

Household Services Production in Mexico

Preliminary Draft

**Dwight Steward
EmployStats
and**

**Stephanie Rae Green
EmployStats**

Prepared for:

**2012 ASSA Meetings
Chicago, Illinois**

January 7, 2012

**This paper and tables contained in this paper are for presentation and discussion purposes only.
Please do not cite.**

Introduction

Courts in the U.S. are generally available to workers who become injured and their families regardless of their immigration status. For instance in *Walmart Stores Inc. v. Cordova* (*Wal-Mart Stores, Inc.*, 856 S.W.2d at 771) and *Tyson v. Guzman* (*Tyson Foods, Inc.*, 116 S.W.3d at 242), the court stated that Texas law does not require citizenship or immigration work authorization permits as a prerequisite to recovering damages for loss of earning capacity. Courts in New York (*Balbuena v. IDR Realty LLC*, 2006 N.Y. Lexis 200; 2006 NY Slip Op 1248) and other states have issued similar rulings regarding the recovery of economic damages by undocumented workers.

However, the case law is relatively ambiguous on the use of a worker's immigration status in determining the amount of economic damages. In some instances courts have ruled that the person's immigration status is relevant to the calculation of economic damages. For instance in *Hoffman Plastic Compounds, Inc. v. NLRB*, 535 U.S. 1137, 148-149 (2002) and *Echeverria v. Estate of Lindner*, No. 018666/2002, 2005 WL 1083704, at *10 (N.Y. Sup. Ct. Mar. 2, 2005,) the court considered factors related to the person's immigration status such as the possibility of deportation, the likelihood of voluntarily leaving the U.S. and the individual's migration patterns when determining the economic loss to the undocumented worker. In other instances, such as *Rodriguez v. Kline*, 186 Cal. App. 3d 1145 (CA 1986), courts have stated that in some instances earnings losses should be based on the wages that the undocumented worker could have earned in their native country.

In these instances where the undocumented worker's immigration status should be considered, the analysis of an allegation of the loss of ability to provide routine household services to family members would also need to consider the person's immigration status. For instance the prevailing cost of replacing household services in the immigrant's native country would be relevant. The analysis of a loss of household services would also need to be based on the number of hours typically spent performing household services for family members in their native country.

In this paper, we use the Mexican Time Use Survey ("MTUS") to provide an estimate of the number of hours spent on household production for persons living in Mexico. Generally we find that Mexican males spend less time on household production activities than American males. On average Mexican males spend an average of 8.38 hours per week on household services while American males spend 14.29 hours per week on those activities. Mexican males spend more time caring and helping others (6.65 hours per week) than U.S. males (3.33 hours per week).

Conversely we find that Mexican females spend more time on household production activities than American females. On average Mexican females spend an average of 33.95 hours on household services while American females spend 22.41 hours per week on those activities. Mexican females also spend more time caring and helping others (10.38 hours per week) than U.S. females (5.14 hours per week).

Data Description

The Mexican Time Use Survey ("MTUS") is a survey conducted by the Mexico's Instituto Nacional De Estadística Y Geografía (INEGI). The INEGI MTUS data provides estimates of the number of hours spent weekly on time use for persons living in Mexico. Similar to the American Time Use Survey, the MTUS provides detailed weekly time diary information on labor market and non-labor market activities ranging from childcare to preparing meals for a sample of Mexican residents.

In the MTUS, Mexican households are randomly selected and individuals who are over the age of 11 are asked about the various activities of the previous week. Respondents report the total time during the

previous week that was spent on each task. According to the INEGI website, the organization has conducted and made publicly available surveys that were conducted in 2002 and 2009

In this study, we analyze the time spent on various activities as reported by a sub set of the households responding to the 2009 MTUS. Our sample includes persons who are age 18 years and over that are not currently attending school and live in a one family household that does not have non-family members or borders residing at the residence. Additionally to better ensure that the sample responses are typical of a 'regular week', we do not include persons that were absent from work due to strike, vacation, work stoppage, or for a similar reason. We also exclude persons for whom the past week's event include a party event, extended visit, vacation, sick, illness in the family, accident, or a death in the family. We also exclude persons that are ill, have a chronic disease requiring continuous care, or have a physical or intellectual handicap requiring continuous care.

Demographics (Tables 1 to 7)

Table 1

Respondents by Location		
	Number of Respondents	Percentage of Respondents
Urban	18,301	73.37%
Rural	6,641	23.63%
Total	24,942	100.00%

Table 2

Gender of Respondents	
Gender	Number
Male	10,873
Female	11,832
Missing	
Total	24,942

Table 3

Respondents by Relationship to the Head of the Household		
Relation to Head of Household	Number of Respondents	Percentage of Respondents
Head	9,483	38.02%
Spouse or colleague	6,687	26.81%
Son	4,464	17.90%
Grandson	206	0.83%
Son / Daughter	677	2.71%
Parent	256	1.03%
Other relative: uncle, nephew, cousin	667	2.67%
No relation	256	1.03%
Guest or employee Domestic	9	0.04%
Missing	2,237	8.97%

Total	24,942	100.00%
-------	--------	---------

Table 4

Respondents by Age		
Age Range	Number of Respondents	Percentage of Respondents
18 to 20	1,368	5.48%
21 to 30	5,519	22.13%
31 to 40	5,622	22.54%
41 to 50	4,431	17.77%
51 to 60	2,908	11.66%
61 to 70	1,700	6.82%
over 70	1,157	4.64%
Missing	2,237	8.97%
Total	24,942	100.0%

