132)	(3.919)	(-2.950)	(-0.303)	(-1.374)	(-1.305)	(-0.706)	(-2.078)	(-1.359)	(0.779)	(-4.499)	(-1.732)	(-0.312)	(-2.959)	(0.655)	(0.521)	(-1.665)
	Service	28.95***	22.91***	-29.53***	2.802	-2.151	-6.410	5.562	-6.199**	-1.241	-0.136	-1.869***	-13.45***	4.323**	-1.905	0.787	-0.0198	-4.257*
Occuration Trace		(3.200)	(3.385)	(-4.595)	(0.839)	(-0.911)	(-0.673)	-1.204	(-2.507)	(-0.948)	(-0.241)	(-4.635)	(-5.368)	(2.471)	(-0.808)	(0.632)	(- 0.00514)	(-1.790)
(Unemployed or Not	Legal	40.36***	23.82***	-26.12***	3.789	-0.737	-21.30**	-4.479	-5.279*	-1.988	-0.0697	-1.792***	-7.654***	2.469	-7.824***	-0.124	9.611**	-4.446*
in the Labor Force		(4.033)	(3.182)	(-3.674)	(1.025)	(-0.282)	(-2.022)	(-0.876)	(-1.929)	(-1.373)	(-0.112)	(-4.017)	(-2.761)	(1.275)	(-2.999)	(-0.0901)	(2.257)	(-1.690)
Excluded)	Education, Training, and	/8 18***	24 47***	-23 16***	2 716	0 300	-33 63***	11 02***	-2 660	-0.084	-0.161	_1 030***	_10 11***	1 873	-3 01//*	-0 379	-0 112***	-2 9/9
	Library	(6.080)	(4.127)	(-4,114)	(0.928)	(0.145)	(-4.033)	-2.945	(-1.228)	(-0.858)	(-0.328)	(-5.463)	(-5.518)	(1.222)	(-1.895)	(-0.348)	(-2.703)	(-1.416)
	Arts, Design,	(00000)	()	()	()	(0.1.10)	((()	(((()	(((• • •)	(
	and Media	35.58***	20.16***	-14.55**	6.562**	-1.097	-23.89***	1.183	-5.213**	-0.709	-0.459	-1.921***	-7.751***	-0.893	-4.349*	-0.203	-0.218	-3.114
		(4.038)	(3.059)	(-2.324)	(2.017)	(-0.477)	(-2.577)	-0.263	(-2.164)	(-0.556)	(-0.839)	(-4.892)	(-3.177)	(-0.524)	(-1.894)	(-0.168)	(-0.0582)	(-1.345)
	Healthcare Practitioner	36 78***	20 11***	-19 81***	7 377**	1 036	-6 300	1 906	-3 936*	-1 069	0.0138	-1 896***	-12 93***	0 866	-10 69***	-0 240	-6 375*	-4 746**
		(4 556)	(3 331)	(-3 455)	(2 475)	(0 492)	(-0.742)	-0.462	(-1 783)	(-0.916)	(0.0275)	(-5 270)	(-5 783)	(0.555)	(-5.080)	(-0.240	(-1 856)	(-2 237)
	Healthcare Support	30.21***	29.91***	-12.86**	11.55***	-1.684	-22.15**	-0.458	-4.456*	-1.341	-0.281	-1.450***	-9.877***	0.0418	-8.194***	-1.831	-2.996	-3.999*
		(3.450)	(4.567)	(-2.068)	(3.572)	(-0.737)	(-2.405)	(-0.103)	(-1.862)	(-1.059)	(-0.517)	(-3.716)	(-4.074)	(0.0247)	(-3.591)	(-1.520)	(-0.804)	(-1.738)
	Protective Service	29.30***	13.69**	-8.280	8.196**	-1.143	-0.402	-4.015	-3.616	-1.053	0.143	-2.010***	-17.20***	-0.148	-5.180**	-1.346	-2.326	-4.216*
	-	(3.346)	(2.091)	(-1.332)	(2.536)	(-0.500)	(-0.0436)	(-0.898)	(-1.511)	(-0.832)	(0.263)	(-5.151)	(-7.096)	(-0.0876)	(-2.270)	(-1.118)	(-0.624)	(-1.832)
	Food preparation and Service Related	43.53***	32.21***	-12.64**	2.881	0.0329	-42.79***	0.865	-3.957*	0.433	-0.178	-1.559***	-14.18***	-0.0845	-6.344***	0.275	-3.213	0.342
		(5.466)	(5.407)	(-2.235)	(0.980)	(0.0158)	(-5.107)	-0.213	(-1.818)	(0.376)	(-0.360)	(-4.392)	(-6.432)	(-0.0549)	(-3.056)	(0.251)	(-0.948)	(0.164)

Channel Municave 41.87* 25.0** 4.88 11.0** 2.05* 5.83* 3.10 2.54* 1.05* 2.53* 4.395* 1.07* 2.48* 0.51 0.71* 0.48* 0.51 0.71* 0.48* 0.51 0.71* 0.68* 0.51* 0.71* 0.68* 0.51* 0.71* 0.78* 0.84* 0.51* 0.71* 0.75* 0.75* 0.42* 0.75* 0.28* 0.53* 0.75* 0.68* 0.55* 0.75* 0.42* 0.75* 0.58* 0.55* 0.75* 0.42* 0.42* 0.55*		Building and Grounds																	