Table 5

Respondents by Highest Level of Education		
Highest Level of Education	Number of Respondents	Percentage of Respondents
Less Than High School	15,438	61.90%
School or High School	3,080	12.35%
Technical or Commercial Career	1,215	4.87%
Professional	2,764	11.08%
Master	169	0.68%
Doctoral	39	0.16%
Missing	2,237	8.97%
Total	24,942	100.00%

Table 6

Respondents by Ability to Read and Write		
	Number of Respondents	Percentage of Respondents
Can Read and Write	20,980	84.12%
Can Not Read and Write	1,725	6.92%
Unknown	2,237	8.97%
Total	24,942	100.00%

Table 7

Respondents by Marital Status		
Marital Status	Number of Respondents	Percentage of Respondents
Lives with his common-law partner	3,438	13.78%
Separated	1140	4.57%
Divorced	350	1.40%
Widow (er)	1148	4.60%
Married	11842	47.48%
Single	4787	19.19%
Missing	2,237	8.97%
Total	24,942	100.00%

Employment Status (Tables 8 to 9)

Table 8

Respondents by Employment Status		
	Number of Respondents	Percentage of Respondents
Unemployed	9,117	36.55%
Employed	15,825	63.45%
Total	24,942	100.00%

Table 9

Respondents by Workforce Status		
Workforce Status	Number of Respondents	Percentage of Respondents
Active	16,494	66.13%
Retired	531	2.13%
Disables	138	0.55%
Missing	7,779	31.19%
Total	24,942	100.00%

The following definitions were used to create more descriptions for each respondent:

Employed All persons who, during the past week: 1) Worked during the past week. 2) Were paid for a product or service; farmed, ranched, or raised animals; or worked 15 hours or more in a family operated enterprise. 3) All those who were not working due to strike, vacation, work stoppage, etc.

Employed Full Time All employed persons that worked 35 hours or more during the past week.

Employed Part Time All employed persons that worked fewer than 35 hours during the past week.

Not Employed Persons are not employed if they do not meet the criteria for employment above.

Household Characteristics
(Tables 10 to 14)

Table 10

Respondents Employing a Domestic Worker		
Employees a Domestic	Number of Respondents	Percentage of Respondents
No	23,503	94.23%
Yes	1,439	5.77%
Total	24,942	100.00%

Table 11

Respondents by Water Access		
Daily Running Water in House	Number of Respondents	Percentage of Respondents
No	11,595	46.49%
Yes	13,347	53.51%
Total	24,942	100.00%

Table 12

Respondents by Toilet Type		
Working Toilet	Number of Respondents	Percentage of Respondents
No	12,100	48.51%
Yes	12,842	51.49%
Total	24,942	100.00%

Table 13

Respondents by Electricity Access		
Is there electricity in this house?	Number of Respondents	Percentage of Respondents
Yes	19,636	78.73%
No	225	0.90%
Unspecified	1,081	20.37%
Total	24,942	100.00%

Table 14

Respondents by Vehicle Access		
Household has at Least One Vehicle	Number of Respondents	Percentage of Respondents
Yes	10,455	41.92%
Unspecified	14,487	58.08%
Total	24,942	100.00%

Mexican Time Use by Gender (Tables 15 to 17)

Generally, Mexican females devote more time to household production tasks and care and helping others than Mexican males do. In Particular, females spend approximately 3.8 times the amount of time that males do on Household Production (cleaning, cooking, shopping, etc) and approximately 2.5 times the amount of time that males do on Care and Help.

Respondents, both male and female, that have running water and electricity devote less time (approximately 3.5 hours) to ousehold Production tasks than respondents that do not.

Table 15

Total Weekly Hours Reported by Gender						
Gender	Respondents	25th Percentile	50th Percentile	75th Percentile	Average Total Time Reported	Percent Reporting Over 168 Hours (24 hours x 7 days)
Male	10,873	132.62	151.08	171.67	152.73	28.78%
Female	11,832	133.13	159.10	189.67	165.09	41.26%

Note: The MexTUS does not distinguish between primary and secondary tasks performed. This leads to instances where reported activity time exceeded 168 hours in a week.

Table 16

Weekly Hours by Task and Gender			
Combined	Females	Males	Ratio
Household Production	36.70	9.67	3.8
Care and Helping	23.31	9.47	2.46
Those with Children Under 18			
Household Production	38.89	8.86	4.39
Care and Helping	29.73	11.25	2.64
Those without Children Under 18			
Household Production	32.08	11.08	2.9
Care and Helping	9.72	6.39	1.52

Table 17

Weekly Hours for Females 12 to 17 and Males Over the Age of 17			
Time Use Category	Females 12 to 17	Males Over 17	Ratio
Inside Housework	6.22	2.01	3.09
Food Cooking & Clean-up	5.45	3.86	1.41
Pets, Home & Vehicles	0.72	1.67	0.43
Household Management	0.25	0.97	0.26
Shopping	0.68	1.04	0.65
Obtaining Services	0.02	0.05	0.40
Travel for Household Activities	0.08	0.07	1.14
Household Production	13.42	9.67	1.39
Household Children	3.27	3.39	0.96
Household Adults	4.93	5.22	0.94
Non-Household Members	0.55	0.24	2.29
Travel for Household Members	0.39	0.61	0.64
Care and Helping	9.15	9.47	0.97

Mexican Time Use by Employment Status
(Tables 18)

Table 18

Weekly Hours by Task and Employment Status			
Time Use Category	Employed	Unemployed	Ratio
Inside Housework	5.32	13.55	0.39
Food Cooking & Clean-up	7.18	17.82	0.40
Pets, Home & Vehicles	1.59	2.43	0.66
Household Management	1.01	0.89	1.13
Shopping	1.36	1.74	0.78
Obtaining Services	0.06	0.10	0.59
Travel for Household Activities	0.11	0.29	0.39
Household Production	16.63	36.81	0.45
Household Children	6.05	13.56	0.45
Household Adults	5.70	7.67	0.74
Non-Household Members	0.37	1.02	0.36
Travel for Household Members	0.81	1.16	0.69
Care and Helping	12.92	23.42	0.55

Mexican Time Use by Age and Head of Household Status
(Tables 19 to 21)

Table 19

Weekly Hours by Task for Adults and Children			
Time Use Category	Adults Over 17	Children 12 to 17	Ratio
Inside Housework	7.99	4.28	1.86
Food Cooking & Clean-up	10.49	3.96	2.65
Pets, Home & Vehicles	1.85	0.75	2.47
Household Management	0.97	0.26	3.71
Shopping	1.46	0.61	2.40
Obtaining Services	0.07	0.02	2.89
Travel for Household Activities	0.16	0.07	2.46
Household Production	23.00	9.96	2.31
Household Children	8.28	2.29	3.62
Household Adults	6.41	4.30	1.49
Non-Household Members	0.58	0.41	1.42
Travel for Household Members	0.92	0.33	2.76
Care and Helping	16.19	7.32	2.21

Table 20

Weekly Hours by Task and Age								
Time Use Category	12-17	18-20	21-30	31-40	41-50	51-60	61-70	Over 70
Inside Housework	4.28	5.83	7.61	9.15	8.78	8.26	7.57	5.31
Food Cooking & Clean-up	3.96	5.86	8.68	11.64	11.96	12.32	12.59	10.20
Pets, Home & Vehicles	0.75	1.00	1.42	2.00	2.20	2.32	2.31	1.88
Household Management	0.26	0.50	0.85	1.12	1.15	1.13	0.99	0.73
Shopping	0.61	0.87	1.29	1.64	1.76	1.66	1.41	1.14
Obtaining Services	0.02	0.05	0.06	0.08	0.08	0.07	0.06	0.07
Travel for Household Activities	0.07	0.10	0.16	0.25	0.16	0.14	0.07	0.05
Household Production	9.96	14.21	20.07	25.89	26.09	25.89	25.00	19.38
Household Children	2.29	5.92	12.34	13.01	6.15	2.62	1.16	0.64
Household Adults	4.30	5.24	6.60	6.41	6.15	6.41	6.44	8.58
Non-Household Members	0.41	0.63	0.41	0.45	0.72	0.90	0.84	0.27
Travel for Household Members	0.33	0.56	0.98	1.42	1.01	0.54	0.39	0.23
Care and Helping	7.32	12.35	20.34	21.29	14.03	10.48	8.82	9.73

Table 21

Weekly Hours Reported by Household members			
Relation to Head of Household	Number of Respondents	Household Production	Care and Helping
Head	9,483	15.68	11.58
Spouse or colleague	6,687	42.27	26.64

Mexican Household Services Versus U.S. Household Services (Table 22)

Males in the MTUS spend approximately 40% less time doing household production tasks than males in the ATUS. Conversely, females in the MTUS spend approximately 50% more time doing household production tasks than females in the ATUS. Both males and females spend approximately twice as much time on activities related to caring and helping others than their ATUS counterparts.

Table 22

How the MexTUS Weekly Hours compare to the 2005 ATUS for Married Individuals that work full-time, youngest child ages 13-17				
Time Use Category	Males		Females	
	ATUS	MexTUS	ATUS	MexTUS
Inside Housework	1.36	1.19	6.26	11.97
Food Cooking & Clean-up	1.83	3.29	5.56	16.10
Pets, Home & Vehicles	5.44	1.68	2.77	2.11
Household Management	1.30	1.08	1.34	1.35
Shopping	1.96	1.05	3.76	2.16
Obtaining Services	0.13	0.04	0.09	0.06
Travel for Household Activities	2.26	0.05	2.62	0.21
Household Production	14.29	8.38	22.41	33.95
Household Children	1.38	1.42	2.24	1.83
Household Adults	0.15	4.46	0.35	6.89
Non-Household Members	0.59	0.23	0.86	0.71
Travel for Household Members	0.87	0.55	1.23	0.94
Travel for Non-Household Members	0.35		0.44	
Care and Helping	3.33	6.65	5.14	10.38

Regression Results
(Table 23 and 24).