Image: state of the s		Cleaning & Maintenance	41.47***	25.20***	4.806	11.01***	2.025	-58.45***	-3.553	-3.130	-0.654	0.306	-2.033***	-9.399***	0.678	-3.468*	0.495	0.351	-0.710
Personal series Salari Salari <t< th=""><th></th><th></th><th>(5.138)</th><th>(4.172)</th><th>(0.838)</th><th>(3.694)</th><th>(0.961)</th><th>(-6.881)</th><th>(-0.862)</th><th>(-1.418)</th><th>(-0.560)</th><th>(0.611)</th><th>(-5.650)</th><th>(-4.204)</th><th>(0.434)</th><th>(-1.648)</th><th>(0.445)</th><th>(0.102)</th><th>(-0.335)</th></t<>			(5.138)	(4.172)	(0.838)	(3.694)	(0.961)	(-6.881)	(-0.862)	(-1.418)	(-0.560)	(0.611)	(-5.650)	(-4.204)	(0.434)	(-1.648)	(0.445)	(0.102)	(-0.335)
Jamma Logan Logan <thlogan< th=""> Logan <thl< th=""><th></th><th>Personal Care and</th><th>42 65***</th><th>00 46***</th><th>4.062</th><th>7 066**</th><th>0.604</th><th>CA E 4***</th><th>17 00***</th><th>2 750*</th><th>0.460</th><th>0.015</th><th>1 0 4 0 * * *</th><th>10 0 / ***</th><th>0 220</th><th>E 074**</th><th>0.664</th><th>C 009**</th><th>0.007</th></thl<></thlogan<>		Personal Care and	42 65***	00 46***	4.062	7 066**	0.604	CA E 4***	17 00***	2 750*	0.460	0.015	1 0 4 0 * * *	10 0 / ***	0 220	E 074**	0.664	C 009**	0.007
bits art Retint (0.00) <t< th=""><th></th><th>Service</th><th>43.03</th><th>20.40</th><th>-4.903</th><th>(2 226)</th><th>(0.225)</th><th>-04.04</th><th>17.09</th><th>-3.752</th><th>(0.200)</th><th>-0.215</th><th>-1.049</th><th>-12.04</th><th>(0.329</th><th>-0.071</th><th>(0.600)</th><th>-0.900</th><th>-0.997</th></t<>		Service	43.03	20.40	-4.903	(2 226)	(0.225)	-04.04	17.09	-3.752	(0.200)	-0.215	-1.049	-12.04	(0.329	-0.071	(0.600)	-0.900	-0.997
Jose and Action Cose and A		Salaa and Balatad	(0.020)	(4.044) 20 22***	(-0.000)	2.050	(0.525)	(-7.407)	-4.004	(-1.075) 5.001**	(0.390)	(-0.422)	(-0.000)	(-5.000)	(0.200)	(-2.010) 6 720***	0.0472	2 2 2 2	(-0.403)
Image: constraints Other and Administrative Out-Part (-13.6)		Sales and Related	20.00	20.33	-21.10	2.950	-1.172	-7.011	0.17	-0.001	-1.012	-0.142	-1.045	-11.07	-0.105	-0.730	-0.0472	-3.320	-3.170
Unit and animative V4.2 0.6.1 4.0.3 0.0.3 -2.19 0.0.3 0.21 1.944 0.0.3 0.21 1.944 0.0.3 0.0.3 0.21 1.944 0.0.3 0.0.3 0.21 1.944 0.0.3 0.0.0 0			(3.730)	(4.930)	(-3.881)	(1.042)	(-0.585)	(-0.869)	-0.197	(-2.384)	(-0.912)	(-0.297)	(-4.806)	(-5.586)	(-0.110)	(-3.305)	(-0.0447)	(-1.019)	(-1.572)
Finiting Finiting and Encession (-3.07) (-3.29) <th< th=""><th></th><th>Office and Administrative</th><th>34.42***</th><th>28.81</th><th>-18.03***</th><th>4.553</th><th>0.575</th><th>-29.91</th><th>0.753</th><th>-2.110</th><th>-0.296</th><th>0.221</th><th>-1.844</th><th>-10.90****</th><th>0.204</th><th>-5.88/****</th><th>-0.709</th><th>-0.634</th><th>-2.159</th></th<>		Office and Administrative	34.42***	28.81	-18.03***	4.553	0.575	-29.91	0.753	-2.110	-0.296	0.221	-1.844	-10.90****	0.204	-5.88/****	-0.709	-0.634	-2.159
Energy 0 <th></th> <th>Farming, Fishing, and</th> <th>(4.507)</th> <th>(5.043)</th> <th>(-3.324)</th> <th>(1.015)</th> <th>(0.289)</th> <th>(-3.723)</th> <th>-0.193</th> <th>(-1.014)</th> <th>(-0.268)</th> <th>(0.465)</th> <th>(-5.419)</th> <th>(-5.156)</th> <th>(0.138)</th> <th>(-2.958)</th> <th>(-0.075)</th> <th>(-0.195)</th> <th>(-1.076)</th>		Farming, Fishing, and	(4.507)	(5.043)	(-3.324)	(1.015)	(0.289)	(-3.723)	-0.193	(-1.014)	(-0.268)	(0.465)	(-5.419)	(-5.156)	(0.138)	(-2.958)	(-0.075)	(-0.195)	(-1.076)
Construction and Extraction Construction and Extraction <t< th=""><th></th><th>Forestry</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th></t<>		Forestry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Construction and Extended Construction and Extend Construction and Extended Cons																			
Lab Lab <thlab< th=""> <thlab< th=""> <thlab< th=""></thlab<></thlab<></thlab<>		Construction and Extraction	20 51***	7 045	-2 509	7 194**	1 184	-5 738	-18 98***	-2 436	-1 095	-0 310	-1 790***	-4 945**	0 802	-6 576***	0 578	13 92***	-2 555
Installation Installation Number state Castor		Exideation	(2 600)	(1 104)	(-0.448)	(2 / 71)	(0.575)	(_0.691)	(_1 712)	(_1 130)	(_0.950)	(-0.632)	(-5.091)	(-2.264)	(0.526)	(_3 198)	(0.533)	(1 1/0)	(_1 233)
and Regist 6.936 15.23" 4.232 5.310" 1.314 13.08 1.251" 4.373" 1.031 0.410 1.407" 7.349" 0.995 7.349" 0.915 7.349" 0.1611 0.324 4.772 Production 20.60"* 8.743 6.1423 (1.425) (1.439) (1.439) (1.429) (1.450) (0.918) (1.152) (2.450) (1.583) (0.826) (4.842) (3.577) (0.952) (3.410) (0.228) (1.245) (1.433) (1.439) (1.172) (0.019) (1.152) (2.460) (1.162) (2.678) (0.828) (4.567) (0.578) (0.383) (2.177) (2.268) (5.267) (1.338) (7.23) (3.560) (5.67) (1.383) (7.138) (7.23) (3.530) (5.37) (3.513) (3.56) (3.561) (3.541) (3.54) (3.561) (3.541) (3.541) (3.541) (3.541) (3.54) (3.55) (3.55) (3.55) (3.55) (3.55) (3.55) (3.55)		Installation, Maintenance,	(2.000)	(1.134)	(-0.440)	(2.47.1)	(0.070)	(-0.031)	(-4.112)	(-1.100)	(-0.333)	(-0.032)	(-0.031)	(-2.204)	(0.320)	(-0.130)	(0.000)	(4.143)	(-1.200)
Image: Production (0.847) (2.486) (1.472) (0.75) (2.817) (2.817) (2.827) (2.828) (2.827) (3.240) (0.77) (3.444) (0.161) (0.959) (-1.729) Production (2.634) (1.465) (1.165) (0.910) (1.162) (2.460) (1.165) (0.877) (-1.444) (0.957) (-1.444) (2.445) (-1.433) Transportation and Material Moving (2.634) (1.465) (-1.175) (0.019) (1.162) (2.460) (-1.928) (-0.826) (-0.426) (-1.433) (-1.245) (-1.443) (-1.455) (-1.452) (-1.433) (-1.245) (-1.432) (-1.455) (-1.432) (-1.432) (-1.432) (-1.432) (-1.431) (-1.247) (-2.815) (-1.423) (-1.522) (-1.630) (-1.522) (-1.632) (-1.630) (-1.522) (-1.630) (-1.523) (-1.632) (-1.523) (-1.532) (-1.532) (-1.532) (-1.532) (-1.532) (-1.532) (-1.532) (-1.532) (-1.532) (-1		and Repair	6.936	15.23**	-8.282	5.310*	1.314	13.08	-12.51***	-4.373*	-1.031	-0.410	-1.907***	-7.349***	0.905	-7.354***	-0.181	3.324	-3.722*
Production 20.60 ^{mm} 8.743 6.199 5.192 ^m -0.0404 9.581 -9.82 ^{mm} -0.388 -0.882 ^{mm} -0.74 ^{mm} -1.480			(0.847)	(2.486)	(-1.423)	(1.756)	(0.615)	(1.517)	(-2.991)	(-1.953)	(-0.870)	(-0.805)	(-5.223)	(-3.240)	(0.571)	(-3.444)	(-0.161)	(0.954)	(-1.729)