Table 23

Household Services						
	m1	m2	m3	m4	m5	m6
Spouse or Colleague	10.3191*** (0.3965)	10.3191*** (0.3965)	10.3359*** (0.3847)	10.3399*** (0.3848)	9.8314*** (0.3702)	9.8235*** (0.3701)
Son	-2.8338*** (0.5175)	-2.8338*** (0.5175)	-2.6971*** (0.5013)	-2.5236*** (0.4995)	-4.5411*** (0.4207)	-4.5430*** (0.4207)
Grandson	-3.0212* (1.2604)	-3.0212* (1.2604)	-2.2013 (1.2218)	-2.0337 (1.2211)	-4.2868*** (1.1763)	-4.2898*** (1.1763)
Son/Daughter	1.6147* (0.7582)	1.6147* (0.7582)	1.7344* (0.7392)	1.7324* (0.7370)	-0.0057 (0.6783)	-0.0038 (0.6783)
Parent	-6.1014*** (1.1707)	-6.1014*** (1.1707)	-5.7623*** (1.1347)	-5.7786*** (1.1352)	-6.5380*** (1.0698)	-6.5637*** (1.0694)
Other Relative: uncle, nephew, cousin	-3.9230*** (0.7506)	-3.9230*** (0.7506)	-3.8824*** (0.7301)	-3.7243*** (0.7290)	-5.2688*** (0.6820)	-5.2762*** (0.6819)
No Relation	-1.0841 (1.1107)	-1.0841 (1.1107)	-0.8692 (1.0892)	-0.6488 (1.0890)	-2.4150* (1.0469)	-2.4344* (1.0467)
Guest or employee domestic	22.8191** (7.1194)	22.8191** (7.1194)	20.1794** (6.5132)	20.1435** (6.5175)	14.5499** (5.3497)	14.5519** (5.3497)
Female	17.3863*** (0.3263)	17.3863*** (0.3263)	17.3737*** (0.3167)	17.3886*** (0.3168)	17.7476*** (0.3075)	17.7483*** (0.3075)
Age 21 to 30	2.1057*** (0.5332)	2.1057*** (0.5332)	2.2736*** (0.5167)	2.1379*** (0.5160)	2.1706*** (0.5029)	2.1584*** (0.5027)
Age 31 to 40	4.7666*** (0.5732)	4.7666*** (0.5732)	4.9053*** (0.5556)	4.9573*** (0.5554)	4.9308*** (0.5415)	4.9086*** (0.5409)
Age 41 to 50	5.0468*** (0.6138)	5.0468*** (0.6138)	5.2165*** (0.5949)	5.2431*** (0.5951)	4.8292*** (0.5747)	4.7943*** (0.5733)
Age 51 to 60	5.0645*** (0.6699)	5.0645*** (0.6699)	5.1514*** (0.6484)	5.1005*** (0.6483)	4.4922*** (0.6212)	4.4352*** (0.6179)
Age 61 to 70	3.1940*** (0.7429)	3.1940*** (0.7429)	3.2226*** (0.7175)	3.1250*** (0.7174)	2.4709*** (0.6929)	2.3826*** (0.6858)
Age over 70	-2.4341** (0.8438)	-2.4341** (0.8438)	-2.5137** (0.8155)	-2.5912** (0.8154)	-3.0982*** (0.7881)	-3.2113*** (0.7779)
School or High School	4 0.5131 (0.3566)	-	-0.5131 (0.3566)	-0.4379 (0.3453)	-0.5405 (0.3445)	-0.4655 (0.3343)
Technical or Commercial Career	6 1.1704* (0.5217)		1.1704* (0.5217)	0.9375 (0.5056)	0.8397 (0.5055)	0.8113 (0.4916)
Professional	7 1.3903*** (0.3963)	-	-1.3903*** (0.3963)	-1.3879*** (0.3852)	-1.5077*** (0.3844)	-1.3985*** (0.3720)