Image: Transportation and Material Moving (2.634) (1.455) (1.162) (2.460) (1.555) (0.788) (0.426) (4.842) (3.377) (0.952) (3.419) (0.228) (1.424) (4.33) Material Moving 25.65*** 17.33*** 0.986 6.378*** 0.0700 -0.995 -0.091* -3.013 -0.983 0.114 1.965*** -11.06*** -0.583 5.770*** 0.287 -2.885 -3.105 (3.263) (2.947) (1.777) (2.197) (0.0341) (0.119) (2.264) (1.402) (0.437) (4.530) (-7.22) (4.530) (-7.22) (4.530) (-7.22) (4.530) (-7.22) (4.530) (-7.22) (4.530) (-7.22) (4.530) (-7.22) (4.530) (-7.22) (4.530) (-7.22) (4.530) (-7.21) (4.275) (0.70) (5.825) (0.80) Tuesday -96.85*** -70.35*** -70.35*** -70.35*** -70.35*** -7.16*** -2.85*** -1.106** 0.383 5.21***		Production	20.60***	8.743	-6.199	5.192*	-0.0404	9.561	-9.827**	-3.388	-0.892	-0.401	-1.688***	-7.748***	-1.440	-6.971***	-0.246	-4.143	-2.945
Intersportation Intersportation 25.65*** 17.33*** 9.989* 6.378** 0.0700 -0.985 -9.091** -3.013 -0.993 0.114 -1.965*** -1.106*** -0.563 -5.770*** -0.267 -2.285 -3.105 Monday -88.70*** -64.97*** -1.364*** 5185*** -1.852*** 7.55*** 22.01*** -67.05*** 0.201*** -0.433 (-7.35)*** -2.919***		Transactation and	(2.634)	(1.495)	(-1.116)	(1.798)	(-0.0198)	(1.162)	(-2.460)	(-1.585)	(-0.788)	(-0.826)	(-4.842)	(-3.577)	(-0.952)	(-3.419)	(-0.228)	(-1.245)	(-1.433)
Image: Note of the system of the sy		Material Moving	25.65***	17.33***	-9.898*	6.378**	0.0700	-0.985	-9.091**	-3.013	-0.993	-0.114	-1.965***	-11.06***	-0.583	-5.770***	-0.287	-2.885	-3.105
Mondey -88.70*** -64.97*** -13.64*** 5185*** -1.852*** 75.5*** 22.20*** 6.750*** 3.856*** 0.901*** 0.405*** -74.35*** -29.19*** 2.493*** 0.207 4.973*** 0.448 Image: Construction of the state			(3.263)	(2.947)	(-1,772)	(2.197)	(0.0341)	(-0.119)	(-2.264)	(-1.402)	(-0.873)	(-0.234)	(-5.607)	(-5.078)	(-0.383)	(-2.815)	(-0.266)	(-0.862)	(-1.502)
Image: bar		Monday	-88.70***	-64.97***	-13.64***	5.185***	-1.852***	175.5***	22.20***	-6.750***	3.858***	0.901***	0.405***	-7.435***	-29.19***	-2.493***	0.207	4.973***	0.448
Tuesday -96.8** -70.85** -20.26** 5903** -10.64** 193.3** 24.41*** -7.532*** 0.707** 0.535*** -22.35** 0.0770 3.901*** 0.423 Diary Day (Sunday -103.9*** -70.33*** -18.19*** 45.58*** -0.919* 193.8*** 23.56*** -7.660*** 5.035*** 0.704*** 0.494*** -6.156*** -22.35*** 0.0770 3.901*** 0.423 Diary Day (Sunday -103.9*** -70.33*** -18.19*** 45.58*** -0.919* 193.8*** 23.56*** -7.660*** 5.035*** 0.704*** 0.494*** -6.156*** -26.97*** -1.106** 0.183 5.221*** 0.304 Excluded) -71.01*** -72.02*** 5.427*** -0.212 194.6** 20.51*** 6.671*** 4.734*** 0.532*** 0.309*** -7.180*** -1.29** -9.46** 5.177*** 0.423 -7.16*** -7.205*** -6.61*** -4.734*** 0.535*** 0.304*** -7.52 (2.485) (4.64.96)			(-44,19)	(-43.27)	(-9,570)	(6.998)	(-3.536)	(83.09)	-21.66	(-12.30)	(13.29)	(7.223)	(4.530)	(-13.38)	(-75.22)	(-4.766)	(0.750)	(5.825)	(0.850)
Image: constraint of the second sec		Tuesdav	-96.88***	-70.85***	-20.26***	5.903***	-1.064**	193.3***	24.41***	-7.532***	4.740***	0.728***	0.535***	-7.531***	-28.80***	-2.235***	0.0770	3.901***	0.423