Master	8 0.8032	-0.8032	-1.0017	-1.0867	-1.2942	-1.2917
	(1.3382)	(1.3382)	(1.3043)	(1.3049)	(1.2590)	(1.2590)
Doctoral	9 7.0927**	-7.0927**	-7.4135**	-7.4670**	-7.0938**	-7.0769**
	(2.7091)	(2.7091)	(2.6390)	(2.6368)	(2.5814)	(2.5813)
employed	-4.7204***	-4.7204***	-4.3863***	-4.3542***	-4.2509***	-4.2447***
	(0.6989)	(0.6989)	(0.6766)	(0.6767)	(0.6630)	(0.6629)
Has Domestic Employee	-3.7941***	-3.7941***	-3.8191***	-3.8281***	-3.7604***	-3.7511***
	(0.5007)	(0.5007)	(0.4878)	(0.4881)	(0.4886)	(0.4885)
active in workforce	-4.3196***	-4.3196***	-4.7130***	-4.7356***	-4.8579***	-4.8553***
	(0.7437)	(0.7437)	(0.7202)	(0.7203)	(0.7049)	(0.7049)
retired	-2.8838***	-2.8838***	-2.8186***	-2.7662***	-2.6065**	-2.5494**
	(0.8491)	(0.8491)	(0.8211)	(0.8217)	(0.8050)	(0.8024)
disabled	-12.8827***	12.8827***	12.1396***	11.9293***	11.7635***	11.8091***
	(1.7472)	(1.7472)	(1.6919)	(1.6912)	(1.6139)	(1.6131)
has a Child under 6	-2.4210	-2.4210	5.6833*	1.5457***	0.9380**	0.9307**
	(8.3157)	(8.3157)	(2.8103)	(0.3069)	(0.2937)	(0.2936)
has a Child 6-12	-3.0825	-3.0825	5.0178	0.6870*	0.5351	0.5308
	(8.3253)	(8.3253)	(2.8283)	(0.3416)	(0.3308)	(0.3307)
has a Child 13-17	-2.9420	-2.9420	5.1893	0.4380	0.1658	0.1599
	(8.3266)	(8.3266)	(2.8398)	(0.3921)	(0.3807)	(0.3806)
Has daily running water	-1.4400***	-1.4400***	-1.3766***	-1.4147***	-1.4218***	-1.4157***
	(0.2595)	(0.2595)	(0.2390)	(0.2388)	(0.2267)	(0.2266)
Rural	4.6244***	4.6244***	4.6134***	4.6452***	4.7314***	4.7021***
	(0.2931)	(0.2931)	(0.2817)	(0.2815)	(0.2716)	(0.2696)
Separated	3.9661***	3.9661***	3.9519***	3.9402***	5.1231***	5.1288***
	(0.6480)	(0.6480)	(0.6289)	(0.6288)	(0.5910)	(0.5910)
Divorced	5.0729***	5.0729***	5.1493***	5.0843***	6.1404***	6.1544***
	(0.9804)	(0.9804)	(0.9605)	(0.9609)	(0.9298)	(0.9297)
Widowed	1.8592**	1.8592**	2.1394**	2.1003**	3.1131***	3.0933***
	(0.7069)	(0.7069)	(0.6841)	(0.6843)	(0.6513)	(0.6509)
Married	1.2047***	1.2047***	1.2787***	1.2864***	1.1022***	1.1134***
	(0.3424)	(0.3424)	(0.3324)	(0.3324)	(0.3229)	(0.3226)
Single	1.0404*	1.0404*	1.0309*	1.0029*	1.8531***	1.8509***
	(0.5196)	(0.5196)	(0.5038)	(0.5040)	(0.4777)	(0.4777)
Has a Working Toilet	let 0.7245*	-0.7245*	-0.8250**	-0.9047***	-0.9740***	-0.9539***
	(0.2981)	(0.2981)	(0.2654)	(0.2647)	(0.2518)	(0.2508)
region==2	0.8828**	0.8828**	0.9277**	0.9566**	1.0774***	1.0767***
	(0.3176)	(0.3176)	(0.3072)	(0.3072)	(0.2975)	(0.2975)
region==3	0.0547	0.0547	-0.1055	-0.1119	0.2494	0.2548
	(0.3336)	(0.3336)	(0.3218)	(0.3219)	(0.3106)	(0.3106)
region==4	-1.2445***	-1.2445***	-1.2490***	-1.2478***	-1.1336***	-1.1524***
	(0.3241)	(0.3241)	(0.3112)	(0.3110)	(0.3007)	(0.3000)
House hold has a Vehicle	0.8764***	0.8764***	1.0108***	1.0314***	0.8505***	0.8609***
	(0.2602)	(0.2602)	(0.2509)	(0.2505)	(0.2452)	(0.2449)
Can not Read and Write	-0.5919	-0.5919	-0.5140	-0.4451	-0.3930	
	(0.4737)	(0.4737)	(0.4566)	(0.4564)	(0.4398)	
adults==1	4.5567	4.5567	4.5249	4.0302		

	(2.5427)	(2.5427)	(2.5409)	(2.2358)		
adults==2	0.5625	0.5625	0.6276	0.0505		
	(2.5011)	(2.5011)	(2.5015)	(2.1813)		
adults==3	0.3117	0.3117	0.4309	-0.1825		
	(2.5004)	(2.5004)	(2.5007)	(2.1830)		
adults==4	-0.1344	-0.1344	-0.1406	-0.8330		
	(2.5111)	(2.5111)	(2.5109)	(2.1882)		
adults==5	0.4047	0.4047	0.2335	-0.3585		
	(2.5260)	(2.5260)	(2.5248)	(2.2045)		
adults==6	-1.0541	-1.0541	-1.0734	-1.5842		
	(2.5743)	(2.5743)	(2.5712)	(2.2515)		
adults==7	-3.8745	-3.8745	-3.6838	-3.9410		
	(2.6755)	(2.6755)	(2.6591)	(2.3588)		
adults==8	-4.7080	-4.7080	-5.1171	-5.1504*		
	(2.8100)	(2.8100)	(2.7761)	(2.5255)		
adults==9	-3.3457	-3.3457	-3.5938	-3.4747		
	(3.4784)	(3.4784)	(3.4812)	(3.2553)		
adults==10	-2.5589	-2.5589	-2.5824	-1.5931		
	(3.7345)	(3.7345)	(3.7361)	(3.5244)		
adults==11	-7.4100	-7.4100	-7.4661	-8.0993*		
	(4.2332)	(4.2332)	(4.2367)	(4.0567)		
_lkids_1	3.3140	3.3140	-4.9088			
	(8.3183)	(8.3183)	(2.8164)			
_lkids_2	3.8494	3.8494	-4.4030			
	(8.3159)	(8.3159)	(2.8126)			
_lkids_3	4.5143	4.5143	-3.4986			
	(8.3167)	(8.3167)	(2.8190)			
_lkids_4	3.9404	3.9404	-4.2121			
	(8.3240)	(8.3240)	(2.8451)			
_lkids_5	7.1375	7.1375	-0.7655			
	(8.3406)	(8.3406)	(2.8957)			
_lkids_6	3.7871	3.7871	-3.7850			
	(8.3714)	(8.3714)	(3.0244)			
_lkids_7	3.7285	3.7285	-4.3886			
	(8.3537)	(8.3537)	(3.2086)			
_lkids_8	9.3577	9.3577	.			
	(8.7755)	(8.7755)	.			
_lkids_9	10.7091	10.7091	2.5478			
	(8.5488)	(8.5488)	(3.6360)			
_lkids_10	3.0852	3.0852	-5.2399			
	(8.5968)	(8.5968)	(4.1667)			
_lkids_12	.	.	-8.3772			
	.	.	(8.6933)			
_lkids_13	.	.	.			
	.	.	.			
Home has a room to cook	4.7129	4.7129				
	(15.8482)	(15.8482)				
someone sleep in the room to cook	5.2808	5.2808				
	(15.8539)	(15.8539)				

_cons	7.7310	7.7310	12.3318***	12.9981***	13.6836***	13.6728***
	(16.0583)	(16.0583)	(2.6099)	(2.3045)	(0.7271)	(0.7270)
r2	0.492	0.492	0.491	0.490	0.487	0.487
N	19862	19862	21210	21210	22705	22705

Table 24

Caring and Helping							
	m1	m2	m3	m4	m5	m6	m7
Spouse or Colleague	2.7455*** (0.5832)	2.7336** * (0.5828)	2.8038*** (0.5638)	2.7832*** (0.5635)	2.7991*** (0.5634)	2.8011*** (0.5634)	2.8046*** (0.5634)
Son	1.5223* (0.7610)	1.5195* (0.7610)	1.3743 (0.7351)	1.2481 (0.7320)	1.2401 (0.7319)	1.2510 (0.7317)	1.2418 (0.7317)
Grandson	4.3312* (1.8537)	4.3311* (1.8537)	5.0905** (1.7918)	4.9328** (1.7895)	4.9272** (1.7895)	4.9419** (1.7893)	4.9022** (1.7892)
Son/Daughter	3.1710** (1.1151)	3.1584** (1.1149)	3.0411** (1.0839)	2.8193** (1.0798)	2.8317** (1.0797)	2.8452** (1.0795)	2.8422** (1.0795)
Parent	-5.4013** (1.7218)	-5.4325** (1.7211)	- 5.5611*** (1.6633)	- 5.6178*** (1.6629)	- 5.5754*** (1.6625)	- 5.5819*** (1.6625)	- 5.5369*** (1.6623)
Other Relative: uncle, nephew, cousin	0.6038 (1.1040)	0.5978 (1.1039)	0.4620 (1.0707)	0.3651 (1.0682)	0.3853 (1.0681)	0.3829 (1.0681)	0.4130 (1.0679)
No Relation	-2.0613 (1.6335)	-2.0851 (1.6330)	-1.9123 (1.5969)	-2.0456 (1.5955)	-2.0309 (1.5955)	(2.0381) (1.5954)	(1.9594) (1.5948)
Guest or employee domestic	-6.2015 (10.4706)	-6.2962 (10.4694)	-3.8266 (9.5502)	-3.9295 (9.5499)	-3.8955 (9.5500)	(3.8665) (9.5497)	(3.8161) (9.5500)
Female	9.0672*** (0.4799)	9.0781** * (0.4795)	9.0235*** (0.4641)	9.0218*** (0.4639)	9.0310*** (0.4639)	9.0246*** (0.4637)	9.0500*** (0.4635)
Age 21 to 30	1.2822 (0.7841)	1.2813 (0.7841)	1.7094* (0.7577)	1.7844* (0.7562)	1.7826* (0.7562)	1.7848* (0.7562)	1.8368* (0.7555)
Age 31 to 40	-0.6145 (0.8430)	-0.6250 (0.8428)	-0.3113 (0.8146)	-0.3935 (0.8137)	-0.3829 (0.8137)	(0.3813) (0.8137)	(0.3025) (0.8123)
Age 41 to 50	-3.7582*** (0.9027)	- 3.7671** * (0.9026)	- 3.5116*** (0.8723)	- 3.5551*** (0.8720)	- 3.5392*** (0.8719)	- 3.5421*** (0.8718)	- 3.4505*** (0.8701)
Age 51 to 60	-5.2338*** (0.9852)	- 5.2444** * (0.9850)	- 4.9029*** (0.9506)	- 4.8834*** (0.9499)	- 4.8579*** (0.9496)	- 4.8545*** (0.9496)	- 4.7502*** (0.9475)
Age 61 to 70	-6.0950***	- 6.0864** * (0.9850)	- 5.9260*** (0.9506)	- 5.8635*** (0.9499)	- 5.8350*** (0.9496)	- 5.8361*** (0.9496)	- 5.7267*** (0.9475)