Wednesday -103.9*** -70.33** -18.19*** 4.558*** -0.919* 193.8*** 23.56*** -7660*** 5.035** 0.704*** 0.494*** -6.156*** -26.9**** -1.106** 0.13 5.221*** 0.304 Diary Day (Sunday (-51.88) (-46.96) (-1.79) (6.166) (-1.759) (91.98) -23.04 (-14.00) (17.38) (5.553) (-51.10) (-69.65) (-2.119) (0.6665) (6.129) (0.578) Thursday -94.49*** -72.40*** -21.22*** 5.427*** -0.212 194.6*** 20.51*** -6.671*** 4.734*** 0.532*** 0.390*** -7.180*** -28.51*** -12.99** -0.946*** 5.177*** 0.429 (-47.12) (-48.26) (-14.90) (7.331) (-0.406) (92.23) -20.02 (-12.17) (16.32) (-4264) (4.363) (-12.93) (-7.352) (-2.485) (-6.428) (-6.169) (0.814) Friday -73.05*** -86.12*** -24.34*** 0.502 -0.182 <th></th> <th></th> <th>(-48.31)</th> <th>(-47.23)</th> <th>(-14.22)</th> <th>(7.974)</th> <th>(-2.034)</th> <th>(91.63)</th> <th>-23.83</th> <th>(-13.74)</th> <th>(16.34)</th> <th>(5.840)</th> <th>(5.987)</th> <th>(-13.56)</th> <th>(-74.27)</th> <th>(-4.275)</th> <th>(0.279)</th> <th>(4.573)</th> <th>(0.803)</th>			(-48.31)	(-47.23)	(-14.22)	(7.974)	(-2.034)	(91.63)	-23.83	(-13.74)	(16.34)	(5.840)	(5.987)	(-13.56)	(-74.27)	(-4.275)	(0.279)	(4.573)	(0.803)
Diary Day (Sunday Excluded) (-51.88) (-46.96) (-12.79) (6.166) (-1.759) (91.98) -23.04 (-14.00) (17.38) (5.653) (5.535) (-11.10) (-69.65) (-2.119) (0.665) (6.129) (0.578) Thursday -94.49** -72.40** -21.22** 5.427** -0.212 194.6** 20.51*** -6.671*** 4.734*** 0.532*** 0.390*** -7.180*** -28.51*** -1.299** -0.946*** 5.177*** 0.429 (47.12) (48.26) (14.90) (7.311) (-0.406) (92.23) -20.02 (-12.17) (16.32) (42.64) (43.63) (-12.93) (-73.52) (-2.485) (-3.428) (6.069) (0.814)		Wednesday	-103.9***	-70.33***	-18.19***	4.558***	-0.919*	193.8***	23.56***	-7.660***	5.035***	0.704***	0.494***	-6.156***	-26.97***	-1.106**	0.183	5.221***	0.304
Excluded) Thursday -94.49*** -72.40*** -54.27*** -0.212 194.6*** 20.51*** -6.671*** 4.734*** 0.532*** 0.300*** -7.180*** -28.51*** -1.299** 0.946*** 5.177*** 0.429 (-47.12) (-48.26) (-14.90) (7.331) (-0.406) (92.23) -20.02 (-12.17) (16.32) (4.264) (4.363) (-12.93) (-73.52) (-2.485) (-3.428) (6.069) (0.814) Friday -73.05*** -86.12*** -24.34*** 0.502 -0.182 179.3*** 13.69*** -0.471 5.347*** 0.975*** 0.404*** -1.589*** -28.89*** -1.636*** -0.378 14.33*** 1.018* (-36.37) (-57.32) (-17.06) (0.677) (-0.348) (84.84) -13.35 (-0.857) (18.40) (7.810) (4.517) (-2.856) (-7.438) (-3.124) (-1.368) (16.77) (1.929) Saturday 4.260** -38.94*** 11.62*** 0.208 3.221*** <	Diary Day (Sunday		(-51.88)	(-46.96)	(-12.79)	(6,166)	(-1.759)	(91,98)	-23.04	(-14.00)	(17.38)	(5.653)	(5.535)	(-11.10)	(-69.65)	(-2.119)	(0.665)	(6.129)	(0.578)
Image: constraint of the second sec	Excluded)	Thursday	-94.49***	-72.40***	-21.22***	5.427***	-0.212	194.6***	20.51***	-6.671***	4.734***	0.532***	0.390***	-7.180***	-28.51***	-1.299**	-0.946***	5.177***	0.429
Friday -73.05*** -66.12*** -24.34*** 0.502 -0.182 179.3*** 13.69*** 0.404*** -1.589*** -28.89*** -1.636*** -0.378 14.33*** 1018* Saturday (-36.37) (-57.32) (-17.06) (0.677) (-0.348) (84.84) -13.35 (-0.857) (18.40) (7.810) (4.517) (-2.866) (-74.38) (-3.124) (-1.368) (16.77) (1.929) Saturday 4.260** -38.94*** 11.62*** 0.208 3.221*** 0.57*** -3.171*** 12.92*** 2.304*** 0.716*** 0.0539 1.228* -26.17*** 0.607 -0.927*** 10.47*** 2.075*** (2.133) (-26.06) (8.193) (0.282) (6.179) (9.791) (-3.109) (23.67) (7.975) (5.769) (0.605) (2.221) (-67.75) (1.165) (-3.373) (12.33) (3.953) Year (2003 (0.678) (1.282) (-1.623) (-0.773) (-0.114) (0.358) -1.163 (0.0174) </th <th></th> <th></th> <th>(-47.12)</th> <th>(-48.26)</th> <th>(-14.90)</th> <th>(7.331)</th> <th>(-0.406)</th> <th>(92.23)</th> <th>-20.02</th> <th>(-12.17)</th> <th>(16.32)</th> <th>(4.264)</th> <th>(4.363)</th> <th>(-12.93)</th> <th>(-73.52)</th> <th>(-2.485)</th> <th>(-3.428)</th> <th>(6.069)</th> <th>(0.814)</th>			(-47.12)	(-48.26)	(-14.90)	(7.331)	(-0.406)	(92.23)	-20.02	(-12.17)	(16.32)	(4.264)	(4.363)	(-12.93)	(-73.52)	(-2.485)	(-3.428)	(6.069)	(0.814)
Year (2003 Excluded) 2004 (-36.37) (-57.32) (-17.06) (0.677) (-0.348) (84.84) -13.35 (-0.857) (18.40) (7.810) (4.517) (-2.856) (-74.38) (-3.124) (-1.368) (16.77) (1.929) Saturday 4.260** -38.94*** 11.62*** 0.208 3.221*** 20.57*** -3.171*** 12.92*** 2.304*** 0.716*** 0.0539 1.228** -26.17*** 0.607 -0.927*** 10.47*** 2.075*** (2.133) (-26.06) (8.193) (0.282) (6.179) (9.791) (-3.109) (23.67) (7.975) (5.769) (0.605) (2.221) (-67.75) (1.165) (-3.373) (12.33) (3.953) 1.600 2.262 -2.721 -0.674 -0.0703 0.889 1.402 0.0112 -0.632* -0.255* 0.114 1.412** -1.203*** 0.03038 -0.368 -1.206 Year (2003 0.532 7.967*** 0.125 -1.078 -1.878*** -1.450 -		Friday	-73.05***	-86.12***	-24.34***	0.502	-0.182	179.3***	13.69***	-0.471	5.347***	0.975***	0.404***	-1.589***	-28.89***	-1.636***	-0.378	14.33***	1.018*
Saturday 4.260** -38.94*** 11.62*** 0.208 3.221*** 20.57*** -3.171*** 12.92*** 2.304*** 0.716*** 0.0539 1.228** -26.17*** 0.607 -0.927*** 10.47*** 2.075*** (2.133) (-26.06) (8.193) (0.282) (6.179) (9.791) (-3.109) (23.67) (7.975) (5.769) (0.605) (2.221) (-67.75) (1.165) (-3.373) (12.33) (3.953) 1.600 2.262 -2.721 -0.674 -0.0703 0.889 1.402 0.0112 -0.632* -0.255* 0.114 1.412** -1.203*** 0.000338 -0.368 -1.206 -1.055* (0.678) (1.282) (-1.623) (-0.773) (-0.114) (0.358) -1.163 (0.0174) (-1.852) (-1.738) (1.088) (2.161) (-2.507) (0.00550) (-1.133) (-1.201) (-1.702) Year (2003 Excluded) (0.226) (4.529) (0.0747) (-1.242) (-3.060) (-0.586) <t< th=""><th></th><th>,</th><th>(-36.37)</th><th>(-57.32)</th><th>(-17.06)</th><th>(0.677)</th><th>(-0.348)</th><th>(84.84)</th><th>-13.35</th><th>(-0.857)</th><th>(18,40)</th><th>(7.810)</th><th>(4.517)</th><th>(-2.856)</th><th>(-74.38)</th><th>(-3.124)</th><th>(-1.368)</th><th>(16.77)</th><th>(1.929)</th></t<>		,	(-36.37)	(-57.32)	(-17.06)	(0.677)	(-0.348)	(84.84)	-13.35	(-0.857)	(18,40)	(7.810)	(4.517)	(-2.856)	(-74.38)	(-3.124)	(-1.368)	(16.77)	(1.929)
L (2.133) (-26.06) (8.193) (0.282) (6.179) (9.791) (-3.109) (23.67) (7.975) (5.769) (0.605) (2.221) (-67.75) (1.165) (-3.373) (12.33) (3.953) 2004 1.600 2.262 -2.721 -0.674 -0.0703 0.889 1.402 0.0112 -0.632* -0.255* 0.114 1.412** -1.203*** 0.000338 -0.368 -1.206 -1.055* (0.678) (1.282) (-1.623) (-0.773) (-0.114) (0.358) -1.163 (0.0174) (-1.852) (-1.738) (1.088) (2.161) (-2.637) (.000550) (-1.133) (-1.201) (-1.702) 2005 0.532 7.967*** 0.125 -1.078 -1.450 -1.906 0.113 -0.613* -0.295** 0.259** 1.282** -1.146** 0.0625 -0.970*** -2.509** 0.986 Excluded) (0.226) (4.529) (0.0747) (-1.242) (-3.060) (-0.586) (-1.587) (0.17		Saturday	4.260**	-38.94***	11.62***	0.208	3.221***	20.57***	-3.171***	12.92***	2.304***	0.716***	0.0539	1.228**	-26.17***	0.607	-0.927***	10.47***	2.075***