	(1.0926)	(1.0925)	(1.0521)	(1.0512)	(1.0509)	(1.0509)	(1.0488)
Age over 70	-4.0520**	-4.0299**	-3.8866**	-3.8265**	-3.8115**	-3.8126**	-3.6901**
	(1.2410)	(1.2405)	(1.1955)	(1.1946)	(1.1945)	(1.1945)	(1.1922)
School or High School	4 1.3395*	1.3149*	1.3447**	1.4397**	1.4892**	1.4759**	1.5955**
	(0.5245)	(0.5230)	(0.5049)	(0.5035)	(0.5015)	(0.5011)	(0.4958)
Technical or Commercial Career	6 4.0712***	4.0342** *	3.8699***	3.9439***	4.0009***	3.9789***	4.1320***
	(0.7673)	(0.7650)	(0.7392)	(0.7386)	(0.7369)	(0.7360)	(0.7301)
Professional	7 3.0301***	2.9677** *	3.1291***	3.2272***	3.2840***	3.2531***	3.4324***
	(0.5828)	(0.5744)	(0.5561)	(0.5547)	(0.5524)	(0.5501)	(0.5392)
Master	8 4.4789*	4.4107*	4.4872*	4.6116*	4.6637*	4.6322*	4.8239*
	(1.9681)	(1.9651)	(1.9100)	(1.9096)	(1.9090)	(1.9083)	(1.9049)
Doctoral	9 -3.3699	-3.4440	-3.3059	-3.3474	-3.2624	(3.2464)	(3.2039)
	(3.9843)	(3.9825)	(3.8682)	(3.8623)	(3.8616)	(3.8614)	(3.8615)
employed	-2.5172*	-2.5342*	-2.3524*	-2.2941*	-2.3116*	-2.3106*	-2.3154*
	(1.0278)	(1.0275)	(0.9919)	(0.9913)	(0.9912)	(0.9912)	(0.9912)
Has Domestic Employee	2.6171***	2.5610** *	2.4333***	2.4303***	2.4494***	2.4386***	2.5135***
	(0.7363)	(0.7309)	(0.7102)	(0.7102)	(0.7100)	(0.7097)	(0.7083)
active in workforce	-4.2761***	-4.2601** *	-4.4162***	-4.4538***	-4.4036***	-4.4131***	-4.3792***
	(1.0937)	(1.0934)	(1.0559)	(1.0552)	(1.0543)	(1.0542)	(1.0540)
retired	-1.9060	-1.9260	-1.8244	-1.8533	-1.7975	(1.8162)	(1.7415)
	(1.2489)	(1.2484)	(1.2037)	(1.2037)	(1.2026)	(1.2022)	(1.2014)
disabled	-4.3909	-4.3849	-3.8665	-3.7108	-3.6982	(3.6736)	(3.6612)
	(2.5697)	(2.5696)	(2.4811)	(2.4783)	(2.4783)	(2.4780)	(2.4781)
has a Child under 6	-1.9619	-2.1528	17.8489** *	14.9092** *	14.9060** *	14.9117** *	14.8769** *
	(12.2301)	(12.2261)	(4.1213)	(0.4497)	(0.4497)	(0.4496)	(0.4491)
has a Child 6-12	-10.2480	-10.4497	9.5120*	6.7755***	6.7797***	6.7810***	6.7599***
	(12.2441)	(12.2398)	(4.1475)	(0.5005)	(0.5005)	(0.5005)	(0.5003)
has a Child 13-17	-16.5668	-16.7710	3.0696	0.6867	0.6776	0.6793	0.6785
	(12.2460)	(12.2416)	(4.1643)	(0.5745)	(0.5744)	(0.5744)	(0.5744)
Separated	-1.9670*	-1.9481*	-1.7498	-1.6828	-1.6511	(1.6532)	(1.6066)
	(0.9530)	(0.9525)	(0.9219)	(0.9211)	(0.9207)	(0.9207)	(0.9203)
Divorced	-5.3170***	-5.3152** *	-4.8234***	-4.7704***	-4.7304***	-4.7419***	-4.6561***
	(1.4419)	(1.4419)	(1.4085)	(1.4082)	(1.4078)	(1.4076)	(1.4067)

Widowed	-4.9641***	-4.9617** *	-4.8173***	-4.7647***	-4.7503***	-4.7570***	-4.7143***
	(1.0396)	(1.0396)	(1.0032)	(1.0029)	(1.0028)	(1.0027)	(1.0024)
Married	-0.5279	-0.5439	-0.3853	-0.3946	-0.4097	(0.4099)	(0.3698)
	(0.5036)	(0.5029)	(0.4866)	(0.4863)	(0.4861)	(0.4861)	(0.4855)
Single	-6.5338***	-6.5201** *	-6.3106***	-6.2733***	-6.2644***	-6.2675***	-6.2258***
	(0.7642)	(0.7638)	(0.7387)	(0.7384)	(0.7384)	(0.7383)	(0.7379)
Can not Read and Write	-3.8681***	-3.8448** *	-3.8527***	-3.9248***	-4.0085***	-3.9885***	-4.1537***
	(0.6966)	(0.6957)	(0.6685)	(0.6677)	(0.6636)	(0.6628)	(0.6552)
adults==1	2.9253	2.8828	2.9476	7.1259*	7.1447*	7.1056*	7.2614*
	(3.7395)	(3.7388)	(3.7256)	(3.2763)	(3.2763)	(3.2756)	(3.2744)
adults==2	4.4820	4.4245	4.3413	8.6202**	8.6387**	8.5982**	8.7628**
	(3.6784)	(3.6772)	(3.6672)	(3.1966)	(3.1966)	(3.1959)	(3.1945)
adults==3	3.2549	3.1839	3.2184	7.5070*	7.5267*	7.4870*	7.6598*
	(3.6773)	(3.6755)	(3.6653)	(3.1990)	(3.1990)	(3.1983)	(3.1967)
adults==4	0.0266	-0.0528	0.0698	4.4404	4.4651	4.4166	4.5961
	(3.6931)	(3.6909)	(3.6798)	(3.2066)	(3.2065)	(3.2055)	(3.2038)
adults==5	-0.0547	-0.1416	-0.1060	4.2203	4.2392	4.1860	4.3769
	(3.7150)	(3.7124)	(3.6999)	(3.2304)	(3.2304)	(3.2292)	(3.2273)
adults==6	-1.4641	-1.5586	-1.2412	3.0080	3.0640	3.0194	3.2176
	(3.7860)	(3.7830)	(3.7674)	(3.2992)	(3.2988)	(3.2980)	(3.2959)
adults==7	-4.8718	-4.9661	-4.8551	-0.6245	-0.5953	(0.6587)	(0.5288)
	(3.9348)	(3.9319)	(3.8966)	(3.4564)	(3.4563)	(3.4547)	(3.4540)
adults==8	-3.6084	-3.6887	-4.1938	-0.2175	-0.1982	(0.2682)	0.0023
	(4.1328)	(4.1307)	(4.0688)	(3.7008)	(3.7008)	(3.6990)	(3.6955)
adults==9	-0.7983	-0.8650	-1.2456	2.8313	2.9208	2.9309	3.0074
	(5.1157)	(5.1146)	(5.1039)	(4.7706)	(4.7699)	(4.7698)	(4.7698)
adults==10	-3.5500	-3.6332	-3.7337	0.2389	0.2906	0.2706	0.6433
	(5.4924)	(5.4907)	(5.4771)	(5.1645)	(5.1643)	(5.1641)	(5.1594)
adults==11	-2.3483	-2.3140	-2.4153	1.9668	2.0617	1.8974	2.4286
	(6.2258)	(6.2255)	(6.2129)	(5.9432)	(5.9427)	(5.9366)	(5.9281)
region==2	0.1237	0.0892	0.0401	0.0219	-0.0245	(0.0450)	(0.0361)
	(0.4671)	(0.4639)	(0.4477)	(0.4473)	(0.4454)	(0.4442)	(0.4442)
region==3	1.0214*	0.9764*	0.7603	0.7737	0.7357	0.6733	0.7276
	(0.4907)	(0.4855)	(0.4673)	(0.4671)	(0.4659)	(0.4548)	(0.4537)
region==4	-2.1085***	-2.0954** *	-2.0190***	-1.9787***	-2.0292***	-2.0401***	-2.1513***
	(0.4766)	(0.4762)	(0.4555)	(0.4550)	(0.4528)	(0.4524)	(0.4474)

Has a Working Toilet	let	0.8937*	0.8374	0.4627	0.5312	0.6356	0.6011	
		(0.4385)	(0.4293)	(0.3819)	(0.3809)	(0.3693)	(0.3651)	
Has daily running water		-0.5607	-0.5582	-0.3096	-0.2830	-0.2127		
		(0.3816)	(0.3816)	(0.3504)	(0.3500)	(0.3444)		
Rural		-0.4026	-0.4164	-0.4555	-0.4631			
		(0.4311)	(0.4306)	(0.4128)	(0.4122)			
_lkids_1		17.4407	17.6364	-2.1518				
		(12.2338)	(12.2297)	(4.1301)				
_lkids_2		16.6768	16.8782	-2.9849				
		(12.2304)	(12.2260)	(4.1245)				
_lkids_3		16.2434	16.4374	-3.2610				
		(12.2315)	(12.2275)	(4.1339)				
_lkids_4		16.4631	16.6644	-3.4721				
		(12.2422)	(12.2379)	(4.1722)				
_lkids_5		15.3904	15.5859	-3.7885				
		(12.2667)	(12.2626)	(4.2464)				
_lkids_6		15.6038	15.7785	-3.8168				
		(12.3119)	(12.3086)	(4.4352)				
_lkids_7		15.0304	15.2034	-4.6842				
		(12.2859)	(12.2827)	(4.7053)				
_lkids_8		20.9603	21.1879	.				
		(12.9062)	(12.9010)	.				
_lkids_9		15.1247	15.2389	-4.3031				
		(12.5728)	(12.5713)	(5.3313)				
_lkids_10		6.1649	6.2032	-13.8737*				
		(12.6434)	(12.6431)	(6.1065)				
_lkids_12		.	.	-20.1851				
		.	.	(12.7453)				
_lkids_13		.	.	.				
		.	.	.				
Home has a room to cook		-3.0116	-2.9060					
		(23.3082)	(23.3073)					
someone sleep in the room to cook		-1.7917	-1.6626					
		(23.3165)	(23.3153)					
House hold		-0.2420						

has a Vehicle							
	(0.3827)						
_cons	12.4907	12.4100	9.2876*	4.9076	4.6474	4.6473	4.6786
	(23.6171)	(23.6164)	(3.8271)	(3.3766)	(3.3687)	(3.3686)	(3.3687)
r2	0.207	0.207	0.208	0.208	0.208	0.2080	0.2080
N	19862	19862	21210	21210	21210	21210	21210