2004 1.600 2.262 -2.721 -0.674 -0.0703 0.889 1.402 0.0112 -0.632* -0.255* 0.114 1.412** -1.203*** 0.000338 -0.368 -1.206 -1.055* Year (2003 Excluded) 2005 0.532 7.967*** 0.125 -1.078 -1.163 (0.0174) (-1.852) (-1.738) (1.088) (2.161) (-2.637) (.000550) (-1.133) (-1.201) (-1.702) 2005 0.532 7.967*** 0.125 -1.078 -1.450 -1.906 0.113 -0.613* -0.295** 0.259** 1.282** -1.146** 0.0625 -0.970*** -2.509** 0.986 (0.226) (4.529) (0.0747) (-1.242) (-3.060) (-0.586) (-1.587) (0.175) (-1.804) (-2.020) (2.468) (1.968) (-2.521) (0.102) (-3.000) (-2.508) (1.595) 2006 -1.701 4.971*** -0.895 -1.015 -2.340*** 3.400 0.431 -0.0206 -0.8		,	(2.133)	(-26.06)	(8.193)	(0.282)	(6.179)	(9.791)	(-3.109)	(23.67)	(7.975)	(5.769)	(0.605)	(2.221)	(-67.75)	(1.165)	(-3.373)	(12.33)	(3.953)
Year (2003 Excluded) (0.678) (1.282) (-1.623) (-0.773) (-0.114) (0.358) -1.163 (0.0174) (-1.852) (-1.738) (1.088) (2.161) (-2.637) (.000550) (-1.133) (-1.201) (-1.702) 2005 0.532 7.967*** 0.125 -1.078 -1.450 -1.906 0.113 -0.613* -0.295** 0.259** 1.282** -1.146** 0.0625 -0.970*** -2.509** 0.986 (0.226) (4.529) (0.0747) (-1.242) (-3.060) (-0.586) (-1.587) (0.175) (-1.804) (-2.020) (2.468) (1.968) (-2.521) (0.102) (-3.000) (-2.508) (1.595) 2006 -1.701 4.971*** -0.895 -1.015 -2.340*** 3.400 0.431 -0.0266 -0.804** -0.354** 0.374*** 1.094* -1.386*** -0.772 -0.435 -3.284*** 2.797*** (-0.724) (2.827) (-0.536) (-1.170) (-3.815) (1.375) -0.359		2004	1.600	2.262	-2.721	-0.674	-0.0703	0.889	1.402	0.0112	-0.632*	-0.255*	0.114	1.412**	-1.203***	0.000338	-0.368	-1.206	-1.055*
2005 0.532 7.967*** 0.125 -1.078 -1.878*** -1.450 -1.906 0.113 -0.613* -0.295** 0.259** 1.282** -1.146** 0.0625 -0.970*** -2.509** 0.986 (0.226) (4.529) (0.0747) (-1.242) (-3.060) (-0.586) (-1.587) (0.175) (-1.804) (-2.020) (2.468) (1.968) (-2.521) (0.102) (-3.000) (-2.508) (1.595) 2006 -1.701 4.971*** -0.895 -1.015 -2.340*** 3.400 0.431 -0.0206 -0.804** -0.354** 0.374*** 1.094* -1.386*** -0.772 -0.435 -3.284*** 2.797*** (-0.724) (2.827) (-0.536) (-1.170) (-3.815) (1.375) -0.359 (-0.0321) (-2.364) (-2.423) (3.567) (1.681) (-3.050) (-1.259) (-1.344) (-3.284) (4.527)			(0.678)	(1.282)	(-1.623)	(-0.773)	(-0.114)	(0.358)	-1.163	(0.0174)	(-1.852)	(-1.738)	(1.088)	(2.161)	(-2.637)	(.000550)	(-1.133)	(-1.201)	(-1.702)
Year (2003 Excluded) (0.226) (4.529) (0.0747) (-1.242) (-3.060) (-0.586) (-1.587) (0.175) (-1.804) (-2.020) (2.468) (1.968) (-2.521) (0.102) (-3.000) (-2.508) (1.595) 2006 -1.701 4.971*** -0.895 -1.015 -2.340*** 3.400 0.431 -0.0206 -0.804** -0.354** 0.374*** 1.094* -1.386*** -0.772 -0.435 -3.284*** 2.797*** (-0.724) (2.827) (-0.536) (-1.170) (-3.815) (1.375) -0.359 (-0.0321) (-2.423) (3.567) (1.681) (-3.050) (-1.259) (-1.344) (-3.284) (4.527) 0.0077 0.4175 0.0076 0.0077 0.0077 0.002111 0.0077 0.414 0.0000 0.550 -1.044 (-3.284) (4.527)		2005	0.532	7.967***	0.125	-1.078	-1.878***	-1.450	-1.906	0.113	-0.613*	-0.295**	0.259**	1.282**	-1.146**	0.0625	-0.970***	-2.509**	0.986
2006 -1.701 4.971*** -0.895 -1.015 -2.340*** 3.400 0.431 -0.0206 -0.804** 0.374*** 1.094* -1.386*** -0.772 -0.435 -3.284*** 2.797*** (-0.724) (2.827) (-0.536) (-1.170) (-3.815) (1.375) -0.359 (-0.0321) (-2.423) (3.567) (1.681) (-3.050) (-1.259) (-1.344) (-3.284) (4.527)	Year (2003		(0.226)	(4.529)	(0.0747)	(-1.242)	(-3.060)	(-0.586)	(-1.587)	(0.175)	(-1.804)	(-2.020)	(2.468)	(1.968)	(-2.521)	(0.102)	(-3.000)	(-2,508)	(1.595)
(-0.724) (2.827) (-0.536) (-1.170) (-3.815) (1.375) -0.359 (-0.0321) (-2.364) (-2.423) (3.567) (1.681) (-3.050) (-1.259) (-1.344) (-3.284) (4.527) (-1.344) (-3.284) (-2.423)		2006	-1.701	4.971***	-0.895	-1.015	-2.340***	3.400	0.431	-0.0206	-0.804**	-0.354**	0.374***	1.094*	-1.386***	-0.772	-0.435	-3.284***	2.797***
			(-0.724)	(2.827)	(-0.536)	(-1.170)	(-3.815)	(1.375)	-0.359	(-0.0321)	(-2.364)	(-2.423)	(3.567)	(1.681)	(-3.050)	(-1.259)	(-1.344)	(-3.284)	(4.527)
2007 1.127 2.323 2.716 -0.0758 -3.410^^ 3.693 -3.023^ -0.267 -0.483 -0.391^^ 0.114 0.662 0.550 1.041^ -0.787^ -4.739^^ 2.323^^		2007	1.127	2.323	2.716	-0.0758	-3.410***	3.693	-3.023**	-0.267	-0.483	-0.391***	0.114	0.662	0.550	1.041*	-0.787**	-4.739***	2.323***

P																		
		(0.482)	(1.327)	(1.633)	(-0.0877)	(-5.581)	(1.499)	(-2.528)	(-0.418)	(-1.427)	(-2.686)	(1.092)	(1.022)	(1.214)	(1.707)	(-2.443)	(-4.759)	(3.776)
	2008	5.593**	6.138***	-3.608**	-0.527	-1.817***	2.479	-1.224	-1.555**	-1.146***	-0.578***	0.163	0.569	0.450	0.116	0.152	-6.552***	2.776***
		(2.381)	(3.493)	(-2.163)	(-0.608)	(-2.964)	(1.003)	(-1.021)	(-2.422)	(-3.373)	(-3.961)	(1.561)	(0.875)	(0.990)	(0.189)	(0.471)	(-6.557)	(4.498)
	2009	5.074**	7.174***	-1.878	0.380	-3.060***	-1.565	-1.4	-2.007***	-0.874***	-0.495***	0.129	0.165	0.484	0.472	-0.577*	-5.384***	4.853***
		(2.165)	(4.092)	(-1.128)	(0.440)	(-5.004)	(-0.635)	(-1.170)	(-3.133)	(-2.579)	(-3.398)	(1.238)	(0.255)	(1.068)	(0.772)	(-1.789)	(-5.401)	(7.880)
	2010	-3.453	9.856***	-2.459	-1.767**	-2.712***	1.371	-1.501	-2.205***	-1.110***	-0.383***	0.266***	1.771***	0.884**	-0.0164	-1.240***	-5.700***	9.879***
		(-1.517)	(5.789)	(-1.521)	(-2.103)	(-4.566)	(0.572)	(-1.292)	(-3.545)	(-3.372)	(-2.709)	(2.625)	(2.809)	(2.008)	(-0.0276)	(-3.961)	(-5.887)	(16.52)
	2011	-1.935	10.60***	-6.792***	-1.566*	-2.773***	3.440	-0.453	-2.297***	-1.588***	-0.570***	0.0760	1.238**	0.955**	-0.0546	-2.750***	-10.13***	6.743***
		(-0.858)	(6.283)	(-4.241)	(-1.882)	(-4.713)	(1.450)	(-0.394)	(-3.727)	(-4.869)	(-4.068)	(0.756)	(1.983)	(2.191)	(-0.0929)	(-8.869)	(-10.56)	(11.38)
	Constant	174.0***	630.0***	94.03***	36.99***	11.81***	193.9***	65.44***	33.86***	-1.542	-0.0600	2.411***	66.80***	24.32***	10.40***	9.888***	90.46***	5.046**
	Ounstant	(18.61)	(90.06)	(14.16)	(10.71)	(4.839)	(19.71)	-13.7	(13.24)	(-1.140)	(-0.103)	(5.785)	(25.79)	(13.45)	(4.266)	(7.687)	(22.74)	(2.053)
	Observations	110,819	110,819	110,819	110,819	110,819	110,819	110,819	110,819	110,819	110,819	110,819	110,819	110,819	110,819	110,819	110,819	110,819
	R-squared	0.222	0.112	0.132	0.221	0.011	0.467	0.207	0.039	0.016	0.004	0.004	0.062	0.090	0.011	0.032	0.044	0.013
	t-statistics in parentheses																	
							*** p	<0.01, ** p<0.0)5, * p<0.1									